DEVON/STATEN ISLAND, LLC

STATEN ISLAND, NEW YORK

Remedial Investigation Report

NYC BCP Site Number: 12CBCP032R

Prepared for:

Devon/Staten Island, LLC

2000 Powell Street, Suite 1240
Emeryville, California 94608

Prepared by:

Roux Associates, Inc.

209 Shafter Street

Islandia, New York 11749

(631) 232-2600

March 2012

REMEDIAL INVESTIGATION REPORT
TABLE OF CONTENTS

LIST OF ACRONYMS v
CERTIFICATION vi
EXECUTIVE SUMMARY vii
1.0 SITE BACKGROUND 1
1.1 Site Location and Current Usage 1
1.2 Site Redevelopment History 1
1.3 Description of Surrounding Property 3
2.0 SITE HISTORY 4
2.1 Past Uses and Ownership 4
2.3 Site Inspection 5
2.4 Areas of Concern 5
3.0 PROJECT MANAGEMENT 6
3.1 Project Organization 6
3.2 Health and Safety 6
3.3 Materials Management 6
4.0 REMEDIAL INVESTIGATION ACTIVITIES 7
4.1 Borings and Monitoring Wells 7
4.2 Sample Collection and Chemical Analysis 8
5.0 ENVIRONMENTAL EVALUATION 12
5.1 Geological and Hydrogeological Conditions 12
5.2 Soil Chemistry 12
5.3 Groundwater Chemistry 13
5.4 Soil Vapor Chemistry 14
5.5 Prior Activity 15

FIGURES

1. Site Location Map
2. Site Plan with RI Sample Locations
3. Surrounding Land Uses
4. Groundwater Flow Map, September 9, 2011

TABLES

1. Sample Summary Table, Devon Self Storage Facility, Staten Island, New York
2. Construction Details for Soil Vapor Points, Soil Borings and Monitoring Wells, Devon Self Storage Facility, Staten Island, New York
3. Summary of Groundwater Gauging Data, September 9, 2011, Devon Self Storage Facility, Staten Island, New York
4. Analytical Methods Summary Table, Devon Self Storage Facility, Staten Island, New York
5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York
6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York
7. Summary of Metals in Soil, Devon Self Storage Facility, Staten Island, New York
8. Summary of Polychlorinated Biphenyls in Soil, Devon Self Storage Facility, Staten Island, New York
9. Summary of Pesticides in Soil, Devon Self Storage Facility, Staten Island, New York
10. Summary of Volatile Organic Compounds in Groundwater, Devon Self Storage Facility, Staten Island, New York
11. Summary of Semivolatile Organic Compounds in Groundwater, Devon Self Storage Facility, Staten Island, New York
12. Summary of Metals in Groundwater, Devon Self Storage Facility, Staten Island, New York
13. Summary of Volatile Organic Compounds in Soil Vapor, Devon Self Storage Facility, Staten Island, New York

APPENDICES

A. Redevelopment Design Drawings

B. Site Summary Report performed by Professional Services Industries, Inc. (PSI)

C. Phase I performed by PSI

D. Phase II performed by PSI

E. Non-hazardous Waste Disposal Manifest

F. Soil Boring and Monitoring Well Logs

G. Groundwater Sampling Logs

H. Soil Vapor Sampling Logs

I. Laboratory Data (electronic copy)

PLATES

1. Interior First Floor Plan with RI Sample Locations
2. Soil Sample Results in Excess of Part 375 Restricted Commercial SCOs
3. Groundwater Sample Results in Excess of GQS
4. Sub-Slab Soil Vapor and Indoor Air Sample Detections

LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
GPS	Global Positioning System
GQS	6NYCRR Part 703.5 Class GA groundwater quality standards
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC BCP	New York City Brownfield Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Joshua Levine, P.E., am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Devon/Staten Island LLC Site, (NYC BCP Site No. _____). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Joshua B. Levine, P.E.
Qualified Environmental Professional #084925

4/2/12
Date

Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 3131 Richmond Terrace in the Mariners Park section in Staten Island, New York and is identified as Block 1208 and Lots 9 and 10 on the New York City Tax Map. Figure 2 shows the Site location. The Site is 78,000-square feet and is bounded by May Ship Repair (3075 Richmond Terrace) to the north, Richmond Terrace to the south, May Ship Repair to the east, and McAllister Towing & Transportation (3165 Richmond Terrace) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is used as a commercial self storage facility and contains one 4-story warehouse connected with one 2-story warehouse building. The buildings are connected by a common wall and comprise the majority (at least 70%) of the property. Concrete paved driveways, concrete pads and asphalt parking areas comprise the remainder of the site. The building is designed for vehicular access and includes a heating ventilation and air conditioning (HVAC) system to meet high level air exchange requirements established in NYC building codes for buildings occupied by motor vehicles. In addition, a grass landscaped area was installed in front of the building during site development in 2007 through 2010. All of tax lot 10 and former tax lot 9 compose the Site. The tax lots were merged into one lot identified as tax lot 10 in 2008.

Summary of Proposed Redevelopment Plan

The Site was redeveloped in 2007 - 2010 to construct the Devon Self Storage Facility. Site redevelopment consisted of renovation of one 2-story building (north building), demolition of one pre-existing building (south building) and construction of a new 4-story self storage warehouse in its place. The redevelopment design drawings for the current warehouse are provided in Appendix A. The Site is currently zoned as M3-1 for Occupancy Group B-1 – Moderate Hazard Storage per the New York City Building Code, Title 27, Subchapter 3. Devon's client storage agreement does not allow for the storage of any hazardous materials on-site. The current and future use of the property as a self storage warehouse is consistent with

existing zoning for the property. The storage facility is used entirely for commercial purposes and contains a total floor area of 141,724 ft^2 (sum of 105,480 ft^2 new 4-story warehouse and 36,244 ft^2 existing 2-story building).

Summary of Past Uses of Site and Areas of Concern

Past Site uses included historic ship building and maintenance operations from owners including Staten Island Shipbuilding Co., United Shipyards, Inc., and Bethlehem Steel. These owners were listed in Sanborn maps dating from 1917 through 1962. Following the 1960's various users occupied the premises and prior to site redevelopment in 2007, the property was used for chair manufacturing (e.g., injection foam molding, metal fabrication, and chair assembly).

Past usage of the property and likely presence of historic fill constitute the Areas of Concern (AOC) for this property.

Summary of the Work Performed under the Remedial Investigation

Devon/Staten Island LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 8 soil borings across the entire project Site, and collected 9 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 4 groundwater monitoring wells throughout the Site to establish groundwater flow and collected 5 groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed 6 soil vapor probes around Site perimeter and collected 6 soil vapor samples and one indoor air sample for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from 3.8 to 7.5 feet.
2. Depth to groundwater ranges from 3.07 to 4.87 feet at the Site.
3. Groundwater flow is generally from southwest to northeast beneath the Site.
4. Depth to bedrock is reportedly 40 feet based upon driller correspondence, but was not encountered during the investigation at the Site.

5. The stratigraphy of the site, from the surface down, consists of an approximately 10 foot thick fine to coarse sand and gravel fill layer underlain by an organic silty clay layer of undetermined thickness.

6. Soil/fill samples collected during the RI showed no VOCs that exceeded Track 2 Commercial SCOs in any of approximately 23 samples. Several samples (generally 2 samples or less) were observed with VOC detections above Track 1 Unrestricted SCOs for benzene, carbon tetrachloride, cis-1,2 dichloroethene, acetone and trichloroethene. These detections were all well below Track 2 Commercial SCOs. Other VOCs including some BTEX and associated compounds were detected at low and trace levels and well below Track 1 Unrestricted SCOs. A variety of SVOCs were identified above Track 1 and Track 2 Commercial SCOs. All of these exceedences were PAH compounds. Three metals, barium, copper and lead, exceeded Track 2 Commercial SCOs in soil samples collected at the site. However, soil samples did not exceed TCLP limits for lead. Several metals exceeded Track 1 Unrestricted SCOs but were below Track 2 Commercial SCOs including selenium, zinc, cadmium, arsenic and mercury. In most of these cases Track 1 SCOs were exceeded in only one or two samples. No PCBs or pesticides exceeded Track 2 Commercial SCOs. PCBs were detected in one sample slightly above the Track 1 Unrestricted SCO. One pesticide, 4,4-DDT was detected in four samples above Track 1 SCOs.

7. Groundwater samples collected during the RI showed no VOCs were detected in groundwater above 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Several VOCs were detected in groundwater at trace or low levels but below GQS. TCE and PCE were not detected in groundwater samples collected in 2011. TCE was found at trace concentrations (1 ug/l) in one sample below GQS in 2007. No PCBs or pesticides were detected in groundwater. No SVOCs were detected in groundwater in 2007 sampling. Several SVOCs were detected at low concentrations in one sample in 2011 sampling. All of the compounds were high molecular weight PAH compounds and may be related to entrained particulates from fill material. Dissolved metals showed no exceedence of GQS with the exception of sodium and manganese. High sodium suggests the influence of saline intrusion.

8. Soil vapor samples collected during the RI contained a variety of low level findings for BTEX and associated petroleum compounds but generally concentrations were identified below 50 ug/m3. PCE was identified in most vapor samples at concentrations ranging as high as 160 ug/m3. TCE was also identified in most samples collected and ranged as high as 2,100 ug/m3. Chloroform, acetone and carbon tetrachloride also exceeded 1,000 ug/m3 in at least one soil vapor sample. These findings generally correlate with VOCs identified in onsite soil samples that exceed Track 1 SCOs and suggest an onsite origin for these vapors. Most of the site is covered with pavement or concrete building slab and buildup of vapor in the vadose zone below the site is expected. These findings support the need for vapor mitigation in the remedial action for this property.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Devon/Staten Island LLC (Devon) has enrolled in the New York City Brownfield Cleanup Program (NYC BCP) to investigate and remediate a 1.7-acre site located at 3131 Richmond Terrace in the Mariners Park section of Staten Island, New York. Commercial land use is currently utilized and will be maintained in the future for the property. The RI work was performed between September 6 and September 9, 2011. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 3131 Richmond Terrace in the Mariners Park section in Staten Island, New York and is identified as Block 1208 and Lot 10 on the New York City Tax Map. Figure 2 shows the Site location. The Site is 78,000-square feet and is bounded by May Ship Repair (3075 Richmond Terrace) to the north, Richmond Terrace to the south, May Ship Repair to the east, and McAllister Towing & Transportation (3165 Richmond Terrace) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is used as a commercial self storage facility and contains one 4-story warehouse connected to one 2-story warehouse building. The buildings are connected by a common wall and comprise the majority (at least 70%) of the property. Concrete paved driveways, concrete pads and asphalt parking areas comprise the reminder of the site. In addition, a grass landscaped area was installed in front of the building during Site development in 2007 through 2010. All of tax lot 10 and former tax lot 9 compose the Site. The tax lots were merged into one lot identified as tax lot 10 in 2008.

1.2 Site Redevelopment History

The Site was redeveloped in 2007 - 2010 to construct the Devon Self Storage Facility. Site redevelopment consisted of renovation of one 2-story building (north building) and demolition of one pre-existing building (south building) and construction of a new 4-story self storage

warehouse in its place. The design drawings for the current warehouse are provided in Appendix A. The Site is currently zoned as M3-1 for Occupancy Group B-1 – Moderate Hazard Storage per the New York City Building Code, Title 27, Subchapter 3. Devon's client storage agreement does not allow for the storage of any hazardous materials on-site. The current and future use of the property as a self storage warehouse is consistent with existing zoning for the property. The storage facility is used entirely for commercial purposes and contains a total floor area of 141,724 ft^2 (sum of 105,480 ft^2 new 4-story warehouse and 36,244 ft^2 existing 2-story building).

The warehouse contains an indoor drive through access path for vehicular offloading, multiple climate controlled storage units, two elevator bays and a 1,200 ft^2 office area (Appendix A).

The redevelopment construction work included localized excavation to approximately five (5) feet below land surface (bls) for pile caps, supports and formwork and less than two (2) feet bls to build the south building slab. In addition, excavation was performed during the installation of the drainage system and other small utility installations associated with the building. The existing concrete slab floor remained intact for the north building and the south building slab was removed, processed through a crusher, and used as fill at the Site. A Site Summary Report documenting inspections of the soil handling and disposal was conducted by Professional Services Industries, Inc. (PSI) during redevelopment and is attached as Appendix B.

During redevelopment, a total of 1,212.75 tons of excavated soil was transported to the Middlesex County Utilities Authority Landfill and used as landfill cover. Soil disposal and characterization documentation including non-hazardous waste manifests, facility disposal acceptance data, and soil stockpile analytical data is included in the Site Summary Report (Appendix B). Excavation was timed during the tidal cycles due to the relatively shallow depth to water (approximately 5 feet bls) and dewatering was not necessary. No visible signs of petroleum sheen or petroleum impacts were observed during the excavation. Stockpiled soil sampled for waste profiling indicated low level concentrations of diesel range organics and heavy metals were present with lead and mercury detected in excess of the Part 375 Unrestricted Use SCOs yet at concentrations below the applicable Part 375 Restricted Commercial SCOs. No exceedances of the Toxicity Characteristic Leachate Procedure (TCLP) metals were detected.

1.3 Description of Surrounding Property

The Site is located in a mixed use area with industrial, residential, and commercial neighbors bordering the site. Historically, ship building and maintenance were performed on the subject site and on surrounding north, west and east properties. Currently, residential housing is located across the street on the south side of Richmond Terrace. Industrial and commercial land uses border the property on all three sides north of Richmond Terrace. McAllister Towing & Transportation, a maritime barge and tugboat company, is located directly to the west of the Site. Richmond Industrial composes several lots located to the north and east of the Site. North and east of the Richmond Industrial properties is the Kill Van Kull/Newark Bay that separates Staten Island from New Jersey. A pier extending into Newark Bay is approximately 100 feet east of the Site. Directly east of the Site is a building owned by JT&JG realty that is leased to a commercial coffee roasting business, Unique Coffee Roasters.

Sensitive receptors include the downgradient Newark Bay and upgradient residential properties located south of Richmond Terrace. No known schools, hospitals or day care centers are within 500 feet of the Site. A day care center, Fellowship Learning Center, is located approximately 700 feet upgradient of the Site on the southeast corner of Richmond Terrace and Lockman Avenue (3036 Richmond Terrace).

Figure 3 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

The Phase I investigation (Appendix C) indicated historic ship building and maintenance operations from past owners including Staten Island Shipbuilding Co., United Shipyards, Inc., and Bethlehem Steel. These owners were listed in Sanborn maps dating from 1917 through 1962. Following the 1960's various users occupied the premises and prior to site redevelopment in 2007, the property was used for chair manufacturing (e.g., injection foam molding, metal fabrication, and chair assembly).

The subject property's south building was historically used for ship building and maintenance operations including, as indicated on the Sanborn maps, "Mold Loft and Joiner Shop," "paint storage", a "dry kiln", a "boiler house", and a "melting pot". Specific historical chemical use, waste generation and management practices on-site are unknown.

The subject property's north building was historically used as a "plate shop" with an earth (exposed) floor, as indicated on the Sanborn maps. Specific historical chemical use, waste generation and management practices on-site are unknown.

2.2 Previous Investigations

A Phase II investigation was performed by PSI prior to redevelopment in 2007 and is attached as Appendix D. The Phase II included the collection of 13 soil samples from 12 soil borings and the collection of three grab water samples from temporary monitoring wells. Soil samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), Resource Conservation and Recovery Act (RCRA) 8 Metals, TCLP metals, total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), organic carbon and pH. Groundwater samples were analyzed for VOCs, SVOCs, PCBs and RCRA 8 metals.

The findings of the Phase II indicated that SVOCs and Metals were detected in soil at concentrations in excess of the Part 375 Restricted Commercial SCOs. Two soil samples that contained the highest detection for lead (2,000 and 2,900 parts per million at B-4 and B-9, respectively) were also analyzed for TCLP lead and were non-hazardous.

No VOCs were detected in excess of the Part 375 Restricted Commercial SCOs in any of the 13 soil samples, although multiple chlorinated solvents (e.g., trichloroethene (TCE), chloroform, carbon tetrachloride, cis-1,2 dichloroethene) and benzene were detected in excess of the Part 375 Unrestricted Use SCOs in samples B-2 (5-8 ft bls), B-5 (2-5 ft bls), B-9 (5-7 ft bls).

PCBs were not detected in soil.

Groundwater grab samples indicated no detections of VOCs, SVOCs, or PCBs in excess of the GQS. Metals were detected in excess of the GQS and were attributed to suspended solids due to high turbidity in the grab samples.

Soil vapor samples were not collected during the Phase II.

2.3 Site Inspection

Joshua Levine, P.E., performed site inspections during the RI on September 6 and September 9, 2011. The warehouse building slab appeared in excellent condition and no indications of cracking or potential sources of vapor intrusion were identified. No visual indications of contamination or surficial staining were observed on the Site.

2.4 Areas of Concern

Past usage of the property and likely presence of historic fill constitute the Areas of Concern (AOC) for this property. Phase 1 Report is presented in Appendix C and the Phase 2 is presented in Appendix D.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Joshua Levine, P.E.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations. Two drums of soil cuttings and one drum of purge-water generated as a result of the RI were disposed as non-hazardous waste at MXI Environmental Services' Abingdon, Virginia facility. The waste disposal manifest is attached as Appendix E.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

Devon/Staten Island LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 8 soil borings across the entire project Site, and collected 9 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 4 groundwater monitoring wells throughout the Site to establish groundwater flow and collected 5 groundwater samples for chemical analysis to evaluate groundwater quality; and
4. Installed 6 soil vapor probes around Site perimeter and collected 6 soil vapor samples and one indoor air sample for chemical analysis.

A summary table documenting the construction details for all soil borings, monitoring wells and soil vapor sampling points is included as Table 2.

4.1 Borings and Monitoring Wells

Drilling and Soil Logging

Soil borings were pre-cleared using vacuum assisted excavation (e.g., vactron) and hand tools to a depth of five ft bls and then were advanced by Geoprobe direct push equipment to a depth of 15 feet bls. Soil borings were continuously screened via photoionization detector (PID) and visual observation of lithology was used to prepare soil boring logs attached as Appendix F. Soil borings were installed approximately 10 feet below the water table and then backfilled and restored to pre-existing conditions. Inside the building, the existing concrete slab was cored with a six-inch diameter concrete corer and/or jack hammer to minimize disturbance and concrete restoration of the slab.

Boring logs were prepared by an environmental engineer are attached in Appendix F. A map showing the location of soil borings and monitor wells is shown in Figure 2.

Groundwater Monitoring Well Construction

Combined soil boring/monitoring well locations were installed to a depth of 15 ft bls with 10 ft length of prepack 20-slot monitoring well screen set straddling the water table. Generally the well screen was set from 2 to 12 ft bls with the water table encountered at 3 to 5 ft bls. The two-inch diameter pre-packed monitoring wells were installed via Geoprobe and were restored with an eight-inch diameter flush mount access manhole set in the existing asphalt parking lot or concrete. Groundwater samples were analyzed for Target Compound List (TCL) VOCs, TCL SVOCs and Target Analyte List (TAL) metals. Monitor well locations are shown in Figure 2.

Survey

The monitoring well measuring point elevations were surveyed by Roux Associates via rod and level on September 9, 2011. Known ground surface and concrete slab finished floor slab elevations from the Development Site Plan drawing SP-1 (Appendix A) were used for reference to determine the corresponding measuring point elevations for the monitoring wells.

Water Level Measurement

Groundwater gauging was conducted via oil/water interface probe on September 9, 2011. Water level data is included in Table 3.

4.2 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Nine soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, are reported in

Tables 1 and 4. Figure 2 and Plate 1 show the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Shallow soils were already removed from a substantial percentage of the property during the development of the self storage complex. Sampling of soil/historic fill in this second phase of the RI program was biased to identify highest existing soil concentrations. One soil sample was collected per soil boring from the two-foot sample depth interval exhibiting the greatest contamination via visual and olfactory observation and field screening via PID. If no contamination was identified via field screening, a soil sample was collected from the sample interval directly above the water table. All soil samples were analyzed for TCL VOCs, TCL SVOCs, TAL metals, TCL polychlorinated biphenyls (PCBs) and TCL pesticides. All samples were collected using dedicated sampling equipment that was disposed following collection to avoid cross-contamination.

One duplicate soil sample was collected and one field blank and trip blank were collected for analysis by the laboratory. All samples were labeled bottled, stored on ice, picked up by a courier under standard chain of custody procedures and brought directly to Accutest Laboratory of Dayton, New Jersey for analysis.

Groundwater Sampling

Five groundwater samples were collected for chemical analysis during this RI. Groundwater sample collection data is reported in Tables 10 -12. Sampling logs with information on purging and sampling of groundwater monitor wells is included in Appendix G. Figure 2 and Plate 3 show the location of groundwater sampling. Laboratories and analytical methods are shown below.

Groundwater samples were collected using low-flow sampling techniques and were monitored continuously via Horiba U-22 until parameters stabilized. Dedicated disposable tubing was used to prevent cross-contamination of samples. In addition, groundwater samples were field filtered using 0.45 micron disposable field filters to obtain groundwater samples for dissolved metals analysis. Groundwater sampling logs are provided in Appendix G. One groundwater sample from MW-4 was collected manually with a dedicated bailer because the low flow pump battery failed during the purge process.

All groundwater samples were analyzed for TCL VOCs, TCL SVOCs, TAL dissolved, and total metals. All samples were collected using dedicated sampling equipment that was disposed following collection to avoid cross-contamination. One duplicate, field blank and trip blank sample was collected and analyzed by Accutest Laboratories.

Soil Vapor Sampling

Six soil vapor probes were installed and six soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 2. Soil vapor sample collection data is reported in Table 13 and presented on Plate 4. Soil vapor sampling logs are included in Appendix H. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

Soil vapor sample locations were installed to a depth of 18-inches below the top of slab elevation inside common areas of the building (hallways, office space) and were finished with 5-inch diameter flush mount access manholes. The soil vapor sample locations consisted of 6-inch stainless steel screens connected to masterflex tubing that was terminated and capped inside the flush mount access manhole to prevent soil vapor intrusion. The annulus around the well screen and tubing was filled with #2 sand and a bentonite well seal was installed to prevent soil vapor intrusion into the building. The flushmount manhole was set in concrete above the bentonite well seal.

Soil vapor sampling points were field tested using helium and multi-gas meter prior to sampling in accordance with NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006 protocol. Soil vapor and indoor air samples were collected over a 2-hour duration and were analyzed for TO-15 list VOCs via TestAmerica Laboratories of Burlington, Vermont.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Elizabeth Livingstone
Chemical Analytical	Chemical analytical laboratory(s) used in the RI are NYS ELAP

Factor	Description
Laboratory	certified and were Accutest Laboratories of Dayton, New Jersey (soil and groundwater) and TestAmerica Laboratories of Burlington, Vermont (Soil vapor and indoor air)
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 5-13, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix I.

5.0 ENVIRONMENTAL EVALUATION

The following sections provide a description of the findings of the RI.

5.1 Geological and Hydrogeological Conditions

Stratigraphy

The shallow surficial Site geology is characterized by an approximately 10 ft thick fill layer consisting of red to dark brown fine to coarse sand with gravel. This shallow fill layer was underlain by an organic dark brown to black silty clay layer of undetermined thickness. The silty clay layer was evident at approximately 10 to 12 ft bls on all borings except for B-14 and B-16 in the southern area of the Site which contained the fill layer down to the bottom of the boring. Since all of the borings terminated at approximately 15 ft bls, the bottom of the silty clay layer and the underlying bedrock were not identified in the RI. Based on correspondence with the subcontracted driller, Aquifer Drilling and Testing Inc. of New Hyde Park, NY, the estimated depth to bedrock is 40 ft in this area of Staten Island.

Hydrogeology

A table of water level data for all monitor wells is included in Table 3. The average depth to groundwater is 4.30 and the range in depth is 3.07 to 4.87. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in Figure 4. Groundwater flow is from southwest to northeast.

The close proximity of the Site to the Newark Bay (approximately 100 ft to east) causes tidal influence on the groundwater levels. Groundwater gauging results are indicative of a snapshot from 5:18 pm to 5:45 pm on September 9, 2011. Gauging performed four to five hours earlier in the day resulted in depth to water readings that were 0.86 ft (MW-4) and 0.25 ft (MW-1) different than the readings shown in Table 3.

5.2 Soil Chemistry

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. Summary tables containing data for chemical analyses performed on soil samples are included in Tables 5- 9. Plate 2 shows the location and posts the

values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Restricted Commercial Soil Cleanup Objectives (SCOs).

Soil/fill samples collected during the RI showed no VOCs that exceeded Track 2 Commercial SCOs in any of approximately 23 samples. Several samples (generally 2 samples or less) were observed with VOC detections above Track 1 Unrestricted SCOs for benzene, carbon tetrachloride, cis-1,2 dicloroethene, acetone and trichloroethene. These detections were all well below Track 2 Commercial SCOs. Other VOCs including some BTEX and associated compounds were detected at low and trace levels and well below Track 1 Unrestricted SCOs. A variety of SVOCs were identified above Track 1 and Track 2 Commercial SCOs. All of these exceedences were PAH compounds. Three metals, barium, copper and lead, exceeded Track 2 Commercial SCOs in soil samples collected at the site. However, soil samples did not exceed TCLP limits for lead. Several metals exceeded Track 1 Unrestricted SCOs but were below Track 2 Commercial SCOs including selenium, zinc, cadmium, arsenic and mercury. In most of these cases Track 1 SCOs were exceeded in only one or two samples. No PCBs or pesticides were exceeded Track 2 Commercial SCOs. PCBs were detected in one sample slightly above the Track 1 Unrestricted SCO. One pesticide, 4,4-DDT was detected in one sample above Track 1 SCOs.

SVOC and metals findings on this property are consistent with findings for historical fill material on many other properties in the metropolitan area and, with groundwater data collected during this investigation, do not suggest a contaminant source area on this property.

5.3 Groundwater Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. Summary tables containing data for chemical analyses performed on groundwater samples are included in Tables 10-12. Exceedences of applicable groundwater standards are shown.

Plate 3 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS).

Groundwater samples collected during the RI showed no VOCs were detected in groundwater above GQS. Several VOCs were detected in groundwater at trace or low levels but

below GQS. TCE and PCE were not detected in groundwater samples collected in 2011. TCE was found at trace concentrations (1 ug/l) in one sample below GQS in 2007. No PCBs or pesticides were detected in groundwater. No SVOCs were detected in groundwater in 2007 sampling. Several SVOCs were detected at low concentrations in one sample in 2011 sampling. All of the compounds were high molecular weight PAH compounds and are likely related to historic fill, and may be related to entrained particulates from fill material. Dissolved metals showed no exceedence of GQS with the exception of sodium and manganese.

Groundwater quality is generally compliant with GQS and does not suggest the presence of an onsite contaminant source area. Low levels of VOC compounds in soil are not observed in corresponding groundwater samples. Groundwater is not a source for VOCs in soil vapor. High sodium suggests the influence of saline intrusion.

5.4 Soil Vapor Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 13.

Plate 4 shows the location and posts the values for soil vapor samples and indoor air with detected concentrations.

Soil vapor samples collected during the RI showed PCE in most vapor samples at concentrations ranging as high as 160 ug/m3. TCE was also identified in most samples collected and ranged as high as 2100 ug/m3. Chloroform, acetone and carbon tetrachloride also exceeded 1000 ug/m3 in at least one soil vapor sample. These findings generally correlate with VOCs identified in onsite soil samples that exceed Track 1 SCOs and suggest an onsite origin for these vapors. Most of the site is covered with pavement or concrete building slab and buildup of vapor in the vadose zone below the site is expected. Soil vapor samples collected during the RI showed a variety of low level findings for BTEX and associated petroleum compounds but generally below 50 ug/m3. The indoor air sample did contain detections of these and other petroleum

related compounds not present in sub-slab soil vapor which could be attributed to vehicular traffic inside the building from the drive through access road.

Based on the results of the soil vapor and indoor air sampling conducted during the RI, sub-slab soil vapor is impacted by chlorinated solvent compounds, but these compounds were not detected in the indoor air sample (AMB-090911) collected in the building's office. The compounds TCE and carbon tetrachloride were detected in sub-slab soil vapor at SV-2 and TCE was detected in sample SV-5 at concentrations requiring mitigation according to the NYSDOH Final Vapor Intrusion Guidance- Matrix 1. In addition, carbon tetrachloride, TCE and tetrachloroethene (PCE) were detected at concentrations requiring future monitoring at sub-slab soil vapor samples SV-1 (TCE), SV-5 (carbon tetrachloride and PCE), and SV-6 (PCE).

These chlorinated solvents were not detected in indoor air sample AMB-090911 indicating that there is currently no soil vapor intrusion into the building at the indoor air sample location. However, the findings for soil vapor under the building support the need for vapor mitigation in the remedial action for this property.

5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

Table 1. Sample Summary Table, Devon Self Storage Facility, Staten Island, New York

Sample ID	Depth interval	Media	TCL VOCS	TCL SVOCS	TAL Metals		PCBs	Pesticides	TO-15 VOCS
B-14/MW-2	7'-8'	Soil	X	X	X		X	X	
B-15	7'-9'	Soil	X	X	X		X	X	
B-16/MW-1	5'-7'	Soil	X	X	X		X	X	
B-17/MW-3	4'-5'	Soil	X	X	X		X	X	
B-18	7'-9'	Soil	X	X	X		X	X	
B-19	7'-8'	Soil	X	X	X		X	X	
B-20/MW-4	5'-7'	Soil	X	X	X		X	X	
DUP (B-20/MW-4)	5'-7'	Soil	X	X	X		X	X	
B-21	12'-14'	Soil	X	X	X		X	X	
					Total Metals	**Dissolved Metals**			
MW-1	--	Groundwater	X	X	X	X			
MW-2	--	Groundwater	X	X	X	X			
MW-3	--	Groundwater	X	X	X	X			
MW-4	--	Groundwater	X	X	X	X			
DUP (MW-4)	--	Groundwater	X	X	X	X			
Field Blank (FB-090811)	--	Water	X	X	X		X	X	
Trip Blank 9/8/2011	--	Water	X						
Field Blank (FB-090911)	--	Water		X	X				
Trip Blank 9/9/2011	--	Water	X						
SV-1	--	Soil Gas							X
SV-2	--	Soil Gas							X
SV-3	--	Soil Gas							X
SV-4	--	Soil Gas							X
SV-5	--	Soil Gas							X
SV-6	--	Soil Gas							X
AMB-090911	--	Ambient Air							X

Table 2. Construction Details for Soil Vapor Points, Soil Borings and Monitoring Wells
Devon Self Storage Facility, Staten Island, New York

Identification Number	Date of Construction	Total Depth (feet)	Diameter	Screened Interval (ft bls)	Construction Material
Soil Vapor Points					
SV-1	9/7/2011	1.7	--	1.2 - 1.7	3/4" Poly Tubing
SV-2	9/6/2011	1.7	--	1.2 - 1.7	3/4" Poly Tubing
SV-3	9/7/2011	1.7	--	1.2 - 1.7	3/4" Poly Tubing
SV-4	9/6/2011	1.7	--	1.2 - 1.7	3/4" Poly Tubing
SV-5	9/7/2011	1.7	--	1.2 - 1.7	3/4" Poly Tubing
SV-6	9/7/2011	1.7	--	1.2 - 1.7	3/4" Poly Tubing
Soil Borings					
B-12	9/8/2011	15	--	--	--
B-15	9/8/2011	15	--	--	--
B-16	9/8/2011	15	--	--	--
B-17	9/8/2011	15	--	--	--
B-18	9/9/2011	15	--	--	--
B-19	9/9/2011	15	--	--	--
B-20	9/8/2011	15	--	--	--
B-21	9/9/2011	15	--	--	--
Monitoring Wells					
MW-1	9/8/2011	12	2 inch	2-12	PVC
MW-2	9/8/2011	12	2 inch	2-12	PVC
MW-3	9/8/2011	12	2 inch	2-12	PVC
MW-4	9/8/2011	12	2 inch	2-12	PVC

Table 3. Summary of Groundwater Gauging Data, September 9, 2011, Devon Self Storage Facility, Staten Island, New York

Monitoring Well ID	Date	Time of day	Measuring Point Elevation (feet above mean sea level)	Depth to Bottom (ft bls)	Depth to Water (ft bls)	Water Elevation (ft bls)
MW-1	9/9/2011	17:30	5.30	11.41	4.72	0.58
MW-2	9/9/2011	17:25	5.90	11.12	3.07	2.83
MW-3	9/9/2011	17:18	3.91	11.67	4.87	-0.96
MW-4	9/9/2011	17:45	4.21	11.05	4.54	-0.33

Table 4. Analytical Methods Summary Table, Devon Self Storage Facility, Staten Island, New York

Matrix	Number of Samples	Analytical Parameters Measured	Analytical Methods	Number of Duplicate Samples	Number of QA/QC Samples
Soil	8	TCL VOCs	SW846 8260B	1	2
		TCL SVOCs	SW846 8270D		
		TCL PCBs	SW846 8082A		
		TCL Pesticides	SW846 8081B		
		TAL metals	SW846 6010C SW846 7471B (Hg)		
Groundwater	4	TCL VOCs	SW846 8260B	1	2
		TCL SVOCs	SW846 8270D		
		TAL metals	SW846 6010C SW846 7471B (Hg)		
Soil Vapor	6	VOCs	TO-15	0	0
Indoor Air	1	VOCs	TO-15	0	0

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-1	B-2	B-2	B-3	B-4
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
			Sample Depth (ft bls):	6-9	2-4	5-8	6-9	2-5
1,1,1,2-Tetrachloroethane	--	--		ND	NA	ND	ND	ND
1,1,1-Trichloroethane	680	500000		ND	NA	ND	ND	ND
1,1,2,2-Tetrachloroethane	--	--		ND	NA	ND	ND	ND
1,1,2-Trichloroethane	--	--		ND	NA	ND	ND	ND
1,1-Dichloroethane	270	240000		ND	NA	ND	ND	ND
1,1-Dichloroethene	330	500000		ND	NA	ND	ND	ND
1,1-Dichloropropene	--	--		ND	NA	ND	ND	ND
1,2,3-Trichlorobenzene	--	--		ND	NA	ND	ND	ND
1,2,3-Trichloropropane	--	--		ND	NA	ND	ND	ND
1,2,3-Trimethylbenzene	--	--		ND	NA	ND	ND	ND
1,2,4-Trichlorobenzene	--	--		ND	NA	ND	ND	ND
1,2,4-Trimethylbenzene	3600	190000		ND	NA	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	--		ND	NA	ND	ND	ND
1,2-Dibromoethane	--	--		ND	NA	ND	ND	ND
1,2-Dichlorobenzene	1100	500000		ND	NA	ND	ND	ND
1,2-Dichloroethane	20	30000		ND	NA	ND	ND	ND
1,2-Dichloropropane	--	--		ND	NA	ND	ND	ND
1,3,5-Trimethylbenzene	8400	190000		ND	NA	ND	ND	ND
1,3-Dichlorobenzene	2400	280000		ND	NA	ND	ND	ND
1,3-Dichloropropane	--	--		ND	NA	ND	ND	ND
1,4-Dichlorobenzene	1800	130000		ND	NA	ND	ND	ND
1,4-Dioxane	100	130000		NA	NA	NA	NA	NA
2,2-Dichloropropane	--	--		ND	NA	ND	ND	ND
2-Butanone (MEK)	120	500000		ND	NA	ND	ND	ND
2-Chloroethylvinylether	--	--		ND	NA	ND	ND	ND
2-Chlorotoluene	--	--		ND	NA	ND	ND	ND
2-Hexanone	--	--		NA	NA	NA	NA	NA
4-Chlorotoluene	--	--		ND	NA	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	--	--		ND	NA	ND	ND	ND
Acetone	50	500000		ND	NA	ND	ND	ND
Acrylonitrile	--	--		ND	NA	ND	ND	ND
Benzene	60	44000		ND	NA	ND	14	ND
Bromobenzene	--	--		ND	NA	ND	ND	ND

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-1	B-2	B-2	B-3	B-4
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
			Sample Depth (ft bls):	6-9	2-4	5-8	6-9	2-5
Bromochloromethane	--	--		NA	NA	NA	NA	NA
Bromodichloromethane	--	--		ND	NA	140	ND	ND
Bromoform	--	--		ND	NA	ND	ND	ND
Bromomethane	--	--		ND	NA	ND	ND	ND
Carbon disulfide	--	--		NA	NA	NA	NA	NA
Carbon tetrachloride	760	22000		ND	NA	**2900**	ND	1.5
Chlorobenzene	1100	500000		ND	NA	ND	ND	ND
Chlorodibromomethane	--	--		ND	NA	ND	ND	ND
Chloroethane	--	--		ND	NA	ND	ND	ND
Chloroform	370	350000		ND	NA	**890**	ND	ND
Chloromethane	--	--		ND	NA	ND	ND	ND
cis-1,2-Dichloroethene	250	500000		ND	NA	**320**	ND	ND
cis-1,3-Dichloropropene	--	--		ND	NA	ND	ND	ND
Cyclohexane	--	--		NA	NA	NA	NA	NA
Dibromochloromethane	--	--		NA	NA	NA	NA	NA
Dibromochloropropane	--	--		NA	NA	NA	NA	NA
Dibromomethane	--	--		ND	NA	ND	ND	ND
Dichlorodifluoromethane	--	--		ND	NA	ND	ND	ND
Di-isopropyl ether	--	--		ND	NA	ND	ND	ND
Ethylbenzene	1000	390000		ND	NA	ND	ND	ND
Freon 113	--	--		ND	NA	ND	ND	ND
Hexachlorobutadiene	--	--		ND	NA	2300	ND	ND
Isopropylbenzene	--	--		ND	NA	ND	ND	ND
m+p-Xylene	--	--		NA	NA	NA	NA	NA
Methyl acetate	--	--		NA	NA	NA	NA	NA
Methylcyclohexane	--	--		NA	NA	NA	NA	NA
Methylene chloride	50	500000		ND	NA	ND	ND	ND
MTBE	930	500000		ND	NA	ND	ND	ND
Naphthalene	--	--		ND	NA	ND	21	ND
n-Butylbenzene	--	--		ND	NA	ND	ND	ND
n-Propylbenzene	3900	500000		ND	NA	ND	ND	ND
o-Xylene	--	--		NA	NA	NA	NA	NA
p-Isopropyltoluene	--	--		ND	NA	200	ND	ND

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-1	B-2	B-2	B-3	B-4
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
			Sample Depth (ft bls):	6-9	2-4	5-8	6-9	2-5
sec-Butylbenzene	11000	500000		ND	NA	ND	ND	ND
Styrene	--	--		ND	NA	ND	ND	ND
tert-Butylbenzene	5900	500000		ND	NA	ND	ND	ND
Tetrachloroethene	1300	150000		ND	NA	ND	ND	ND
Toluene	700	500000		ND	NA	ND	11	ND
trans-1,2-Dichloroethene	190	500000		ND	NA	ND	ND	ND
trans-1,3-Dichloropropene	--	--		ND	NA	ND	ND	ND
Trichloroethene	470	200000		ND	NA	**3800**	ND	1.3
Trichlorofluoromethane	--	--		ND	NA	ND	ND	ND
Vinyl chloride	20	13000		ND	NA	ND	ND	ND
Xylenes (total)	260	500000		ND	NA	ND	5.8	ND

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-5	B-6	B-7	B-8	B-9
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/19/07
			Sample Depth (ft bls):	2-5	6-9	2-5	6-9	5-7
1,1,1,2-Tetrachloroethane	--	--		ND	ND	ND	ND	ND
1,1,1-Trichloroethane	680	500000		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	--	--		ND	ND	ND	ND	ND
1,1,2-Trichloroethane	--	--		ND	ND	ND	ND	ND
1,1-Dichloroethane	270	240000		ND	ND	ND	ND	ND
1,1-Dichloroethene	330	500000		ND	ND	ND	ND	ND
1,1-Dichloropropene	--	--		ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	--	--		ND	ND	ND	ND	ND
1,2,3-Trichloropropane	--	--		ND	ND	ND	ND	ND
1,2,3-Trimethylbenzene	--	--		ND	ND	ND	ND	2
1,2,4-Trichlorobenzene	--	--		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3600	190000		ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	--		ND	ND	ND	ND	ND
1,2-Dibromoethane	--	--		ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1100	500000		ND	ND	ND	ND	ND
1,2-Dichloroethane	20	30000		ND	ND	ND	ND	ND
1,2-Dichloropropane	--	--		ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8400	190000		ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2400	280000		ND	ND	ND	ND	ND
1,3-Dichloropropane	--	--		ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1800	130000		ND	ND	ND	ND	ND
1,4-Dioxane	100	130000		NA	NA	NA	NA	NA
2,2-Dichloropropane	--	--		ND	ND	ND	ND	ND
2-Butanone (MEK)	120	500000		ND	ND	ND	ND	ND
2-Chloroethylvinylether	--	--		ND	ND	ND	ND	ND
2-Chlorotoluene	--	--		ND	ND	ND	ND	ND
2-Hexanone	--	--		NA	NA	NA	NA	NA
4-Chlorotoluene	--	--		ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	--	--		ND	ND	ND	ND	ND
Acetone	50	500000		ND	ND	ND	ND	ND
Acrylonitrile	--	--		ND	ND	ND	ND	ND
Benzene	60	44000		70	ND	ND	ND	**160**
Bromobenzene	--	--		ND	ND	ND	ND	ND

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-5	B-6	B-7	B-8	B-9
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/19/07
			Sample Depth (ft bls):	2-5	6-9	2-5	6-9	5-7
Bromochloromethane	--	--		NA	NA	NA	NA	NA
Bromodichloromethane	--	--		ND	ND	ND	ND	ND
Bromoform	--	--		ND	ND	ND	ND	ND
Bromomethane	--	--		ND	ND	ND	ND	ND
Carbon disulfide	--	--		NA	NA	NA	NA	NA
Carbon tetrachloride	760	22000		ND	ND	ND	ND	ND
Chlorobenzene	1100	500000		ND	ND	ND	ND	ND
Chlorodibromomethane	--	--		ND	ND	ND	ND	ND
Chloroethane	--	--		ND	ND	ND	ND	ND
Chloroform	370	350000		ND	ND	ND	ND	ND
Chloromethane	--	--		1.4	ND	ND	ND	ND
cis-1,2-Dichloroethene	250	500000		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	--	--		ND	ND	ND	ND	ND
Cyclohexane	--	--		NA	NA	NA	NA	NA
Dibromochloromethane	--	--		NA	NA	NA	NA	NA
Dibromochloropropane	--	--		NA	NA	NA	NA	NA
Dibromomethane	--	--		ND	ND	ND	ND	ND
Dichlorodifluoromethane	--	--		ND	ND	ND	ND	ND
Di-isopropyl ether	--	--		ND	ND	ND	ND	ND
Ethylbenzene	1000	390000		ND	ND	ND	ND	ND
Freon 113	--	--		ND	ND	ND	ND	ND
Hexachlorobutadiene	--	--		ND	ND	ND	ND	ND
Isopropylbenzene	--	--		ND	ND	ND	ND	ND
m+p-Xylene	--	--		NA	NA	NA	NA	NA
Methyl acetate	--	--		NA	NA	NA	NA	NA
Methylcyclohexane	--	--		NA	NA	NA	NA	NA
Methylene chloride	50	500000		ND	ND	ND	ND	ND
MTBE	930	500000		ND	ND	ND	ND	ND
Naphthalene	--	--		32	ND	ND	ND	ND
n-Butylbenzene	--	--		ND	ND	ND	ND	ND
n-Propylbenzene	3900	500000		ND	ND	ND	ND	ND
o-Xylene	--	--		NA	NA	NA	NA	NA
p-Isopropyltoluene	--	--		ND	ND	ND	ND	ND

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-5	B-6	B-7	B-8	B-9
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/19/07
			Sample Depth (ft bls):	2-5	6-9	2-5	6-9	5-7
sec-Butylbenzene	11000	500000		ND	ND	ND	ND	ND
Styrene	--	--		ND	ND	ND	ND	ND
tert-Butylbenzene	5900	500000		ND	ND	ND	ND	ND
Tetrachloroethene	1300	150000		1.4	ND	ND	ND	ND
Toluene	700	500000		30	ND	ND	ND	62
trans-1,2-Dichloroethene	190	500000		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	--	--		ND	ND	ND	ND	ND
Trichloroethene	470	200000		ND	ND	ND	ND	ND
Trichlorofluoromethane	--	--		ND	ND	ND	ND	ND
Vinyl chloride	20	13000		ND	ND	ND	ND	ND
Xylenes (total)	260	500000		4.2	ND	ND	ND	12

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-10	B-10	B-11	B-13	B-14/MW-2
			Sample Date:	04/19/07	04/19/07	04/19/07	04/19/07	9/8/2011
			Sample Depth (ft bls):	3-8	9-10	6-8	2-4	7-8
1,1,1,2-Tetrachloroethane	--	--		ND	NA	ND	ND	NA
1,1,1-Trichloroethane	680	500000		ND	NA	ND	ND	6.7 U
1,1,2,2-Tetrachloroethane	--	--		ND	NA	ND	ND	6.7 U
1,1,2-Trichloroethane	--	--		ND	NA	ND	ND	6.7 U
1,1-Dichloroethane	270	240000		ND	NA	ND	ND	6.7 U
1,1-Dichloroethene	330	500000		ND	NA	ND	ND	6.7 U
1,1-Dichloropropene	--	--		ND	NA	ND	ND	NA
1,2,3-Trichlorobenzene	--	--		ND	NA	ND	ND	6.7 U
1,2,3-Trichloropropane	--	--		ND	NA	ND	ND	NA
1,2,3-Trimethylbenzene	--	--		ND	NA	ND	ND	NA
1,2,4-Trichlorobenzene	--	--		ND	NA	ND	ND	6.7 U
1,2,4-Trimethylbenzene	3600	190000		ND	NA	ND	ND	NA
1,2-Dibromo-3-chloropropane	--	--		ND	NA	ND	ND	NA
1,2-Dibromoethane	--	--		ND	NA	ND	ND	1.3 U
1,2-Dichlorobenzene	1100	500000		ND	NA	ND	ND	6.7 U
1,2-Dichloroethane	20	30000		ND	NA	ND	ND	1.3 U
1,2-Dichloropropane	--	--		ND	NA	ND	ND	6.7 U
1,3,5-Trimethylbenzene	8400	190000		ND	NA	ND	ND	NA
1,3-Dichlorobenzene	2400	280000		ND	NA	ND	ND	6.7 U
1,3-Dichloropropane	--	--		ND	NA	ND	ND	NA
1,4-Dichlorobenzene	1800	130000		ND	NA	ND	ND	6.7 U
1,4-Dioxane	100	130000		NA	NA	NA	NA	170 U
2,2-Dichloropropane	--	--		ND	NA	ND	ND	NA
2-Butanone (MEK)	120	500000		ND	NA	ND	ND	13 U
2-Chloroethylvinylether	--	--		ND	NA	ND	ND	NA
2-Chlorotoluene	--	--		ND	NA	ND	ND	NA
2-Hexanone	--	--		NA	NA	NA	NA	6.7 U
4-Chlorotoluene	--	--		ND	NA	ND	ND	NA
4-Methyl-2-pentanone (MIBK)	--	--		ND	NA	ND	ND	6.7 U
Acetone	50	500000		ND	NA	ND	ND	20.3
Acrylonitrile	--	--		ND	NA	ND	ND	NA
Benzene	60	44000		5.2	NA	1.8	ND	1.3 U
Bromobenzene	--	--		ND	NA	ND	ND	NA

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-10	B-10	B-11	B-13	B-14/MW-2
			Sample Date:	04/19/07	04/19/07	04/19/07	04/19/07	9/8/2011
			Sample Depth (ft bls):	3-8	9-10	6-8	2-4	7-8
Bromochloromethane	--	--		NA	NA	NA	NA	6.7 U
Bromodichloromethane	--	--		ND	NA	ND	ND	6.7 U
Bromoform	--	--		ND	NA	ND	ND	6.7 U
Bromomethane	--	--		ND	NA	ND	ND	6.7 U
Carbon disulfide	--	--		NA	NA	NA	NA	1.2 J
Carbon tetrachloride	760	22000		ND	NA	ND	ND	6.7 U
Chlorobenzene	1100	500000		ND	NA	ND	ND	6.7 U
Chlorodibromomethane	--	--		ND	NA	ND	ND	NA
Chloroethane	--	--		ND	NA	ND	ND	6.7 U
Chloroform	370	350000		ND	NA	ND	ND	6.7 U
Chloromethane	--	--		ND	NA	ND	2.5	6.7 U
cis-1,2-Dichloroethene	250	500000		ND	NA	ND	ND	6.7 U
cis-1,3-Dichloropropene	--	--		ND	NA	ND	ND	6.7 U
Cyclohexane	--	--		NA	NA	NA	NA	6.7 U
Dibromochloromethane	--	--		NA	NA	NA	NA	6.7 U
Dibromochloropropane	--	--		NA	NA	NA	NA	13 U
Dibromomethane	--	--		ND	NA	ND	ND	NA
Dichlorodifluoromethane	--	--		ND	NA	ND	ND	6.7 U
Di-isopropyl ether	--	--		ND	NA	ND	ND	NA
Ethylbenzene	1000	390000		ND	NA	ND	ND	0.35 J
Freon 113	--	--		ND	NA	ND	ND	6.7 U
Hexachlorobutadiene	--	--		ND	NA	ND	ND	NA
Isopropylbenzene	--	--		ND	NA	ND	ND	6.7 U
m+p-Xylene	--	--		NA	NA	NA	NA	1.3
Methyl acetate	--	--		NA	NA	NA	NA	6.7 U
Methylcyclohexane	--	--		NA	NA	NA	NA	6.7 U
Methylene chloride	50	500000		ND	NA	ND	ND	6.7 U
MTBE	930	500000		ND	NA	3.1	ND	1.3 U
Naphthalene	--	--		ND	NA	ND	ND	NA
n-Butylbenzene	--	--		ND	NA	ND	ND	NA
n-Propylbenzene	3900	500000		ND	NA	ND	ND	NA
o-Xylene	--	--		NA	NA	NA	NA	0.55 J
p-Isopropyltoluene	--	--		ND	NA	ND	ND	NA

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-10	B-10	B-11	B-13	B-14/MW-2
			Sample Date:	04/19/07	04/19/07	04/19/07	04/19/07	9/8/2011
			Sample Depth (ft bls):	3-8	9-10	6-8	2-4	7-8
sec-Butylbenzene	11000	500000		ND	NA	ND	ND	NA
Styrene	--	--		ND	NA	ND	ND	6.7 U
tert-Butylbenzene	5900	500000		ND	NA	ND	ND	NA
Tetrachloroethene	1300	150000		ND	NA	ND	ND	6.7 U
Toluene	700	500000		ND	NA	ND	ND	1.3 U
trans-1,2-Dichloroethene	190	500000		ND	NA	ND	ND	6.7 U
trans-1,3-Dichloropropene	--	--		ND	NA	ND	ND	6.7 U
Trichloroethene	470	200000		ND	NA	3.2	ND	6.7 U
Trichlorofluoromethane	--	--		ND	NA	ND	ND	6.7 U
Vinyl chloride	20	13000		ND	NA	ND	ND	6.7 U
Xylenes (total)	260	500000		ND	NA	ND	ND	1.9

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-15	B-16/MW-1	B-17/MW-3	B-18	B-19
			Sample Date:	9/8/2011	9/8/2011	9/8/2011	9/9/2011	9/9/2011
			Sample Depth (ft bls):	7-9	5-7	4-5	7-9	7-8
1,1,1,2-Tetrachloroethane	--	--		NA	NA	NA	NA	NA
1,1,1-Trichloroethane	680	500000		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
1,1,2,2-Tetrachloroethane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
1,1,2-Trichloroethane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
1,1-Dichloroethane	270	240000		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
1,1-Dichloroethene	330	500000		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
1,1-Dichloropropene	--	--		NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
1,2,3-Trichloropropane	--	--		NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	--	--		NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
1,2,4-Trimethylbenzene	3600	190000		NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	--	--		NA	NA	NA	NA	NA
1,2-Dibromoethane	--	--		1.1 U	1.2 U	1.1 U	1.2 U	1.2 U
1,2-Dichlorobenzene	1100	500000		5.5 U	6.2 U	5.6 U	5.9 U	2.8 J
1,2-Dichloroethane	20	30000		1.1 U	1.2 U	1.1 U	1.2 U	1.2 U
1,2-Dichloropropane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
1,3,5-Trimethylbenzene	8400	190000		NA	NA	NA	NA	NA
1,3-Dichlorobenzene	2400	280000		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
1,3-Dichloropropane	--	--		NA	NA	NA	NA	NA
1,4-Dichlorobenzene	1800	130000		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
1,4-Dioxane	100	130000		140 U	150 U	140 U	150 U	140 U
2,2-Dichloropropane	--	--		NA	NA	NA	NA	NA
2-Butanone (MEK)	120	500000		11 U	12 U	11 U	12 U	12 U
2-Chloroethylvinylether	--	--		NA	NA	NA	NA	NA
2-Chlorotoluene	--	--		NA	NA	NA	NA	NA
2-Hexanone	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
4-Chlorotoluene	--	--		NA	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Acetone	50	500000		11 U	12 U	11 U	30.3	38.4
Acrylonitrile	--	--		NA	NA	NA	NA	NA
Benzene	60	44000		0.96 J	0.5 J	1.1 U	1.4	1.4
Bromobenzene	--	--		NA	NA	NA	NA	NA

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-15	B-16/MW-1	B-17/MW-3	B-18	B-19
			Sample Date:	9/8/2011	9/8/2011	9/8/2011	9/9/2011	9/9/2011
			Sample Depth (ft bls):	7-9	5-7	4-5	7-9	7-8
Bromochloromethane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Bromodichloromethane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Bromoform	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Bromomethane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Carbon disulfide	--	--		5.4 J	6.2 U	5.6 U	5.4 J	4 J
Carbon tetrachloride	760	22000		5.5 U	0.57 J	5.6 U	0.99 J	5.8 U
Chlorobenzene	1100	500000		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Chlorodibromomethane	--	--		NA	NA	NA	NA	NA
Chloroethane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Chloroform	370	350000		2.6 J	1.9 J	5.6 U	2.3 J	5.8 U
Chloromethane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
cis-1,2-Dichloroethene	250	500000		5.5 U	6.2 U	5.6 U	0.41 J	5.8 U
cis-1,3-Dichloropropene	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Cyclohexane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Dibromochloromethane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Dibromochloropropane	--	--		11 U	12 U	11 U	12 U	12 U
Dibromomethane	--	--		NA	NA	NA	NA	NA
Dichlorodifluoromethane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Di-isopropyl ether	--	--		NA	NA	NA	NA	NA
Ethylbenzene	1000	390000		1.1 U	1.2 U	1.1 U	4.4	64.4
Freon 113	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Hexachlorobutadiene	--	--		NA	NA	NA	NA	NA
Isopropylbenzene	--	--		5.5 U	6.2 U	5.6 U	1.7 J	58.3
m+p-Xylene	--	--		1.1 U	1.2 U	1.1 U	17.3	25.9
Methyl acetate	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Methylcyclohexane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	1.2 J
Methylene chloride	50	500000		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
MTBE	930	500000		1.1 U	1.2 U	1.1 U	1.2 U	1.2 U
Naphthalene	--	--		NA	NA	NA	NA	NA
n-Butylbenzene	--	--		NA	NA	NA	NA	NA
n-Propylbenzene	3900	500000		NA	NA	NA	NA	NA
o-Xylene	--	--		1.1 U	1.2 U	1.1 U	13.2	24.2
p-Isopropyltoluene	--	--		NA	NA	NA	NA	NA

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-15	B-16/MW-1	B-17/MW-3	B-18	B-19
			Sample Date:	9/8/2011	9/8/2011	9/8/2011	9/9/2011	9/9/2011
			Sample Depth (ft bls):	7-9	5-7	4-5	7-9	7-8
sec-Butylbenzene	11000	500000		NA	NA	NA	NA	NA
Styrene	--	--		5.5 U	6.2 U	5.6 U	2.6 J	5.8 U
tert-Butylbenzene	5900	500000		NA	NA	NA	NA	NA
Tetrachloroethene	1300	150000		5.5 U	6.2 U	5.6 U	0.34 J	5.8 U
Toluene	700	500000		1.1 U	1.2 U	1.1 U	4.3	8.4
trans-1,2-Dichloroethene	190	500000		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
trans-1,3-Dichloropropene	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Trichloroethene	470	200000		2.8 J	0.83 J	0.57 J	9.9	0.7 J
Trichlorofluoromethane	--	--		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Vinyl chloride	20	13000		5.5 U	6.2 U	5.6 U	5.9 U	5.8 U
Xylenes (total)	260	500000		1.1 U	1.2 U	1.1 U	30.5	50.1

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-20/MW-4	B-20/MW-4DUP	B-21	FB090811
			Sample Date:	9/8/2011	9/8/2011	9/9/2011	9/8/2011
			Sample Depth (ft bls):	5-7	5-7	12-14	
1,1,1,2-Tetrachloroethane	--	--		NA	NA	NA	NA
1,1,1-Trichloroethane	680	500000		6.1 U	6 U	14 U	1 U
1,1,2,2-Tetrachloroethane	--	--		6.1 U	6 U	14 U	1 U
1,1,2-Trichloroethane	--	--		6.1 U	6 U	14 U	1 U
1,1-Dichloroethane	270	240000		6.1 U	6 U	14 U	1 U
1,1-Dichloroethene	330	500000		6.1 U	6 U	14 U	1 U
1,1-Dichloropropene	--	--		NA	NA	NA	NA
1,2,3-Trichlorobenzene	--	--		6.1 U	6 U	14 U	5 U
1,2,3-Trichloropropane	--	--		NA	NA	NA	NA
1,2,3-Trimethylbenzene	--	--		NA	NA	NA	NA
1,2,4-Trichlorobenzene	--	--		6.1 U	6 U	14 U	5 U
1,2,4-Trimethylbenzene	3600	190000		NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	--	--		NA	NA	NA	NA
1,2-Dibromoethane	--	--		1.2 U	1.2 U	2.8 U	2 U
1,2-Dichlorobenzene	1100	500000		6.1 U	6 U	14 U	1 U
1,2-Dichloroethane	20	30000		1.2 U	1.2 U	2.8 U	1 U
1,2-Dichloropropane	--	--		6.1 U	6 U	14 U	1 U
1,3,5-Trimethylbenzene	8400	190000		NA	NA	NA	NA
1,3-Dichlorobenzene	2400	280000		6.1 U	6 U	14 U	1 U
1,3-Dichloropropane	--	--		NA	NA	NA	NA
1,4-Dichlorobenzene	1800	130000		6.1 U	6 U	14 U	1 U
1,4-Dioxane	100	130000		150 U	150 U	350 U	130 U
2,2-Dichloropropane	--	--		NA	NA	NA	NA
2-Butanone (MEK)	120	500000		12 U	12 U	28 U	10 U
2-Chloroethylvinylether	--	--		NA	NA	NA	NA
2-Chlorotoluene	--	--		NA	NA	NA	NA
2-Hexanone	--	--		6.1 U	6 U	14 U	5 U
4-Chlorotoluene	--	--		NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	--	--		6.1 U	6 U	14 U	5 U
Acetone	50	500000		12 U	12 U	**54.8**	10 U
Acrylonitrile	--	--		NA	NA	NA	NA
Benzene	60	44000		0.57 J	0.28 J	2.2 J	1 U
Bromobenzene	--	--		NA	NA	NA	NA

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-20/MW-4	B-20/MW-4DUP	B-21	FB090811
			Sample Date:	9/8/2011	9/8/2011	9/9/2011	9/8/2011
			Sample Depth (ft bls):	5-7	5-7	12-14	
Bromochloromethane	--	--		6.1 U	6 U	14 U	5 U
Bromodichloromethane	--	--		6.1 U	6 U	14 U	1 U
Bromoform	--	--		6.1 U	6 U	14 U	4 U
Bromomethane	--	--		6.1 U	6 U	14 U	2 U
Carbon disulfide	--	--		6.1 U	6 U	8.7 J	2 U
Carbon tetrachloride	760	22000		6.1 U	6 U	14 U	1 U
Chlorobenzene	1100	500000		6.1 U	6 U	14 U	1 U
Chlorodibromomethane	--	--		NA	NA	NA	NA
Chloroethane	--	--		6.1 U	6 U	14 U	1 U
Chloroform	370	350000		6.1 U	6 U	14 U	1 U
Chloromethane	--	--		6.1 U	6 U	14 U	1 U
cis-1,2-Dichloroethene	250	500000		6.1 U	6 U	14 U	1 U
cis-1,3-Dichloropropene	--	--		6.1 U	6 U	14 U	1 U
Cyclohexane	--	--		6.1 U	6 U	14 U	5 U
Dibromochloromethane	--	--		6.1 U	6 U	14 U	1 U
Dibromochloropropane	--	--		12 U	12 U	28 U	10 U
Dibromomethane	--	--		NA	NA	NA	NA
Dichlorodifluoromethane	--	--		6.1 U	6 U	14 U	5 U
Di-isopropyl ether	--	--		NA	NA	NA	NA
Ethylbenzene	1000	390000		3.8	0.46 J	18.9	1 U
Freon 113	--	--		6.1 U	6 U	14 U	5 U
Hexachlorobutadiene	--	--		NA	NA	NA	NA
Isopropylbenzene	--	--		0.64 J	6 U	9.3 J	2 U
m+p-Xylene	--	--		13.8	1.6	15	1 U
Methyl acetate	--	--		6.1 U	6 U	14 U	5 U
Methylcyclohexane	--	--		6.1 U	6 U	14 U	5 U
Methylene chloride	50	500000		6.1 U	6 U	14 U	2 U
MTBE	930	500000		1.2 U	1.2 U	2.8 U	1 U
Naphthalene	--	--		NA	NA	NA	NA
n-Butylbenzene	--	--		NA	NA	NA	NA
n-Propylbenzene	3900	500000		NA	NA	NA	NA
o-Xylene	--	--		10	0.87 J	19	1 U
p-Isopropyltoluene	--	--		NA	NA	NA	NA

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-20/MW-4	B-20/MW-4DUP	B-21	FB090811
			Sample Date:	9/8/2011	9/8/2011	9/9/2011	9/8/2011
			Sample Depth (ft bls):	5-7	5-7	12-14	
sec-Butylbenzene	11000	500000		NA	NA	NA	NA
Styrene	--	--		6.1 U	0.45 J	14 U	5 U
tert-Butylbenzene	5900	500000		NA	NA	NA	NA
Tetrachloroethene	1300	150000		6.1 U	0.38 J	14 U	1 U
Toluene	700	500000		3.3	0.6 J	2.8 U	1 U
trans-1,2-Dichloroethene	190	500000		6.1 U	6 U	14 U	1 U
trans-1,3-Dichloropropene	--	--		6.1 U	6 U	14 U	1 U
Trichloroethene	470	200000		0.36 J	6 U	14 U	1 U
Trichlorofluoromethane	--	--		6.1 U	6 U	14 U	5 U
Vinyl chloride	20	13000		6.1 U	6 U	14 U	1 U
Xylenes (total)	260	500000		23.9	2.4	34	1 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	TRIP BLANK 9/8/2011
1,1,1,2-Tetrachloroethane	--	--		NA
1,1,1-Trichloroethane	680	500000		1 U
1,1,2,2-Tetrachloroethane	--	--		1 U
1,1,2-Trichloroethane	--	--		1 U
1,1-Dichloroethane	270	240000		1 U
1,1-Dichloroethene	330	500000		1 U
1,1-Dichloropropene	--	--		NA
1,2,3-Trichlorobenzene	--	--		5 U
1,2,3-Trichloropropane	--	--		NA
1,2,3-Trimethylbenzene	--	--		NA
1,2,4-Trichlorobenzene	--	--		5 U
1,2,4-Trimethylbenzene	3600	190000		NA
1,2-Dibromo-3-chloropropane	--	--		NA
1,2-Dibromoethane	--	--		2 U
1,2-Dichlorobenzene	1100	500000		1 U
1,2-Dichloroethane	20	30000		1 U
1,2-Dichloropropane	--	--		1 U
1,3,5-Trimethylbenzene	8400	190000		NA
1,3-Dichlorobenzene	2400	280000		1 U
1,3-Dichloropropane	--	--		NA
1,4-Dichlorobenzene	1800	130000		1 U
1,4-Dioxane	100	130000		130 U
2,2-Dichloropropane	--	--		NA
2-Butanone (MEK)	120	500000		10 U
2-Chloroethylvinylether	--	--		NA
2-Chlorotoluene	--	--		NA
2-Hexanone	--	--		5 U
4-Chlorotoluene	--	--		NA
4-Methyl-2-pentanone (MIBK)	--	--		5 U
Acetone	50	500000		10 U
Acrylonitrile	--	--		NA
Benzene	60	44000		1 U
Bromobenzene	--	--		NA

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	TRIP BLANK 9/8/2011
Bromochloromethane	--	--		5 U
Bromodichloromethane	--	--		1 U
Bromoform	--	--		4 U
Bromomethane	--	--		2 U
Carbon disulfide	--	--		2 U
Carbon tetrachloride	760	22000		1 U
Chlorobenzene	1100	500000		1 U
Chlorodibromomethane	--	--		NA
Chloroethane	--	--		1 U
Chloroform	370	350000		1 U
Chloromethane	--	--		1 U
cis-1,2-Dichloroethene	250	500000		1 U
cis-1,3-Dichloropropene	--	--		1 U
Cyclohexane	--	--		5 U
Dibromochloromethane	--	--		1 U
Dibromochloropropane	--	--		10 U
Dibromomethane	--	--		NA
Dichlorodifluoromethane	--	--		5 U
Di-isopropyl ether	--	--		NA
Ethylbenzene	1000	390000		1 U
Freon 113	--	--		5 U
Hexachlorobutadiene	--	--		NA
Isopropylbenzene	--	--		2 U
m+p-Xylene	--	--		1 U
Methyl acetate	--	--		5 U
Methylcyclohexane	--	--		5 U
Methylene chloride	50	500000		2 U
MTBE	930	500000		1 U
Naphthalene	--	--		NA
n-Butylbenzene	--	--		NA
n-Propylbenzene	3900	500000		NA
o-Xylene	--	--		1 U
p-Isopropyltoluene	--	--		NA

Table 5. Summary of Volatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	TRIP BLANK 9/8/2011
sec-Butylbenzene	11000	500000		NA
Styrene	--	--		5 U
tert-Butylbenzene	5900	500000		NA
Tetrachloroethene	1300	150000		1 U
Toluene	700	500000		1 U
trans-1,2-Dichloroethene	190	500000		1 U
trans-1,3-Dichloropropene	--	--		1 U
Trichloroethene	470	200000		1 U
Trichlorofluoromethane	--	--		5 U
Vinyl chloride	20	13000		1 U
Xylenes (total)	260	500000		1 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-1	B-2	B-2	B-3	B-4	B-5
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
			Sample Depth (ft bls):	6-9	2-4	5-8	6-9	2-5	2-5
1,1'-Biphenyl	--	--		NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	--	--		NA	NA	NA	NA	NA	NA
2,2'-oxybis (1-chloropropane)	--	--		NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	--	--		NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	--	--		NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	--	--		NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	--	--		NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	--	--		NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	--	--		NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	--	--		NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	--	--		NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	--	--		NA	NA	NA	NA	NA	NA
2-Chlorophenol	--	--		NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	--		NA	NA	NA	NA	NA	NA
2-Methylphenol	330	500000		NA	NA	NA	NA	NA	NA
2-Nitroaniline	--	--		NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	--		NA	NA	NA	NA	NA	NA
3&4-Methylphenol	--	--		NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	--	--		NA	NA	NA	NA	NA	NA
3-Nitroaniline	--	--		NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	--		NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	--	--		NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	--	--		NA	NA	NA	NA	NA	NA
4-Chloroaniline	--	--		NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	--	--		NA	NA	NA	NA	NA	NA
4-Nitroaniline	--	--		NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	--		NA	NA	NA	NA	NA	NA
Acenaphthene	20000	500000		ND	NA	ND	ND	ND	ND
Acenaphthylene	100000	500000		ND	NA	ND	2000	ND	14000
Acetophenone	--	--		NA	NA	NA	NA	NA	NA
Anthracene	100000	500000		ND	NA	ND	5300	ND	ND

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-1	B-2	B-2	B-3	B-4	B-5
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
			Sample Depth (ft bls):	6-9	2-4	5-8	6-9	2-5	2-5
Atrazine	--	--		NA	NA	NA	NA	NA	NA
Benzaldehyde	--	--		NA	NA	NA	NA	NA	NA
Benzo[a]anthracene	1000	5600		ND	NA	ND	**8200**	700	**14000**
Benzo[a]pyrene	1000	1000		ND	NA	ND	**6800**	780	**9100**
Benzo[b]fluoranthene	1000	5600		ND	NA	ND	**4800**	**1100**	**15000**
Benzo[g,h,i]perylene	100000	500000		ND	NA	ND	1800	440	ND
Benzo[k]fluoranthene	800	56000		ND	NA	ND	**5700**	530	ND
Bis(2-chloroethoxy)methane	--	--		NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl) ether	--	--		NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	--	--		NA	NA	NA	NA	NA	NA
Butylbenzyl phthalate	--	--		NA	NA	NA	NA	NA	NA
Caprolactam	--	--		NA	NA	NA	NA	NA	NA
Carbazole	--	--		NA	NA	NA	NA	NA	NA
Chrysene	1000	56000		ND	NA	ND	**6300**	900	**14000**
Dibenzo[a,h]anthracene	330	560		ND	NA	ND	**560**	ND	ND
Dibenzofuran	7000	350000		NA	NA	NA	NA	NA	NA
Diethyl phthalate	--	--		NA	NA	NA	NA	NA	NA
Dimethyl phthalate	--	--		NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	--	--		NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	--	--		NA	NA	NA	NA	NA	NA
Fluoranthene	100000	500000		ND	NA	1100	13000	1200	8600
Fluorene	30000	500000		ND	NA	ND	NA	ND	ND
Hexachlorobenzene	330	6000		NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	--	--		NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	--	--		NA	NA	NA	NA	NA	NA
Hexachloroethane	--	--		NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	500	5600		ND	NA	ND	**1600**	ND	ND
Isophorone	--	--		NA	NA	NA	NA	NA	NA
Naphthalene	12000	500000		ND	NA	ND	520	ND	ND
Nitrobenzene	--	--		NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	--	--		NA	NA	NA	NA	NA	NA

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-1	B-2	B-2	B-3	B-4	B-5
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
			Sample Depth (ft bls):	6-9	2-4	5-8	6-9	2-5	2-5
n-Nitrosodiphenylamine	--	--		NA	NA	NA	NA	NA	NA
Pentachlorophenol	800	6700		NA	NA	NA	NA	NA	NA
Phenanthrene	100000	500000		ND	NA	ND	1600	950	ND
Phenol	330	500000		NA	NA	NA	NA	NA	NA
Pyrene	100000	500000		ND	NA	1000	18000	1200	22000

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Track 2 Restricted Commercial Standards
NA - Compound was not analyzed by laboratory

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-6	B-7	B-8	B-9	B-10	B-10
			Sample Date:	04/18/07	04/18/07	04/18/07	04/19/07	04/19/07	04/19/07
			Sample Depth (ft bls):	6-9	2-5	6-9	5-7	3-8	9-10
1,1'-Biphenyl	--	--		NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	--	--		NA	NA	NA	NA	NA	NA
2,2'-oxybis (1-chloropropane)	--	--		NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	--	--		NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	--	--		NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	--	--		NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	--	--		NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	--	--		NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	--	--		NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	--	--		NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	--	--		NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	--	--		NA	NA	NA	NA	NA	NA
2-Chlorophenol	--	--		NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	--		NA	NA	NA	NA	NA	NA
2-Methylphenol	330	500000		NA	NA	NA	NA	NA	NA
2-Nitroaniline	--	--		NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	--		NA	NA	NA	NA	NA	NA
3&4-Methylphenol	--	--		NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	--	--		NA	NA	NA	NA	NA	NA
3-Nitroaniline	--	--		NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	--		NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	--	--		NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	--	--		NA	NA	NA	NA	NA	NA
4-Chloroaniline	--	--		NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	--	--		NA	NA	NA	NA	NA	NA
4-Nitroaniline	--	--		NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	--		NA	NA	NA	NA	NA	NA
Acenaphthene	20000	500000		ND	ND	ND	ND	ND	NA
Acenaphthylene	100000	500000		8700	2500	520	ND	ND	NA
Acetophenone	--	--		NA	NA	NA	NA	NA	NA
Anthracene	100000	500000		ND	8300	430	ND	ND	NA

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-6	B-7	B-8	B-9	B-10	B-10
			Sample Date:	04/18/07	04/18/07	04/18/07	04/19/07	04/19/07	04/19/07
			Sample Depth (ft bls):	6-9	2-5	6-9	5-7	3-8	9-10
Atrazine	--	--		NA	NA	NA	NA	NA	NA
Benzaldehyde	--	--		NA	NA	NA	NA	NA	NA
Benzo[a]anthracene	1000	5600		**15000**	**10000**	**1500**	**14000**	650	NA
Benzo[a]pyrene	1000	1000		**21000**	**7300**	**1700**	**14000**	700	NA
Benzo[b]fluoranthene	1000	5600		**14000**	**4300**	**1800**	**17000**	660	NA
Benzo[g,h,i]perylene	100000	500000		ND	2800	800	11000	480	NA
Benzo[k]fluoranthene	800	56000		ND	**8600**	**1000**	ND	ND	NA
Bis(2-chloroethoxy)methane	--	--		NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl) ether	--	--		NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	--	--		NA	NA	NA	NA	NA	NA
Butylbenzyl phthalate	--	--		NA	NA	NA	NA	NA	NA
Caprolactam	--	--		NA	NA	NA	NA	NA	NA
Carbazole	--	--		NA	NA	NA	NA	NA	NA
Chrysene	1000	56000		ND	**9700**	**1500**	**14000**	710	NA
Dibenzo[a,h]anthracene	330	560		ND	**1300**	ND	ND	ND	NA
Dibenzofuran	7000	350000		NA	NA	NA	NA	NA	NA
Diethyl phthalate	--	--		NA	NA	NA	NA	NA	NA
Dimethyl phthalate	--	--		NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	--	--		NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	--	--		NA	NA	NA	NA	NA	NA
Fluoranthene	100000	500000		ND	10000	2100	26000	1400	NA
Fluorene	30000	500000		ND	780	ND	ND	ND	NA
Hexachlorobenzene	330	6000		NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	--	--		NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	--	--		NA	NA	NA	NA	NA	NA
Hexachloroethane	--	--		NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	500	5600		ND	**2500**	**630**	**9200**	450	NA
Isophorone	--	--		NA	NA	NA	NA	NA	NA
Naphthalene	12000	500000		ND	ND	ND	ND	ND	NA
Nitrobenzene	--	--		NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	--	--		NA	NA	NA	NA	NA	NA

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-6	B-7	B-8	B-9	B-10	B-10
			Sample Date:	04/18/07	04/18/07	04/18/07	04/19/07	04/19/07	04/19/07
			Sample Depth (ft bls):	6-9	2-5	6-9	5-7	3-8	9-10
n-Nitrosodiphenylamine	--	--		NA	NA	NA	NA	NA	NA
Pentachlorophenol	800	6700		NA	NA	NA	NA	NA	NA
Phenanthrene	100000	500000		ND	3200	1400	18000	950	NA
Phenol	330	500000		NA	NA	NA	NA	NA	NA
Pyrene	100000	500000		ND	17000	2600	26000	1200	NA

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Track 2 Restricted Com
NA - Compound was not analyzed by laboratory

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-11	B-13	B-14/MW-2	B-15	B-16/MW-1
			Sample Date:	04/19/07	04/19/07	9/8/2011	9/8/2011	9/8/2011
			Sample Depth (ft bls):	6-8	2-4	7-8	7-9	5-7
1,1'-Biphenyl	--	--		NA	NA	69 U	13.8 J	38 J
1,2,4,5-Tetrachlorobenzene	--	--		NA	NA	170 U	160 U	180 U
2,2'-oxybis (1-chloropropane)	--	--		NA	NA	69 U	66 U	71 U
2,3,4,6-Tetrachlorophenol	--	--		NA	NA	170 U	160 U	180 U
2,4,5-Trichlorophenol	--	--		NA	NA	170 U	160 U	180 U
2,4,6-Trichlorophenol	--	--		NA	NA	170 U	160 U	180 U
2,4-Dichlorophenol	--	--		NA	NA	170 U	160 U	180 U
2,4-Dimethylphenol	--	--		NA	NA	170 U	160 U	180 U
2,4-Dinitrophenol	--	--		NA	NA	690 U	660 U	710 U
2,4-Dinitrotoluene	--	--		NA	NA	69 U	66 U	71 U
2,6-Dinitrotoluene	--	--		NA	NA	69 U	66 U	71 U
2-Chloronaphthalene	--	--		NA	NA	69 U	66 U	71 U
2-Chlorophenol	--	--		NA	NA	170 U	160 U	180 U
2-Methylnaphthalene	--	--		NA	NA	69 U	84.2	145
2-Methylphenol	330	500000		NA	NA	69 U	66 U	50.8 J
2-Nitroaniline	--	--		NA	NA	170 U	160 U	180 U
2-Nitrophenol	--	--		NA	NA	170 U	160 U	180 U
3&4-Methylphenol	--	--		NA	NA	69 U	66 U	60.1 J
3,3'-Dichlorobenzidine	--	--		NA	NA	170 U	160 U	180 U
3-Nitroaniline	--	--		NA	NA	170 U	160 U	180 U
4,6-Dinitro-2-methylphenol	--	--		NA	NA	690 U	660 U	710 U
4-Bromophenyl phenyl ether	--	--		NA	NA	69 U	66 U	71 U
4-Chloro-3-methylphenol	--	--		NA	NA	170 U	160 U	180 U
4-Chloroaniline	--	--		NA	NA	170 U	160 U	180 U
4-Chlorophenyl phenyl ether	--	--		NA	NA	69 U	66 U	71 U
4-Nitroaniline	--	--		NA	NA	170 U	160 U	180 U
4-Nitrophenol	--	--		NA	NA	340 U	330 U	350 U
Acenaphthene	20000	500000		ND	ND	34 U	75.1	295
Acenaphthylene	100000	500000		ND	ND	34 U	260	517
Acetophenone	--	--		NA	NA	170 U	160 U	75.4 J
Anthracene	100000	500000		ND	ND	34 U	300	1230

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-11	B-13	B-14/MW-2	B-15	B-16/MW-1
			Sample Date:	04/19/07	04/19/07	9/8/2011	9/8/2011	9/8/2011
			Sample Depth (ft bls):	6-8	2-4	7-8	7-9	5-7
Atrazine	--	--		NA	NA	170 U	160 U	180 U
Benzaldehyde	--	--		NA	NA	170 U	160 U	180 U
Benzo[a]anthracene	1000	5600		ND	ND	34 U	**1100**	**5210**
Benzo[a]pyrene	1000	1000		ND	ND	34 U	**1240**	**4860**
Benzo[b]fluoranthene	1000	5600		ND	ND	34 U	947	**4850**
Benzo[g,h,i]perylene	100000	500000		ND	550	34 U	1150	3620
Benzo[k]fluoranthene	800	56000		ND	ND	34 U	762	**2790**
Bis(2-chloroethoxy)methane	--	--		NA	NA	69 U	66 U	71 U
Bis(2-chloroethyl) ether	--	--		NA	NA	69 U	66 U	71 U
Bis(2-ethylhexyl) phthalate	--	--		NA	NA	69 U	75.5	71 U
Butylbenzyl phthalate	--	--		NA	NA	69 U	66 U	71 U
Caprolactam	--	--		NA	NA	69 U	66 U	71 U
Carbazole	--	--		NA	NA	69 U	107	787
Chrysene	1000	56000		ND	ND	34 U	**1100**	**5660**
Dibenzo[a,h]anthracene	330	560		ND	ND	34 U	**404**	**1490**
Dibenzofuran	7000	350000		NA	NA	69 U	59.9 J	272
Diethyl phthalate	--	--		NA	NA	69 U	66 U	71 U
Dimethyl phthalate	--	--		NA	NA	67 J	37.1 J	71 U
Di-n-butyl phthalate	--	--		NA	NA	69 U	66 U	71 U
Di-n-octyl phthalate	--	--		NA	NA	69 U	66 U	71 U
Fluoranthene	100000	500000		ND	ND	17.5 J	1990	11000
Fluorene	30000	500000		ND	ND	34 U	91.5	352
Hexachlorobenzene	330	6000		NA	NA	69 U	66 U	71 U
Hexachlorobutadiene	--	--		NA	NA	34 U	33 U	35 U
Hexachlorocyclopentadiene	--	--		NA	NA	690 U	660 U	710 U
Hexachloroethane	--	--		NA	NA	170 U	160 U	180 U
Indeno[1,2,3-cd]pyrene	500	5600		ND	ND	34 U	941	**3300**
Isophorone	--	--		NA	NA	69 U	66 U	71 U
Naphthalene	12000	500000		ND	ND	34 U	113	184
Nitrobenzene	--	--		NA	NA	69 U	66 U	71 U
n-Nitrosodi-n-propylamine	--	--		NA	NA	69 U	66 U	71 U

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-11	B-13	B-14/MW-2	B-15	B-16/MW-1
			Sample Date:	04/19/07	04/19/07	9/8/2011	9/8/2011	9/8/2011
			Sample Depth (ft bls):	6-8	2-4	7-8	7-9	5-7
n-Nitrosodiphenylamine	--	--		NA	NA	170 U	160 U	180 U
Pentachlorophenol	800	6700		NA	NA	340 U	330 U	350 U
Phenanthrene	100000	500000		ND	ND	34 U	1230	6280
Phenol	330	500000		NA	NA	69 U	66 U	71 U
Pyrene	100000	500000		ND	ND	15.7 J	2090	10100

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Track 2 Restricted Com
NA - Compound was not analyzed by laboratory

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-17/MW-3	B-18	B-19	B-20/MW-4
			Sample Date:	9/8/2011	9/9/2011	9/9/2011	9/8/2011
			Sample Depth (ft bls):	4-5	7-9	7-8	5-7
1,1'-Biphenyl	--	--		63 U	317 J	456	68 U
1,2,4,5-Tetrachlorobenzene	--	--		160 U	880 U	840 U	170 U
2,2'-oxybis (1-chloropropane)	--	--		63 U	350 U	340 U	68 U
2,3,4,6-Tetrachlorophenol	--	--		160 U	880 U	840 U	170 U
2,4,5-Trichlorophenol	--	--		160 U	880 U	840 U	170 U
2,4,6-Trichlorophenol	--	--		160 U	880 U	840 U	170 U
2,4-Dichlorophenol	--	--		160 U	880 U	840 U	170 U
2,4-Dimethylphenol	--	--		160 U	880 U	840 U	170 U
2,4-Dinitrophenol	--	--		630 U	3500 U	3400 U	680 U
2,4-Dinitrotoluene	--	--		63 U	350 U	340 U	68 U
2,6-Dinitrotoluene	--	--		63 U	350 U	340 U	68 U
2-Chloronaphthalene	--	--		63 U	350 U	340 U	68 U
2-Chlorophenol	--	--		160 U	880 U	840 U	170 U
2-Methylnaphthalene	--	--		63 U	350 U	340 U	197
2-Methylphenol	330	500000		63 U	350 U	340 U	68 U
2-Nitroaniline	--	--		160 U	880 U	840 U	170 U
2-Nitrophenol	--	--		160 U	880 U	840 U	170 U
3&4-Methylphenol	--	--		63 U	350 U	340 U	68 U
3,3'-Dichlorobenzidine	--	--		160 U	880 U	840 U	170 U
3-Nitroaniline	--	--		160 U	880 U	840 U	170 U
4,6-Dinitro-2-methylphenol	--	--		630 U	3500 U	3400 U	680 U
4-Bromophenyl phenyl ether	--	--		63 U	350 U	340 U	68 U
4-Chloro-3-methylphenol	--	--		160 U	880 U	840 U	170 U
4-Chloroaniline	--	--		160 U	880 U	840 U	170 U
4-Chlorophenyl phenyl ether	--	--		63 U	350 U	340 U	68 U
4-Nitroaniline	--	--		160 U	880 U	840 U	170 U
4-Nitrophenol	--	--		320 U	1800 U	1700 U	340 U
Acenaphthene	20000	500000		37.6	1580	4570	83.4
Acenaphthylene	100000	500000		73.6	6490	10100	1180
Acetophenone	--	--		160 U	917	840 U	145 J
Anthracene	100000	500000		133	11100	8380	540

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-17/MW-3	B-18	B-19	B-20/MW-4
			Sample Date:	9/8/2011	9/9/2011	9/9/2011	9/8/2011
			Sample Depth (ft bls):	4-5	7-9	7-8	5-7
Atrazine	--	--		160 U	880 U	840 U	170 U
Benzaldehyde	--	--		160 U	880 U	840 U	170 U
Benzo[a]anthracene	1000	5600		521	**7740**	**7900**	790
Benzo[a]pyrene	1000	1000		488	**5990**	**5780**	**1450**
Benzo[b]fluoranthene	1000	5600		612	**3570**	**2630**	734
Benzo[g,h,i]perylene	100000	500000		389	4280	3260	1670
Benzo[k]fluoranthene	800	56000		203	**2390**	**2270**	626
Bis(2-chloroethoxy)methane	--	--		63 U	350 U	340 U	68 U
Bis(2-chloroethyl) ether	--	--		63 U	350 U	340 U	68 U
Bis(2-ethylhexyl) phthalate	--	--		112	350 U	340 U	68 U
Butylbenzyl phthalate	--	--		63 U	350 U	340 U	68 U
Caprolactam	--	--		63 U	350 U	340 U	68 U
Carbazole	--	--		44.7 J	350 U	340 U	68 U
Chrysene	1000	56000		508	**7940**	**8520**	968
Dibenzo[a,h]anthracene	330	560		164	**1470**	**1050**	211
Dibenzofuran	7000	350000		17 J	523	1090	68 U
Diethyl phthalate	--	--		63 U	350 U	340 U	68 U
Dimethyl phthalate	--	--		49.5 J	350 U	340 U	68 U
Di-n-butyl phthalate	--	--		63 U	350 U	340 U	68 U
Di-n-octyl phthalate	--	--		63 U	350 U	340 U	68 U
Fluoranthene	100000	500000		868	11100	10800	1050
Fluorene	30000	500000		37	2040	2230	224
Hexachlorobenzene	330	6000		63 U	350 U	340 U	68 U
Hexachlorobutadiene	--	--		32 U	180 U	170 U	34 U
Hexachlorocyclopentadiene	--	--		630 U	3500 U	3400 U	680 U
Hexachloroethane	--	--		160 U	880 U	840 U	170 U
Indeno[1,2,3-cd]pyrene	500	5600		345	**2700**	**2190**	**914**
Isophorone	--	--		63 U	350 U	340 U	68 U
Naphthalene	12000	500000		18.4 J	575	2630	288
Nitrobenzene	--	--		63 U	350 U	340 U	68 U
n-Nitrosodi-n-propylamine	--	--		63 U	350 U	340 U	68 U

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-17/MW-3	B-18	B-19	B-20/MW-4
			Sample Date:	9/8/2011	9/9/2011	9/9/2011	9/8/2011
			Sample Depth (ft bls):	4-5	7-9	7-8	5-7
n-Nitrosodiphenylamine	--	--		160 U	880 U	840 U	170 U
Pentachlorophenol	800	6700		320 U	1800 U	1700 U	340 U
Phenanthrene	100000	500000		401	11400	22700	401
Phenol	330	500000		63 U	350 U	340 U	68 U
Pyrene	100000	500000		857	24200	20600	1870

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Track 2 Restricted Com
NA - Compound was not analyzed by laboratory

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	B-20/MW-4DUP 9/8/2011 5-7	B-21 9/9/2011 12-14	FB090811 9/8/2011
1,1'-Biphenyl	--	--		67 U	150 U	1 U
1,2,4,5-Tetrachlorobenzene	--	--		170 U	380 U	2 U
2,2'-oxybis (1-chloropropane)	--	--		67 U	150 U	2 U
2,3,4,6-Tetrachlorophenol	--	--		170 U	380 U	5 U
2,4,5-Trichlorophenol	--	--		170 U	380 U	5 U
2,4,6-Trichlorophenol	--	--		170 U	380 U	5 U
2,4-Dichlorophenol	--	--		170 U	380 U	5 U
2,4-Dimethylphenol	--	--		170 U	380 U	5 U
2,4-Dinitrophenol	--	--		670 U	1500 U	20 U
2,4-Dinitrotoluene	--	--		67 U	150 U	2 U
2,6-Dinitrotoluene	--	--		67 U	150 U	2 U
2-Chloronaphthalene	--	--		67 U	150 U	2 U
2-Chlorophenol	--	--		170 U	380 U	5 U
2-Methylnaphthalene	--	--		205	150 U	1 U
2-Methylphenol	330	500000		67 U	150 U	2 U
2-Nitroaniline	--	--		170 U	380 U	5 U
2-Nitrophenol	--	--		170 U	380 U	5 U
3&4-Methylphenol	--	--		229	150 U	2 U
3,3'-Dichlorobenzidine	--	--		170 U	380 U	5 U
3-Nitroaniline	--	--		170 U	380 U	5 U
4,6-Dinitro-2-methylphenol	--	--		670 U	1500 U	20 U
4-Bromophenyl phenyl ether	--	--		67 U	150 U	2 U
4-Chloro-3-methylphenol	--	--		170 U	380 U	5 U
4-Chloroaniline	--	--		170 U	380 U	5 U
4-Chlorophenyl phenyl ether	--	--		67 U	150 U	2 U
4-Nitroaniline	--	--		170 U	380 U	5 U
4-Nitrophenol	--	--		340 U	760 U	10 U
Acenaphthene	20000	500000		106	76 U	1 U
Acenaphthylene	100000	500000		999	61.6 J	1 U
Acetophenone	--	--		170 U	380 U	2 U
Anthracene	100000	500000		581	76 U	1 U

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-20/MW-4DUP	B-21	FB090811
			Sample Date:	9/8/2011	9/9/2011	9/8/2011
			Sample Depth (ft bls):	5-7	12-14	
Atrazine	--	--		170 U	380 U	5 U
Benzaldehyde	--	--		170 U	380 U	5 U
Benzo[a]anthracene	1000	5600		1000	76 U	1 U
Benzo[a]pyrene	1000	1000		**1140**	119	1 U
Benzo[b]fluoranthene	1000	5600		852	58.8 J	1 U
Benzo[g,h,i]perylene	100000	500000		1540	65.1 J	1 U
Benzo[k]fluoranthene	800	56000		437	74.5 J	1 U
Bis(2-chloroethoxy)methane	--	--		67 U	150 U	2 U
Bis(2-chloroethyl) ether	--	--		67 U	150 U	2 U
Bis(2-ethylhexyl) phthalate	--	--		67 U	150 U	2 U
Butylbenzyl phthalate	--	--		67 U	150 U	2 U
Caprolactam	--	--		67 U	150 U	2 U
Carbazole	--	--		67 U	150 U	1 U
Chrysene	1000	56000		**1180**	76 U	1 U
Dibenzo[a,h]anthracene	330	560		205	76 U	1 U
Dibenzofuran	7000	350000		67 U	150 U	5 U
Diethyl phthalate	--	--		67 U	150 U	2 U
Dimethyl phthalate	--	--		67 U	149 J	2 U
Di-n-butyl phthalate	--	--		67 U	150 U	2 U
Di-n-octyl phthalate	--	--		67 U	150 U	2 U
Fluoranthene	100000	500000		833	197	1 U
Fluorene	30000	500000		185	76 U	1 U
Hexachlorobenzene	330	6000		67 U	150 U	1 U
Hexachlorobutadiene	--	--		34 U	76 U	1 U
Hexachlorocyclopentadiene	--	--		670 U	1500 U	20 U
Hexachloroethane	--	--		170 U	380 U	2 U
Indeno[1,2,3-cd]pyrene	500	5600		**873**	46.1 J	1 U
Isophorone	--	--		67 U	150 U	2 U
Naphthalene	12000	500000		245	76 U	1 U
Nitrobenzene	--	--		67 U	150 U	2 U
n-Nitrosodi-n-propylamine	--	--		67 U	150 U	2 U

Table 6. Summary of Semivolatile Organic Compounds in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-20/MW-4DUP	B-21	FB090811
			Sample Date:	9/8/2011	9/9/2011	9/8/2011
			Sample Depth (ft bls):	5-7	12-14	
n-Nitrosodiphenylamine	--	--		170 U	380 U	5 U
Pentachlorophenol	800	6700		340 U	760 U	10 U
Phenanthrene	100000	500000		407	76 U	1 U
Phenol	330	500000		67 U	150 U	2 U
Pyrene	100000	500000		1740	369	1 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Track 2 Restricted Com
NA - Compound was not analyzed by laboratory

Table 7. Summary of Metals in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-1	B-2	B-2	B-3	B-4	B-5
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
			Sample Depth (ft bls):	6-9	2-4	5-8	6-9	2-5	2-5
Aluminum	--	--		NA	NA	NA	NA	NA	NA
Antimony	--	--		NA	NA	NA	NA	NA	NA
Arsenic	13	16		6.3	11	3	8.6	**16**	10
Barium	350	400		22	120	65	140	190	34
Beryllium	7.2	590		NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3		0.46	**2.7**	0.7	0.62	**2.8**	ND
Calcium	--	--		NA	NA	NA	NA	NA	NA
Chromium	30	1500		8.5	15	30	14	**38**	5
Cobalt	--	--		NA	NA	NA	NA	NA	NA
Copper	50	270		NA	NA	NA	NA	NA	NA
Iron	--	--		NA	NA	NA	NA	NA	NA
Lead	63	1000		**110**	**160**	**130**	**150**	**2000**	**86**
Magnesium	--	--		NA	NA	NA	NA	NA	NA
Manganese	1600	10000		NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8		**0.19**	**0.22**	0.058	0.17	**0.66**	0.071
Nickel	30	310		NA	NA	NA	NA	NA	NA
Potassium	--	--		NA	NA	NA	NA	NA	NA
Selenium	3.9	1500		3.2	**13**	**5.4**	**14**	**38**	**8.9**
Silver	2	1500		ND	ND	ND	ND	ND	ND
Sodium	--	--		NA	NA	NA	NA	NA	NA
Thallium	--	--		NA	NA	NA	NA	NA	NA
Vanadium	--	--		NA	NA	NA	NA	NA	NA
Zinc	109	10000		NA	NA	NA	NA	NA	NA

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 7. Summary of Metals in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-6	B-7	B-8	B-9	B-10	B-10
			Sample Date:	04/18/07	04/18/07	04/18/07	04/19/07	04/19/07	04/19/07
			Sample Depth (ft bls):	6-9	2-5	6-9	5-7	3-8	9-10
Aluminum	--	--		NA	NA	NA	NA	NA	NA
Antimony	--	--		NA	NA	NA	NA	NA	NA
Arsenic	13	16		13	3.6	8.2	12	10	NA
Barium	350	400		130	17	51	240	170	NA
Beryllium	7.2	590		NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3		0.43	ND	0.72	1.6	0.59	NA
Calcium	--	--		NA	NA	NA	NA	NA	NA
Chromium	30	1500		7.7	4.5	7.3	18	12	NA
Cobalt	--	--		NA	NA	NA	NA	NA	NA
Copper	50	270		NA	NA	NA	NA	NA	NA
Iron	--	--		NA	NA	NA	NA	NA	NA
Lead	63	1000		**130**	26	**210**	**2900**	**380**	NA
Magnesium	--	--		NA	NA	NA	NA	NA	NA
Manganese	1600	10000		NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8		0.066	0.041	**0.28**	**0.49**	**2.4**	NA
Nickel	30	310		NA	NA	NA	NA	NA	NA
Potassium	--	--		NA	NA	NA	NA	NA	NA
Selenium	3.9	1500		**16**	3.5	1.9	**7.5**	**6.8**	NA
Silver	2	1500		ND	ND	ND	ND	ND	NA
Sodium	--	--		NA	NA	NA	NA	NA	NA
Thallium	--	--		NA	NA	NA	NA	NA	NA
Vanadium	--	--		NA	NA	NA	NA	NA	NA
Zinc	109	10000		NA	NA	NA	NA	NA	NA

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 7. Summary of Metals in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-11	B-13	B-14/MW-2	B-15	B-16/MW-1
			Sample Date:	04/19/07	04/19/07	9/8/2011	9/8/2011	9/8/2011
			Sample Depth (ft bls):	6-8	2-4	7-8	7-9	5-7
Aluminum	--	--		NA	NA	8050	2550	4850
Antimony	--	--		NA	NA	2.4 U	2.3 U	2.4 U
Arsenic	13	16		3.8	2.4	2.4 U	10.8	**14**
Barium	350	400		69	26	55.9	43.4	230
Beryllium	7.2	590		NA	NA	0.35	0.23 U	0.26
Cadmium	2.5	9.3		ND	ND	0.6 U	0.58 U	**2.8**
Calcium	--	--		NA	NA	624	55500	8830
Chromium	30	1500		9.2	8.2	12.2	13.8	21.6
Cobalt	--	--		NA	NA	6 U	5.8 U	6.2
Copper	50	270		NA	NA	4.4	38.8	**129**
Iron	--	--		NA	NA	11600	53100	21000
Lead	63	1000		37	14	10	**69.3**	**1160**
Magnesium	--	--		NA	NA	1650	29200	2710
Manganese	1600	10000		NA	NA	87.4	362	182
Mercury	0.18	2.8		0.058	ND	0.039 U	**2.3**	**0.63**
Nickel	30	310		NA	NA	11.8	14.9	23.2
Potassium	--	--		NA	NA	1200 U	1200 U	1200 U
Selenium	3.9	1500		3	**4.8**	2.4 U	4.6 U	2.4 U
Silver	2	1500		ND	ND	0.6 U	1.2 U	0.6 U
Sodium	--	--		NA	NA	1200 U	1200 U	1200 U
Thallium	--	--		NA	NA	1.2 U	2.3 U	1.2 U
Vanadium	--	--		NA	NA	20.2	13.1	35.4
Zinc	109	10000		NA	NA	33	109	**795**

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 7. Summary of Metals in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-17/MW-3	B-18	B-19	B-20/MW-4	B-20/MW-4DUP
			Sample Date:	9/8/2011	9/9/2011	9/9/2011	9/8/2011	9/8/2011
			Sample Depth (ft bls):	4-5	7-9	7-8	5-7	5-7
Aluminum	--	--		4700	2450	4380	1670	2420
Antimony	--	--		5.5	2.3 U	2.4 U	2.4 U	2.4 U
Arsenic	13	16		10.6	7.6	9.4	2.9	8.9
Barium	350	400		**441**	36.3	44.2	24 U	37.9
Beryllium	7.2	590		0.38	0.23 U	0.24 U	0.24 U	0.24 U
Cadmium	2.5	9.3		1.2	0.59 U	0.59 U	0.6 U	0.59 U
Calcium	--	--		49100	932	2270	600 U	981
Chromium	30	1500		20.7	7.7	12.2	6.8	10.6
Cobalt	--	--		6.2	5.9 U	5.9 U	6 U	5.9 U
Copper	50	270		**307**	**59.5**	45.8	40.6	**65.1**
Iron	--	--		31000	18900	16600	6310	17100
Lead	63	1000		**541**	54.4	**86.1**	**129**	**108**
Magnesium	--	--		24800	779	952	600 U	961
Manganese	1600	10000		327	121	57.8	104	142
Mercury	0.18	2.8		**0.62**	0.057	**0.23**	0.073	0.15
Nickel	30	310		**37.4**	21.1	21	12.3	18.3
Potassium	--	--		1100 U	1200 U	1200 U	1200 U	1200 U
Selenium	3.9	1500		2.2 U	2.3	2.4	2.4 U	2.4 U
Silver	2	1500		0.55 U	0.59 U	0.59 U	0.6 U	0.59 U
Sodium	--	--		1100 U	1200 U	1200 U	1200 U	1200 U
Thallium	--	--		1.1 U	1.2 U	1.2 U	1.2 U	1.2 U
Vanadium	--	--		25.2	11.7	17.2	9.2	12.2
Zinc	109	10000		**562**	**131**	53.5	30.1	**350**

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 7. Summary of Metals in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-21	FB090811
			Sample Date:	9/9/2011	9/8/2011
			Sample Depth (ft bls):	12-14	
Aluminum	--	--		19800	200 U
Antimony	--	--		5.1 U	6 U
Arsenic	13	16		5.1 U	3 U
Barium	350	400		51 U	200 U
Beryllium	7.2	590		0.78	1 U
Cadmium	2.5	9.3		1.3 U	3 U
Calcium	--	--		2700	5000 U
Chromium	30	1500		29.8	10 U
Cobalt	--	--		13 U	50 U
Copper	50	270		18.9	10 U
Iron	--	--		16600	100 U
Lead	63	1000		21.2	3 U
Magnesium	--	--		5280	5000 U
Manganese	1600	10000		128	15 U
Mercury	0.18	2.8		0.084 U	0.2 U
Nickel	30	310		22.9	10 U
Potassium	--	--		4070	10000 U
Selenium	3.9	1500		5.1 U	10 U
Silver	2	1500		1.3 U	10 U
Sodium	--	--		5390	10000 U
Thallium	--	--		2.6 U	10 U
Vanadium	--	--		37.9	50 U
Zinc	109	10000		**116**	35.3

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 8. Summary of Polychlorinated Biphenyls in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-1	B-2	B-3	B-4	B-5	B-6
			Sample Date:	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
			Sample Depth (ft bls):	6-9	2-4	6-9	2-5	2-5	6-9
Aroclor-1016	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1221	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1232	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1242	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1248	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1254	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1260	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1262	--	--		NA	NA	NA	NA	NA	NA
Aroclor-1268	--	--		NA	NA	NA	NA	NA	NA
Total PCBs	100	1000		0	0	0	0	0	0

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 8. Summary of Polychlorinated Biphenyls in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-7	B-8	B-9	B-10	B-11	B-13
			Sample Date:	04/18/07	04/18/07	04/19/07	04/19/07	04/19/07	04/19/07
			Sample Depth (ft bls):	2-5	6-9	5-7	3-8	6-8	2-4
Aroclor-1016	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1221	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1232	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1242	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1248	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1254	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1260	--	--		ND	ND	ND	ND	ND	ND
Aroclor-1262	--	--		NA	NA	NA	NA	NA	NA
Aroclor-1268	--	--		NA	NA	NA	NA	NA	NA
Total PCBs	100	1000		0	0	0	0	0	0

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 8. Summary of Polychlorinated Biphenyls in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-14/MW-2	B-15	B-16/MW-1	B-17/MW-3	B-18
			Sample Date:	9/8/2011	9/8/2011	9/8/2011	9/8/2011	9/9/2011
			Sample Depth (ft bls):	7-8	7-9	5-7	4-5	7-9
Aroclor-1016	--	--		35 U	34 U	36 U	33 U	36 U
Aroclor-1221	--	--		35 U	34 U	36 U	33 U	36 U
Aroclor-1232	--	--		35 U	34 U	36 U	33 U	36 U
Aroclor-1242	--	--		35 U	34 U	36 U	33 U	36 U
Aroclor-1248	--	--		35 U	34 U	36 U	33 U	36 U
Aroclor-1254	--	--		35 U	34 U	36 U	33 U	36 U
Aroclor-1260	--	--		35 U	34 U	36 U	33 U	36 U
Aroclor-1262	--	--		35 U	34 U	36 U	33 U	36 U
Aroclor-1268	--	--		35 U	34 U	36 U	266	36 U
Total PCBs	100	1000		0	0	0	**266**	0

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 8. Summary of Polychlorinated Biphenyls in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-19	B-20/MW-4	B-20/MW-4DUP	B-21	FB090811
			Sample Date:	9/9/2011	9/8/2011	9/8/2011	9/9/2011	9/8/2011
			Sample Depth (ft bls):	7-8	5-7	5-7	12-14	
Aroclor-1016	--	--		35 U	35 U	35 U	78 U	0.5 U
Aroclor-1221	--	--		35 U	35 U	35 U	78 U	0.5 U
Aroclor-1232	--	--		35 U	35 U	35 U	78 U	0.5 U
Aroclor-1242	--	--		35 U	35 U	35 U	78 U	0.5 U
Aroclor-1248	--	--		35 U	35 U	35 U	78 U	0.5 U
Aroclor-1254	--	--		35 U	35 U	35 U	78 U	0.5 U
Aroclor-1260	--	--		35 U	35 U	35 U	78 U	0.5 U
Aroclor-1262	--	--		35 U	35 U	35 U	78 U	0.5 U
Aroclor-1268	--	--		35 U	35 U	35 U	78 U	0.5 U
Total PCBs	100	1000		0	0	0	0	0

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards
NA - Compound was not analyzed by laboratory

Table 9. Summary of Pesticides in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-14/MW-2	B-15	B-16/MW-1	B-17/MW-3	B-18
			Sample Date:	9/8/2011	9/8/2011	9/8/2011	9/8/2011	9/9/2011
			Sample Depth (ft bls):	7-8	7-9	5-7	4-5	7-9
4,4'-DDD	3.3	92000		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
4,4'-DDE	3.3	62000		0.71 U	0.68 U	0.73 U	1.7	0.72 U
4,4'-DDT	3.3	47000		0.71 U	**14.4**	**48.9**	**13.8**	0.72 U
Aldrin	5	680		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
alpha-BHC	20	3400		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
alpha-Chlordane	94	24000		0.71 U	0.68 U	0.73 U	2.1	0.72 U
beta-BHC	36	3000		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
delta-BHC	40	500000		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
Dieldrin	5	1400		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
Endosulfan I	2400	200000		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
Endosulfan II	2400	200000		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
Endosulfan sulfate	2400	200000		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
Endrin aldehyde	--	--		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
Endrin ketone	--	--		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
Endrin	14	89000		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
gamma-BHC (Lindane)	100	9200		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
gamma-Chlordane	--	--		0.71 U	0.68 U	0.73 U	2.8	0.72 U
Heptachlor epoxide	--	--		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
Heptachlor	42	15000		0.71 U	0.68 U	0.73 U	0.65 U	0.72 U
Methoxychlor	--	--		1.4 U	1.4 U	1.5 U	1.3 U	1.4 U
Toxaphene	--	--		18 U	17 U	18 U	16 U	18 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards

Table 9. Summary of Pesticides in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	B-19	B-20/MW-4	B-20/MW-4DUP	B-21
			Sample Date:	9/9/2011	9/8/2011	9/8/2011	9/9/2011
			Sample Depth (ft bls):	7-8	5-7	5-7	12-14
4,4'-DDD	3.3	92000		0.69 U	0.7 U	0.69 U	1.6 U
4,4'-DDE	3.3	62000		0.69 U	0.7 U	0.69 U	1.6 U
4,4'-DDT	3.3	47000		0.69 U	**14.5**	**20.2**	1.6 U
Aldrin	5	680		0.69 U	0.7 U	0.69 U	1.6 U
alpha-BHC	20	3400		0.69 U	0.7 U	0.69 U	1.6 U
alpha-Chlordane	94	24000		0.69 U	0.7 U	0.69 U	1.6 U
beta-BHC	36	3000		0.69 U	0.7 U	0.69 U	1.6 U
delta-BHC	40	500000		0.69 U	0.7 U	0.69 U	1.6 U
Dieldrin	5	1400		0.69 U	0.7 U	0.69 U	1.6 U
Endosulfan I	2400	200000		0.69 U	0.7 U	0.69 U	1.6 U
Endosulfan II	2400	200000		0.69 U	0.7 U	0.69 U	1.6 U
Endosulfan sulfate	2400	200000		0.69 U	0.7 U	0.69 U	1.6 U
Endrin aldehyde	--	--		0.69 U	0.7 U	0.69 U	1.6 U
Endrin ketone	--	--		0.69 U	0.7 U	0.69 U	1.6 U
Endrin	14	89000		0.69 U	0.7 U	0.69 U	1.6 U
gamma-BHC (Lindane)	100	9200		0.69 U	0.7 U	0.69 U	1.6 U
gamma-Chlordane	--	--		0.69 U	0.7 U	0.69 U	1.6 U
Heptachlor epoxide	--	--		0.69 U	0.7 U	0.69 U	1.6 U
Heptachlor	42	15000		0.69 U	0.7 U	0.69 U	1.6 U
Methoxychlor	--	--		1.4 U	1.4 U	1.4 U	3.1 U
Toxaphene	--	--		17 U	17 U	17 U	39 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards

Table 9. Summary of Pesticides in Soil, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Commercial Use	**Sample Designation:**	FB090811
			Sample Date:	9/8/2011
			Sample Depth (ft bls):	
4,4'-DDD	3.3	92000		0.01 U
4,4'-DDE	3.3	62000		0.01 U
4,4'-DDT	3.3	47000		0.01 U
Aldrin	5	680		0.01 U
alpha-BHC	20	3400		0.01 U
alpha-Chlordane	94	24000		0.01 U
beta-BHC	36	3000		0.01 U
delta-BHC	40	500000		0.01 U
Dieldrin	5	1400		0.01 U
Endosulfan I	2400	200000		0.01 U
Endosulfan II	2400	200000		0.01 U
Endosulfan sulfate	2400	200000		0.01 U
Endrin aldehyde	--	--		0.01 U
Endrin ketone	--	--		0.01 U
Endrin	14	89000		0.01 U
gamma-BHC (Lindane)	100	9200		0.01 U
gamma-Chlordane	--	--		0.01 U
Heptachlor epoxide	--	--		0.01 U
Heptachlor	42	15000		0.01 U
Methoxychlor	--	--		0.02 U
Toxaphene	--	--		0.25 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded and bold data indicates that parameter was detected above the NYSDEC Part 375 Commercial Standards

Table 10. Summary of Volatile Organic Compounds in Groundwater, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-1 9/9/2011	MW-2 9/9/2011	MW-3 9/9/2011	MW-4 9/9/2011	MW-4DUP 9/9/2011	TRIP BLANK 9/9/2011
1,1,1-Trichloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1		1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5		5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	5		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	5		2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6		1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	--		130 U	130 U	130 U	130 U	130 U	130 U
2-Butanone (MEK)	50		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone (MIBK)	--		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50		10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1		1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	5		5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50		4 U	4 U	4 U	4 U	4 U	4 U
Bromomethane	5		2 U	2 U	2 U	2 U	2 U	2 U
Carbon disulfide	60		2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	5		1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7		1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--		1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5		1 U	1 U	1 U	0.71 J	0.67 J	1 U
cis-1,3-Dichloropropene	5		1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	--		5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloropropane	--		10 U	10 U	10 U	10 U	10 U	10 U

Table 10. Summary of Volatile Organic Compounds in Groundwater, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-1 9/9/2011	MW-2 9/9/2011	MW-3 9/9/2011	MW-4 9/9/2011	MW-4DUP 9/9/2011	TRIP BLANK 9/9/2011
Dichlorodifluoromethane	5		5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
Freon 113	--		5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	5		2 U	2 U	2 U	2 U	2 U	2 U
m+p-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	--		5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	--		5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5		2 U	2 U	2 U	2 U	2 U	2 U
MTBE	10		1 U	2.6	0.93 J	1 U	1 U	1 U
o-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5		5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5		1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	--		1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5		5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	2		1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5		1 U	1 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 11. Summary of Semivolatile Organic Compounds in Groundwater, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FB-090911 9/9/2011	MW-1 9/9/2011	MW-2 9/9/2011	MW-3 9/9/2011	MW-4 9/9/2011	MW-4DUP 9/9/2011
1,1'-Biphenyl	--		1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U
1,2,4,5-Tetrachlorobenzene	--		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
2,2'-oxybis (1-chloropropane)	5		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
2,3,4,6-Tetrachlorophenol	--		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
2,4,5-Trichlorophenol	--		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
2,4,6-Trichlorophenol	--		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
2,4-Dichlorophenol	5		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
2,4-Dimethylphenol	50		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
2,4-Dinitrophenol	10		20 U	22 U	21 U	22 U	22 U	20 U
2,4-Dinitrotoluene	5		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
2,6-Dinitrotoluene	5		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
2-Chloronaphthalene	10		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
2-Chlorophenol	--		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
2-Methylnaphthalene	--		1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U
2-Methylphenol	--		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
2-Nitroaniline	5		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
2-Nitrophenol	--		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
3&4-Methylphenol	--		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
3,3'-Dichlorobenzidine	5		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
3-Nitroaniline	5		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
4,6-Dinitro-2-methylphenol	--		20 U	22 U	21 U	22 U	22 U	20 U
4-Bromophenyl phenyl ether	--		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
4-Chloro-3-methylphenol	--		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
4-Chloroaniline	5		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
4-Chlorophenyl phenyl ether	--		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
4-Nitroaniline	5		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
4-Nitrophenol	--		10 U	11 U	11 U	11 U	11 U	10 U
Acenaphthene	20		1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U
Acenaphthylene	20		1 U	1.1 U	1.1 U	1.1 U	2.9	2.7
Acetophenone	--		2 U	2.2 U	2.1 U	2.2 U	2.2 U	0.51 J
Anthracene	50		1 U	1.1 U	1.1 U	1.1 U	0.82 J	0.7 J
Atrazine	--		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
Benzaldehyde	--		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
Benzo[a]anthracene	0.002		1 U	1.1 U	1.1 U	1.1 U	**1.7**	**1.2**
Benzo[a]pyrene	0		1 U	1.1 U	1.1 U	1.1 U	**5**	**3.6**
Benzo[b]fluoranthene	0.002		1 U	1.1 U	1.1 U	1.1 U	**2.8**	**2**
Benzo[g,h,i]perylene	--		1 U	1.1 U	1.1 U	1.1 U	3	3
Benzo[k]fluoranthene	0.002		1 U	1.1 U	1.1 U	1.1 U	**2.1**	**1.6**

Table 11. Summary of Semivolatile Organic Compounds in Groundwater, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FB-090911 9/9/2011	MW-1 9/9/2011	MW-2 9/9/2011	MW-3 9/9/2011	MW-4 9/9/2011	MW-4DUP 9/9/2011
Bis(2-chloroethoxy)methane	5		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Bis(2-chloroethyl) ether	--		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Bis(2-ethylhexyl) phthalate	5		2 U	2.2 U	2.1 U	2.2 U	2.2 U	**14.2**
Butylbenzyl phthalate	50		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Caprolactam	--		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Carbazole	--		1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U
Chrysene	0.002		1 U	1.1 U	1.1 U	1.1 U	**2.3**	**1.6**
Dibenzo[a,h]anthracene	--		1 U	1.1 U	1.1 U	1.1 U	0.65 J	0.56 J
Dibenzofuran	--		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
Diethyl phthalate	50		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Dimethyl phthalate	50		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Di-n-butyl phthalate	50		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Di-n-octyl phthalate	--		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Fluoranthene	50		1 U	1.1 U	1.1 U	1.1 U	6.3	4.5
Fluorene	50		1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U
Hexachlorobenzene	0.04		1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U
Hexachlorobutadiene	0.5		1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U
Hexachlorocyclopentadiene	5		20 U	22 U	21 U	22 U	22 U	20 U
Hexachloroethane	5		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Indeno[1,2,3-cd]pyrene	0.002		1 U	1.1 U	1.1 U	1.1 U	**1.8**	**1.6**
Isophorone	50		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Naphthalene	10		1 U	1.1 U	1.1 U	1.1 U	0.56 J	0.48 J
Nitrobenzene	0.4		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
n-Nitrosodi-n-propylamine	--		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
n-Nitrosodiphenylamine	50		5 U	5.6 U	5.3 U	5.6 U	5.6 U	5 U
Pentachlorophenol	1		10 U	11 U	11 U	11 U	11 U	10 U
Phenanthrene	50		1 U	1.1 U	1.1 U	1.1 U	0.52 J	0.43 J
Phenol	1		2 U	2.2 U	2.1 U	2.2 U	2.2 U	2 U
Pyrene	50		1 U	1.1 U	1.1 U	1.1 U	10.6	7.6

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available

Table 11. Summary of Semivolatile Organic Compounds in Groundwater, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	FB-090911	MW-1	MW-2	MW-3	MW-4	MW-4DUP
		Sample Date:	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011

Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 12. Summary of Metals in Groundwater, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	FB-090911 9/9/2011	MW-1 9/9/2011	MW-1 9/9/2011 Filtered	MW-2 9/9/2011	MW-2 9/9/2011 Filtered	MW-3 9/9/2011	MW-3 9/9/2011 Filtered
Aluminum	--		200 U	5310	200 U	1920	200 U	566	200 U
Antimony	3		6 U	6 U	6 U	6 U	6 U	6 U	6 U
Arsenic	25		3 U	3 U	3 U	5.2	6.1	3 U	5.5
Barium	1000		200 U	200 U	200 U	411	410	470	533
Beryllium	3		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	5		3 U	3 U	3 U	3 U	3 U	3 U	3 U
Calcium	--		5000 U	72400	79300	156000	170000	211000	235000
Chromium	50		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cobalt	--		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Copper	200		10 U	10 U	10 U	22.2	10 U	21.4	10 U
Iron	--		100 U	6140	100 U	4840	2780	2130	727
Lead	25		3 U	7.3	3 U	**120**	3 U	**34.4**	15 U
Magnesium	--		5000 U	18200	19100	28700	31000	63300	72200
Manganese	300		15 U	**593**	**326**	**4110**	**4290**	**781**	**850**
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Potassium	--		10000 U	10000 U	10000 U	12300	14200	73800	87900
Selenium	10		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	20000		10000 U	**87600**	**91500**	**157000**	**183000**	**952000**	**1130000**
Thallium	0.5		2 U	2 U	2 U	2 U	2 U	2 U	10 U
Vanadium	--		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Zinc	2000		20 U	22.7	20 U	105	20 U	60	20 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 12. Summary of Metals in Groundwater, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-4 9/9/2011	MW-4 9/9/2011 Filtered	MW-4DUP 9/9/2011	MW-4DUP 9/9/2011 Filtered
Aluminum	--		2360	200 U	1160	200 U
Antimony	3		6 U	30 U	6 U	6 U
Arsenic	25		4.9	15 U	3 U	3.2
Barium	1000		200 U	200 U	200 U	200 U
Beryllium	3		1 U	1 U	1 U	1 U
Cadmium	5		3 U	15 U	3 U	3 U
Calcium	--		128000	146000	127000	145000
Chromium	50		10 U	10 U	10 U	10 U
Cobalt	--		50 U	250 U	50 U	50 U
Copper	200		47.1	10 U	29	10 U
Iron	--		8430	1260	4320	1040
Lead	25		**89.7**	15 U	**38.8**	15 U
Magnesium	--		225000	254000	224000	252000
Manganese	300		105	**706**	86	**372**
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100		50 U	50 U	50 U	50 U
Potassium	--		100000	109000	98500	109000
Selenium	10		10 U	50 U	10 U	10 U
Silver	50		10 U	10 U	10 U	10 U
Sodium	20000		**1930000**	**2160000**	**1940000**	**2060000**
Thallium	0.5		10 U	10 U	10 U	10 U
Vanadium	--		50 U	50 U	50 U	50 U
Zinc	2000		113	100 U	56.9	20 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 13. Summary of Volatile Organic Compounds in Soil Vapor, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in ug/m^3)	**Sample Designation:**	AMB-090911	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6
	Sample Date:	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011
1,1,1-Trichloroethane		1.1 U	9.5 U	37 U	11 U	18 U	11 U	15 U
1,1,2,2-Tetrachloroethane		1.4 U	12 U	46 U	14 U	23 U	14 U	19 U
1,1,2-Trichloroethane		1.1 U	9.5 U	37 U	11 U	18 U	11 U	15 U
1,1-Dichloroethane		0.81 U	7 U	27 U	8.1 U	14 U	8.1 U	11 U
1,1-Dichloroethene		0.79 U	6.9 U	27 U	7.9 U	13 U	7.9 U	11 U
1,2,4-Trichlorobenzene		3.7 U	32 U	120 U	37 U	62 U	37 U	52 U
1,2,4-Trimethylbenzene		**1.6**	8.6 U	33 U	**10**	16 U	9.8 U	**32**
1,2-Dibromoethane		1.5 U	13 U	52 U	15 U	26 U	15 U	21 U
1,2-Dichlorobenzene		1.2 U	10 U	40 U	12 U	20 U	12 U	17 U
1,2-Dichloroethane		0.81 U	7 U	27 U	8.1 U	14 U	8.1 U	11 U
1,2-Dichloroethene (total)		0.79 U	6.9 U	27 U	7.9 U	13 U	7.9 U	11 U
1,2-Dichloropropane		**1.7**	8 U	31 U	9.2 U	15 U	9.2 U	13 U
1,3,5-Trimethylbenzene		0.98 U	8.6 U	33 U	9.8 U	16 U	9.8 U	**25**
1,3-Butadiene		0.44 U	3.8 U	15 U	4.4 U	7.4 U	4.4 U	6.2 U
1,3-Dichlorobenzene		1.2 U	10 U	40 U	12 U	20 U	12 U	17 U
1,4-Dichlorobenzene		1.2 U	10 U	40 U	12 U	20 U	12 U	17 U
1,4-Dioxane		18 U	160 U	610 U	180 U	300 U	180 U	250 U
2-Butanone (MEK)		**2.3**	**38**	**94**	**40**	**67**	**22**	**56**
2-Chlorotoluene		1 U	9 U	35 U	10 U	17 U	10 U	14 U
2-Hexanone		2 U	18 U	69 U	20 U	34 U	20 U	28 U
3-Chloropropene		1.6 U	14 U	53 U	16 U	26 U	16 U	22 U
4-Ethyltoluene		0.98 U	8.6 U	33 U	9.8 U	16 U	9.8 U	14 U
4-Methyl-2-pentanone (MIBK)		**3.6**	18 U	69 U	20 U	34 U	20 U	28 U
Acetone		**29**	**500**	**1400**	**870**	**1100**	**500**	**1100**
Benzene		**1.1**	5.6 U	21 U	6.4 U	11 U	6.4 U	8.9 U
Benzyl chloride		1 U	9 U	35 U	10 U	17 U	10 U	14 U
Bromodichloromethane		1.3 U	12 U	45 U	13 U	22 U	13 U	19 U
Bromoethene		0.87 U	7.6 U	29 U	8.7 U	15 U	8.7 U	12 U
Bromoform		2.1 U	18 U	69 U	21 U	35 U	21 U	29 U
Bromomethane		0.78 U	6.8 U	26 U	7.8 U	13 U	7.8 U	11 U
Butane		**2.8**	10 U	**40**	12 U	20 U	**19**	**26**
Carbon disulfide		**3**	**22**	**230**	**130**	**210**	**170**	**250**
Carbon tetrachloride		1.3 U	**16**	**4300**	**19**	21 U	**160**	17 U

Table 13. Summary of Volatile Organic Compounds in Soil Vapor, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in ug/m^3)	**Sample Designation:**	AMB-090911	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6
	Sample Date:	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011
Chlorobenzene		0.92 U	8 U	31 U	9.2 U	15 U	9.2 U	13 U
Chlorodifluoromethane		**2.6**	15 U	59 U	18 U	30 U	18 U	25 U
Chloroethane		1.3 U	11 U	44 U	13 U	22 U	13 U	18 U
Chloroform		0.98 U	**34**	**4300**	**120**	**29**	**1400**	**35**
Chloromethane		**1.8**	9 U	35 U	10 U	17 U	10 U	14 U
cis-1,2-Dichloroethene		0.79 U	6.9 U	27 U	7.9 U	13 U	7.9 U	11 U
cis-1,3-Dichloropropene		0.91 U	7.9 U	30 U	9.1 U	15 U	9.1 U	13 U
Cyclohexane		**1**	6 U	23 U	6.9 U	11 U	6.9 U	9.6 U
Dibromochloromethane		1.7 U	15 U	57 U	17 U	28 U	17 U	24 U
Dichlorodifluoromethane		**3.7**	22 U	83 U	25 U	41 U	25 U	34 U
Ethylbenzene		**1.4**	7.6 U	29 U	8.7 U	15 U	**10**	**19**
Freon 113		1.5 U	13 U	52 U	15 U	26 U	15 U	21 U
Freon 114		1.4 U	12 U	47 U	14 U	23 U	14 U	19 U
Hexachlorobutadiene		2.1 U	19 U	72 U	21 U	36 U	21 U	30 U
Isooctane		**1.4**	8.1 U	31 U	9.3 U	16 U	9.3 U	13 U
Isopropyl alcohol		**20**	110 U	410 U	120 U	210 U	120 U	170 U
Isopropylbenzene		0.98 U	8.6 U	33 U	9.8 U	16 U	9.8 U	**14**
m+p-Xylene		**4.2**	19 U	73 U	**23**	36 U	**31**	**61**
Methyl Methacrylate		2 U	18 U	69 U	20 U	34 U	20 U	28 U
Methylene chloride		**1.7**	15 U	58 U	17 U	29 U	17 U	24 U
MTBE		0.72 U	6.3 U	24 U	7.2 U	12 U	**8.1**	10 U
Naphthalene		2.6 U	23 U	88 U	26 U	44 U	26 U	36 U
n-Butylbenzene		1.1 U	9.6 U	37 U	11 U	18 U	11 U	15 U
n-Heptane		**1.6**	7.1 U	28 U	8.2 U	14 U	8.2 U	11 U
n-Hexane		**2.2**	6.1 U	24 U	7 U	**12**	**7.9**	**9.9**
n-Propylbenzene		0.98 U	8.6 U	33 U	9.8 U	16 U	9.8 U	14 U
o-Xylene		**1.6**	7.6 U	29 U	**9.6**	15 U	**15**	**33**
p-Isopropyltoluene		1.1 U	9.6 U	37 U	11 U	18 U	11 U	15 U
sec-Butylbenzene		1.1 U	9.6 U	37 U	11 U	18 U	11 U	15 U
Styrene		0.85 U	7.4 U	29 U	8.5 U	14 U	8.5 U	12 U
t-Butyl Alcohol		15 U	130 U	510 U	150 U	250 U	150 U	210 U
tert-Butylbenzene		1.1 U	9.6 U	37 U	11 U	18 U	11 U	15 U
Tetrachloroethene		1.4 U	**13**	**83**	**68**	23 U	**120**	**160**

Table 13. Summary of Volatile Organic Compounds in Soil Vapor, Devon Self Storage Facility, Staten Island, New York

Parameter (Concentrations in ug/m^3)	**Sample Designation:**	AMB-090911	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6
	Sample Date:	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011
Tetrahydrofuran		15 U	130 U	500 U	150 U	250 U	150 U	200 U
Toluene		**23**	**14**	25 U	**17**	**41**	**43**	**44**
trans-1,2-Dichloroethene		0.79 U	6.9 U	27 U	7.9 U	13 U	7.9 U	11 U
trans-1,3-Dichloropropene		0.91 U	7.9 U	30 U	9.1 U	15 U	9.1 U	13 U
Trichloroethene		1.1 U	**60**	**2100**	**33**	**23**	**880**	15 U
Trichlorofluoromethane		**1.6**	9.8 U	**45**	**140**	19 U	11 U	16 U
Vinyl chloride		0.51 U	4.4 U	17 U	5.1 U	8.5 U	5.1 U	7.1 U
Xylenes (total)		**5.7**	**23**	**36**	**33**	**22**	**46**	**94**

U - Indicates that the compound was analyzed for but not detected

ug/m^3 - Micrograms per cubic meter

Bold data indicates that parameter was detected

QUADRANGLE LOCATION

N

0 2000'

SOURCE:
USGS; 1995, ELIZABETH, NJ-NY
7.5 Minute Topographic Quadrangle

Title:

SITE LOCATION MAP

DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK 10303

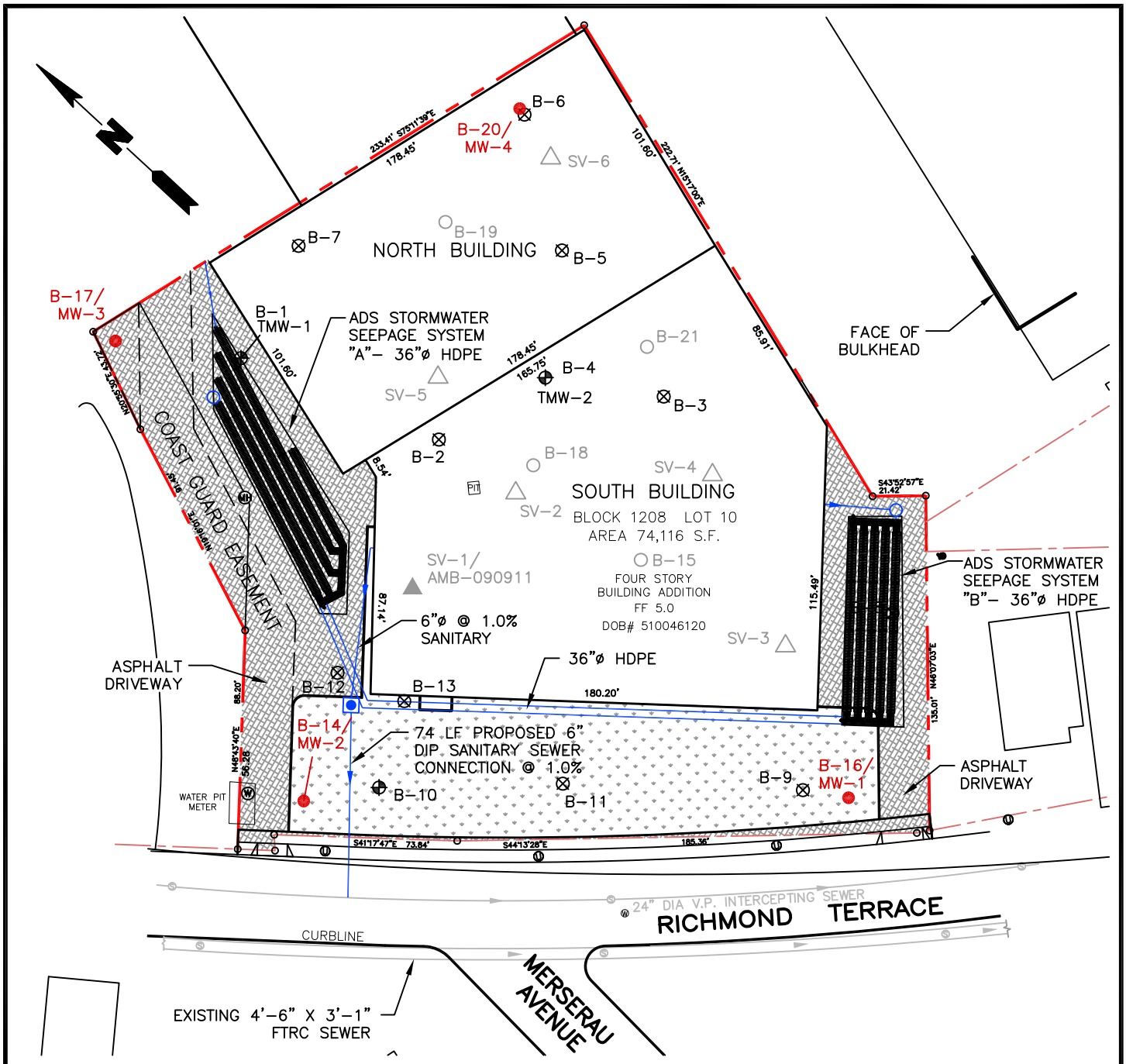
Prepared for:

DEVON SELF STORAGE HOLDINGS, LLC

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 08MAR12	FIGURE
Prepared by: J.A.D.	Scale: AS SHOWN	1
Project Mgr.: J.L.	Project No.: 2077.0001Y000	
File: 2077.0001Y102.01.CDR		

V:\CAD\PROJECTS\2077\0001Y102\2077.0001Y102.01.CDR



LEGEND

- SUBJECT PROPERTY BOUNDARY
- PHASE 2 SOIL BORING LOCATION
- PHASE 2 SOIL BORING LOCATION CONVERTED TO TEMPORARY MONITORING WELL
- RI COMBINED SOIL BORING/MONITORING WELL (4)
- RI SOIL BORING (SOIL SAMPLE ONLY) (5)
- RI SOIL VAPOR SAMPLE (5)
- RI SOIL VAPOR SAMPLE WITH INDOOR AIR SAMPLE (1)

SOURCE

STANTEC CONSULTANT SERVICES INC.
SITE DRAINAGE PLAN SDP-1

60' 0 60'

Title:

SITE PLAN WITH RI SAMPLE LOCATIONS

DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK 1303

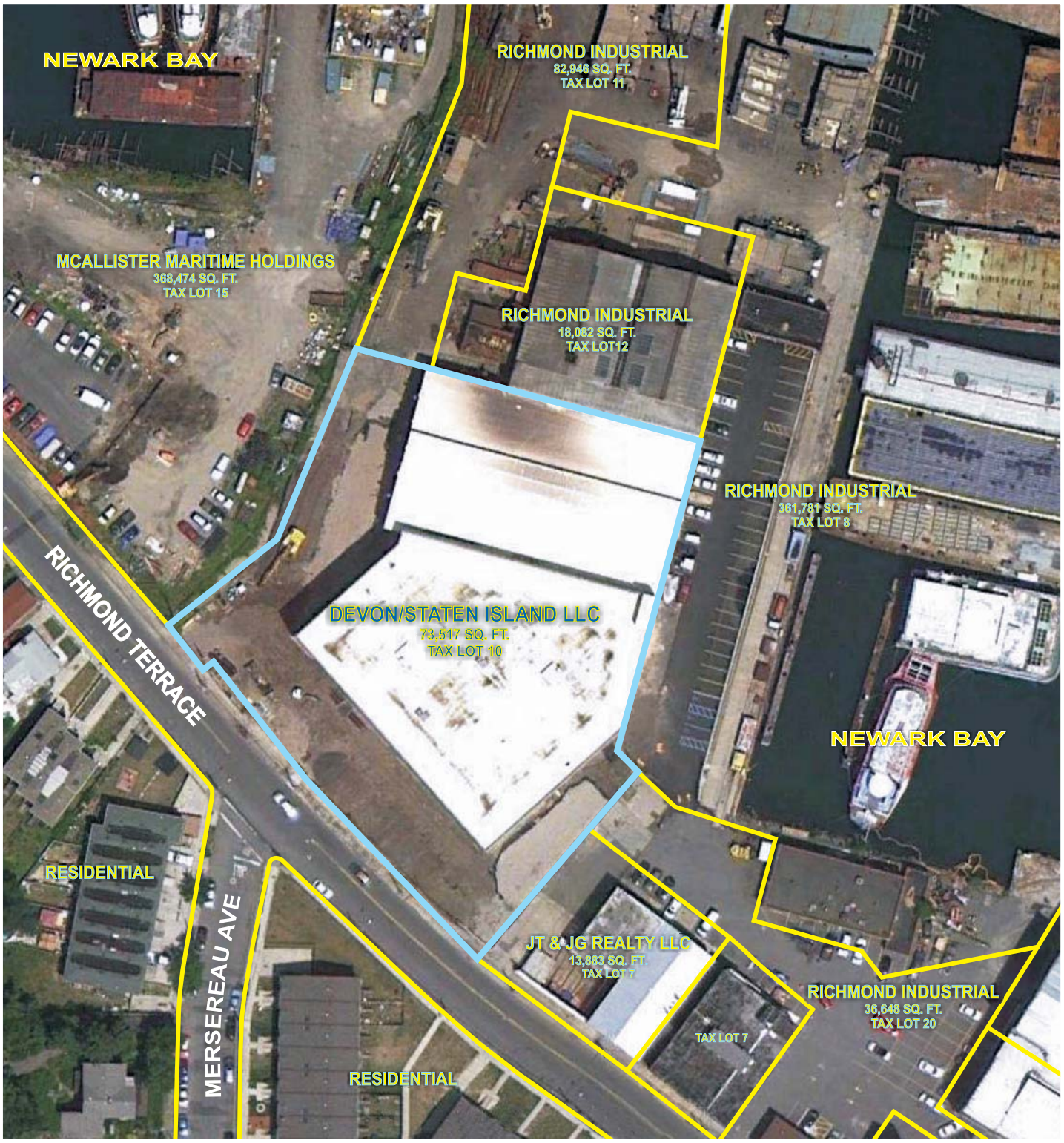
Prepared For:

DEVON SELF STORAGE HOLDINGS, LLC

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting and Management

Compiled by: J.L.	Date: 08MAR12	FIGURE
Prepared by: J.A.D.	Scale: AS SHOWN	2
Project Mgr: J.L.	Project: 2077.0001Y000	
File: 2077.0001Y102.02.DWG		

V:\CAD\PROJECTS\2077Y\0001Y\102\2077.0001Y102.02.DWG



N

0 100'

SOURCE:
GOOGLE EARTH, IMAGERY DATE: 2010

Title:

SURROUNDING LAND USES

DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK 10303

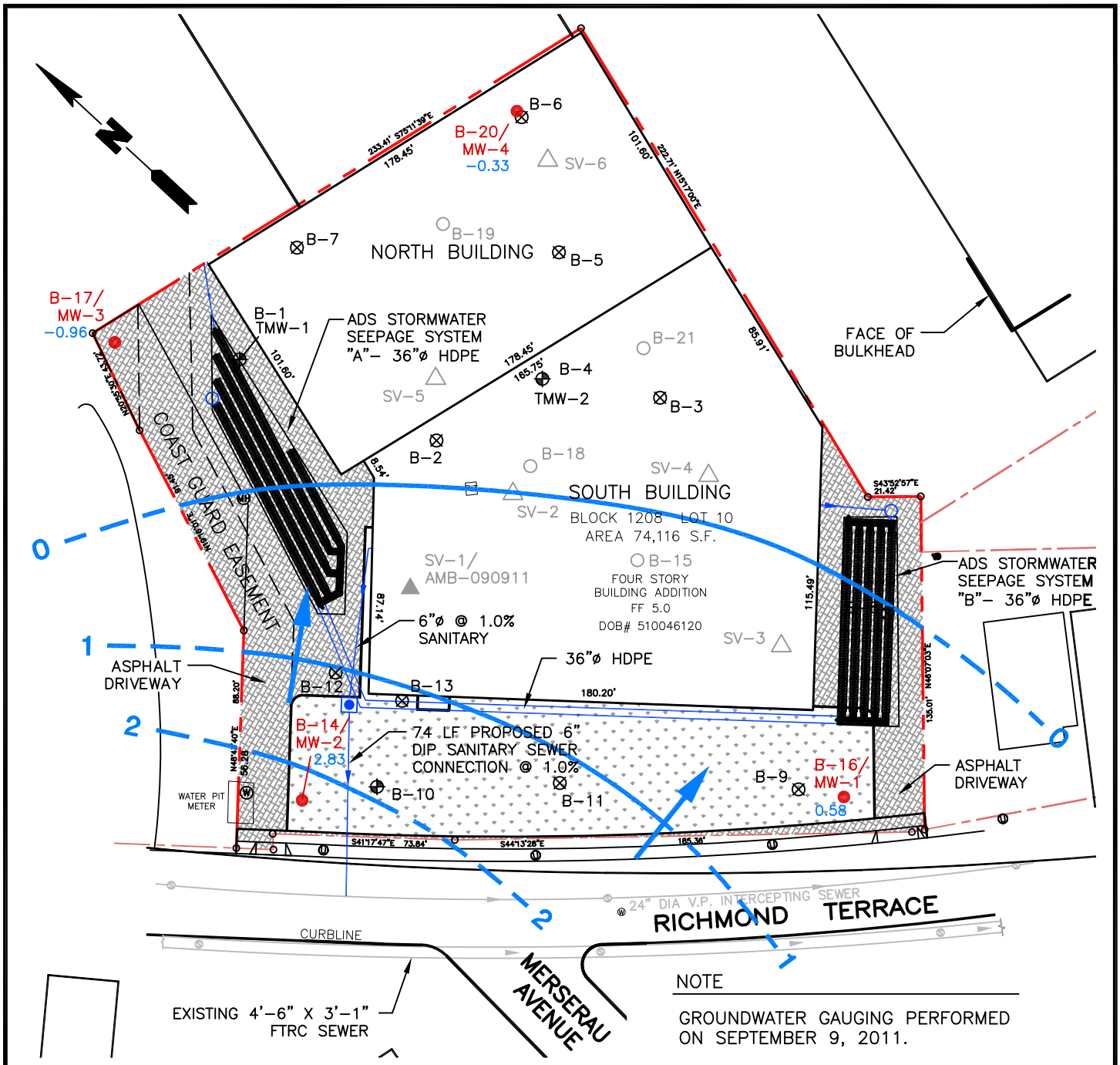
Prepared for:

DEVON SELF STORAGE HOLDINGS, LLC

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 08MAR12	FIGURE
Prepared by: J.A.D.	Scale: AS SHOWN	3
Project Mgr.: J.L.	Project No.: 2077.0001Y000	
File: 2077.0001Y102.05.CDR		

V:\CAD\PROJECTS\2077\0001Y102\2077.0001Y102.05.CDR



NOTE

GROUNDWATER GAUGING PERFORMED ON SEPTEMBER 9, 2011.

SOURCE

STANTEC CONSULTANT SERVICES INC.
SITE DRAINAGE PLAN SDP-1

60' 0 60'

LEGEND

- SUBJECT PROPERTY BOUNDARY
- PHASE 2 SOIL BORING LOCATION
- PHASE 2 SOIL BORING LOCATION CONVERTED TO TEMPORARY MONITORING WELL
- RI COMBINED SOIL BORING/MONITORING WELL (4)
- RI SOIL BORING (SOIL SAMPLE ONLY) (5)
- RI SOIL VAPOR SAMPLE (5)
- RI SOIL VAPOR SAMPLE WITH INDOOR AIR SAMPLE (1)
- 2 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

Title:

GROUNDWATER FLOW MAP SEPTEMBER 9, 2011

DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK 1303

Prepared For:

DEVON SELF STORAGE HOLDINGS, LLC

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting and Management

Compiled by: J.L.	Date: 08MAR12	FIGURE
Prepared by: J.A.D.	Scale: AS SHOWN	4
Project Mgr: J.L.	Project: 2077.0001Y000	
File: 2077.0001Y102.02.DWG		

V:\CAD\PROJECTS\2077Y\0001Y\102\2077.0001Y102.02.DWG

APPENDIX A

Redevelopment Design Drawings

DEVON SELF-STORAGE, LLC

DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK 10303

DEVON SELF-STORAGE, LLC
2000 POWELL STREET, SUITE 1240
EMERYVILLE, CALIFORNIA 94680

ZONING DATA

PER NEW YORK CITY ZONING RESOLUTION ARTICLE IV - CHAPTER 3 & 4

1. ZONING - M3-1 USE - 16 - STORAGE
   LOT : 1208 - LOT 10 & PART OF 9
   BIN : 5027380
   C.B. No. : 501
2. PARKING - 1 PER 2,000 S.F. OF FLOOR AREA
   105,480 S.F. (NEW CONSTRUCTION)
   REQUIRED: 53 SPACES
   1 PER 3 EMPLOYEES
   WHICHEVER WILL REQUIRE A LESSER NUMBER OF SPACES

NOTE: EXISTING BUILDING 36,244 S.F. PRIOR TO 1961 - NONE REQUIRED (ARTICLE IV C-4)

BUILDING DATA

NEW ADDITION CONSTRUCTION
PER NEW YORK CITY BUILDING CODE TITLE 27 / SUBCHAPTER 3
NOTE: EXISTING BUILDING B-1 PERMITTED USE, NO STRUCTURAL OR EGRESS CHANGES.

1. USE:

GROUP 16 - MODERATE HAZARD STORAGE
NOTE: OWNER STORAGE AGREEMENT DOES NOT ALLOW STORAGE OF ANY HAZARDOUS MATERIAL.

2. OCCUPANCY:

GROUP B-1 FIRE INDEX 3

3. CONSTRUCTION TYPE:

I-C (2 HR. PROTECTED) BUILDING; FULLY SPRINKLERED
FIRE RATINGS PER TABLE 3-4

EXTERIOR WALLS WITH AN EXTERIOR SEPARATION OF 30'-0" OR MORE:	BEARING:	2 HRS.
	NON-BEARING:	0 HRS.
EXTERIOR OPENINGS:		NO LIMIT
INTERIOR BEARING WALLS AND BEARING PARTITIONS:		2 HRS.
ENCLOSURE OF VERTICAL EXITS, EXIT PASSAGEWAYS, HOISTWAYS AND SHAFTS		2 HRS.
FIRE DIVISIONS AND FIRE SEPARATIONS		3 HRS.
COLUMNS, GIRDERS, TRUSSES (OTHER THAN ROOF TRUSSES) AND FRAMING - SUPPORTING MORE THAN 1 FLOOR		2 HRS.
STRUCTURAL MEMBERS SUPPORTING A WALL		2 HRS.
FLOOR CONSTRUCTION INCLUDING BEAMS		1 1/2 HRS.
ROOF CONSTRUCTION, INCLUDING BEAMS, TRUSSES AND FRAMING, INCLUDING ARCHES, DOMES SHELLS, CABLE SUPPORTED ROOFS AND ROOF DECKS - (15'-0" OR LESS IN HEIGHT ABOVE FLOOR FLOOR TO LOWEST MEMBER)		1 HRS.

4. AREA AND HEIGHT LIMITATIONS:

TABLE 4-2 (BUILDING: FULLY SPRINKLERED)

AREA:	NO LIMIT
HEIGHT:	7 (STORIES)

5. FIRE DIVISION:

TABLE 5-2

OCCUPANCY B-1 TO B-1:	3 HRS.

6. EGRESS REQUIREMENTS:

TABLE 6-1
(STORAGE B-1 SPRINKLERED)

A. MAXIMUM TRAVEL DISTANCE:	150 FT.
B. CAPACITY NUMBER OF PERSONS PER UNIT WIDTH (UNIT OF WIDTH = 22 INCHES)	
TO OUTDOORS AT GRADE:	75 PEOPLE
OTHER EXITS AND CORRIDOR DOORS:	60 PEOPLE
STAIRS:	45 PEOPLE
CORRIDORS, PASSAGEWAYS AND HORIZONTAL EXITS:	75 PEOPLE
C. CORRIDORS:	
MINIMUM WIDTH:	36 INCHES
MAXIMUM DEAD END:	50 FT.
OCCUPANCY:	
TABLE 6-2	
STORAGE ROOMS:	1 PER 200 S.F.
ACTUAL:	MAX. 1 PER 2,000 S.F. = 52 PEOPLE TOTAL BUILDING

LIST OF DRAWINGS

- ARCHITECTURAL -
CS - COVER SHEET
SP1 - SITE PLAN
A1 - FIRST FLOOR PLAN
A2 - SECOND FLOOR PLAN
A3 - THIRD FLOOR / ROOF PLAN AND DETAILS
A4 - BUILDING ELEVATIONS AND SECTIONS
A5 - ELEVATOR SECTIONS
A6 - STAIR SECTIONS AND PLANS
A7 - A.D.A. TOILET LAYOUT PLAN, SECTIONS AND DETAILS
A8 - ENLARGED OFFICE PLANS
A9 - OFFICE INTERIOR ELEVATIONS
A10 - DETAILS, SCHEDULES AND SYMBOL LEGEND
A11 - UNIT CONSTRUCTION

- STRUCTURAL -
S1 - FIRST FLOOR AND FOUNDATION PLAN
S2 - FIRST FLOOR AND FOUNDATION PLAN
S3 - SECTIONS AND SCHEDULE
S4 - TYPICAL DETAILS AND GENERAL NOTES

- SUPERSTRUCTURE -
- PER OWNER'S SEPARATE CONTRACT -
S2.1 - FIRST FLOOR FRAMING PLAN
S2.2 - SECOND FLOOR FRAMING PLAN
S2.3 - THIRD FLOOR FRAMING PLAN
S2.4 - FOURTH FLOOR FRAMING PLAN
S2.5 - ROOF FRAMING PLAN
S3.0 - GENERAL NOTES AND SCHEDULES
S3.1 - SECTIONS AND DETAILS

- MECHANICAL -
M1.01 - SPECIFICATIONS
M1.02 - SYMBOL LIST AND ABBREVIATIONS
M2.01 - FIRST AND SECOND FLOOR PLANS
M2.02 - THIRD AND FOURTH FLOOR PLANS
M2.03 - PARTIAL PLANS
M3.01 - DETAILS
M4.01 - SCHEDULES

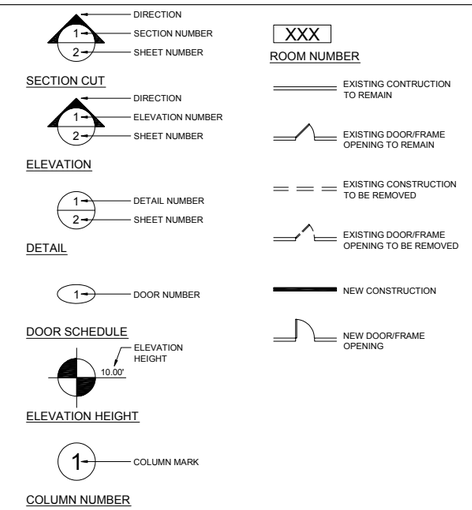
- PLUMBING -
P1.01 - LEGEND, SCHEDULES AND DETAILS
P1.02 - SPECIFICATIONS
P2.01 - FIRST FLOOR AND PARTIAL PLANS
P2.02 - SECOND AND THIRD FLOOR PLANS
P2.03 - FOURTH FLOOR AND ROOF PLANS
P3.01 - RISER DIAGRAMS

- ELECTRICAL -
E1.01 - SPECIFICATIONS, SYMBOL LIST AND GENERAL NOTES
E2.01 - FIRST AND SECOND FLOOR PLANS
E2.02 - THIRD AND FOURTH FLOOR PLANS, FIXTURE SCHEDULE AND SINGLE LINE DIAGRAM
E2.03 - SITE PLAN AND PARTIAL PLANS
E3.01 - PANEL SCHEDULES

- FIRE PROTECTION -
FP1.01 - SPECIFICATIONS, LEGEND, NOTES, SCHEDULE AND DETAILS
FP2.01 - FIRST AND SECOND FLOOR SPRINKLER SYSTEM PLANS
FP2.02 - THIRD AND FOURTH FLOOR SPRINKLER SYSTEM PLANS

- CIVIL -
BP-1 - BUILDERS PAVEMENT PLAN
SP-1 - SITE PLAN
SDP-1 - SITE DRAINAGE PLAN
SUP-1 - SITE UTILITY PLAN
SEC-1 - SOIL EROSION CONTROL PLAN

LIST OF SYMBOLS



LIST OF ABBREVIATIONS

A.D.	ACCESS DOOR	FLR.	FLOOR	PTD.	PAINTED
A.P.	ACCESS PANEL	F.D.	FLOOR DRAIN	PNL	PANEL
AC.T.	ACOUSTIC TILE	FTG.	FOOTING	PART.	PARTITION
A.C.	AIR CONDITIONER	FDN.	FOUNDATION	PL./PL	PLATE
ALUM.	ALUMINUM			PLAT.	PLATFORM
		GA.	GAUGE	PLMB.	PLUMBING (PLUMBER)
BSMT.	BASEMENT	GALV.	GALVANIZED	PLWD.	PLYWOOD
BLK.	BLOCK	G.S.	GALVANIZED STEEL	PT.	POINT
BD.	BOARD	G.C.	GENERAL CONTRACTOR	LB/#	POUND
BOT.	BOTTOM	GR.	GRADE		
BRK.	BRICK	GRND.	GROUNDED	RECT.	RECTANGULAR
BLDG.	BUILDING	GYP.	GYPSUM	REINF.	REINFORCED
B.L.	BUILDING LINE			R.H.	RIGHT HAND
		HDWD.	HARD WOOD	R.	RISER
CAB.	CABINET	HT.	HEIGHT	RD.	ROAD
CLG.	CEILING	H.P.	HIGH POINT	R.D.	ROOF DRAIN
		H.M.	HOLLOW METAL	RM.	ROOM
CER.T.	CERAMIC TILE	HOR.	HORIZONTAL	R.O.	ROUGH OPENING
CLR.	CLEAR	H.W.	HOT WATER		
CLO.	CLOSET	HR.	HOUR	SERV.	SERVICE
C.W.	COLD WATER			SHT.	SHEET
COL.	COLUMN	IN/"	INCH	S.	SOUTH
CONC.	CONCRETE	INS.	INSULATED (INSULATION)	SPEC.	SPECIFICATIONS
C.M.U.	CONC. MASONRY UNIT	INT.	INTERIOR	SPR.	SPRINKLER
CONST.	CONSTRUCTION			SQ.	SQUARE
CONT.	CONTINUOUS	J.C.	JANITOR'S CLOSET	SSTL.	STAINLESS STEEL
CONTR.	CONTRACTOR	JT.	JOINT	STD.	STANDARD
C.J.	CONTROL JOINT			STL.	STEEL
CORR.	CORRIDOR	K.P.	KICK PLATE	ST.	STREET
				STRUC.	STRUCTURE
DEPT.	DEPARTMENT	LDG.	LANDING	SUSP.	SUSPENDED
DET.	DETAIL	L.H.	LEFT HAND		
DIA.	DIAMETER	LT.	LIGHT	THK.	THICK
DIM.	DIMENSION			THRU.	THROUGH
DIV.	DIVISION	MACH.	MACHINE	T.&G.	TONGUE & GROOVE
DN.	DOWN	M.H.	MANHOLE	T.	TREAD
DR.	DOOR	MFR.	MANUFACTURER	TYP.	TYPICAL
DWG.	DRAWING	M.O.	MASONRY OPENING		
		MAX.	MAXIMUM	U.H.	UNIT HEATER
E.	EAST	MECH.	MECHANICAL		
ELEC.	ELECTRICAL	MET.	METAL	VAR.	VARIABLE
EL.	ELEVATION	MEZ.	MEZZANINE	V.	VENT
ELEV.	ELEVATOR	MIN.	MINIMUM	V.P.	VENT PIPE
ENGR.	ENGINEER	MISC.	MISCELLANEOUS	VERT.	VERTICAL
EQUIP.	EQUIPMENT			VEST.	VESTIBULE
EST.	ESTIMATED	NOM.	NOMINAL		
EXIST.	EXISTING	N.	NORTH	WT.	WEIGHT
EJ	EXPANSION JOINT	NO/#	NUMBER	W.	WEST
EXT.	EXTERIOR			WDW.	WINDOW
		O.C.	ON CENTER	WD.	WOOD
FT.	FEET	OPG.	OPENING		
FIN.	FINISH	OZ.	OUNCE		
F.F.	FINISHED FLOOR	O.A.	OVERALL		
F.E.	FIRE EXTINGUISHER	OVHD.	OVERHEAD		

LOCATION MAP

S:\2006 Projects\06112 DSS 3131 Richmond Terrace Staten Island\Photos\Staten Island&map

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE. RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:
Paul D. Remus
CT - 8232 MO - 8177
DE - 6185 NJ - C-5880
FL - AR13293 NY - 12406
MA - 8268 PA - 4538
MD - 8170

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
COVER SHEET

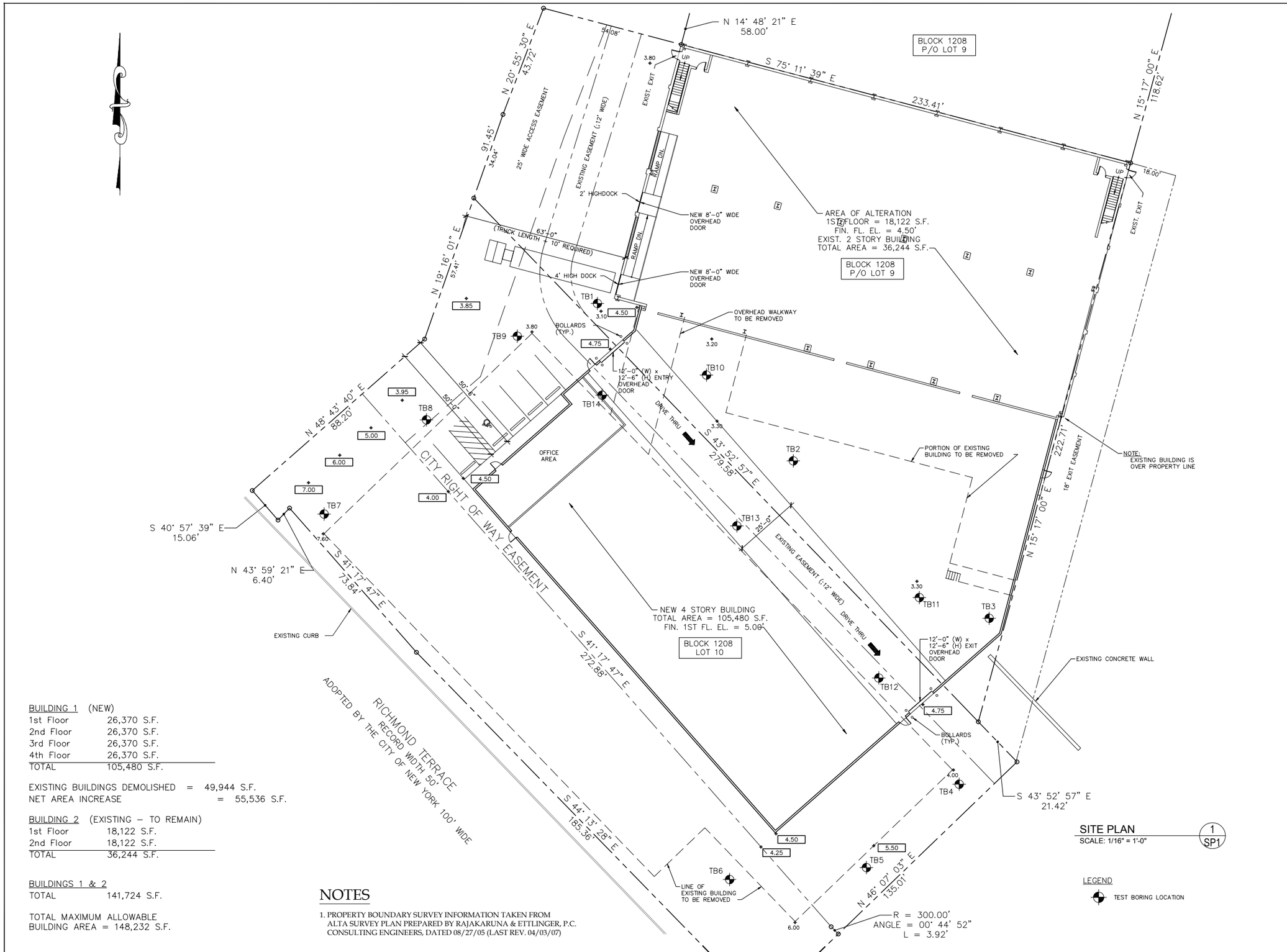
Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number:

CS

4/9/2008 9:13:45 AM, DWF6 ePlot.pc3



BUILDING 1 (NEW)

1st Floor	26,370 S.F.
2nd Floor	26,370 S.F.
3rd Floor	26,370 S.F.
4th Floor	26,370 S.F.
TOTAL	105,480 S.F.

EXISTING BUILDINGS DEMOLISHED = 49,944 S.F.
NET AREA INCREASE = 55,536 S.F.

BUILDING 2 (EXISTING – TO REMAIN)

1st Floor	18,122 S.F.
2nd Floor	18,122 S.F.
TOTAL	36,244 S.F.

BUILDINGS 1 & 2
TOTAL 141,724 S.F.

TOTAL MAXIMUM ALLOWABLE BUILDING AREA = 148,232 S.F.

NOTES

1. PROPERTY BOUNDARY SURVEY INFORMATION TAKEN FROM ALTA SURVEY PLAN PREPARED BY RAJAKARUNA & ETTLINGER, P.C. CONSULTING ENGINEERS, DATED 08/27/05 (LAST REV. 04/03/07)

SITE PLAN (1 / SP1)
SCALE: 1/16" = 1'-0"

LEGEND
TEST BORING LOCATION

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527

P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

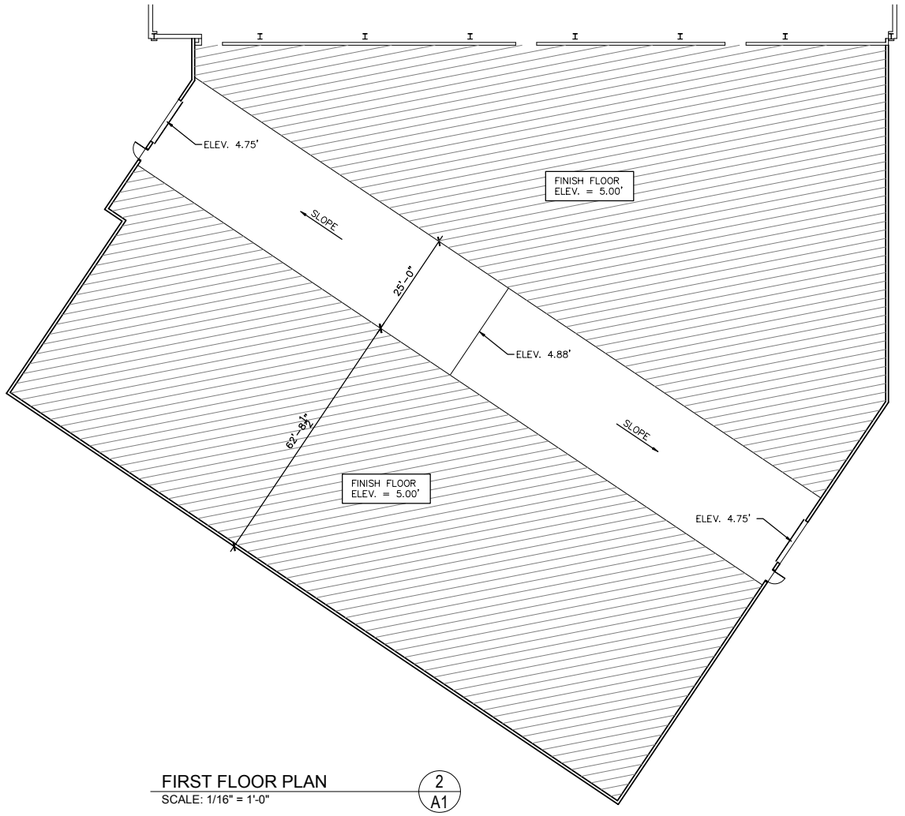
Sheet Title:
SCHEMATIC
SITE PLAN & TEST
BORING LOCATIONS

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

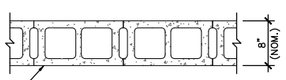
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: SP1

4/9/2008 9:14:43 AM, DWF6 ePlot.pc3

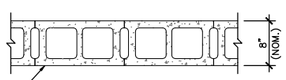


FIRST FLOOR PLAN (2 / A1)
SCALE: 1/16" = 1'-0"



8" CONCRETE BLOCK OF EXPANDED SLAG OR PUMICE, 4" EQUIVALENT THICKNESS. BLOCKS SHALL BE LAID IN FULL BED OF MORTAR, 13mm THICK, OF 3 PARTS CLEAN AND SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND 15% HYDRATED LIME (BY CEMENT VOLUME. VERTICAL JOINTS STAGGERED).

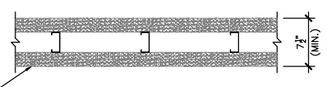
DETAIL UL DESIGN U904 (3 HR.) (C / A1)
SCALE: N.T.S.



8" CONCRETE BLOCK OF LIMESTONE, CINDERS OR SLAG OF 4" / EXPANDED CLAY, SHALE OR SLATE OF 3.6" / EXPANDED SLAG OR PUMICE OF 3.2" EQUIVALENT THICKNESS, BLOCK SHALL BE LAID IN FULL BED OF MORTAR, 13mm THICK, OF 3 PARTS CLEAN AND SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND 15% HYDRATED LIME (BY CEMENT VOLUME. VERTICAL JOINTS STAGGERED).

DETAIL UL DESIGN U905 (2 HR.) (D / A1)
SCALE: N.T.S.

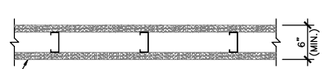
NOTE:
ALL OPENINGS, PENETRATIONS, ETC. IN FIRE RATED PARTITION WALLS SHALL BE EQUAL TO THE RATING OF THE FIRE RATED PARTITION WALLS. USE SEALANTS, COLLARS, ETC. AS REQ'D. DEPENDENT UPON PENETRATION.



FOUR LAYERS OF 1/2" FIRE-SHIELD C GYPSUM WALLBOARD SCREW ATTACHED TO EACH SIDE OF (MIN.) 3 1/2" – 20 GAUGE STEEL STUDS @ 16" O.C., STUDS LATERALLY BRACED AND FASTENED TO TRACKS. BASE, SECOND AND THIRD LAYERS APPLIED VERTICAL, FACE LAYER MAY BE APPLIED EITHER HORIZONTAL OR VERTICAL. ALL WALLBOARD JOINTS STAGGERED FROM JOINTS IN ADJACENT LAYERS AND ON OPPOSITE SIDES OF STUDS.

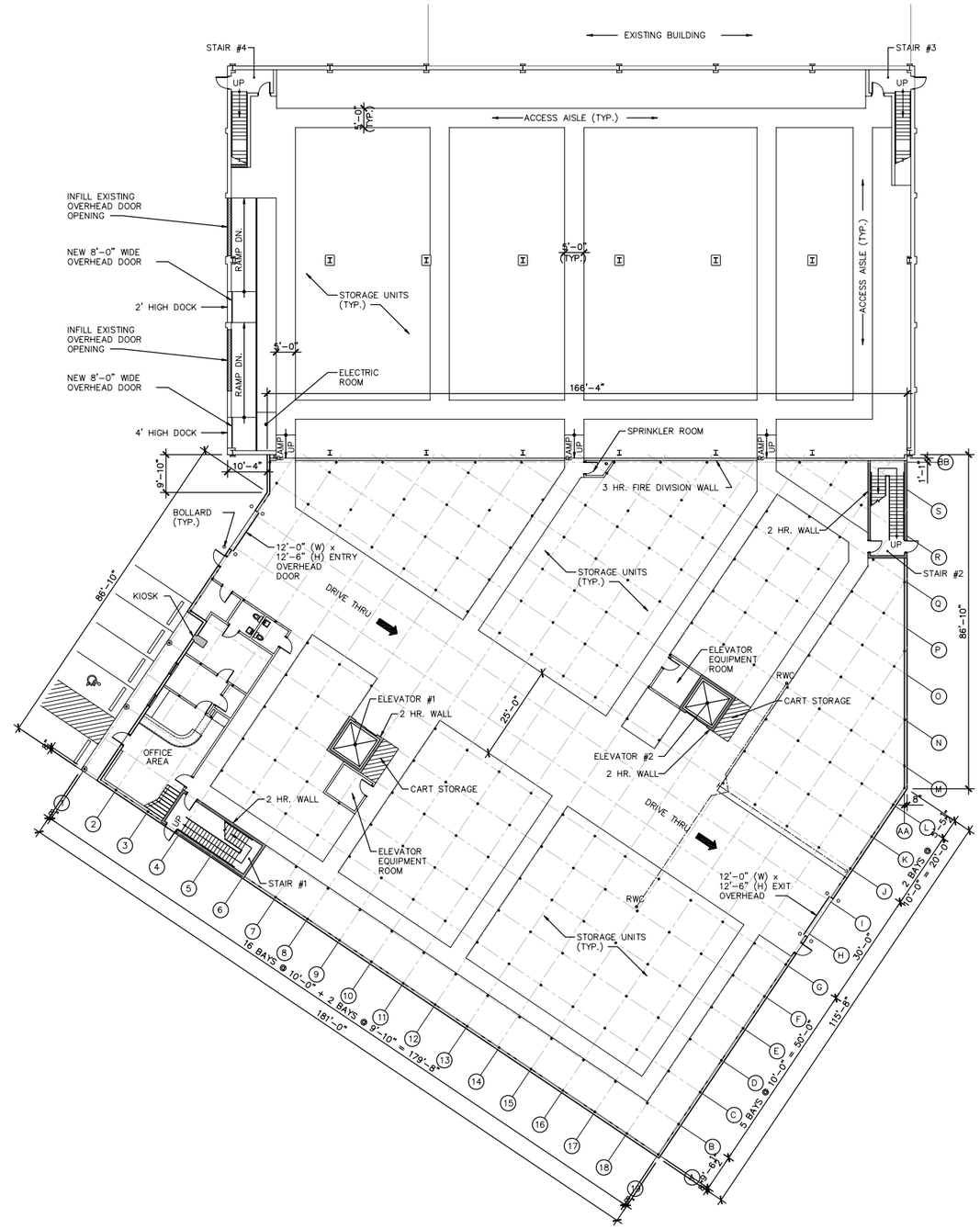
DETAIL UL DESIGN U246 (3 HR.) (A / A1)
SCALE: N.T.S.

NOTE:
ALL OPENINGS, PENETRATIONS, ETC. IN FIRE RATED PARTITION WALLS SHALL BE EQUAL TO THE RATING OF THE FIRE RATED PARTITION WALLS. USE SEALANTS, COLLARS, ETC. AS REQ'D. DEPENDENT UPON PENETRATION.



TWO LAYERS 5/8" FIRE-SHIELD GYPSUM WALLBOARD SCREW ATTACHED VERTICALLY TO EACH SIDE OF 3 1/2" – 20 GAUGE STEEL STUDS @ 24" O.C., STUDS LATERALLY BRACED AND FASTENED TO TRACKS. ALL WALLBOARD JOINTS STAGGERED ON OPPOSITE SIDES. (TESTED AT 80 PERCENT OF DESIGN LOAD)

DETAIL UL DESIGN U425 (2 HR.) (B / A1)
SCALE: N.T.S.



FIRST FLOOR PLAN (1 / A1)
SCALE: 1/16" = 1'-0"

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232 MO - 8177
DE - 6185 NJ - C-5880
FL - AR13293 NY - 12406
MA - 8268 PA - 4538
MD - 8170

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527

P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

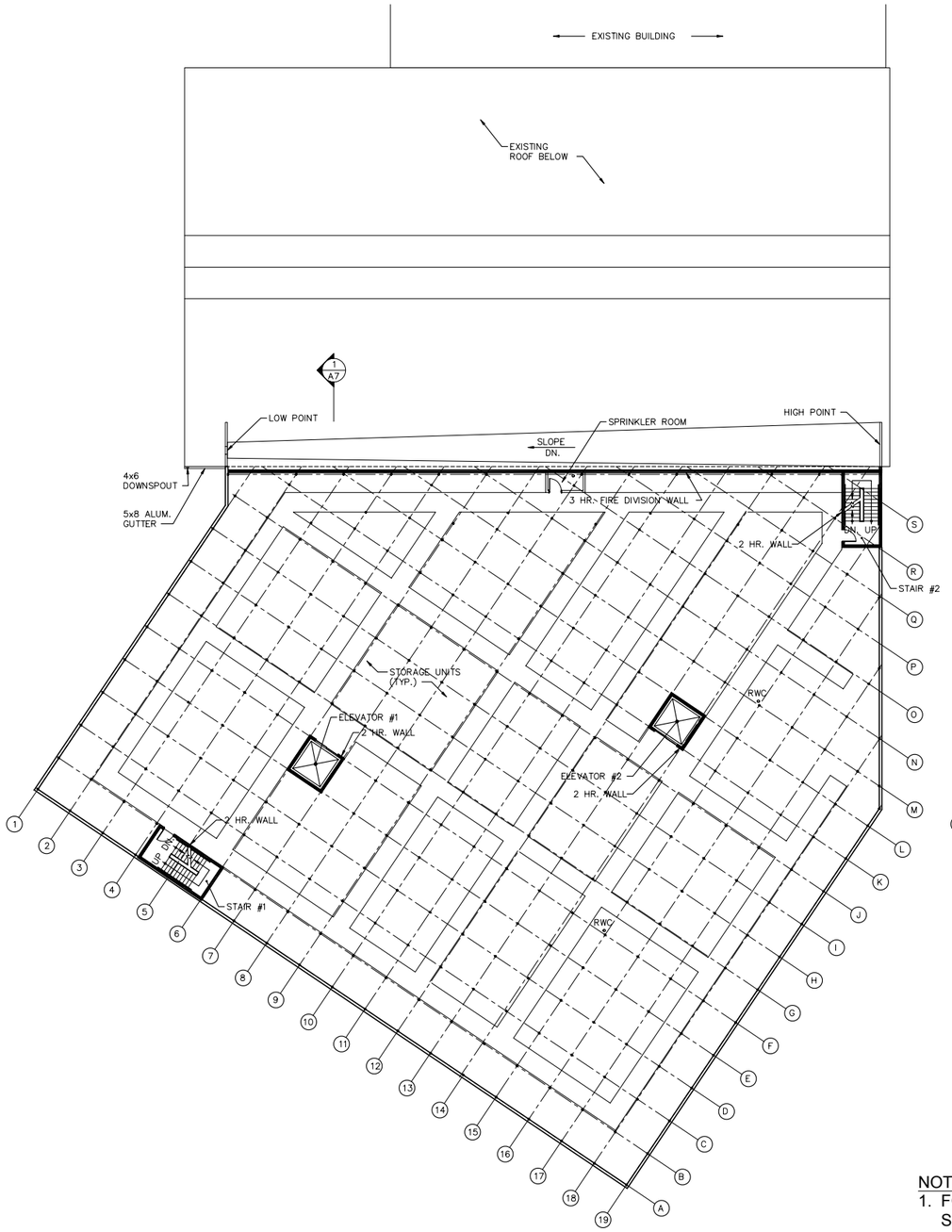
Sheet Title:
FIRST FLOOR PLAN AND FIRE RATED WALL DETAILS

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

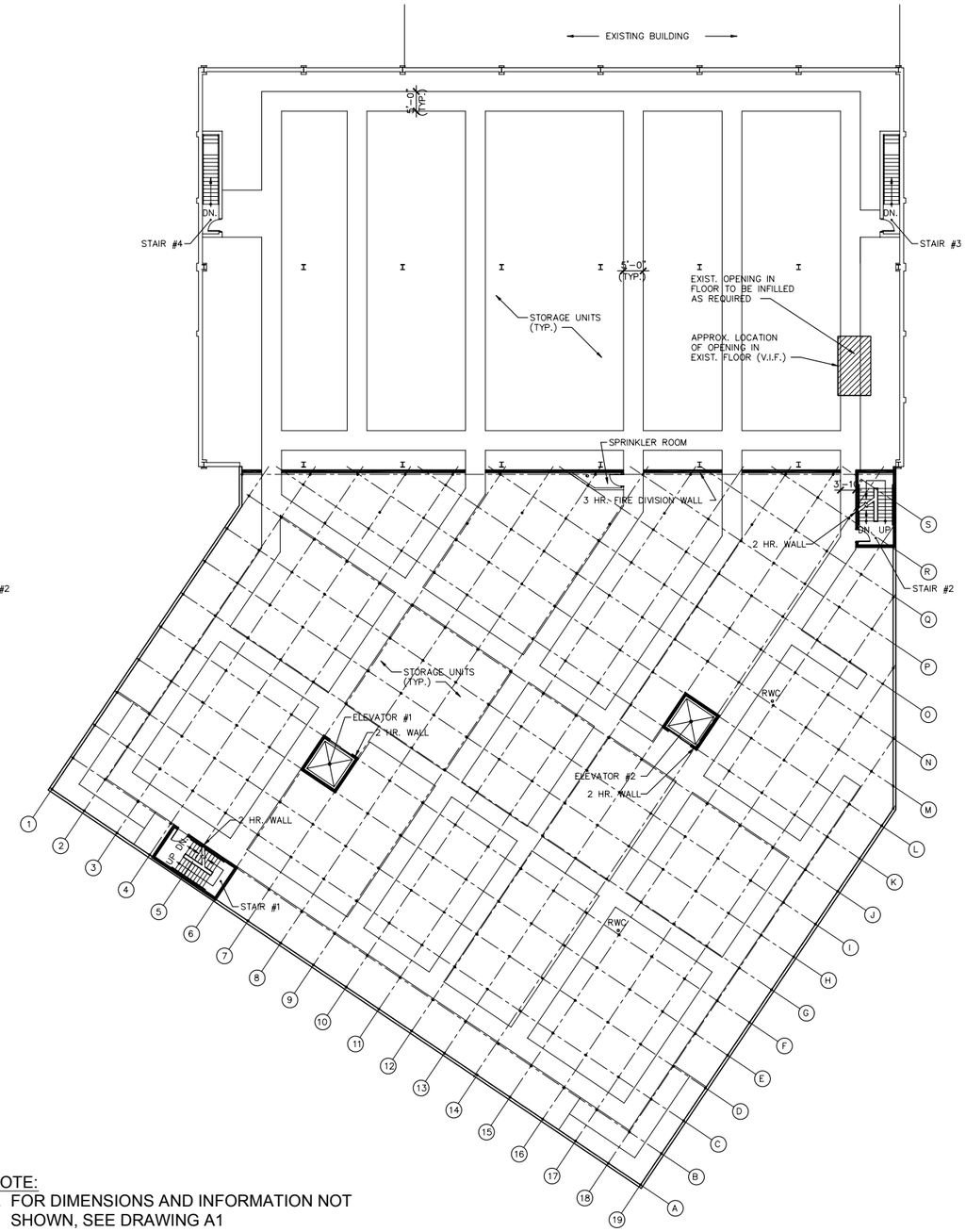
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: A1

4/9/2008 8:24:17 AM, DWF6 ePlot.pc3



THIRD FLOOR PLAN 2/A2
SCALE: 1/16" = 1'-0"



SECOND FLOOR PLAN 1/A2
SCALE: 1/16" = 1'-0"

NOTE:
1. FOR DIMENSIONS AND INFORMATION NOT SHOWN, SEE DRAWING A1

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE. RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

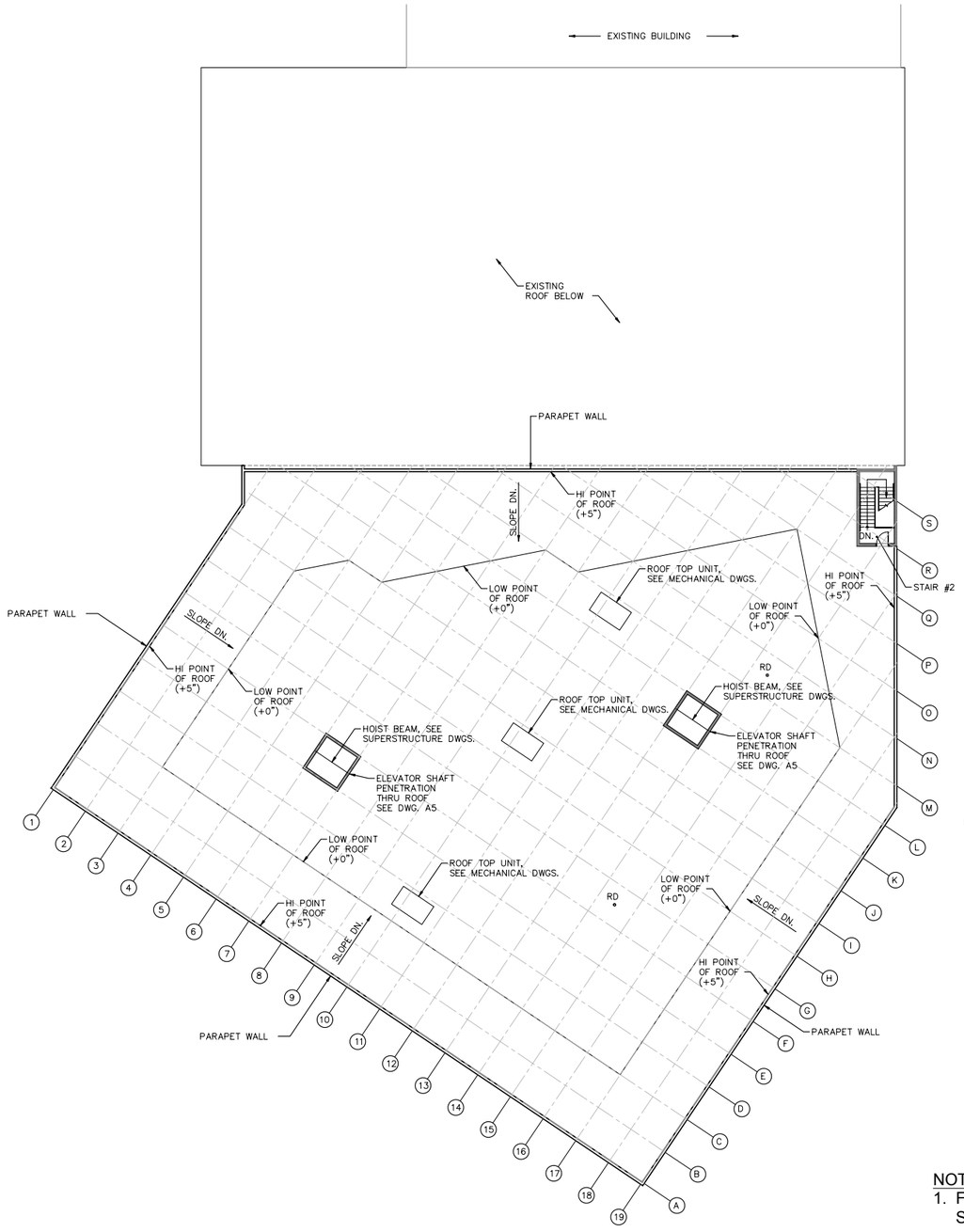
Sheet Title:
SECOND & THIRD FLOOR PLANS

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: A2

4/9/2008 8:25:37 AM, DWF6 ePlot.pc3



ROOF PLAN 2/A3
SCALE: 1/16" = 1'-0"

FOURTH FLOOR PLAN 1/A3
SCALE: 1/16" = 1'-0"

NOTE:
1. FOR DIMENSIONS AND INFORMATION NOT SHOWN, SEE DRAWING A1

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE. RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527

P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

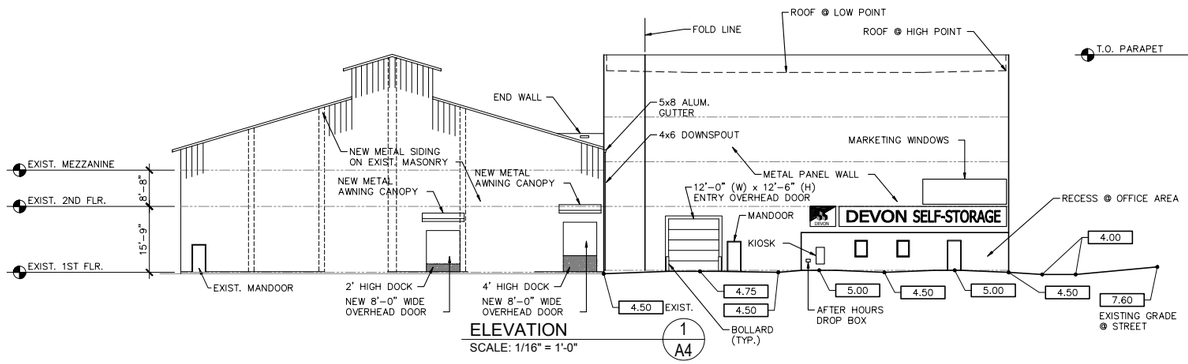
Sheet Title:
FOURTH FLOOR & ROOF PLANS

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

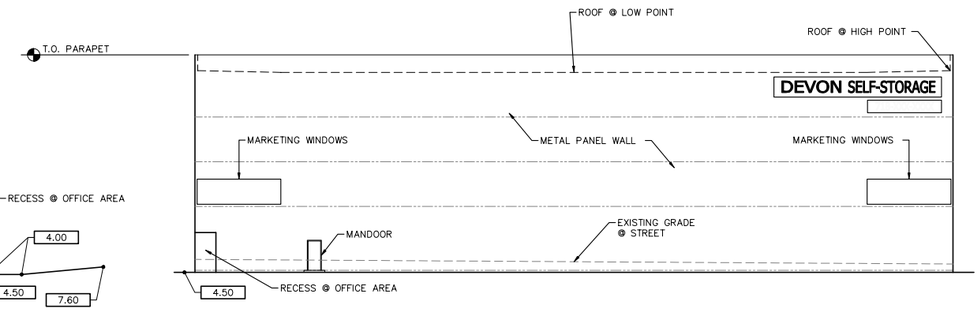
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: A3

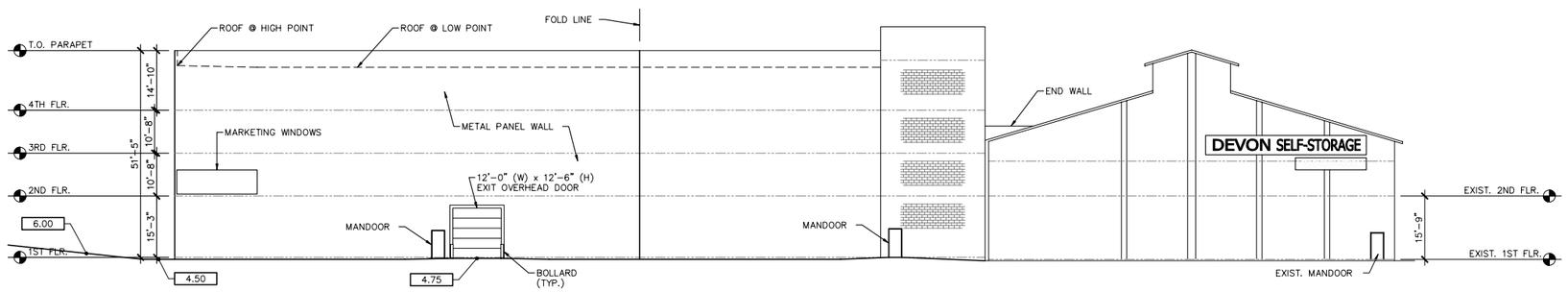
4/9/2008 8:26:23 AM, DWF6 ePlot.pc3



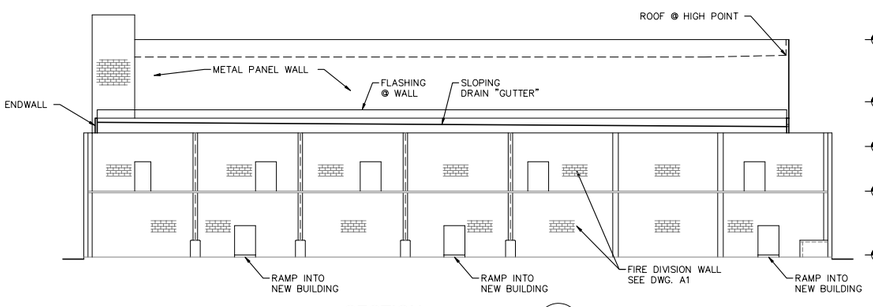
ELEVATION 1/A4
SCALE: 1/16" = 1'-0"



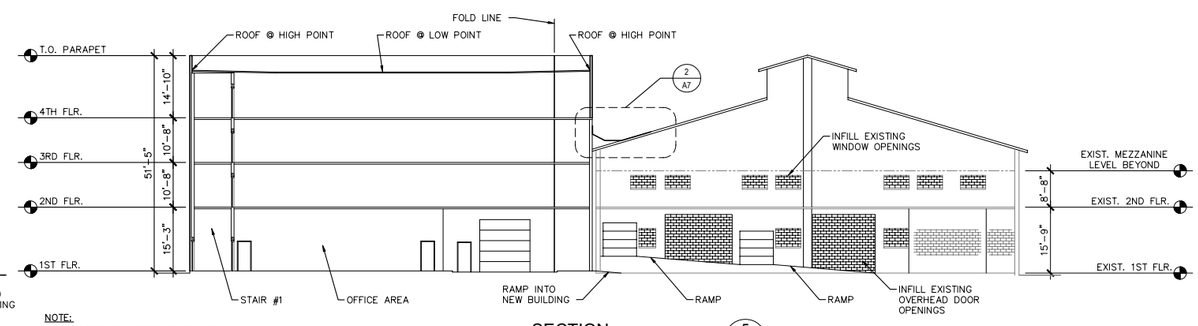
ELEVATION 2/A4
SCALE: 1/16" = 1'-0"



ELEVATION 3/A4
SCALE: 1/16" = 1'-0"

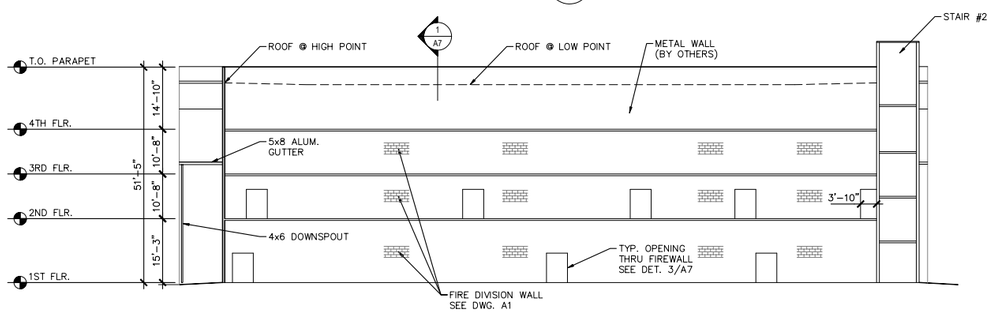


SECTION 4/A4
SCALE: 1/16" = 1'-0"

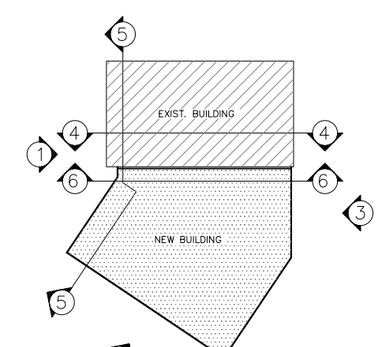


NOTE:
FIREPROOF SUPERSTRUCTURE TO ACHIEVE RATING REQUIRED

SECTION 5/A4
SCALE: 1/16" = 1'-0"



SECTION 6/A4
SCALE: 1/16" = 1'-0"



KEY PLAN

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527

P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

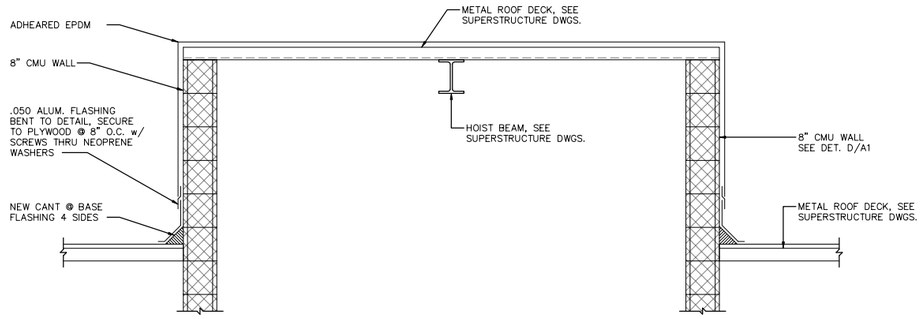
Sheet Title:
BUILDING ELEVATIONS, SECTIONS & KEY PLAN

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

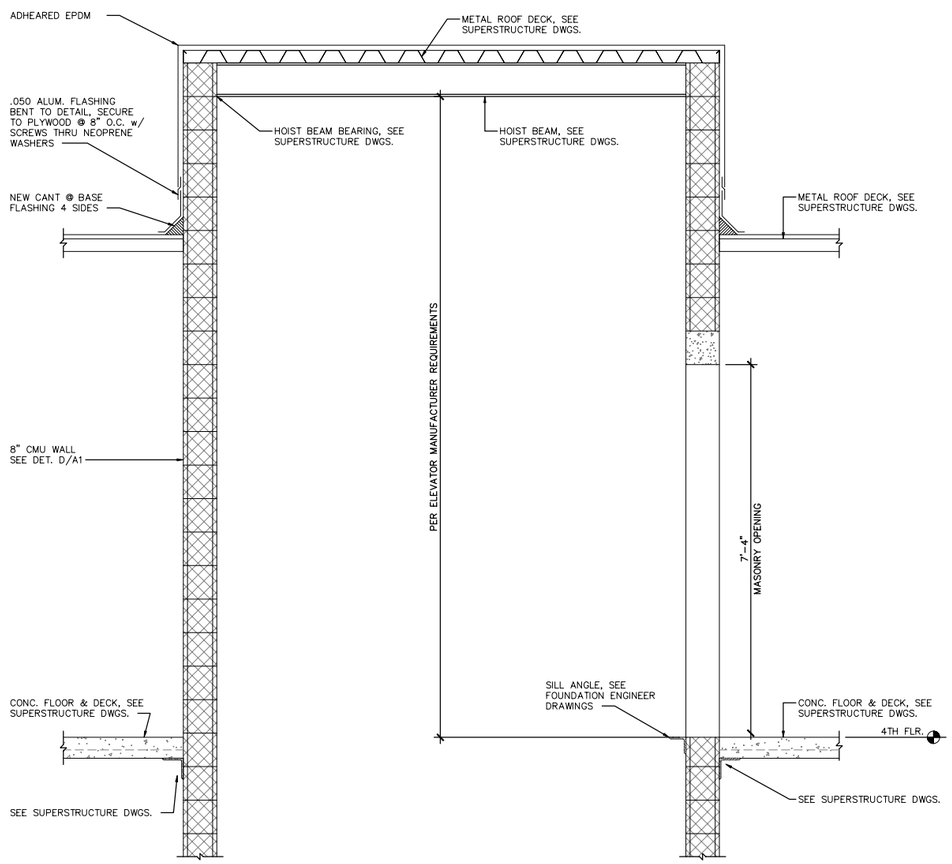
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: A4

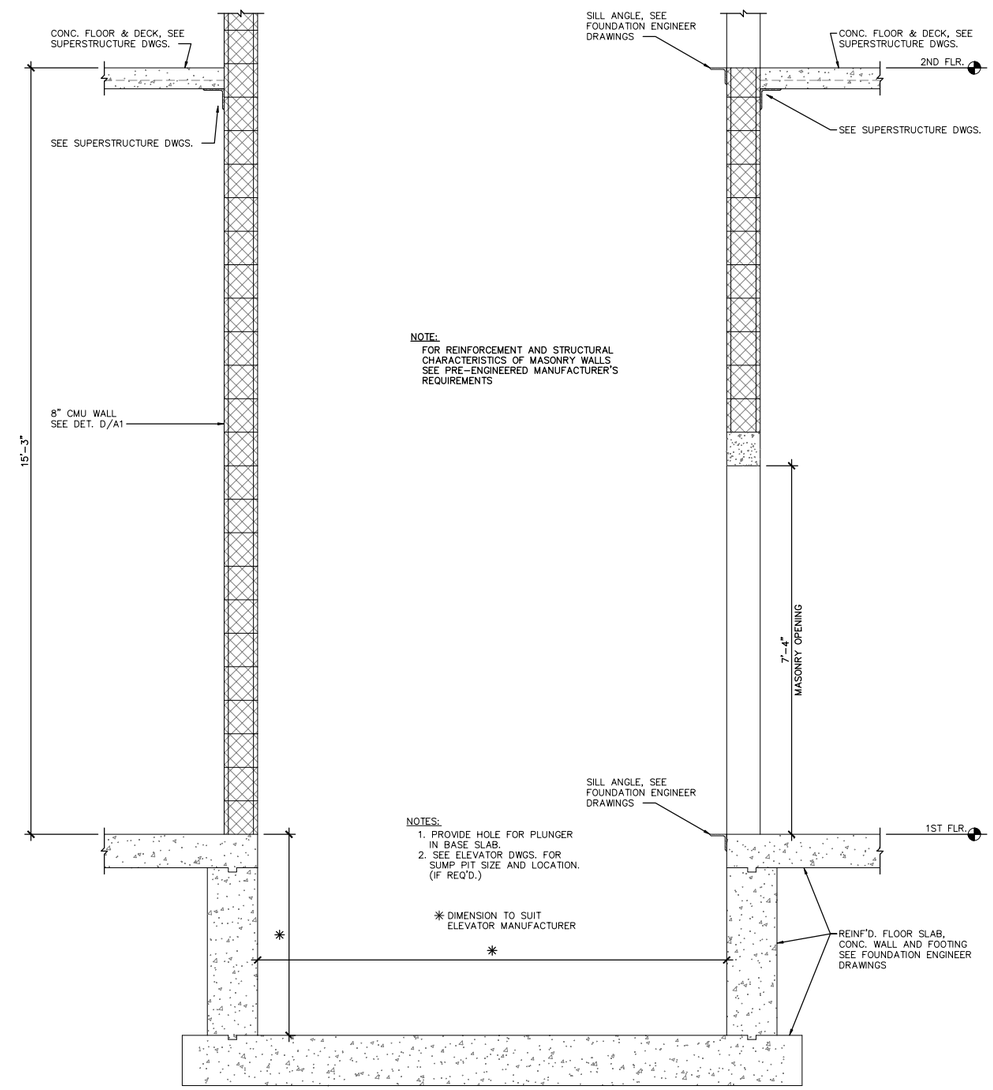
4/9/2008 8:27:28 AM, DWF6 ePlot.pc3



ELEVATOR SECTION 3/A5
SCALE: 3/4"=1'-0"



ELEVATOR SECTION 2/A5
SCALE: 3/4"=1'-0"



NOTE:
FOR REINFORCEMENT AND STRUCTURAL CHARACTERISTICS OF MASONRY WALLS SEE PRE-ENGINEERED MANUFACTURER'S REQUIREMENTS

NOTES:
1. PROVIDE HOLE FOR PLUNGER IN BASE SLAB.
2. SEE ELEVATOR DWGS. FOR SUMP PIT SIZE AND LOCATION. (IF REQ'D.)

✳ DIMENSION TO SUIT ELEVATOR MANUFACTURER

ELEVATOR SECTION 1/A5
SCALE: 3/4"=1'-0"

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE. RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527

P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

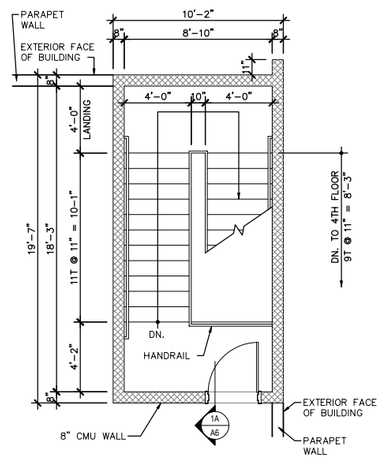
Sheet Title:
ELEVATOR SECTIONS

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

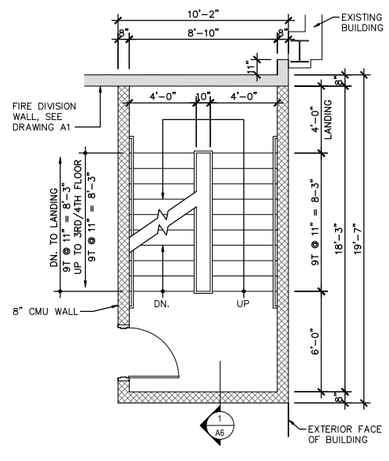
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: A5

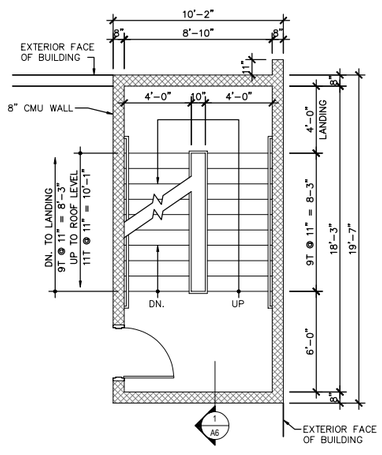
4/9/2008 9:05:01 AM, DWF6 ePlot.pc3



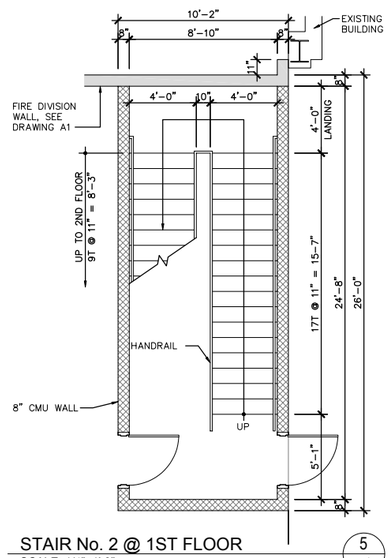
STAIR No. 2 @ ROOF LEVEL 8 A6
SCALE: 1/4"=1'-0"



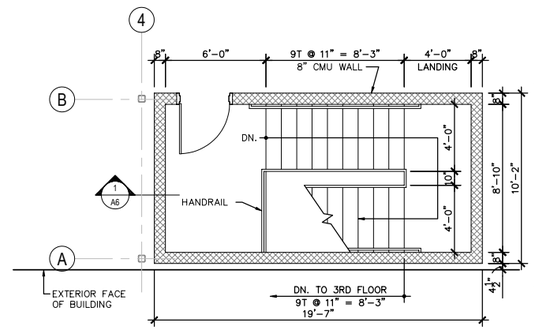
STAIR No. 2 @ 2ND & 3RD FLOOR 6 A6
SCALE: 1/4"=1'-0"



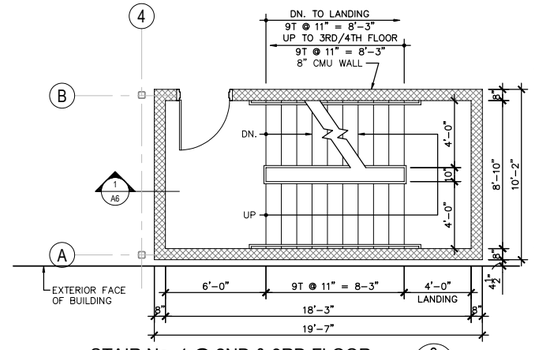
STAIR No. 2 @ 4TH FLOOR 7 A6
SCALE: 1/4"=1'-0"



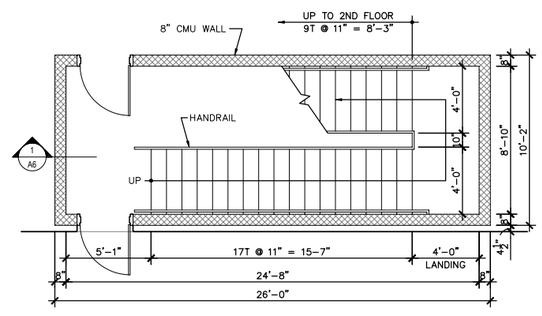
STAIR No. 2 @ 1ST FLOOR 5 A6
SCALE: 1/4"=1'-0"



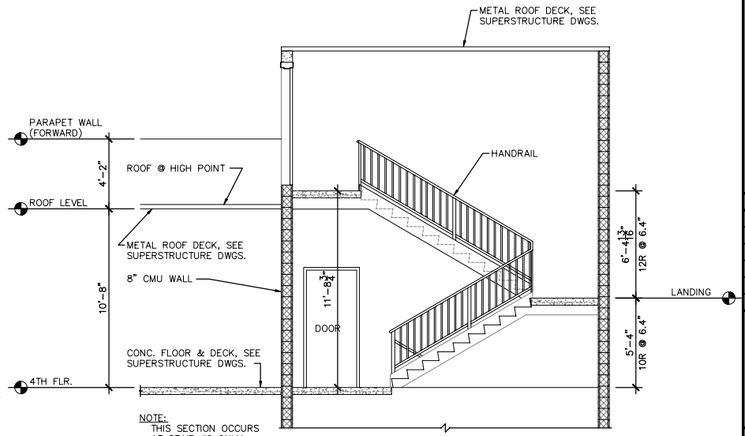
STAIR No. 1 @ 4TH FLOOR 4 A6
SCALE: 1/4"=1'-0"



STAIR No. 1 @ 2ND & 3RD FLOOR 3 A6
SCALE: 1/4"=1'-0"

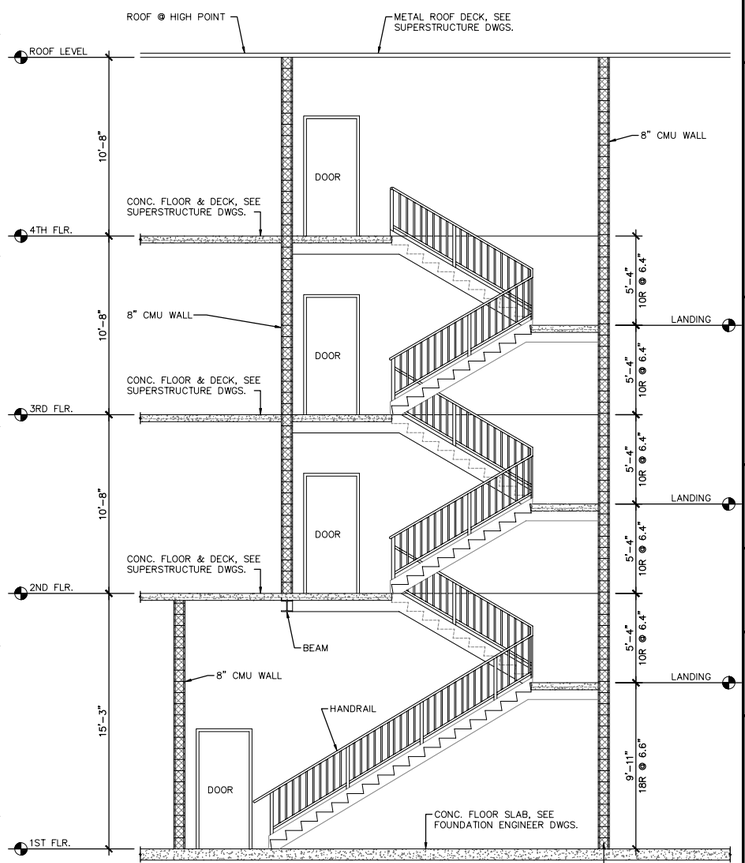


STAIR No. 1 @ 1ST FLOOR 2 A6
SCALE: 1/4"=1'-0"



NOTE:
THIS SECTION OCCURS AT STAIR #2 ONLY

STAIR SECTION 1A A6
SCALE: 1/4"=1'-0"



NOTE:
FOR REINFORCEMENT AND STRUCTURAL CHARACTERISTICS OF MASONRY WALLS SEE PRE-ENGINEERED MANUFACTURER'S REQUIREMENTS

NOTE:
AT STAIR #2 FIRE DIVISION WALL, SEE DWG. A1

STAIR SECTION 1 A6
SCALE: 1/4"=1'-0"

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE. RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

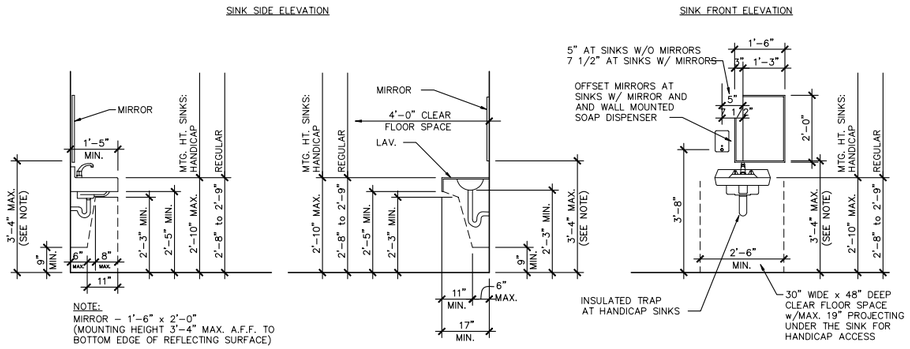
Sheet Title:
STAIR SECTIONS & PLANS

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

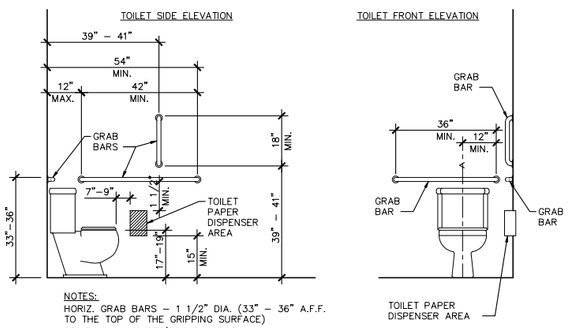
Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: A6

4/9/2008 9:07:18 AM, DWF6 ePlot.pc3



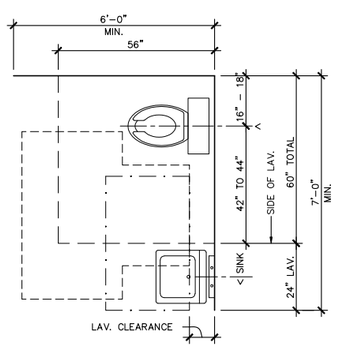
NOTE:
MIRROR – 1'-6" x 2'-0"
(MOUNTING HEIGHT 3'-4" MAX. A.F.F. TO BOTTOM EDGE OF REFLECTING SURFACE)

SINK MOUNTING HEIGHT (C / A7)
SCALE: 1/2"=1'-0"



NOTES:
HORIZ. GRAB BARS – 1 1/2" DIA. (33" – 36" A.F.F. TO THE TOP OF THE GRIPPING SURFACE)
REINF. WALL AS REQ'D. WITH WOOD
PROVIDE BARRIER FREE ACCESSIBLE SIGNAGE AT EACH TOILET ROOM DOOR

TOILET / GRAB BAR MOUNTING HEIGHT (B / A7)
SCALE: 1/2"=1'-0"



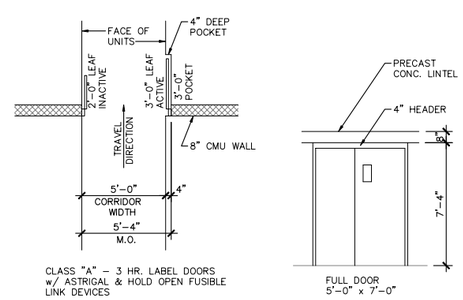
MINIMUM TOILET ROOM CLEARANCES –
(MINIMUM ROOM SIZE = 6'–0" x 7'–0")

ICC/ANSI – A117.1 – 2003 – CRITERIA:

TOILET	FIG. 604.3.1
WHEELCHAIR (CIRCLE)	FIG. 304.3 (A)
WHEELCHAIR (T)	FIG. 304.3 (B)
LAVS + URINALS	FIG. 305.5 (A)
LAVS + URINALS	FIG. 305.5 (B)
DOOR SWING PER. 304.4	

MINIMUM TOILET LAYOUT CLEARANCE PLAN (A / A7)
SCALE: 1/2"=1'-0"

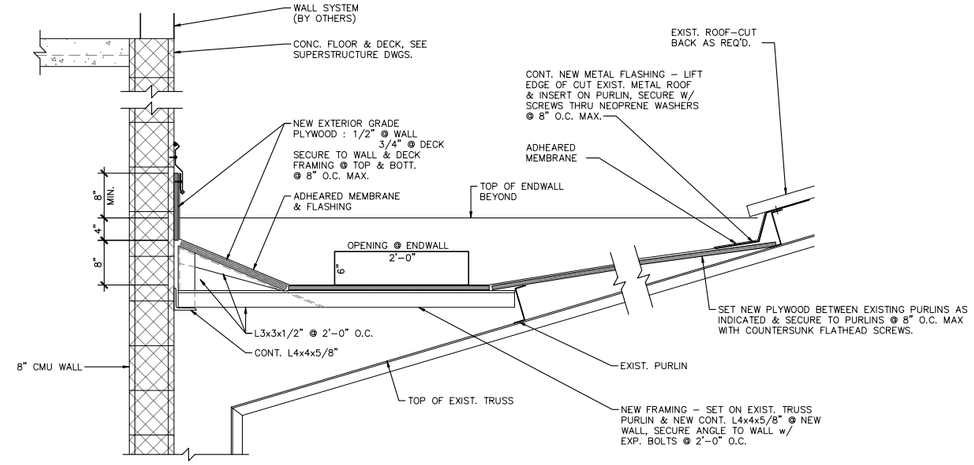
STANDARD ADA TOILET ROOM REQUIREMENTS - SEE PLANS FOR SPECIFIC LOCATIONS SHOWN AS (H.C.)



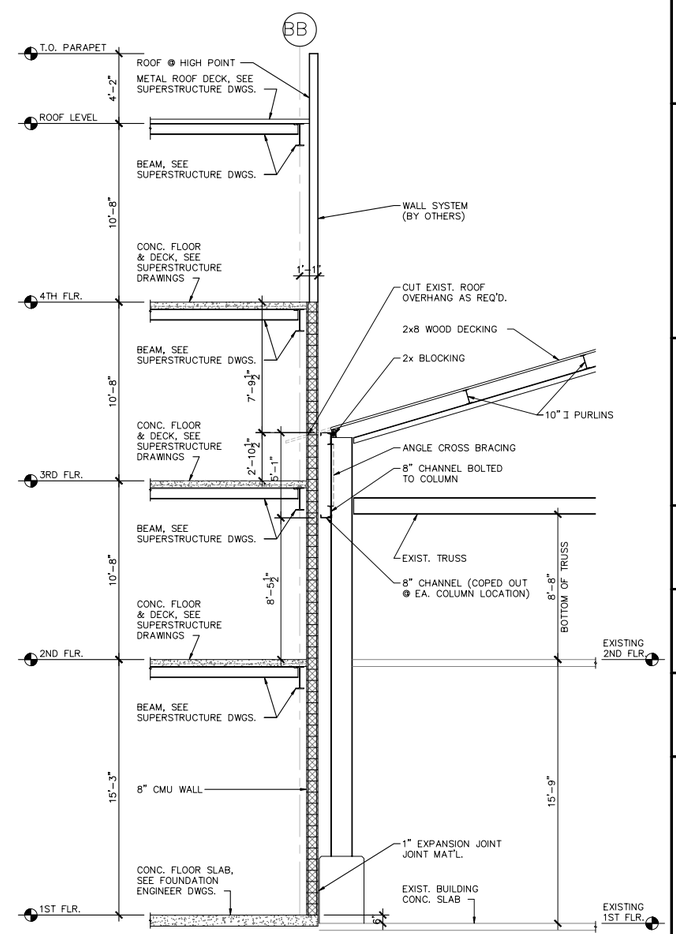
CLASS "A" – 3 HR. LABEL DOORS w/ ASTRIGAL & HOLD OPEN FUSIBLE LINK DEVICES

FULL DOOR 5'–0" x 7'–0"

FIREWALL OPENING DETAIL (3 / A7)
SCALE: 1/4"=1'-0"



DRAIN GUTTER DETAIL (2 / A7)
SCALE: 1"=1'-0"



SECTION (1 / A7)
SCALE: 1/4"=1'-0"

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232 MO - 8177
DE - 6185 NJ - C-5880
FL - AR13293 NY - 12406
MA - 8268 PA - 4538
MD - 8170

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

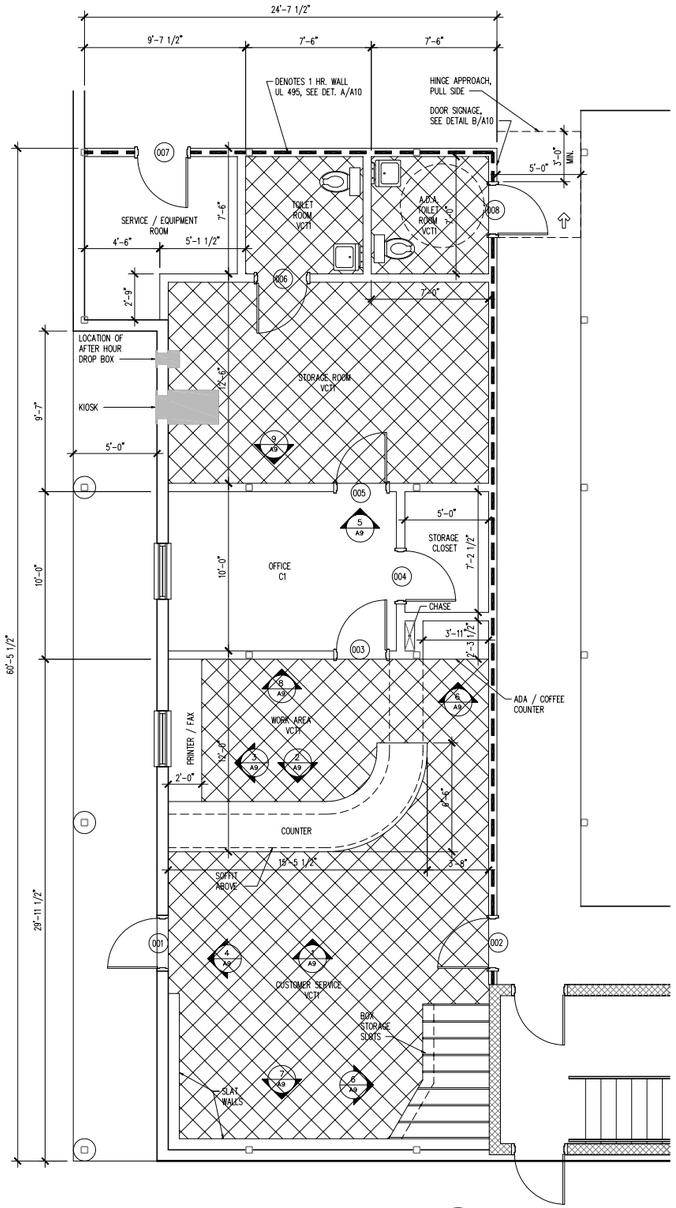
Sheet Title:
A.D.A. TOILET LAYOUT PLAN, SECTIONS AND DETAILS

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

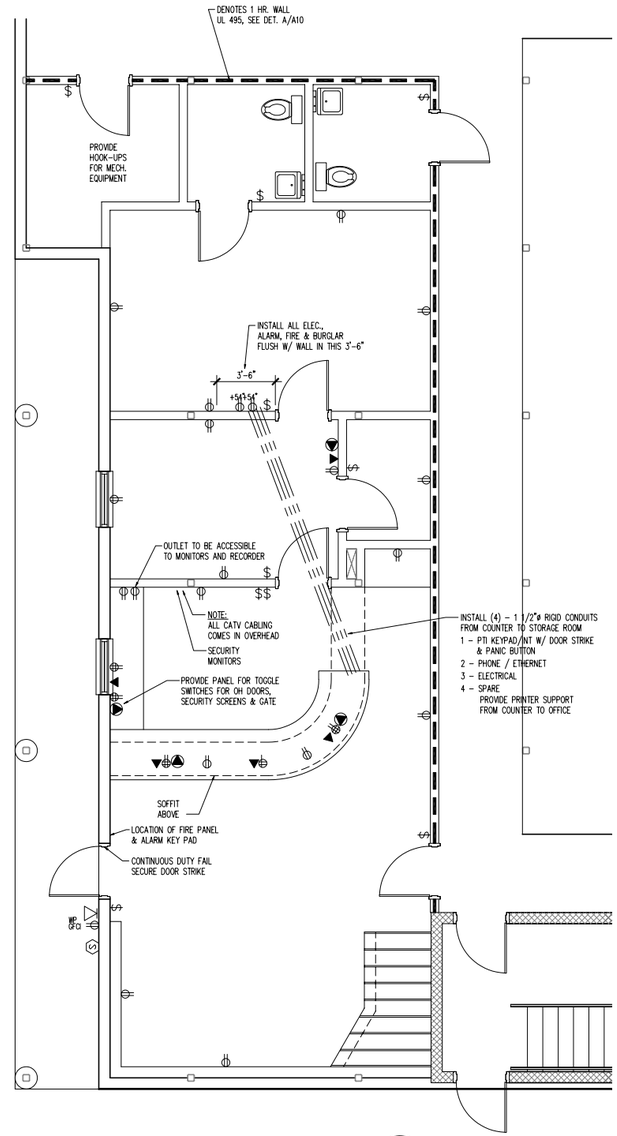
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: A7

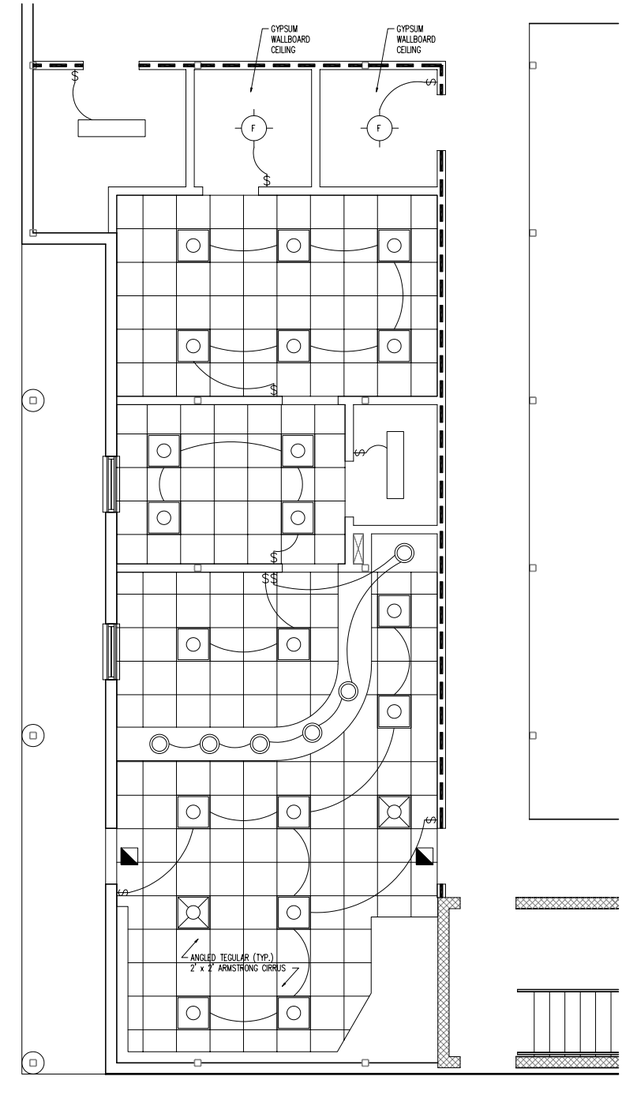
4/9/2008 9:08:22 AM, DWF6 ePlot.pc3



ENLARGED OFFICE FLOOR PLAN 1/A8
SCALE: 1/4"=1'-0"



ENLARGED OFFICE FLOOR PLAN 1/A8
SCALE: 1/4"=1'-0"



ENLARGED OFFICE FLOOR PLAN 1/A8
SCALE: 1/4"=1'-0"

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527

P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

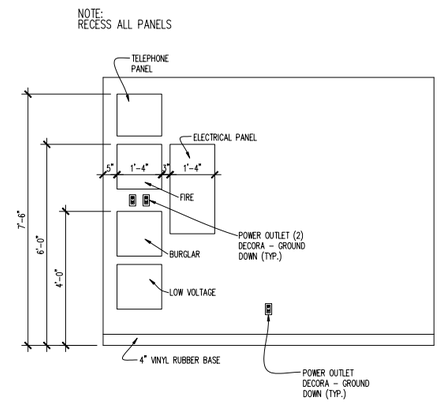
Sheet Title:
ENLARGED OFFICE PLANS

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

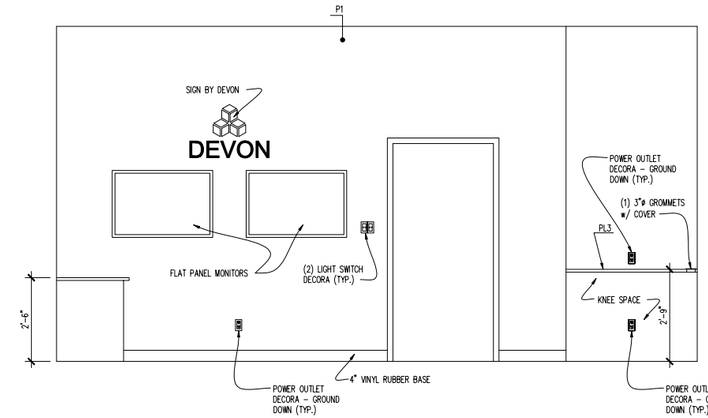
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: A8

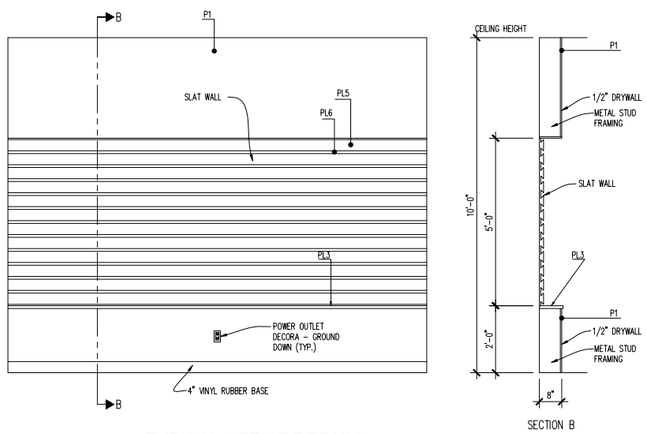
4/9/2008 9:09:35 AM, DWF6 ePlot.pc3



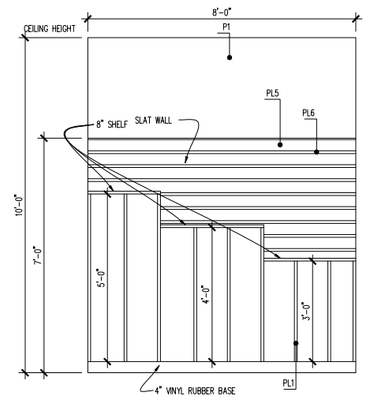
TYPICAL OFFICE DETAILS
ELEVATION @ STORAGE ROOM (9 / A9)
SCALE: 1/2"=1'-0"



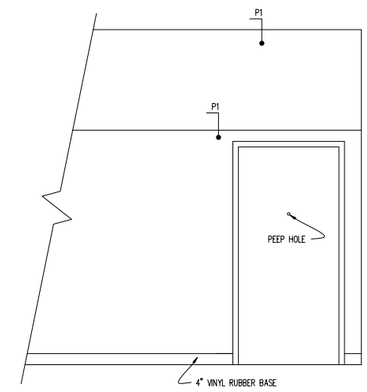
TYPICAL OFFICE DETAILS
ELEVATION @ WORK AREA (8 / A9)
SCALE: 1/2"=1'-0"



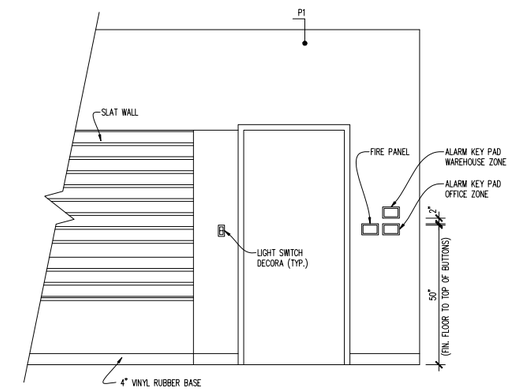
TYPICAL OFFICE DETAILS
ELEVATION @ SLAT WALL (7 / A9)
SCALE: 1/2"=1'-0"



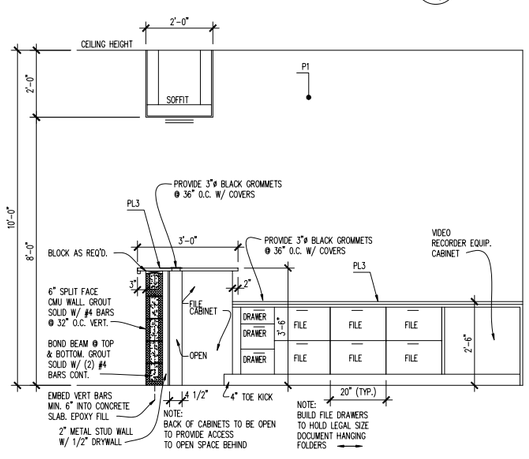
TYPICAL OFFICE DETAILS
ELEVATION @ BOX STORAGE (6 / A9)
SCALE: 1/2"=1'-0"



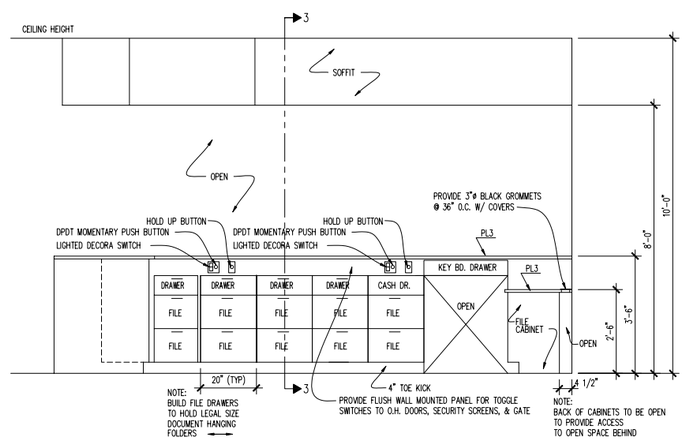
TYPICAL OFFICE DETAILS
ELEVATION @ DOOR TO STORAGE (5 / A9)
SCALE: 1/2"=1'-0"



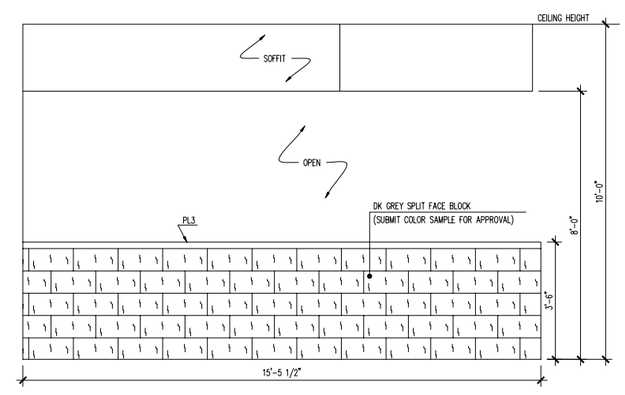
TYPICAL OFFICE DETAILS
WALL @ ENTRY (4 / A9)
SCALE: 1/2"=1'-0"



TYPICAL OFFICE DETAILS
ELEVATION @ SERVICE COUNTER (3 / A9)
SCALE: 1/2"=1'-0"



TYPICAL OFFICE DETAILS
ELEVATION @ SERVICE COUNTER (2 / A9)
SCALE: 1/2"=1'-0"



TYPICAL OFFICE DETAILS
ELEVATION @ SERVICE COUNTER (1 / A9)
SCALE: 1/2"=1'-0"

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527

P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
OFFICE INTERIOR ELEVATIONS

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: A9

4/9/2008 9:11:07 AM, DWF6 ePlot.pc3

OFFICE DOOR AND FRAME SCHEDULE

MARK	DOOR SIZE WD	DOOR SIZE HGT.	DOOR SIZE THK.	DOOR MAT'L.	DOOR GLAZING	FRAME MAT'L.	FIRE RATING LABEL	HARDWARE SET NO	HARDWARE KEYSIDE RM. NO	NOTES
001	3'-0"	7'-0"	1 3/4"	METAL	YES	METAL	--	1	Customer Service	--
002	3'-0"	7'-0"	1 3/4"	METAL	--	METAL	1 HR	2	Customer Service	Peep Hole
003	3'-0"	7'-0"	1 3/4"	METAL	--	METAL	--	3	Office	--
004	3'-0"	7'-0"	1 3/4"	METAL	--	METAL	--	4	Storage Closet	--
005	3'-0"	7'-0"	1 3/4"	METAL	--	METAL	--	4	Storage Room	--
006	3'-0"	7'-0"	1 3/4"	METAL	--	METAL	--	2	Bathroom	--
007	3'-0"	7'-0"	1 3/4"	METAL	--	METAL	1 HR	2	Service/Equipment Room	--
008	3'-0"	7'-0"	1 3/4"	METAL	--	METAL	1 HR	3	Bathroom	--

FINISH SCHEDULE

C1	CARPET – MOHAWK COMMERCIAL CARPET: 7257 MIDNIGHT MIST.
VCT1	VINYL COMPOSITION TILE MANNINGTON OR EQUAL – SUBMIT SELECTION SAMPLES FOR COLOR & PATTERN APPROVAL
P1	PAINT – SHERWIN WILLIAMS SW7005 PURE WHITE
P2	PAINT – SHERWIN WILLIAMS SW7065 ARGUS
PL1	FORMICA 845 SPECTRUM RED, MATTE
PL3	FORMICA 912-58 STORM, MATTE
PL4	NOT USED
PL5	MARLITE C343BA, BRUSHED ALUMINUM
PL6	#1315, PLATINUM, SLATWALL INSERT BY MARLITE

HARDWARE SCHEDULE

NOTE: ALL HARDWARE TO SCHLAGE BRUSHED STAINLESS

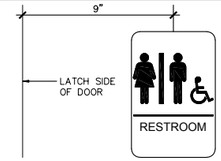
1	BRUSHED STAINLESS LEVER HANDLE & 4" BALL BEARING HINGES DEAD BOLT W/ PANIC BAR & CONTINUOUS DUTY FAIL SECURE DOOR STRIKE
2	BRUSHED STAINLESS LEVER HANDLE W/ KEYED LOCK & DEAD BOLT & 4" BALL BEARING HINGES
3	BRUSHED STAINLESS LEVER HANDLE W/ THUMB TURN LOCK & 4" BALL BEARING HINGES
4	BRUSHED STAINLESS LEVER HANDLE & 4" BALL BEARING HINGES

SYMBOL LEGEND

- INTERCOM
- TELEPHONE CAT 5 4 PR. NOTE: ALL LINES HOMERUN TO STORAGE ROOM
- ETHERNET CABLE NOTE: ALL LINES HOMERUN TO STORAGE ROOM
- DUPLEX OUTLET – WHITE DECORA – GROUND DOWN
- 4 PLEX OUTLET – WHITE DECORA – GROUND DOWN
- SWITCH – WHITE DECORA
- SECURITY SHUTTER CONTROL KEY SWITCH
- DOOR BUZZER
- 2' x 2' RECESSED FLUORESCENT
- 2' x 2' RECESSED FLUORESCENT 24 HR CIRCUIT
- 8" PATHWAY CAN LIGHT W/ (2) TIER BLUE GLASS TRIM
- 8" CAN LIGHT W/ WHITE TRIM
- 1' x 4' FLUORESCENT
- COMBINATION LIGHT / FAN UNIT
- EXIT SIGN / EMERGENCY LIGHT COMBO

GENERAL NOTES

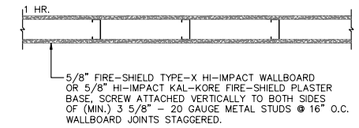
1. SIZE SERVICE PANEL 1 (SP1) AS REQUIRED FOR ALL EQUIPMENT, LIGHTING, OUTLETS, ETC. AS SHOWN.
2. ALL WIRING SHALL BE 2 #10 & 1 #10 GND. IN 3/4" C OR MC CABLE UNLESS OTHERWISE NOTED
3. ALL CIRCUITS TO HOMERUN TO SP1



NOTE:
SIGN TO HAVE BRAILLE TACTILE CHARACTERS
MOUNTING HEIGHT: CHARACTERS SHALL BE 48 INCHES MIN. AND 60 INCHES MAX. ABOVE THE ADJACENT FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE CHARACTERS.

DETAIL B / A10
SCALE: N.T.S.

NOTE:
ALL OPENINGS, PENETRATIONS, ETC. IN FIRE RATED PARTITION WALLS SHALL BE EQUAL TO THE RATING OF THE FIRE RATED PARTITION WALLS. USE SEALANTS, COLLARS, ETC. AS REQ'D. DEPENDENT UPON PENETRATION.



DETAIL UL DESIGN U495 A / A10
SCALE: N.T.S.

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232 MO - 8177
DE - 6185 NJ - C-5880
FL - AR13293 NY - 12406
MA - 8268 PA - 4538
MD - 8170

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

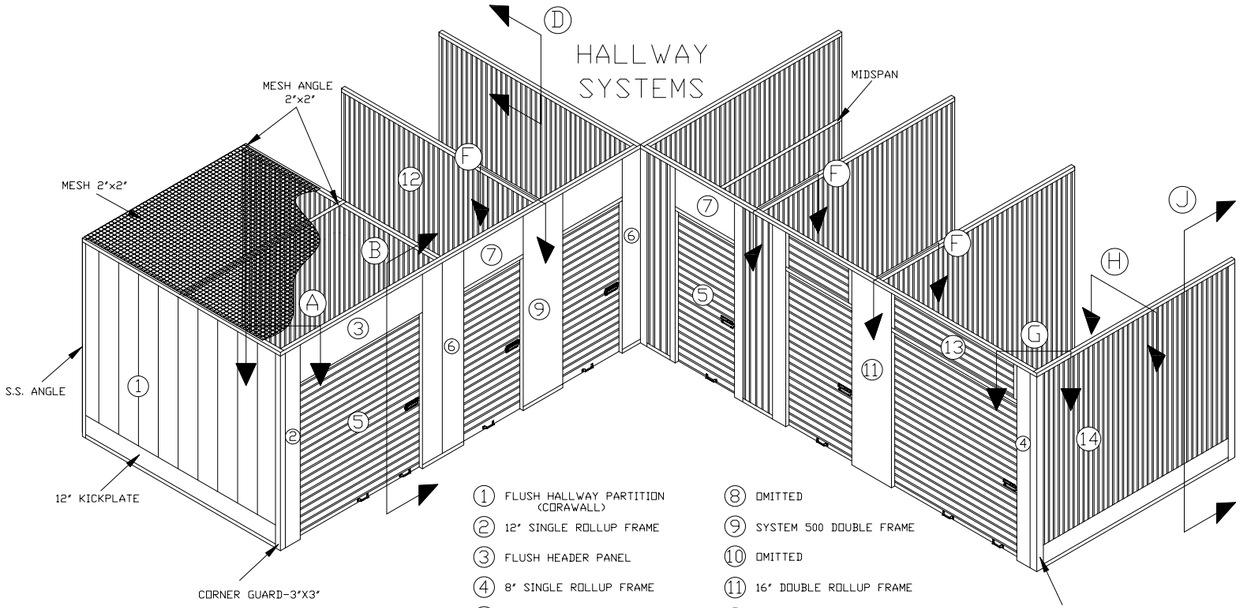
Sheet Title:
DETAILS, SCHEDULES AND SYMBOL LEGEND

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

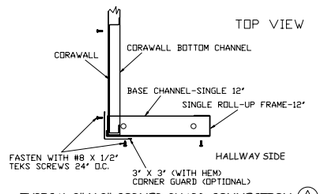
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number: A10

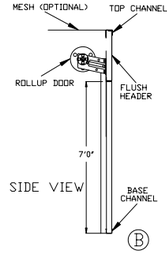
4/9/2008 9:12:14 AM, DWF6 ePlot.pc3



1. FLUSH HALLWAY PARTITION (CORAWALL)
2. 12" SINGLE ROLLUP FRAME
3. FLUSH HEADER PANEL
4. 8" SINGLE ROLLUP FRAME
5. ROLLUP DOOR
6. SYSTEM 500 SINGLE FRAME
7. SYSTEM 500 COVERSHEET
8. OMITTED
9. SYSTEM 500 DOUBLE FRAME
10. OMITTED
11. 16" DOUBLE ROLLUP FRAME
12. INTERIOR WALL PARTITION (SERCUREWALL)
13. CORRUGATED FILLER PANEL
14. CORRUGATED HALLWAY PARTITION (SERCUREWALL)

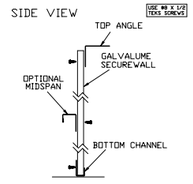


TYPICAL 3" X 3" CORNER GUARD CONNECTION (A)



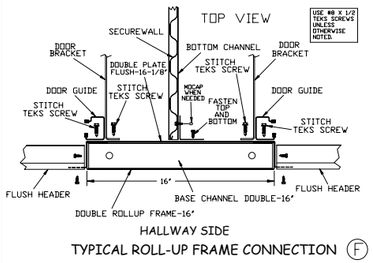
(B)

OMITTED (C)

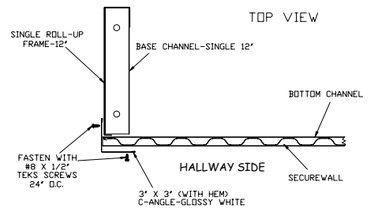


TYPICAL UNIT SECUREWALL (D)

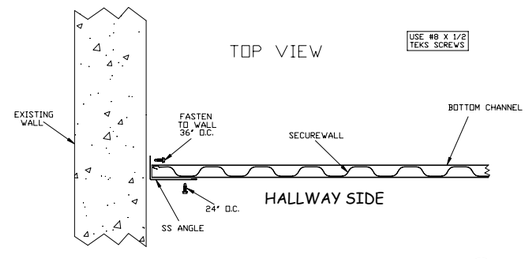
OMITTED (E)



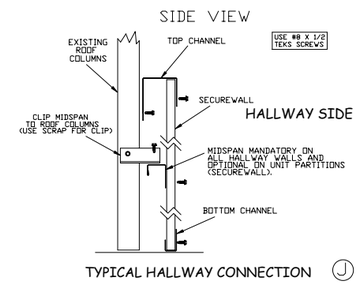
TYPICAL ROLL-UP FRAME CONNECTION (F)



TYPICAL 3" X 3" C-ANGLE (CORNER ANGLE) CONNECTION (G)



TYPICAL S.S. (START/STOP) ANGLE CONNECTION (H)



TYPICAL HALLWAY CONNECTION (J)

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE. RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Distribution: Date:

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

Civil:
STANTEC CONSULTING SERVICES, INC.
50 W. 23rd STREET 8th FLOOR
NEW YORK, NY 10010
P. (212) 366-5600 F. (212) 366-5629

Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA 19610
P. (610) 374-0821 F. (610) 374-7071

Mechanical / Plumbing / Electrical:
INTEGRATED FACILITIES SOLUTIONS, INC.
152 WALLACE AVENUE
NORTH PARK PLAZA
DOWNINGTOWN, PA 19335
P. (610) 873-6757 F. (610) 873-6742

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: (856) 661-1302 Fax: (856) 661-0527

P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: (570) 842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
UNIT CONSTRUCTION

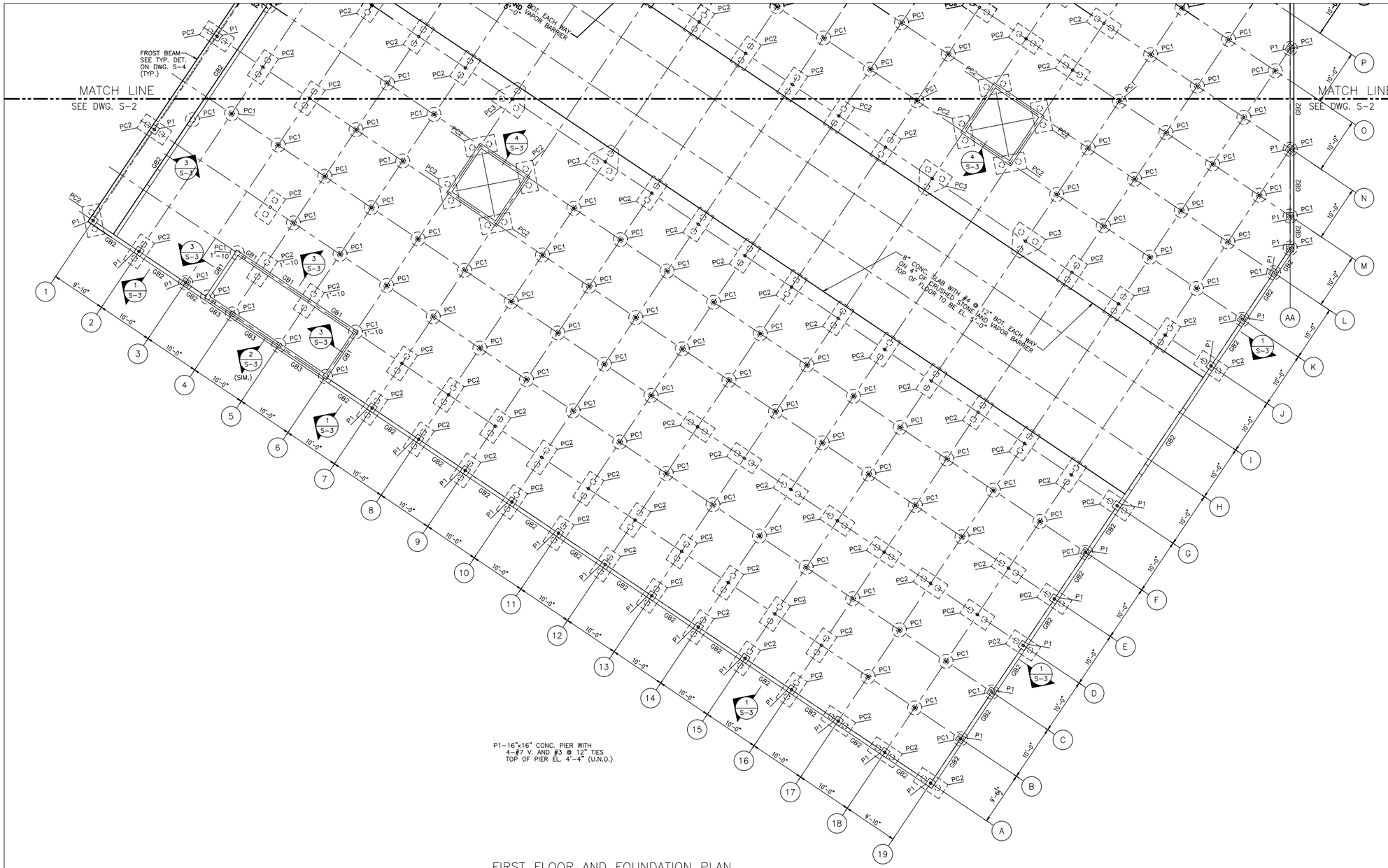
Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: GG / JS
Approved By: PR
Project Number: 06112
Date:
Scale: AS NOTED
Drawing Number:

A11

4/9/2008 9:13:02 AM, DWF6 ePlot.pc3



FIRST FLOOR AND FOUNDATION PLAN

Sc.~1/8"=1'-0"

NOTES:

1. FLOOR SLAB TO BE 6" CONC. SLAB WITH 6x6-W1.4/W1.4 W.W.F. ON 4" OF CRUSHED STONE AND VAPOR BARRIER. TOP OF FLOOR TO BE EL. 5'-0" UNLESS NOTED OTHERWISE.
2. FOR DEPRESSIONS IN THE FLOOR SLAB SEE ARCH. DWGS.
3. ELEVATIONS GIVEN ARE TO THE TOP OF PILE CAPS, UNLESS NOTED OTHERWISE
   TOP OF ALL INTERIOR PILE CAPS TO BE EL. 4'-4",
   TOP OF ALL EXTERIOR PILE CAPS & AT GB2, GB3, GB4 TO BE EL. 1'-4", AND
   AT ELEVATORS TOP OF PILE CAPS TO BE EL. 0'-0" (COORDINATE WITH ELEVATOR DWGS.)
4. UNLESS NOTED OTHERWISE, TOP OF ALL GRADE BEAMS AND CONC. PIERS TO BE EL. 4'-4".
5. DIMENSIONS AND ELEVATIONS INDICATED ON THE DRAWINGS ARE FROM ARCH. DWGS. IN CASE OF DISCREPANCY, ARCHITECTURAL DRAWINGS SHALL GOVERN.

General Note:

CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THE WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED FULLY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS FOR ANOTHER PROJECT, ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT BY OTHERS WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES AND EITHER COSTS OF DEFENSE OR PAYMENT OF ANY SUCH CLAIMS THEREFROM.

THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE USE OF THE OWNER IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE ALTERED INADVERTENTLY OR DELIBERATELY, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATION OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1.		
2.		
3.		
4.		
5.		
6.		

Architectural Registrations:

Paul D. Remus

CT - 8232	MD - 8177
DE - 6185	NJ - C-5850
FL - AR13293	NY - 12406
MA - 8288	PA - 4538
MD - 8176	

Consultants:

Structural:
MULTANI ASSOCIATES, INC.
226 E. MAIN ST.
WYCKOFF/SOMERVILLE, NJ 07481
P: (201) 274-0021 F: (201) 274-7071

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O.Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:

FIRST FLOOR AND FOUNDATION PLAN

Job Name:

DEVON #87 STATEN ISLAND
3151 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:

DEVON SELF STORAGE, LLC
2200 POWELL ST., SUITE 1230
EMERYVILLE, CA. 94680

Drawn By:	Approved By:
RP	AM

Project Number: 06112

Date: 03-18-2008

Scale: AS NOTED

Drawing Number:

S - 1

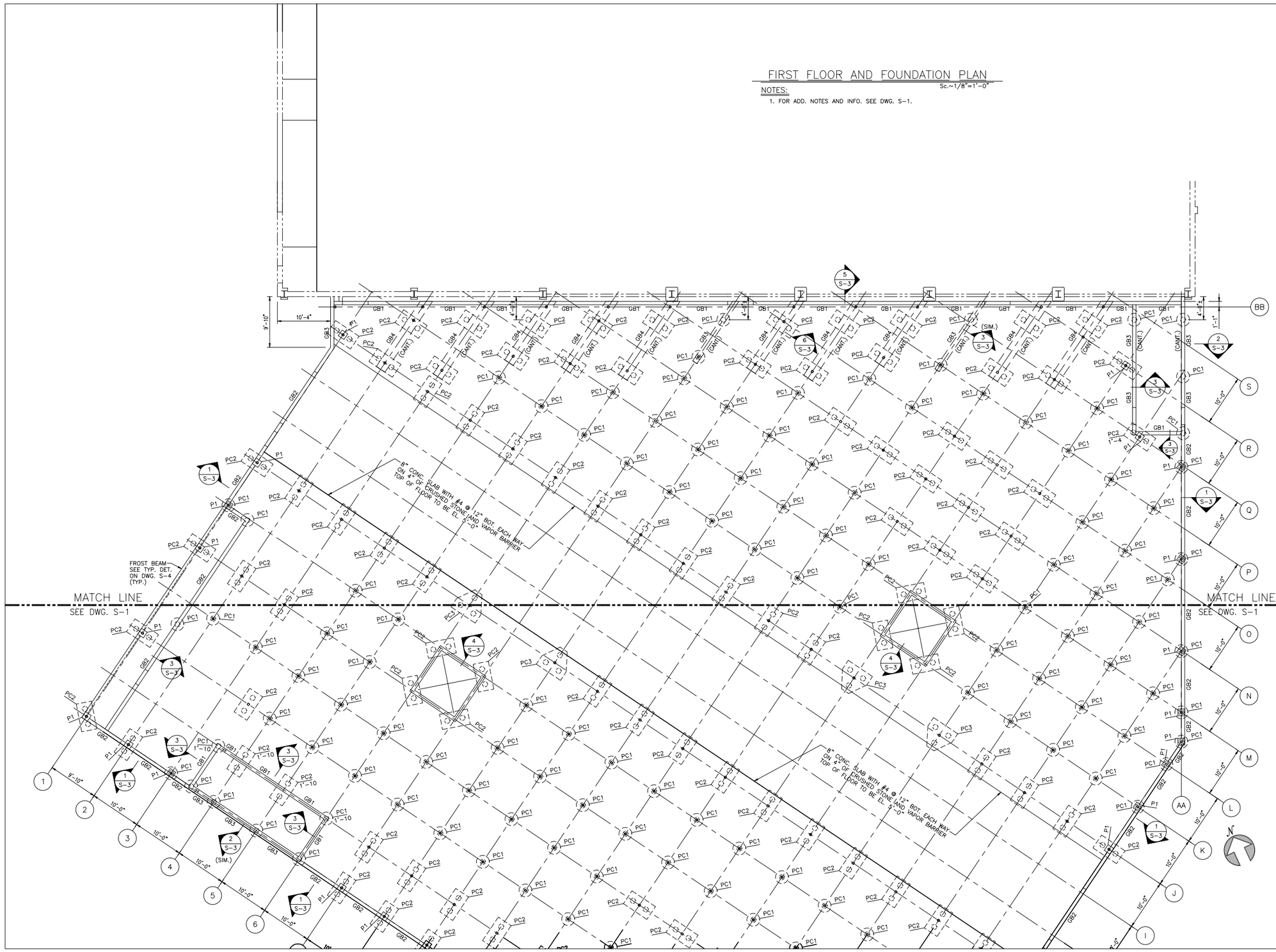
4/10/2008 8:01:49 AM, DWF6 ePlot.pc3

FIRST FLOOR AND FOUNDATION PLAN

Sc.~1/8"=1'-0"

NOTES:

1. FOR ADD. NOTES AND INFO. SEE DWG. S-1.



General Note:

CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM"

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT, DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE"

Revisions:

No.	Date:	Description:
1.		
2.		
3.		
4.		
5.		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5850
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

Structural:
MULTANI ASSOCIATES, INC.
[illegible]
WYCKOFF, PA. 19150
P: (610) 274-0021 F: (610) 274-7071

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527

P.O.Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:

FIRST FLOOR AND FOUNDATION PLAN

Job Name:

DEVON #87 STATEN ISLAND
2131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:

DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By:	Approved By:
RP	AM

Project Number:

06112

Date:

03-18-2008

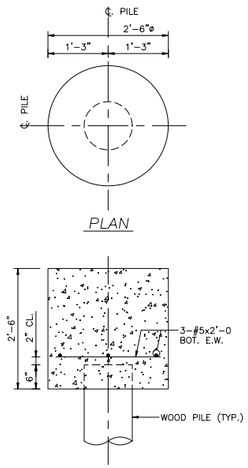
Scale:

AS NOTED

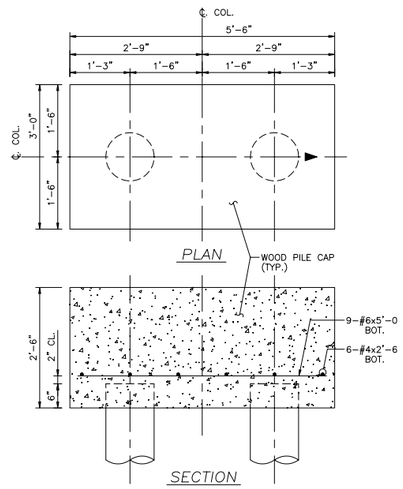
Drawing Number:

S - 2

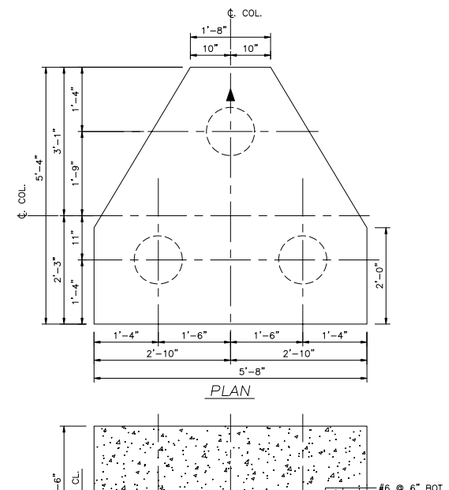
4/10/2008 8:03:05 AM, DWF6 ePlot.pc3



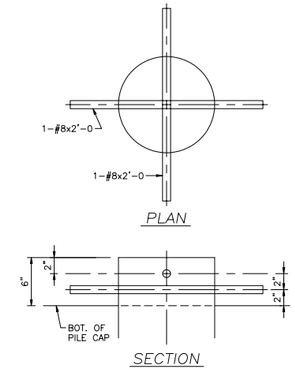
PC1
3/4"=1'-0"



PC2
3/4"=1'-0"



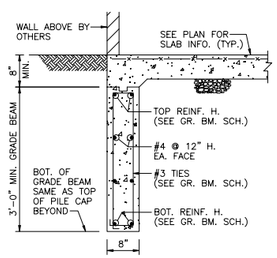
PC3
3/4"=1'-0"



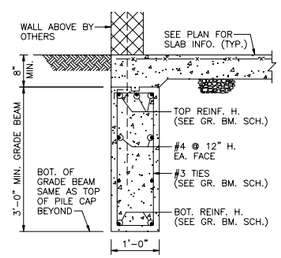
TYPICAL REINFORCING DETAIL AT TOP OF PILE
1 1/2"=1'-0"

TYPICAL PILE CAP DETAILS

NOTES:
1. ALL PILES SHALL BE 12" DIAMETER – 30 TON WOOD PILES, UNLESS NOTED OTHERWISE.
2. ◄ INDICATES DIRECTION OF BATTERED PILE. BATTER THE PILE AT 1:12 BATTER.

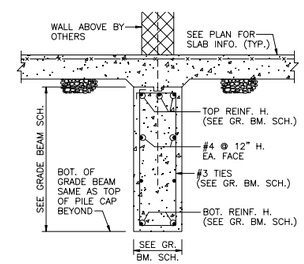


SECTION 1 S-3
Sc.~3/4"=1'-0"
EXTERIOR



SECTION 2 S-3
Sc.~3/4"=1'-0"
EXTERIOR

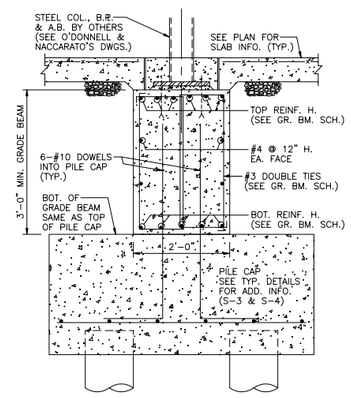
NOTE: FOR REINF. & ADD. INFO. SEE GRADE BEAM SCHEDULE



SECTION 3 S-3
Sc.~3/4"=1'-0"
INTERIOR

TYPICAL CONCRETE GRADE BEAM DETAILS

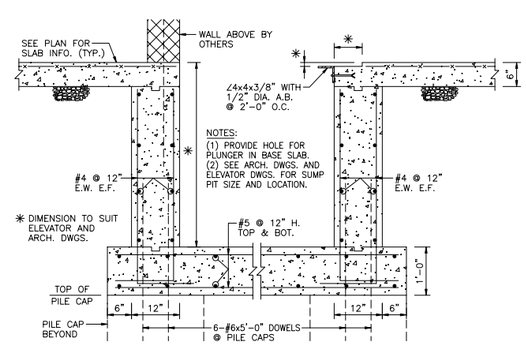
NOTES: (1) LAP TOP BARS @ CENTER OF SPAN & BOT. BARS @ CENTER OF SUPPORT.
(2) FOR DOWELS INTO PILE CAPS, SEE TYP. GRADE BEAM ELEVATION DET. ON DWG. S-4.



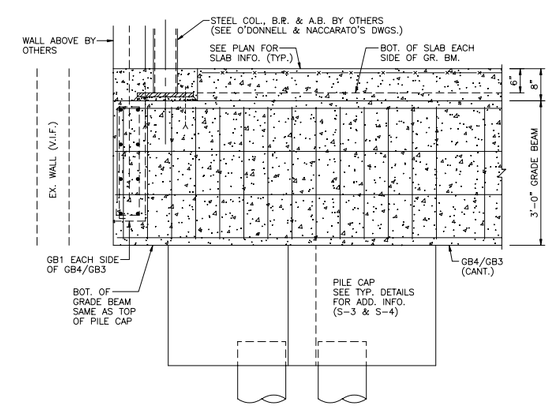
SECTION 6 S-3
Sc.~3/4"=1'-0"

GRADE BEAM SCHEDULE					
MARK	WIDTH	DEPTH (MIN.)	REINFORCING TOP	REINFORCING BOT.	#3 ⊡ TIES FROM EACH END OF SUPPORTS
GB1	8"	30"	2-#7	2-#7	@ 12" O.C.
GB2	8"	36"	2-#7	2-#7	@ 16" O.C.
GB3	12"	36"	3-#8	2-#8	@ 12" O.C.
GB4	24"	36"	6-#10	5-#8	SEE NOTE 4 BELOW

NOTES:
1. PROVIDE #4 @ 12" H. E.F. IN ALL GRADE BEAMS.
2. EXTEND ALL REINF. TO END OF CANTILEVERS.
3. DEPTH INDICATED IS MIN. DEPTH. FOR ALL EXTERIOR GRADE BEAMS, BOT. OF GRADE BEAMS MIN. 36" BELOW FINISHED EXTERIOR GRADE.
4. AT GB4 PROVIDE #3 DOUBLE TIES @ 6" O.C. IN CANTILEVER BEAM AND #3 DOUBLE TIES @ 12" O.C. IN BALANCE OF BEAM.



TYPICAL ELEVATOR PIT DETAIL 4 S-3



SECTION 5 S-3
Sc.~3/4"=1'-0"

General Note:

CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM"

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE"

Revisions:

No.	Date:	Description:
1.		
2.		
3.		
4.		
5.		

Architectural Registrations:

Paul D. Remus
CT - 8232 MD - 8177
DE - 6185 NJ - C-5850
FL - AR13293 NY - 12406
MA - 8288 PA - 4538
MD - 8170

Consultants:
Structural
MULTANI ASSOCIATES, INC.
526 LANCASTER AVE.
WYOMISSING, PA. 19610
P: (610) 374-0021 F: (610) 374-7071

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O.Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
SECTIONS AND SCHEDULES

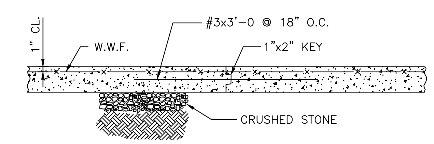
Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: RP
Approved By: AM
Project Number: 06112
Date: 03-18-2008
Scale: AS NOTED
Drawing Number:

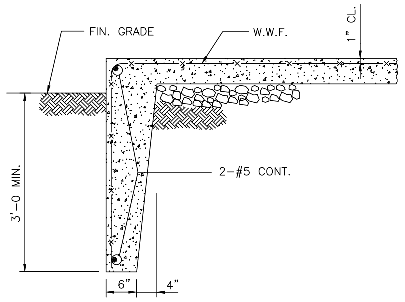
S - 3

4/10/2008 8:04:31 AM, DWF6 ePlot.pc3

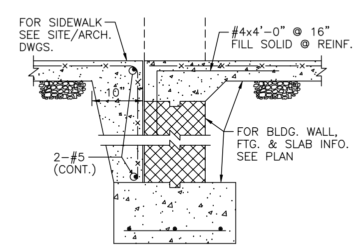


TYPICAL CONSTRUCTION JOINT FOR SLABS ON GRADE

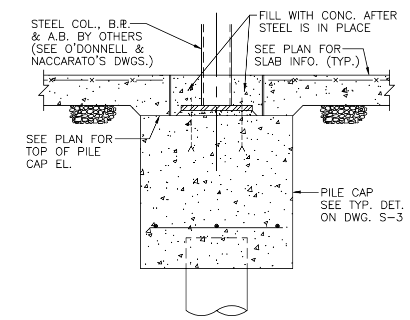
NOTE: PROVIDE CONSTRUCTION JOINTS @ 30'-0 (MAX.) EACH WAY.



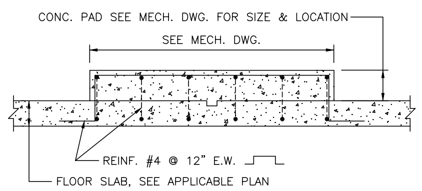
TYPICAL FROST WALL DETAIL



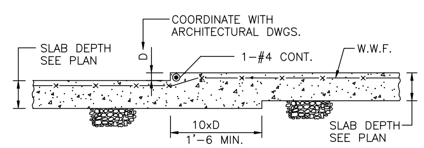
TYPICAL WALL FOOTING DETAIL @ EXT. DOORS



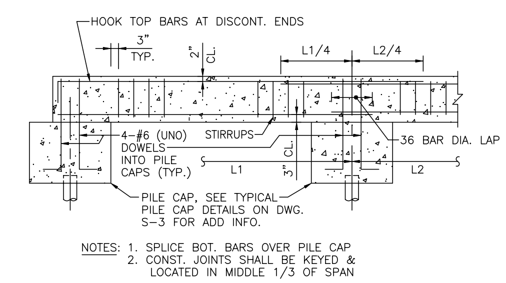
TYPICAL INTERIOR COLUMN FOOTING DETAIL WITHOUT PIER



TYPICAL SECTION THRU MECH. EQUIPMENT PADS

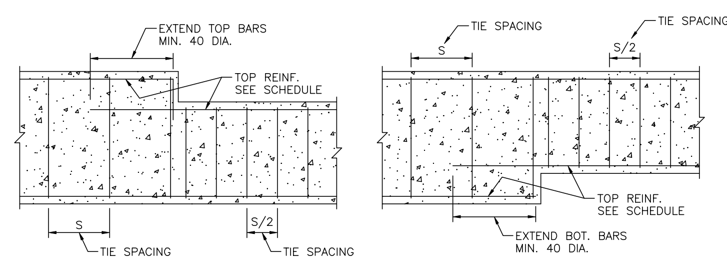


TYPICAL DEPRESSED SLAB DETAIL

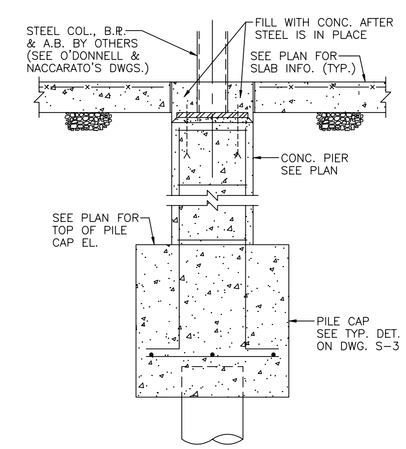


NOTES: 1. SPLICE BOT. BARS OVER PILE CAP
2. CONST. JOINTS SHALL BE KEYED & LOCATED IN MIDDLE 1/3 OF SPAN

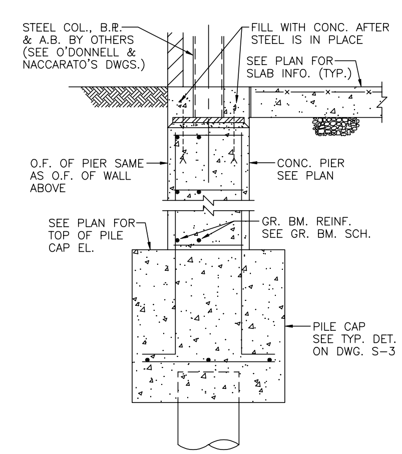
TYPICAL GRADE BEAM ELEVATION



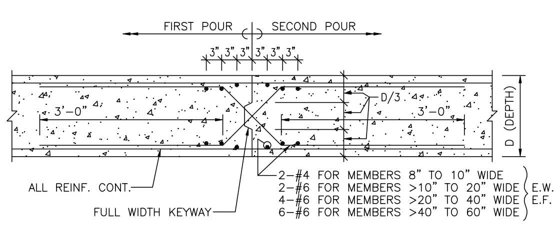
TYPICAL DETAILS OF STEP IN GRADE BEAMS



TYPICAL INTERIOR COLUMN FOOTING DETAIL WITH PIER

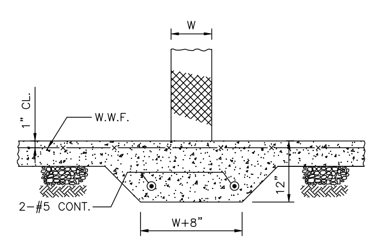


TYPICAL EXTERIOR COLUMN FOOTING DETAIL WITH PIER

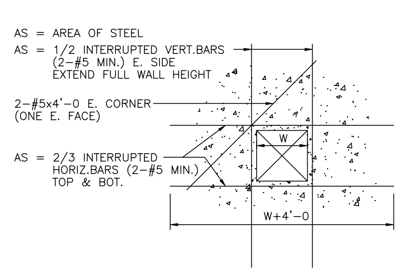


NOTE: JOINT SHALL BE WITHIN MIDDLE THIRD OF SPAN

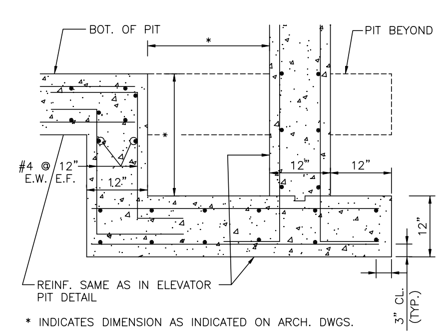
TYPICAL CONCRETE GRADE BEAM CONSTRUCTION JOINT DETAIL



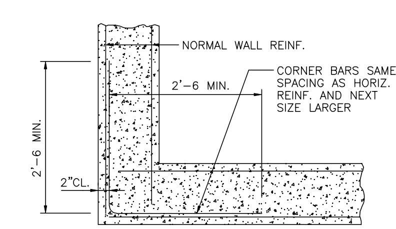
TYPICAL THICKENED SLAB UNDER INTERIOR MASONRY PARTITIONS



TYPICAL DETAIL FOR OPENING IN CONC. WALL OR GRADE BEAM



TYPICAL SUMP PIT DETAIL



TYPICAL CORNER BAR DETAIL

GENERAL NOTES

1. FILL AND BACKFILL WITHIN THE CONFINES OF THE BUILDING AREA SHALL CONSIST OF #2A CRUSHED STONE SPREAD IN 8" LAYERS. COMPACT WITH PNEUMATIC TAMPERS TO A COMPACTION OF 95% OF MAXIMUM DENSITY.

PILES:

2. ALL PILES SHALL BE TIMBER PILES, DRIVEN TO 30 TON CAPACITY. PILES SHALL BE YELLOW PINE, DOUGLAS FIR OR OTHER SPECIES. PILES SHALL HAVE A MINIMUM TIP DIAMETER OF 10 INCHES, CONFORMING TO ASTM D-25, CLASS A FOR ROUND TIMBER PILES.

3. ALL PILES SHALL BE GIVEN A PRESERVATIVE TREATMENT WITH COAL TAR CREOSOTE BY THE FULL-CELL PRESSURE TREATMENT. RETENTION OF OIL, PER CUBIC FOOT OF WOOD SHALL NOT BE LESS THAN 10 POUNDS.

4. ALL PILES SHALL BE IN ONE PIECE FROM POINT TO BUTT, SPLICES SHALL NOT BE PERMITTED. PILES SHALL BE DRIVEN WITH A VARIATION OF NOT MORE THAN 1/4 INCH PER FOOT FROM THE VERTICAL AND SHALL NOT BE OUT OF POSITION (IN PLAN) SHOWN ON DRAWING BY MORE THAN 4 INCHES AFTER DRIVING. AFTER PILES ARE DRIVEN AND CUT, THE BUTTS SHALL BE GIVEN THREE HEAVY COATS OF COAL TAR CREOSOTE.

5. ALL PILES WITHIN 15'-0" OF EXISTING STRUCTURE OR UNDERGROUND UTILITIES SHALL BE PRE AUGURED 20 FEET AND BATTERED 15 DEGREES TO VERTICAL AWAY FROM THE EXISTING STRUCTURE OR UTILITIES.

6. ALL INFORMATION ABOUT EXISTING STRUCTURE IS BASE ON EXISTING DESIGN DRAWINGS AND MUST BE VERIFIED IN FIELD.

7. THE CONTRACTOR SHALL BASE THE BID ON A SINGLE DRIVEN PILE LENGTH OF 45 FEET. ADDITION AND SUBTRACTION FROM THE TOTAL LINEAR FOOTAGE AS REQUIRED TO MEET THE 30 TON CAPACITY SHALL BE COVERED BY THE UNIT PRICE STATED IN THE PROPOSAL.

8. THE CONTRACTOR SHALL HIRE AND PAY FOR THE SERVICES OF AN INSPECTING ENGINEER. WHEN THE PILE DRIVING IS COMPLETED, THE INSPECTING ENGINEER SHALL CERTIFY THAT ALL PILES ARE INSTALLED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.

CONCRETE:

9. CONCRETE STRENGTH SHALL BE 3,500 PSI AT 28 DAYS.

10. ALL REINFORCING STEEL ASTM 615 - GRADE 60.

11. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI BUILDING CODE, (ACI 318) AND REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING" (ACI 315).

12. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF AND INSTALL IN THE FORMS ALL SLOTS, SLEEVES, ANCHOR BOLTS, POCKETS, ETC. AS REQUIRED BY THE OTHER TRADES.

13. CONCRETE SLABS ON GROUND SHALL BE POURED IN PANELS NOT EXCEEDING 600 SQUARE FEET. (THE LONGEST SIDE DIMENSION NOT TO EXCEED 30'-0").

14. AT INTERSECTION OF WALL AND/OR GRADE BEAM, PROVIDE CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL BARS IN OUT SIDE FACE OF WALL.

15. PROVIDE 2-#6, AROUND OPENINGS IN THE SLAB OR WALL OR THE EQUIVALENT OF INTERRUPTED REINFORCEMENT, WHICHEVER IS GREATER.

16. PROVIDE KEYS AND DOWELS AT ALL CONSTRUCTION JOINTS.

17. SECTIONS/DETAILS SHOWN ARE TYPICAL; SIMILAR SECTIONS/DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

DESIGN LOADS:

LIVE LOAD (ROOF)	30 PSF
OFFICES	50 PSF + 20 PSF PART. LOAD
STAIRS	100 PSF
STORAGE	125 PSF

WIND LOAD:

BASIC WIND SPEED	110 MPH
WIND DESIGN PRESSURE	19.2 PSF

SEISMIC LOAD:

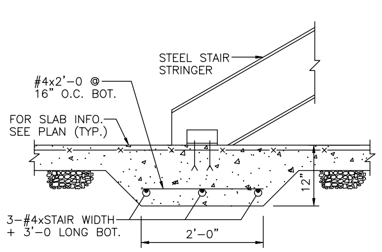
SEISMIC HAZARD GROUP - I

MAPPED SPECTRAL RESPONSE ACCELERATIONS (S_S AND S_I) = 0.3 AND 0.08

SITE CLASS = D

SPECTRAL RESPONSE COEFFICIENTS (S_{DS} AND S_{DI}) = 0.45 AND 0.19

SEISMIC DESIGN CATEGORY = B



TYPICAL THICKENED SLAB DETAIL AT STEEL STAIR

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1		
2		
3		
4		
5		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:
Structural:
MULTANI ASSOCIATES, INC.
955 PENN AVENUE
WYOMISSING, PA. 19610
P. (610) 374-0821 F. (610) 374 7071

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O.Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
TYPICAL DETAILS AND GENERAL NOTES

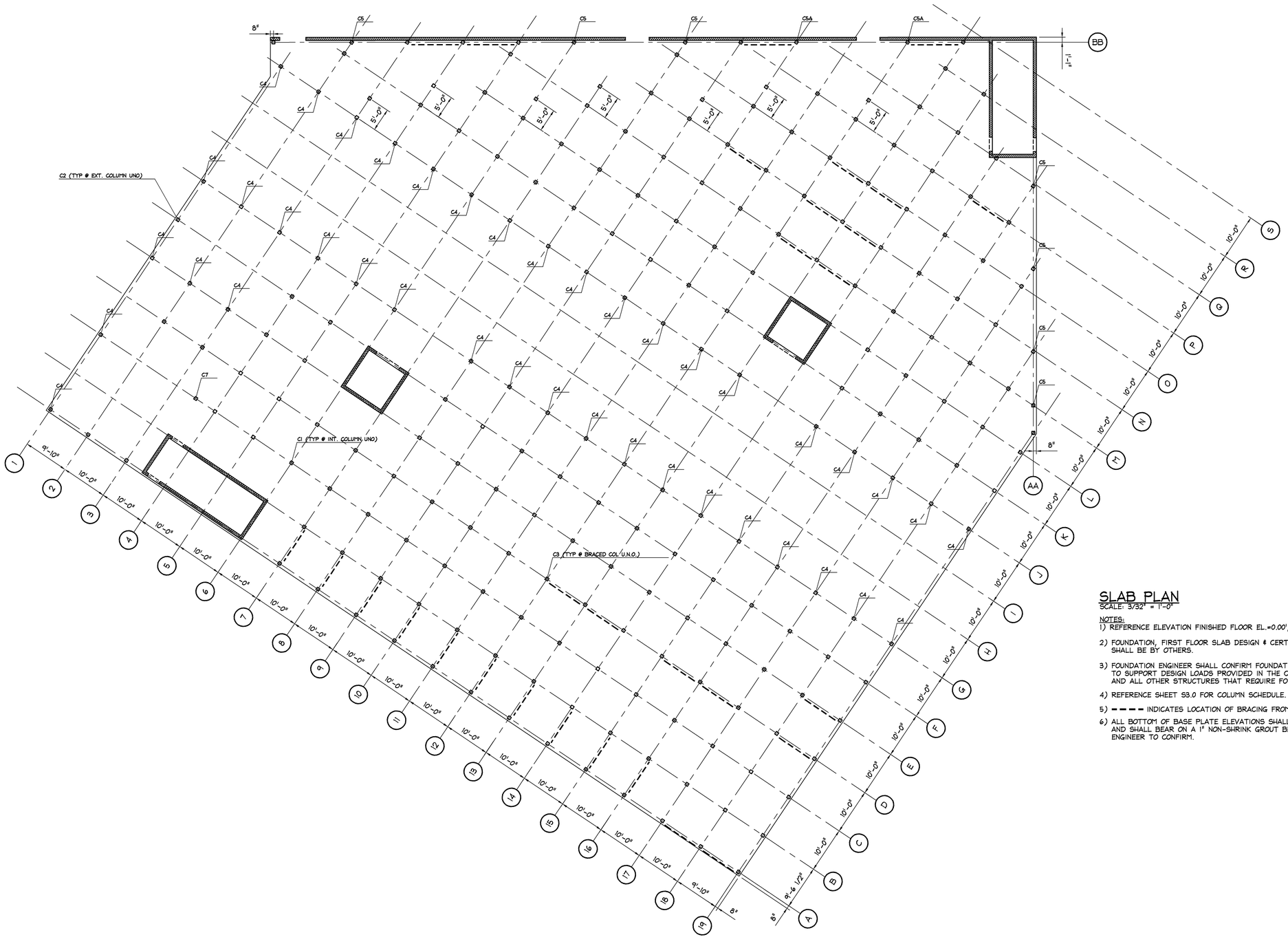
Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

Drawn By: RP
Approved By: AM
Project Number: 06112
Date: 03-18-2008
Scale: AS NOTED
Drawing Number:

S - 4

4/10/2008 8:06:04 AM, DWF6 ePlot.pc3



SLAB PLAN

SCALE: 3/32" = 1'-0"

NOTES:

1) REFERENCE ELEVATION FINISHED FLOOR EL.=0.00', DATUM=0'-0".
2) FOUNDATION, FIRST FLOOR SLAB DESIGN & CERTIFICATION SHALL BE BY OTHERS.
3) FOUNDATION ENGINEER SHALL CONFIRM FOUNDATION IS ADEQUATE TO SUPPORT DESIGN LOADS PROVIDED IN THE COLUMN SCHEDULE AND ALL OTHER STRUCTURES THAT REQUIRE FOUNDATIONS.
4) REFERENCE SHEET S3.0 FOR COLUMN SCHEDULE.
5) — — — — INDICATES LOCATION OF BRACING FROM 1st FLOOR TO 2nd FLOOR.
6) ALL BOTTOM OF BASE PLATE ELEVATIONS SHALLE BE 7" BFFE AND AND SHALL BEAR ON A 1" NON-SHRINK GROUT BED. FOUNDATION ENGINEER TO CONFIRM.

100% CLIENT REVIEW SET
3/07/08

IT IS NOT ACCEPTABLE TO SHOP OR FIELD SPLICE COLUMNS OR BEAMS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM ENGINEER OF RECORD

US PATENT NO. 6,151,851. COPYRIGHT 2006 S920 BUILDING SYSTEMS INC. ALL RIGHTS RESERVED.
THE PATENT FEATURES OF THIS BUILDING SYSTEM MAY NOT BE LAWFULLY MADE, SOLD, ASSEMBLED, OR USED EXCEPT WITH EXPRESS WRITTEN CONSENT.

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGINEERS
111 SOUTH INDEPENDENCE MALL EAST
SUITE 950
PHILADELPHIA, PENNSYLVANIA 19106-2524
TELEPHONE: (215) 925-3788
FAX: (215) 627-1051
Project No. 27610009.00

DEVON
SELF - STORAGE

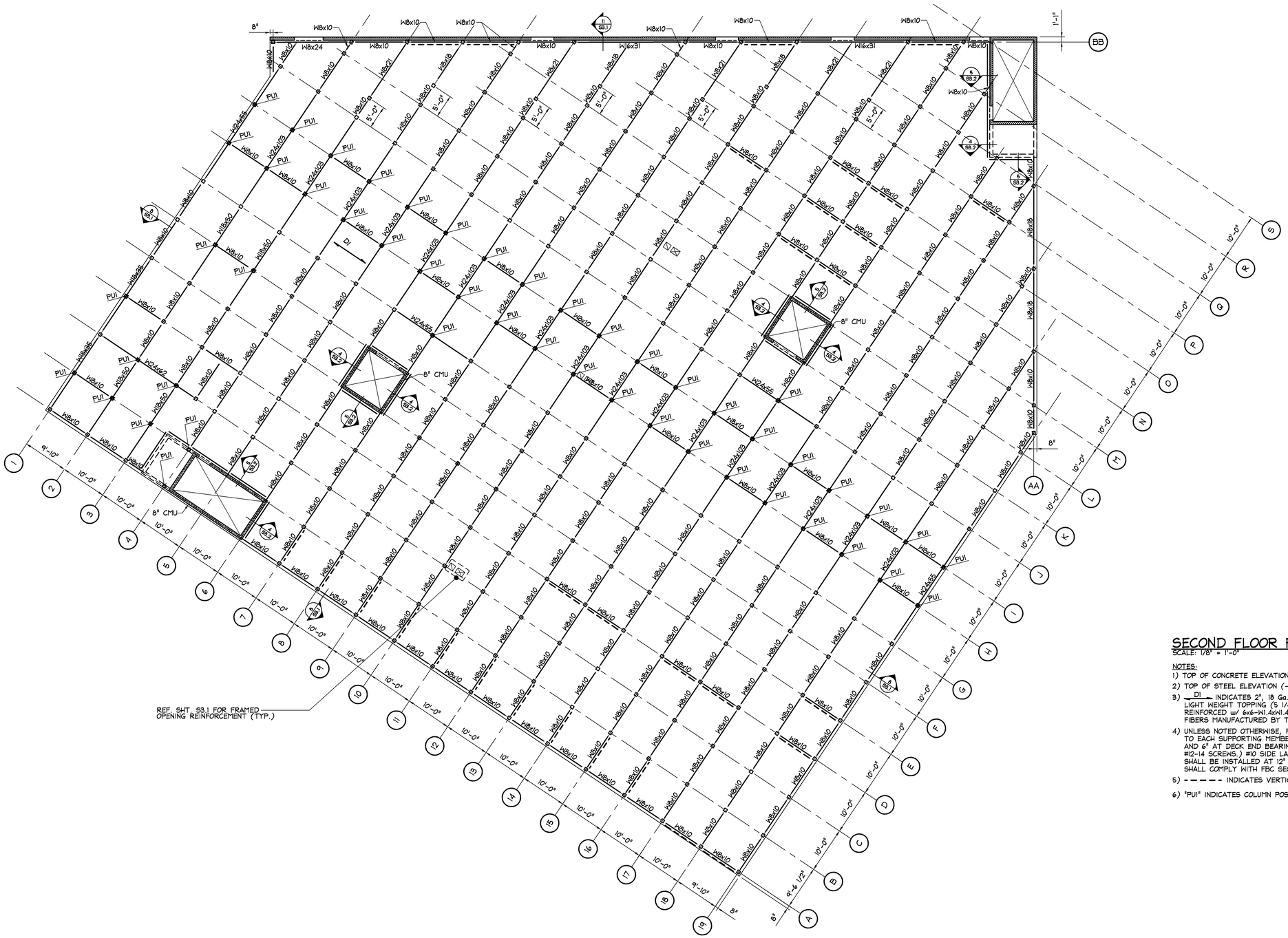
Revisions

No.	Date	Description

Project
DEVON #87
STATEN ISLAND

Drawing:
FIRST FLOOR
FRAMING PLAN

Designed: BFR	Checked: 09/17/07	Sheet
Drawn: CAD	Date 09/17/07	S2.1
Scale: As Noted	Project: 27610009.00	1 of 7



SECOND FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1) TOP OF CONCRETE ELEVATION +15'-3" .
2) TOP OF STEEL ELEVATION (-5 1/4") FROM TOP OF CONCRETE U.N.O.
3) —D1— INDICATES 2", 18 Ga. GALVANIZED COMPOSITE FLOOR DECK w/ A 3 1/4" LIGHT WEIGHT TOPPING (5 1/4" TOTAL, 107-113 PCF) - SLAB SHALL BE REINFORCED w/ 6x6-W1.4xW1.4 WWF OR 20 PCY O DRAMIX 45/50 LOOSE STEEL FIBERS MANUFACTURED BY THE BEKEART CORPORATION.
4) UNLESS NOTED OTHERWISE, FLOOR DECK SHALL BE ATTACHED TO EACH SUPPORTING MEMBER @ 12" o/c AT INTERIOR BEARING AND 6" AT DECK END BEARING (5/8"Φ PUIDDLE WELDS OR #12-14 SCREWS.) #10 SIDE LAP SCREWS BETWEEN SUPPORTS SHALL BE INSTALLED AT 12" o/c MAX. ANCHORAGE OF DECK SHALL COMPLY WITH FBC SECTION 222.4.
5) - - - - - INDICATES VERTICAL CROSS BRACE FROM 2ND TO 3RD FLOOR
6) "PUI" INDICATES COLUMN POST UP. SEE SCHEDULE FOR DETAILS.

100% CLIENT REVIEW SET
3/07/08

IT IS NOT ACCEPTABLE TO SHOP OR FIELD SPLICE COLUMNS OR BEAMS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM ENGINEER OF RECORD

US PATENT NO. 6,151,851. COPYRIGHT 2006 SS20 BUILDING SYSTEMS INC. ALL RIGHTS RESERVED.
THE PATENT FEATURES OF THIS BUILDING SYSTEM MAY NOT BE LAWFULLY MADE, SOLD, ASSEMBLED, OR USED EXCEPT WITH EXPRESS WRITTEN CONSENT.

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGINEERS
111 SOUTH INDEPENDENCE MALL EAST
SUITE 950
PHILADELPHIA, PENNSYLVANIA 19106-2524
TELEPHONE: (215) 925-3788
FAX: (215) 627-1051
Project No. 27610009.00

DEVON
SELF - STORAGE

Revisions

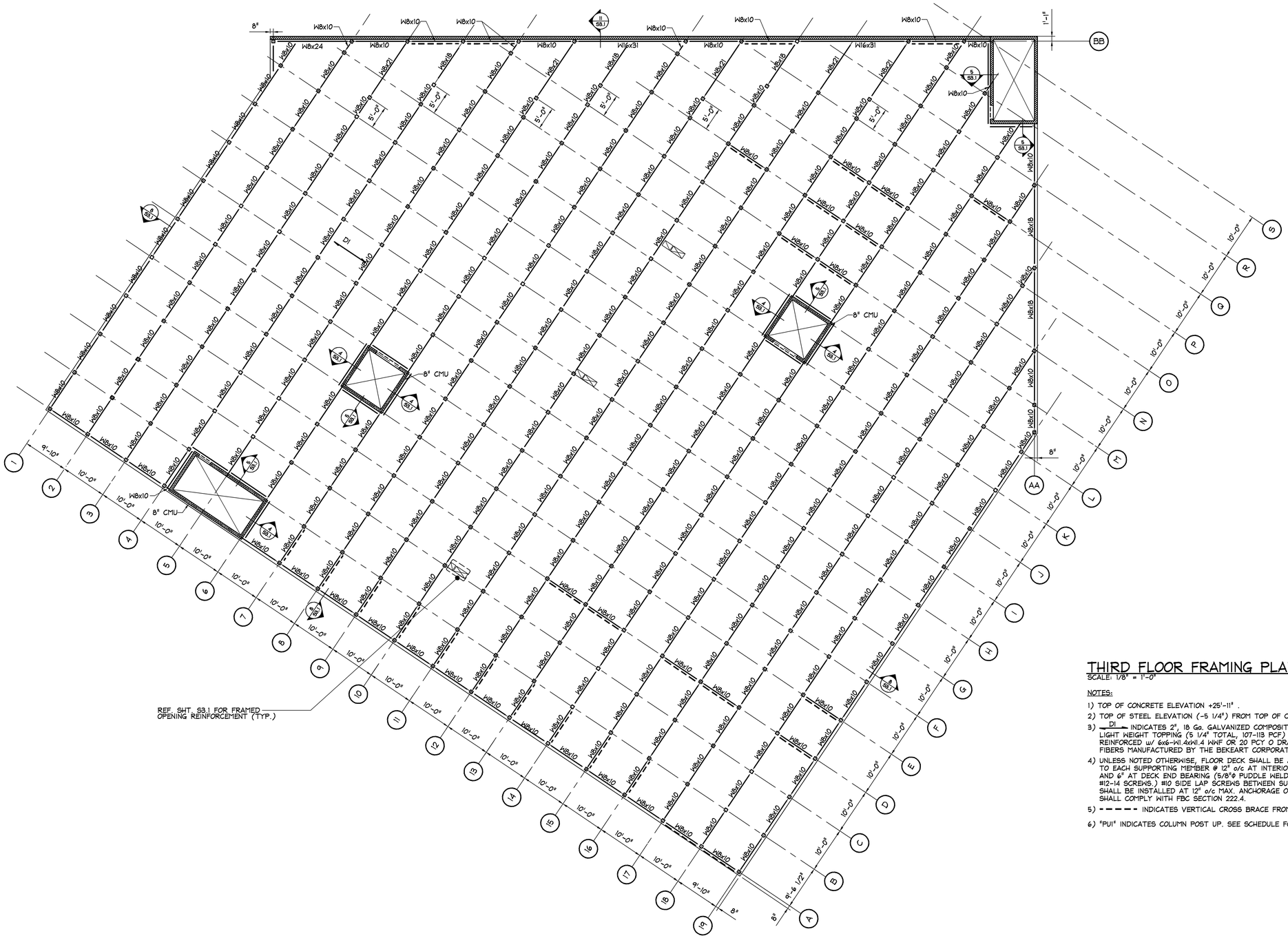
No.	Date	Description

Project
DEVON #87
STATEN ISLAND

Drawing:
SECOND FLOOR FRAMING PLAN

Designed: BFR	Checked: 09/17/07	Sheet
Drawn: CAD	Date 09/17/07	S2.2
Scale: As Noted	Project: 27610009.00	2 of 7

L:\27610009H\Devon S2.2.dwg 01/28/08 15:01 Scale : 1 = 1.00 Plotted By : mehale



THIRD FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1) TOP OF CONCRETE ELEVATION +25'-11"
2) TOP OF STEEL ELEVATION (-5 1/4") FROM TOP OF CONCRETE U.N.O.
3) —D1— INDICATES 2", 18 Ga. GALVANIZED COMPOSITE FLOOR DECK w/ A 3 1/4" LIGHT WEIGHT TOPPING (5 1/4" TOTAL, 107-113 PCF) - SLAB SHALL BE REINFORCED w/ 6x6-W1.4xW1.4 WWF OR 20 PCY O DRAMIX 45/50 LOOSE STEEL FIBERS MANUFACTURED BY THE BEKEART CORPORATION.
4) UNLESS NOTED OTHERWISE, FLOOR DECK SHALL BE ATTACHED TO EACH SUPPORTING MEMBER @ 12" o/c AT INTERIOR BEARING AND 6" AT DECK END BEARING (5/8"Φ PUDDLE WELDS OR #12-14 SCREWS.) #10 SIDE LAP SCREWS BETWEEN SUPPORTS SHALL BE INSTALLED AT 12" o/c MAX. ANCHORAGE OF DECK SHALL COMPLY WITH FBC SECTION 222.4.
5) - - - - - INDICATES VERTICAL CROSS BRACE FROM 3RD TO 4TH FLOOR
6) "PU1" INDICATES COLUMN POST UP. SEE SCHEDULE FOR DETAILS.

100% CLIENT REVIEW SET
3/07/08

IT IS NOT ACCEPTABLE TO SHOP OR FIELD SPLICE COLUMNS OR BEAMS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM ENGINEER OF RECORD

US PATENT NO. 6,151,851. COPYRIGHT 2006 S520 BUILDING SYSTEMS INC. ALL RIGHTS RESERVED.
THE PATENT FEATURES OF THIS BUILDING SYSTEM MAY NOT BE LAWFULLY MADE, SOLD, ASSEMBLED, OR USED EXCEPT WITH EXPRESS WRITTEN CONSENT.

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGINEERS
111 SOUTH INDEPENDENCE MALL EAST
SUITE 950
PHILADELPHIA, PENNSYLVANIA 19106-2524
TELEPHONE: (215) 925-3788
FAX: (215) 627-1051
Project No. 27610009.00

DEVON
SELF - STORAGE

Revisions

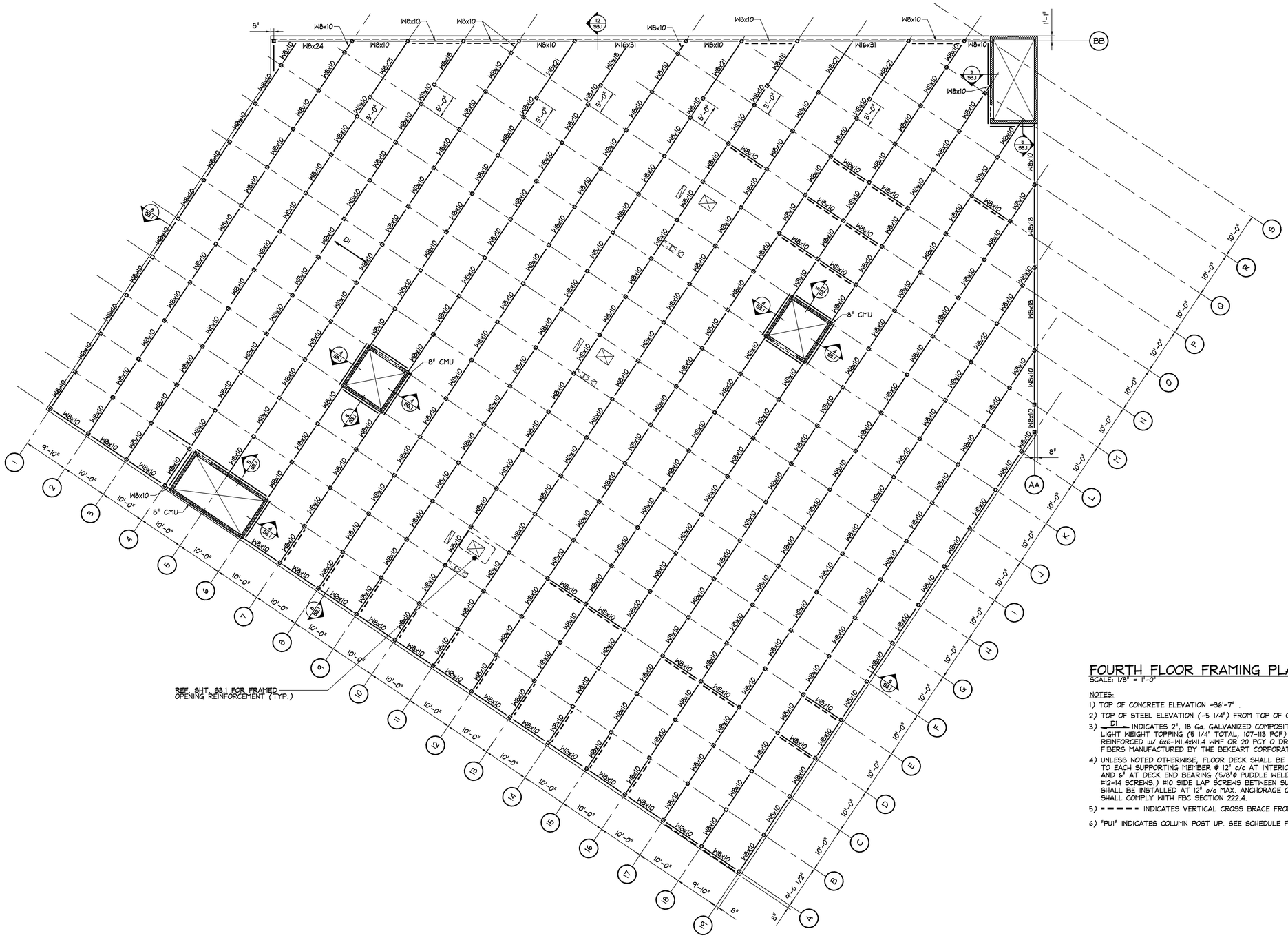
No.	Date	Description

Project
DEVON #87
STATEN ISLAND

Drawing:
THIRD FLOOR FRAMING PLAN

Designed: BFR	Checked: 09/17/07	Sheet
Drawn: CAD	Date 09/17/07	S2.3
Scale: As Noted	Project: 27610009.00	3 of 7

L:\27610009P1\Devon S2.3.dwg 01/28/08 15:01 Scale : 1 = 1.00 Plotted By : nechola



FOURTH FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1) TOP OF CONCRETE ELEVATION +36'-7" .
2) TOP OF STEEL ELEVATION (-5 1/4") FROM TOP OF CONCRETE U.N.O.
3) —DI— INDICATES 2", 18 Ga. GALVANIZED COMPOSITE FLOOR DECK w/ A 3 1/4" LIGHT WEIGHT TOPPING (5 1/4" TOTAL, 107-113 PCF) - SLAB SHALL BE REINFORCED w/ 6x6-W1.4xW1.4 WWF OR 20 PCY O DRAMIX 45/50 LOOSE STEEL FIBERS MANUFACTURED BY THE BEKEART CORPORATION.
4) UNLESS NOTED OTHERWISE, FLOOR DECK SHALL BE ATTACHED TO EACH SUPPORTING MEMBER @ 12" o/c AT INTERIOR BEARING AND 6" AT DECK END BEARING (5/8"ϕ PUDDLE WELDS OR #12-14 SCREWS.) #10 SIDE LAP SCREWS BETWEEN SUPPORTS SHALL BE INSTALLED AT 12" o/c MAX. ANCHORAGE OF DECK SHALL COMPLY WITH FBC SECTION 222.4.
5) — — — — INDICATES VERTICAL CROSS BRACE FROM 4TH FLOOR TO ROOF
6) "PU1" INDICATES COLUMN POST UP. SEE SCHEDULE FOR DETAILS.

100% CLIENT REVIEW SET
3/07/08

IT IS NOT ACCEPTABLE TO SHOP OR FIELD SPLICE COLUMNS OR BEAMS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM ENGINEER OF RECORD

US PATENT NO. 6,151,851. COPYRIGHT 2006 SS20 BUILDING SYSTEMS INC. ALL RIGHTS RESERVED.
THE PATENT FEATURES OF THIS BUILDING SYSTEM MAY NOT BE LAWFULLY MADE, SOLD, ASSEMBLED, OR USED EXCEPT WITH EXPRESS WRITTEN CONSENT.

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGINEERS
111 SOUTH INDEPENDENCE MALL EAST
SUITE 950
PHILADELPHIA, PENNSYLVANIA 19106-2524
TELEPHONE: (215) 925-3788
FAX: (215) 627-1051
Project No. 27610009.00

DEVON
SELF - STORAGE

Revisions

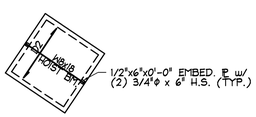
No.	Date	Description

Project
DEVON #87
STATEN ISLAND

Drawing:
FOURTH FLOOR FRAMING PLAN

Designed: BFR	Checked: 09/17/07	Sheet
Drawn: CAD	Date 09/17/07	S2.4
Scale: As Noted	Project: 27610009.00	3 of 7

L:\27610009PA\Devon S2.4.dwg 01/28/08 15:00 Scale : 1 = 1.00 Plotted By : nechols



ELEV. OVERRIDE PLAN

T/CMU: SEE ARCH.

STAIR OVERRIDE PLAN

T/CMU: SEE ARCH.

ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

1) TOP OF STEEL VARIES. SEE PLAN FOR SPOT ELEVATIONS. STEEL FRAMING SHALL SLOPE UNIFORMLY BETWEEN SPOT ELEVATIONS.
2) D2 INDICATES 3", 22 Ga. TYPE "N" ROOF DECK. (G60 GALVANIZED FINISH)
3) ROOF DECK SHALL BE INSTALLED IN A THREE SPAN MIN. CONDITION.
4) SEE TYPICAL ROOF OPENING DETAIL FOR MECHANICAL OPENINGS ON ON DWG. S2.2
5) UNLESS NOTED OTHERWISE, ROOF DECK SHALL BE ATTACHED TO EACH SUPPORTING MEMBER @ 12" o/c AT INTERIOR BEARING AND 6" AT DECK END BEARING (5/8"Φ PUDDLE WELDS OR #12-14 SCREWS.) #10 SIDE LAP SCREWS BETWEEN SUPPORTS SHALL BE INSTALLED AT 2'-0" o/c MAX.
6) ROOF DECK SHALL BEAR DIRECTLY ON MASONRY BOND BEAM AND SHALL BE MECHANICALLY ATTACHED WITH 3/16"Φx2 EMBEDDED CONCRETE SCREWS 8" o/c.
7) PROVIDE L4x4x1/4 FASTENED TO MASONRY w/ 3/4"Φ EXPANSION BOLTS @ 2'-8" o/c (5 1/2" EMBED. MIN.)
8) HATCHED REGION INDICATES FLAT ROOF AREA DESIGNED FOR 3" MAX. OF PONDED WATER. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ADDITIONAL INFORMATION.

100% CLIENT REVIEW SET
3/07/08

IT IS NOT ACCEPTABLE TO SHOP OR FIELD SPLICE COLUMNS OR BEAMS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM ENGINEER OF RECORD

US PATENT NO. 6,151,851. COPYRIGHT 2006 SS20 BUILDING SYSTEMS INC. ALL RIGHTS RESERVED.
THE PATENT FEATURES OF THIS BUILDING SYSTEM MAY NOT BE LAWFULLY MADE, SOLD, ASSEMBLED, OR USED EXCEPT WITH EXPRESS WRITTEN CONSENT.

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGINEERS
111 SOUTH INDEPENDENCE MALL EAST
SUITE 950
PHILADELPHIA, PENNSYLVANIA 19106-2524
TELEPHONE: (215) 925-3788
FAX: (215) 627-1051
Project No. 27610009.00

DEVON
SELF - STORAGE

Revisions

No.	Date	Description

Project
DEVON #87
STATEN ISLAND

Drawing:
ROOF FRAMING PLAN

Designed:	Checked:	Sheet
BFR	09/17/07	
Drawn: CAD	Date 09/17/07	S2.5
Scale: As Noted	Project: 27610009.00	3 of 7

L:\27610009PH\Devon S2.5.dwg 01/28/08 15:46 Scale - 1 = 1.00 Plotted By: mednick

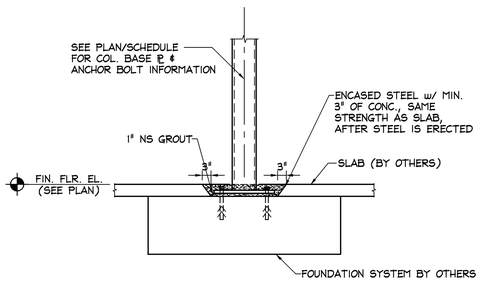
STEEL COLUMN AND FOOTING SCHEDULE

COLUMN DESIGNATION	C1	C2	C3	C4	C5	C5A	C6	C7	PU1
ROOF EL. / 4th FLOOR	HSS 3 1/2x3 1/2x3/16	HSS 3 1/2x3 1/2x3/16	HSS 4x4x1/4	HSS 3 1/2x3 1/2x3/16	HSS 4x4x1/4	HSS 4x4x1/4	HSS 3 1/2x3 1/2x3/16		HSS 3 1/2x3 1/2x3/16
3rd FLOOR	HSS 4x4x3/16	HSS 4x4x3/16	HSS 4x4x1/4	HSS 4x4x3/16	HSS 5x5x1/4	HSS 5x5x1/4	HSS 4x4x3/16		HSS 4x4x3/16
2nd FLOOR	TYP. 1/S3.1; HSS 4 1/2x4 1/2x3/16	TYP. 2/S3.1; HSS 4 1/2x4 1/2x3/16	HSS 4x4x5/16	HSS 4 1/2x4 1/2x3/16	HSS 5x5x1/4	HSS 5x5x1/4	HSS 4 1/2x4 1/2x3/16		3/S3.1; HSS 4 1/2x4 1/2x3/16
1st FLOOR	HSS 5x5x3/16	HSS 5x5x3/16	HSS 5x5x1/4	HSS 6x6x3/8	HSS 5x5x1/4	HSS 5x5x1/4	HSS 7x7x3/8	HSS 7x7x3/8	
BASE PLATE	1x12x0'-8"	1x12x0'-8"	1x12x1'-0"	1x14x1'-2"	1x12x0'-8"	1x12x0'-8"	1x14x1'-2"	1x14x1'-2"	
ANCHOR BOLTS	(4) 1"Φ x 6" EMBED EXP. ANCHORS	(4) 1"Φ x 6" EMBED EXP. ANCHORS	(4) 1"Φ x 6" EMBED EXP. ANCHORS	(4) 1"Φ x 6" EMBED EXP. ANCHORS	(4) 1"Φ x 6" EMBED EXP. ANCHORS	(4) 1"Φ x 6" EMBED EXP. ANCHORS	(4) 1"Φ x 6" EMBED EXP. ANCHORS	(4) 1"Φ x 6" EMBED EXP. ANCHORS	
DL+LL (kips)	49	25	49	115	58	58	115	115	
LATERAL (kips)	-	-	±29	-	-	±29	-	-	

NOTES:
1) ALL SLEEVED BASE COLUMNS SHALL HAVE A 1/2"Φ DRILLED WEEP HOLE LOCATED 2" ABOVE BASE ℄.
2) EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT II (OR APPROVED EQ.)
3) EPOXY ANCHOR RODS SHALL BE INSTALLED USING HILTI HVA ADHESIVE (OR APPROVED EQ.) DRILLED HOLES MUST BE CLEANED WITH A WIRE BRUSH AND COMPRESSED AIR PER MANUFACTURE'S SPECIFICATIONS.

LATERAL LOAD DESIGN SCHEDULE
NEW YORK CITY BUILDING CODE

WIND LOAD			
ITEM	SYMBOL	VALUE	REFERENCE
HEIGHT ABOVE CURB	h	46.9	
DESIGN WIND PRESSURE (STRUCTURAL FRAME)	p	20 PSF	TABLE RS 9-5.1
DESIGN WIND PRESSURE (PANEL GLASS)	p	30 PSF	TABLE RS 9-5.1
SEISMIC LOAD			
ITEM	SYMBOL	VALUE	REFERENCE
SEISMIC ZONE FACTOR	Z	0.15	TABLE 1604.5
SITE COEFFICIENT	S	1.2	SECTION 1615.1
IMPORTANCE FACTOR	I	1.0	SECTION 1615.1
BASIC STRUCTURAL SYSTEM	-	BUILDING FRAME SYSTEM	SECTION 1614.2
SEISMIC RESISTING SYSTEM	-	CONCENTRICALLY BRACED STEEL FRAME	TABLE 1614.3
RESPONSE MODIFICATION FACTOR	R	8	TABLE 1615.1.1



TYPICAL COLUMN DETAIL

TYPICAL ABBREVIATIONS

A.B.	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ADDL.	ADDITIONAL	LLV	LONG LEG VERTICAL
ARCH.	ARCHITECT	L.W.	LIGHT WEIGHT
B.C.E.	BOTTOM CHORD EXTENSION	LWB	LONG WAY BOTTOM
B.O.	BOTTOM OF	MAX.	MAXIMUM
BOTT.	BOTTOM	M.E.P.	MECHANICAL/ELECTRICAL/PLUMBING
BRG.	BEARING	MIN.	MINIMUM
CANT.	CANTILEVER	M.S.T.	METAL STUD TRUSS
CONC.	CONCRETE	N.W.	NORMAL WEIGHT
CONT.	CONTINUOUS	o/c	ON CENTER
EA.	EACH	REINF.	REINFORCEMENT
EL.	ELEVATION	S.O.G.	SLAB ON GRADE
ELEV.	ELEVATOR	SWB	SHORT WAY BOTTOM
E.W.	EACH WAY	TCELE	TOP CHORD EXTENSION LEFT END
EWB	EACH WAY BOTTOM	TCERE	TOP CHORD EXTENSION RIGHT END
EX.	EXISTING	TDS	TURNED DOWN SLAB
EXIST.	EXISTING	TS	THICKENED SLAB
EXP.	EXPANSION	T.O.	TOP OF
FIN.	FINISH	T.O.S.	TOP OF STEEL
FLR.	FLOOR	TYP.	TYPICAL
GA.	GAGE	U.N.O.	UNLESS NOTED OTHERWISE
GALV.	GALVANIZED	VERT.	VERTICAL.
HORIZ.	HORIZONTAL	V.I.F.	VERIFY IN FIELD
INFO.	INFORMATION	w/	WITH
JT.	JOINT	W.R.T.	WOOD ROOF TRUSS
		WWF	WELDED WIRE FABRIC

DESIGN LOAD SCHEDULE
(ALL LOADS SHOWN ARE IN POUNDS PER SQ. FT.)

COMPONENT \ AREA	TYPICAL FLOOR	ROOF				
CONCRETE SLAB	45					
ROOF & INSULATION		5				
STEEL & JOIST	2	2				
COLLATERAL	3	3				
TOTAL DEAD LOAD	50	10				
TOTAL LIVE LOAD	125	30				
TOTAL LOAD	175	40				

GENERAL CONSTRUCTION

1. NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS NOTED OTHERWISE. TYPICAL DETAILS ARE TO BE USED FOR ALL CONDITIONS WHERE THE DETAIL IS APPLICABLE, WHETHER OR NOT NOTED ON PLAN. TYPICAL DETAILS MAY BE SLIGHTLY ALTERED IF REQUIRED DUE TO PROJECT CONDITIONS, ONLY WHEN SUBMITTED AND THE ENGINEER'S APPROVAL IS OBTAINED PRIOR TO PERFORMING THE WORK.

2. ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS, WITH THE EXCEPTION OF STRUCTURAL MEMBER SIZES, ARE GENERATED BY OTHER DISCIPLINES. ANY DIMENSIONS OR ELEVATIONS OMITTED OR NOT SHOWN ON THE STRUCTURAL DRAWINGS SHOULD BE OBTAINED FROM THE DRAWINGS OF THE OTHER DISCIPLINES. STRUCTURAL DRAWINGS ARE NOT "STAND-ALONE" DOCUMENTS AND SHOULD BE USED IN CONJUNCTION WITH, AND COORDINATED WITH THE SPECIFICATIONS, ARCHITECTURAL DRAWINGS AND ALL OTHER DISCIPLINE'S DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER AND ARCHITECT PRIOR TO PERFORMING THE WORK.

3. IF DIFFERENCES OCCUR WITHIN OR BETWEEN DRAWINGS AND SPECIFICATIONS REGARDING MATERIALS, STRENGTHS OR QUANTITIES, THE BETTER MATERIAL, HIGHER STRENGTH, AND GREATER QUANTITY INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.

4. REPRODUCTIONS OF STRUCTURAL DRAWINGS FOR SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED, UNLESS WRITTEN APPROVAL IS REQUESTED BY THE CONTRACTOR AND IT IS GRANTED BY O'DONNELL & NACCARATO, INC.

5. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.

6. THESE DRAWINGS DO NOT DEFINE SCOPE OF CONTRACTOR OR SUBCONTRACTOR CONTRACTS.

7. AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING MEANS AND METHODS OF CONSTRUCTION AND SAFETY OF PERSONS AND PROPERTY. THE ENGINEER'S PRESENCE OR REVIEW OF WORK AT THE JOBSITE IS FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY AND IS NOT EVER TO BE CONSTRUED AS A REVIEW OF MEANS AND METHODS OF CONSTRUCTION AND SAFETY METHODS.

8. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND FOR PROTECTING THE COMPLETED OR INCOMPLETED STRUCTURAL FRAMING FROM DAMAGE DUE TO TEMPORARY CONSTRUCTION LOADINGS.

9. COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR ERRORS WILL BE AT THE CONTRACTOR'S EXPENSE.

10. ANY APPROVED CONTRACTOR REQUESTED CHANGES TO THESE DRAWINGS WILL BE DONE AT NO COST TO THE OWNER. APPROVAL OF CONTRACTOR REQUESTED CHANGES IN NO WAY STATES OR IMPLIES APPROVAL OF A CHANGE IN SCOPE OR CHANGE IN CONTRACT COST.

11. UNLESS EXPLICITLY NOTED AS "ISSUED FOR BID", THESE DRAWINGS ARE NOT SUITABLE FOR OBTAINING BIDS FROM GENERAL OR SUBCONTRACTORS. BIDDING OF DRAWINGS PRIOR TO DESIGN COMPLETION AND "ISSUED FOR BID" IS DONE AT THE SOLE RISK OF THE BIDDING CONTRACTOR. ADDITIONS OR CORRECTIONS TO DRAWINGS THAT ARE BID PRIOR TO DESIGN COMPLETION AND "ISSUED FOR BID" WILL NOT BE CONSIDERED AS DESIGN ERRORS OR OMISSIONS. STRUCTURAL DESIGN, BY NATURE, CANNOT BE COMPLETE PRIOR TO COMPLETION OF ARCHITECTURAL AND MECHANICAL DRAWINGS.

12. ALL REFERENCES TO WATER/DAMPROOFING AND FIREPROOFING ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALL WATER/DAMPROOFING AND FIREPROOFING DETAILS AND REQUIREMENTS.

13. IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY. THE CONTRACTOR MUST PROVIDE A SKETCH OF THE CONDITION WITH HIS PROPOSED MODIFICATION OF THE DETAILS GIVEN ON THE CONTRACT DOCUMENTS. THIS SKETCH MUST BE SUBMITTED TO AND APPROVAL MUST BE GRANTED BY THE ENGINEER PRIOR TO PERFORMING THE WORK.

14. IN NO CASE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION/BASEMENT WALL. IF THE CONTRACTOR DEEMS IT NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THEN 8'-0", THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND, AT HIS OWN EXPENSE, PROVIDE ADEQUATE SUPPORTS OR WALL BRACES TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT.

15. SIZE AND/OR LOCATION OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, DEPRESSIONS, ETC. SHOWN ON THE STRUCTURAL DOCUMENTS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE TO COORDINATE ALL CONTRACT DOCUMENTS TO DETERMINE THE SIZE AND/OR LOCATION OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, DEPRESSIONS, ETC.

16. SIZE AND/OR LOCATION OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE STRUCTURAL DOCUMENTS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY BY FIELD MEASUREMENTS/INVESTIGATION THE SIZE AND/OR LOCATION OF ALL EXISTING STRUCTURES AND UTILITIES.

17. THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED CALCULATIONS BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED SHOWING DESIGNS OF METAL STAIRS, METAL RAILINGS AND CONNECTIONS TO STRUCTURE TAKING INTO ACCOUNT THE VERTICAL AND LATERAL LOADS STATED IN THE GOVERNING CODES. WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNATED ON THE STRUCTURAL CONTRACT DOCUMENTS TO SUPPORT THE STAIRS, THE CONNECTIONS FROM THE STAIRS SHALL BE DESIGNED SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE IMPOSED ON THESE STRUCTURAL MEMBERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL EMBEDDED ITEMS AND HARDWARE AS REQUIRED PER THE STAIR DESIGN.

CONCRETE

1. REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR COVER AS FOLLOWS, UNLESS NOTED OTHERWISE ON DRAWINGS:

CONCRETE POURED AGAINST EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 OR SMALLER	1 1/2"
#6 OR LARGER	2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
COLUMNS (TIES AND MAIN REINFORCING)	1 1/2"
SLABS, WALLS, JOISTS: #14 OR #18 BARS	1 1/2"
#11 OR SMALLER	3/4"
BEAMS (STIRRUPS AND MAIN REINFORCING)	1 1/2"

CLEAR COVER SHALL BE CLEARLY SHOWN ON ALL REINFORCING BAR DETAIL DRAWINGS.

2. ALL CONCRETE SHALL BE READY-MIX AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF:

CONCRETE SLABS ON METAL DECK 3,500 PSI

OR AS SHOWN ON DRAWINGS. HAVE A MINIMUM OF 500 LBS. OF CEMENT PER CUBIC YARD. SLUMP (AT POINT OF CONCRETE PLACEMENT) SHALL BE 3 INCH MINIMUM AND 6 INCH MAXIMUM. CONCRETE EXPOSED TO WEATHER SHALL HAVE 5 PERCENT AIR ENTRAINMENT. SUBMIT MIX DESIGNS FOR REVIEW.

ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST ACI BUILDING CODE (ACI 318), THE ACI DETAILING MANUAL (ACI 315) AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)

3. ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE 60. WWF SHALL COMPLY WITH ASTM A185.

4. DEVELOPMENT LENGTHS, NOTED AS LD ON DRAWINGS, AND SPLICE/LAP LENGTHS OF ALL REINFORCING STEEL TO BE PER DETAIL WITH NOTES ENTITLED "TABLE FOR REINFORCING DEVELOPMENT LENGTH AND LAP SPLICE LENGTH". LAP ALL WWF A MINIMUM OF SIX INCHES.

5. ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, ETC. AS REQUIRED BY ALL TRADES BEFORE THE CONCRETE IS POURED. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, AS WELL AS THE STRUCTURAL DRAWINGS FOR THE LOCATION, NUMBER, AND SIZE OF ALL OPENINGS, SLEEVES, ETC. HOWEVER, OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INSTALLED ONLY AFTER APPROVAL BY THE STRUCTURAL ENGINEER IS OBTAINED. DRAWINGS SHALL BE SUBMITTED FOR REVIEW SHOWING LOCATIONS AND DIMENSIONS OF ALL OPENINGS, SLEEVES, ETC. IN CAST-IN-PLACE CONCRETE SLABS, BEAMS, WALLS, COLUMNS, AND FOUNDATIONS. THESE DRAWINGS SHALL BE COORDINATED BY THE CONTRACTOR. OPENINGS AND SLEEVES THROUGH CAST-IN-PLACE CONCRETE FRAMING IS PROHIBITED EXCEPT WHERE THOSE SLEEVES AND OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS OR WHERE THEY ARE SHOWN ON THE APPROVED SLEEVE AND OPENING DRAWINGS THAT HAVE BEEN SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. SAW-CUTTING, CORING, OR DRILLING OF SLEEVES OR OPENING THROUGH PREVIOUSLY CAST CONCRETE IS NOT PERMITTED EXCEPT WHERE SPECIFICALLY REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.

6. SUBMIT ALL REINFORCING SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION.

7. FOR CONCRETE SLABS ON METAL DECK, FLOORS SHALL BE POURED TO THE THICKNESS SHOWN ON DOCUMENTS, NOT TO A LEVEL LINE.

STEEL

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE. ALL WIDE FLANGE SHAPES SHALL BE ASTM A992 GRADE 50. ALL OTHER STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS NOTED OTHERWISE. ALL STEEL RECTANGULAR/SQUARE HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500 GRADE B, FY=46 KSI. ALL STEEL PIPE SECTIONS SHALL BE ASTM A501 OR ASTM A53, TYPE E OR S GRADE B. ALL STEEL SHALL HAVE A SHOP COAT OF RUST INHIBITIVE PAINT. DELETE PAINT ON ALL STEEL TO RECEIVE SPRAYED-ON FIREPROOFING OR CONCRETE ENCASEMENT, AS NOTED ON ARCHITECTURAL DOCUMENTS. ORIENT ALL MILL CAMBER UPWARD DURING FABRICATION AND ERECTION. ALL STEEL SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH SSPC- SP3 PRIOR TO PAINTING.

2. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE", AWS D1.1, TO PERFORM THE TYPE OF WORK REQUIRED.

3. ALL CONNECTIONS SHALL BE BOLTED WITH MINIMUM 3/4" DIAMETER A325 OR A490 HIGH STRENGTH BOLTS OR WELDED. USE FULL DEPTH DOUBLE ANGLE CONNECTIONS ON ALL GIRDER AND BEAM CONNECTIONS TO COLUMNS, UNLESS OTHERWISE NOTED. INFILL BEAM CONNECTIONS SHALL BE FULL DEPTH DOUBLE ANGLE CONNECTIONS, UNLESS NOTED OTHERWISE. BOLTS SHALL BE AT 3 INCH O/C VERTICALLY.

4. ALL ALUMINUM AND STEEL MEMBERS SHALL BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS.

5. ALL STEEL WELDING RODS SHALL BE E70XX.

6. SUBMIT ALL STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION.

7. ALL LINTELS AND SHELF ANGLES WITHIN EXTERIOR WALLS SHALL BE HOT DIP GALVANIZED. ANY POINTS OF WELDING SHALL BE TOUCHED UP IN THE FIELD WITH A ZINC-RICH PAINT BY THE STEEL ERECTOR.

8. ALL EXPOSED STEEL (INCLUDING BUT NOT LIMITED TO DUNNAGE FRAMING, TRELLIS FRAMING, CANOPY FRAMING, ETC.) SHALL BE HOT DIP GALVANIZED. ANY POINTS OF WELDING SHALL BE TOUCHED UP IN THE FIELD WITH A ZINC-RICH PAINT BY THE STEEL ERECTOR.

9. ALL BEARING TYPE BOLTED CONNECTIONS SHALL BE TIGHTENED TO A "SNUG-TIGHT" CONDITION IN WHICH ALL PLIES AR IN FULL CONTACT RESULTING FROM A FEW IMPACTS FROM AND IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

METAL SIDING

1. METAL SIDING AND LIGHTGAGE GIRTS AS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE TO BE DESIGNED, MANUFACTURED AND ERECTED BY A QUALIFIED METAL SIDING FABRICATOR. SUBMIT SHOP DRAWINGS AND SEALED CALCULATIONS FOR REVIEW BY ENGINEER CLEARLY DENOTING SIZE, GAGE, PROPERTIES AND CONNECTIONS OF ALL SIDING AND GRT MEMBERS.

2. METAL SIDING FABRICATOR SHALL DESIGN METAL SIDING AND SUPPORT SYSTEM FOR LATERAL DEFLECTION OF L/180. SUBMIT SEALED CALCULATIONS FOR REVIEW BY THE STRUCTURAL ENGINEER AND OR ARCHITECT.

DECK

1. STEEL ROOF DECK SHALL BE 3" 22 GA. TYPE N METAL DECK AS MANUFACTURED BY UNITED STEEL DECK, INC. OR APPROVED EQUAL. MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE. ROOF DECK FABRICATION AND INSTALLATION MUST COMPLY WITH STEEL DECK INSTITUTE STANDARDS. ALL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.

2. ATTACH TYPE N METAL ROOF DECK TO STRUCTURAL STEEL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS (4 WELDS PER 24" WIDE SHEET PER SUPPORT) FASTEN SIDE JOINTS TOGETHER WITH #10 SELF DRILLING SCREWS, AT 2'-0" ON-CENTER MAXIMUM BETWEEN SUPPORTS.

3. IN AREAS OF WARPED ROOF DECK USE SELF DRILLING SCREWS FOR CONNECTIONS OF STEEL ROOF DECK TO STRUCTURAL STEEL SUPPORTS. SCREW SIZES SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS, ATTACH DECK TO ALL SUPPORTING MEMBERS.

4. STANDING SEAM ROOF DECKING, PURLINS AND CONNECTIONS SHALL BE DESIGNED, MANUFACTURED AND INSTALLED BY A QUALIFIED MANUFACTURER. MANUFACTURER SHALL SUBMIT SEALED CALCULATIONS AND SHOP DRAWINGS WHICH COMPLY WITH ALL APPLICABLE CODES FOR REVIEW BY ENGINEER CLEARLY DENOTING SIZE, GAGE, PROPERTIES AND CONNECTIONS FOR DECKING AND PURLINS.

5. FLOOR DECK SHALL BE GALVANIZED 3" - 20 GAGE OR 2" 18 GAGE AS INDICATED LOK-FLOOR COMPOSITE METAL DECK AS MANUFACTURED BY UNITED STEEL DECK, INC. OR APPROVED EQUAL. MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE. FLOOR DECK FABRICATION AND INSTALLATION MUST COMPLY WITH STEEL DECK INSTITUTE STANDARDS. ALL FLOOR DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.

6. FLOORS HAVE BEEN DESIGNED AS COMPOSITE DECK. DECK SHORING IS NOT REQUIRED UNLESS NOTED OTHERWISE ON DRAWINGS. LARGE DEAD LOAD DEFLECTIONS ARE ANTICIPATED IN UNCAMBERED MEMBERS. THE CONTRACTOR MAY, AT HIS/HER OPTION AND COST, UTILIZE BEAM AND/OR DECK SHORING.

LIGHTGAGE METAL FRAMING

1. LIGHTGAGE METAL STUD DESIGNATION SHOWN ON STRUCTURAL DRAWINGS ASSUME MARINO WARE AS A DESIGN BASIS. MANUFACTURER MUST SUBMIT LITERATURE INDICATING THAT THE MEMBERS SUPPLIED PROVIDE EQUIVALENT STRENGTH AND STIFFNESS. MANUFACTURER AND/OR SUPPLIER TO PREPARE INFORMATION INDICATING CAPACITY OF MEMBERS, FRAMING DETAILS, CONNECTIONS, BRACING, BRIDGING AND ALL OTHER APPURTENANCES OF MEMBERS TO CONFORM TO LOAD CRITERIA AS DIRECTED BY CONTRACTOR/CONSTRUCTION MANAGER.

2. ALL LINTELS INDICATED ON DRAWINGS AS METAL STUD LINTELS ARE TO BE PROVIDED BY STUD MANUFACTURER/SUPPLIER.

3. ALL STEEL STUDS SHALL BE HOT-DIPPED GALVANIZED (G 60) IN ACCORDANCE WITH ASTM A924. STEEL STUDS SHALL BE DESIGNED, MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS AND SHALL COMPLY WITH ASTM A653 & C955. ALL STUDS, JOISTS, AND ACCESSORIES SHALL HAVE THE FOLLOWING MATERIAL STRENGTHS:

54 MILS (16 gage) AND HEAVER - Fy = 50KSI.
33 MILS, 43 MILS (20 GA, 18 GA RESPECTIVELY) - Fy = 33KSI.

4. ALL WELDING OF LIGHT GAGE STEEL FRAMING MUST BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.3, SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES.

5. MAKE CONNECTIONS WITH SELF-TAPPING SCREWS OR WELDING SO THAT THE CONNECTIONS MEET OR EXCEED THE DESIGN LOADS. ALWAYS USE WELDS WHERE SHOWN ON DRAWINGS.

6. CUT ALL LIGHT GAGE STEEL FRAMING MEMBERS WITH SAWS OR SHEARS. FLAME CUTTING IS NOT PERMITTED.

7. THE LIGHT GAGE STEEL FRAMING SUPPLIER AND ERECTOR SHALL HAVE A MINIMUM 5 YEARS EXPERENCE IN THE FABRICATION AND ERECTION OF LIGHT GAGE STEEL FRAMING SYSTEMS.

100% CLIENT REVIEW SET
3/07/08

IT IS NOT ACCEPTABLE TO SHOP OR FIELD SPLICE COLUMNS OR BEAMS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM ENGINEER OF RECORD

US PATENT NO. 6,151,851. COPYRIGHT 2006 SS20 BUILDING SYSTEMS INC. ALL RIGHTS RESERVED.
THE PATENT FEATURES OF THIS BUILDING SYSTEM MAY NOT BE LAWFULLY MADE, SOLD, ASSEMBLED, OR USED EXCEPT WITH EXPRESS WRITTEN CONSENT.

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGINEERS
111 SOUTH INDEPENDENCE MALL EAST
SUITE 950
PHILADELPHIA, PENNSYLVANIA 19106-2524
TELEPHONE: (215) 925-3788
FAX: (215) 627-1051
Project No. 27610009.00

DEVON
SELF - STORAGE

Revisions

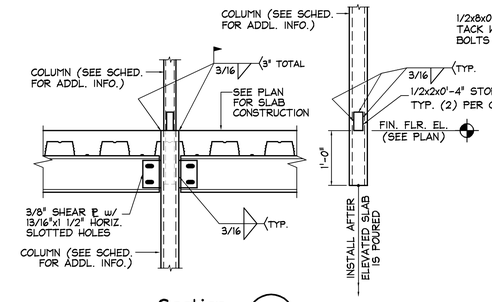
No.	Date	Description

Project
DEVON #87
STATEN ISLAND

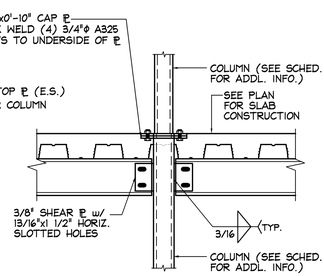
Drawing:
GENERAL NOTES AND SECTIONS

Designed: BFR	Checked: 09/17/07	Sheet
Drawn: CAD	Date 09/17/07	S3.0
Scale: As Noted	Project: 27610009.00	of 7

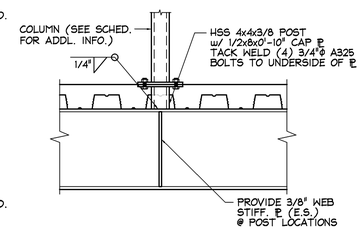
L:\27610009\Devon S3.0.dwg 01/18/08 15:51 Scale : 1 = 1.00 Plotted By : dbennell



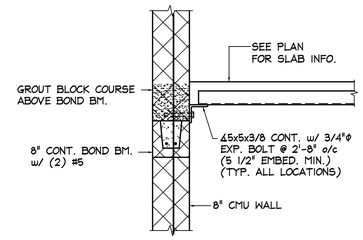
Section 1 / S3.1



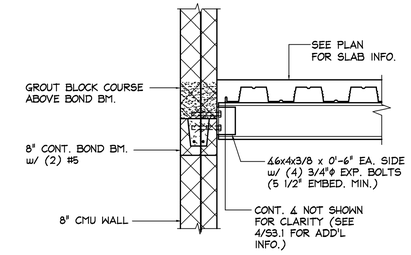
Section 2 / S3.1



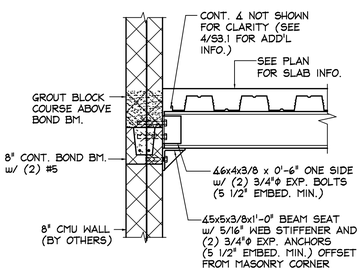
Section 3 / S3.1



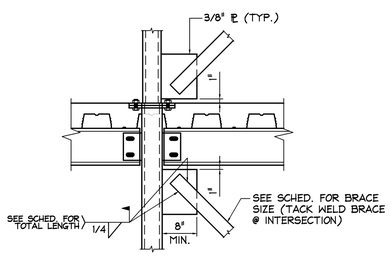
Section 4 / S3.1



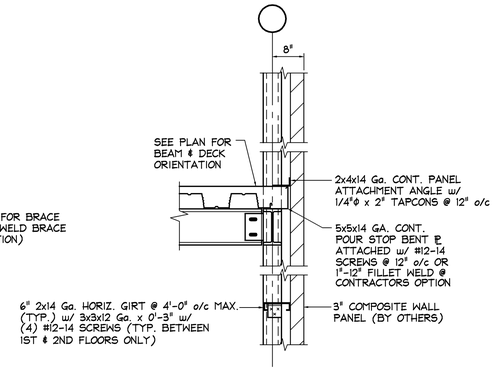
Section 5 / S3.1



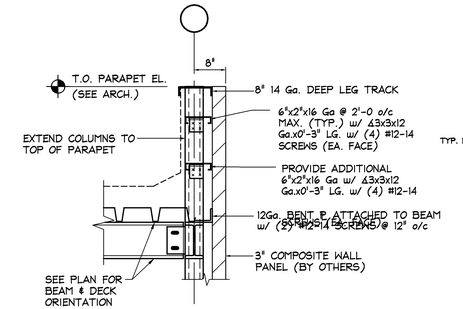
Section 6 / S3.1



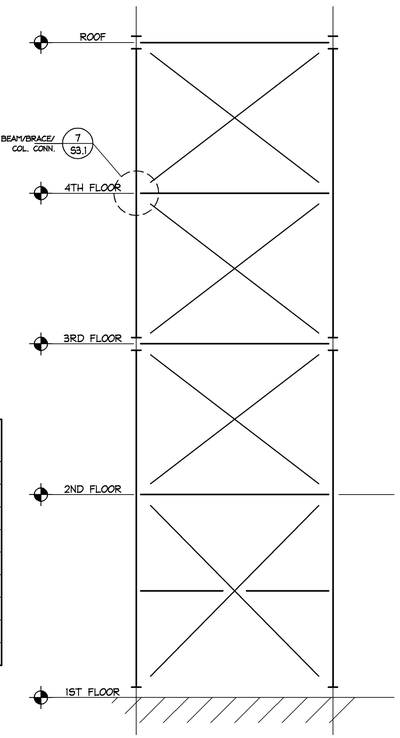
Section 7 / S3.1



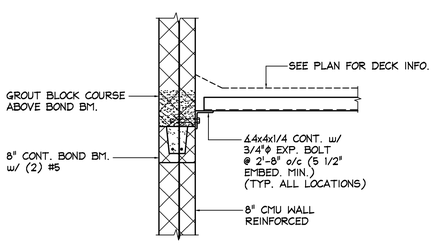
Section 8 / S3.1



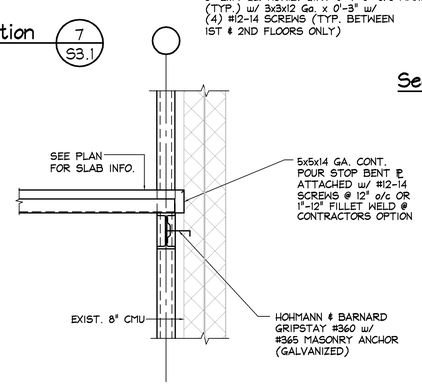
Section 9 / S3.1



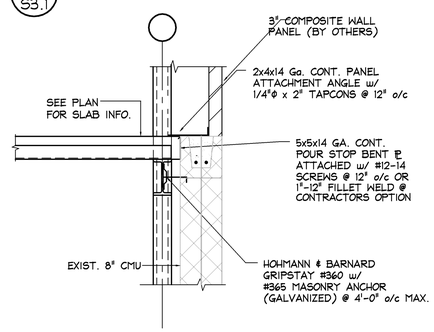
X-BRACE ELEVATION A / S3.1



Section 10 / S3.1



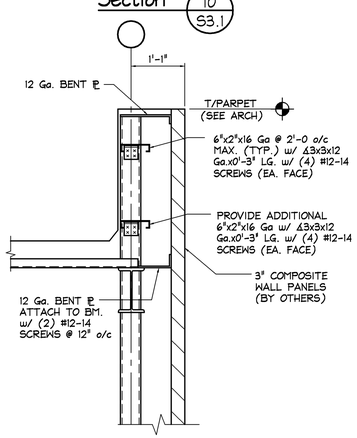
Section 11 / S3.1



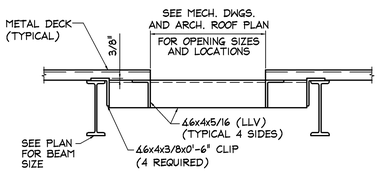
Section 12 / S3.1

'X' BRACE SCHEDULE

LEVEL		
4TH - ROOF	PL SIZE	3/8x4 PL
	WELD LENGTH	4"
3RD - 4TH	PL SIZE	3/8x4 PL
	WELD LENGTH	6"
2ND - 3RD	PL SIZE	3/8x4 PL
	WELD LENGTH	6"
1ST - 2ND	PL SIZE	3/8x4 PL
	WELD LENGTH	6"

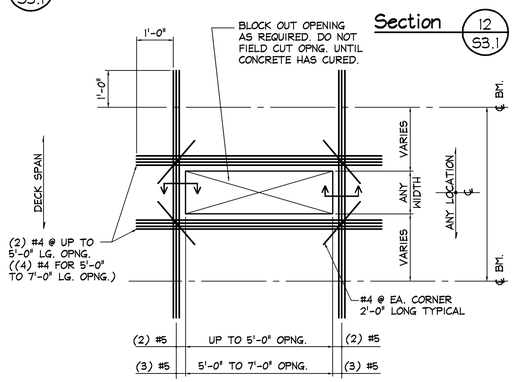


Section 13 / S3.1



TYPICAL ROOF OPENING DETAIL

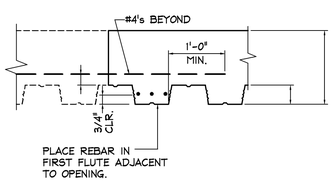
(PROVIDE AT PERIMETER OF ALL ROOFTOP MECHANICAL UNITS AND ROOF OPENINGS LARGER THAN 12" SQ. AS REQUIRED)



NOTE:
FOR OPENINGS LONGER THAN 7'-0" (PERPENDICULAR TO DECK SPAN) NOTIFY ENGINEER.

TYPICAL FLOOR OPENING REINFORCING DETAIL

(COMPOSITE CONSTRUCTION)



100% CLIENT REVIEW SET
3/07/08

IT IS NOT ACCEPTABLE TO SHOP OR FIELD SPLICE COLUMNS OR BEAMS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM ENGINEER OF RECORD

US PATENT NO. 6,151,851. COPYRIGHT 2006 SS20 BUILDING SYSTEMS INC. ALL RIGHTS RESERVED.
THE PATENT FEATURES OF THIS BUILDING SYSTEM MAY NOT BE LAWFULLY MADE, SOLD, ASSEMBLED, OR USED EXCEPT WITH EXPRESS WRITTEN CONSENT.

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGINEERS
111 SOUTH INDEPENDENCE MALL EAST
SUITE 950
PHILADELPHIA, PENNSYLVANIA 19106-2524
TELEPHONE: (215) 925-3788
FAX: (215) 627-1051
Project No. 27610009.00

DEVON
SELF - STORAGE

Revisions

No.	Date	Description

Project
DEVON #87
STATEN ISLAND

Drawing:
SECTIONS AND DETAILS

Designed: BFR	Checked: 09/17/07	Sheet
Drawn: CAD	Date 09/17/07	S3.1
Scale: As Noted	Project: 27610009.00	of 7

L:\27610009P\Devon S3.1.dwg 01/21/08 13:58 Scale : 1 = 1.00 Plotted By : dfennell

M E C H A N I C A L   S P E C I F I C A T I O N S

I. SECTION I – GENERAL REQUIREMENTS FOR MECHANICAL WORK

A. GENERAL

1. The applicable provisions of these General Requirements shall be held binding to both Mechanical Contractors and all the Sub–Contractors.

B. GENERAL CONDITIONS OF THE CONTRACTS

1. The General Conditions of the Contract shall be as outlined and specified under the contract for construction and associated contract documents.

C. SPECIAL CONDITIONS OF THE CONTRACTS

1. Special conditions as specified in all the subsequent sections and paragraphs shall modify and augment the general conditions of the contract and shall take precedence over the latter where there is a conflict between the two.

2. Mechanical Contractors and all their sub–contractors shall cooperate and work in close conjunction with each other and with the General Contractor to assure a complete, well coordinated installation of Mechanical systems.

3. All contractors bidding the project shall visit the job site and become familiar with all job conditions prior to submitting bid; no extra compensation will be paid for extra work made necessary by the contractor's failure to do so. All work required to accommodate existing conditions, whether shown on these documents or not, shall be coordinated and all costs to do so shall be included in the bids. Contractors shall pay special attention to existing conditions affecting removal of existing equipment

4. The Mechanical Contractors shall submit a detailed cost breakdown of their bids. The schedule of values shall consist of a line item for each major piece of equipment with a column showing material and labor costs.

D. SCHEDULING OF WORK

1. Each contractor shall schedule his work with the Owner and the General Contractor prior to beginning work. No work is to begin prior to scheduling by the Owner.

2. All work shall be done during normal working hours except where such work will excessively disrupt daily construction operations or where such work presents danger to the construction personnel. Include all costs for overtime required by this stipulation.

3. All materials, scaffolding, tools and other equipment must be on the job or readily available to each contractor prior to beginning any of the work

4. Each contractor shall coordinate with Owner's personnel to assure no interference with normal business operations. Owner's work areas must be maintained in a clean and orderly condition to allow normal business to be conducted each day. Day–to–day storage of materials, equipment and scaffolding shall be limited to areas designated by the Owner. Passage ways, exit–ways or doorways shall not be obstructed by any materials or equipment.

5. Each contractor shall be responsible for all protecting persons and property from any possible damage due to his work. He shall maintain dust barriers, barricades and any other precautions necessary to accomplish this.

E. CLEANING

1. Each contractor, upon completion of his day's work, shall remove all tools, materials, apparatus and rubbish of any sort. Premises shall be left neat and orderly and in a "broom clean" condition. Upon completion of project, premises shall be cleaned to satisfaction of Owner.

F. DAMAGE

1. Any damage done to the existing building or new work shall be corrected and damage repaired to its original condition to the satisfaction of the Owner by the responsible contractor.

G. CUTTING AND PATCHING

1. All cutting shall be done by each contractor as required for the installation of his work. Cutting shall be patched and refinished to the Owner's satisfaction.

H. GUARANTEE

1. Prior to final acceptance of the work, a written statement shall be furnished to Owner guaranteeing all equipment against defective materials and workmanship for one (1) year from date of acceptance. Upon notice from Owner, the contractor shall promptly make good all defective workmanship and replace all defective materials during that period. Compressors in air conditioning units shall be guaranteed for five years.

I. WORKMANSHIP

1. All work shall be installed in an approved first–class, neat and workmanlike manner by mechanics competent in the trade. All details of the installation shall be mechanically and electrically correct.

J. MATERIAL APPROVALS

1. Eight (8) copies of shop drawings shall be submitted and approval obtained for all equipment before final release of those items. Engineer's review is given only for general compliance with contract requirements, and does not relieve the contractor from any obligation under taken under the contract.

2. Equipment shall be provided exactly as specified and no substitution will be permitted. Where more than one manufacturer is mentioned, any of those will be acceptable but no others will be considered. This contractor shall be responsible for any differences required by substitutions from the basis of design, whether listed as an equal or not. The contractor shall pay the cost of any other trades or the cost of the Architect or Engineer for changes that are required due to a substitution.

K. SCAFFOLDING

1. Each contractor shall provide scaffolding necessary for installation of his work. Upon completion of installation, scaffolding shall be removed.

L. LOCATIONS OF EQUIPMENT

1. Drawings are essentially diagrammatic in nature, and are not intended to show exact locations. Existing conditions and/or Architect's detailed drawings shall be consulted and outlets located so they best serve intended purpose and do not interfere with other work. It shall be the responsibility of each contractor to coordinate locations sufficiently in advance so as not to interfere with progress of his work or that of other contractors

M. DEFINITIONS

1. Wherever the word "provide" appears in these specifications or on the accompanying drawings, it shall mean furnish and install with all required associated work, materials, equipment and appurtenances.

2. Wherever the word "install" appears in these specifications or on the accompanying drawings, it shall mean to receive, handle, inspect for proper condition and install with all required associated work materials, equipment and appurtenances.

3. Whenever the word "furnish" appears in these specifications or on the accompanying drawings, it shall mean to purchase and deliver to the installing contractor devices, equipment and accessories as noted or specified

N. RECORD DRAWINGS

1. Each contractor shall keep one set of prints aside at the site, on which he shall mark all deviations from contract drawings and any data that is pertinent for completion of documents. At completion of the project, they shall transfer the marks to a set of reproducible drawings or CAD files and deliver this set of drawings to the Owner.

SECTION II – MECHANICAL

A. GENERAL SCOPE OF WORK

1. The work required by the specifications and the design drawings consists of surveying, preparation of construction and installation drawings, removal of existing Mechanical systems, furnishing of all equipment, material, labor, services and performing all operations to complete the Mechanical work for this project.

2. Any equipment, materials, labor or services not specifically mentioned herein and which may be necessary to complete or perfect any part of this installation in a substantial manner and in compliance with the requirements stated and/or implied in the specifications and drawings shall be furnished without any extra cost.

3. Survey existing areas, review drawings coordinate with all trades and Owner's representative for removal of existing equipment, piping, ductwork, accessories and for installation of new equipment, ductwork, piping and accessories.

4. In general, the work shall consist of the following:

a) The furnishing and installation of equipment and systems shall include, but not be limited to, the following:

(1) New rooftop dehumidification / air conditioning units consisting of fans, cooling coils, heating coils, desiccant wheels, filters, controls, and all accessories.

(2) New split system air conditioning system including fans, cooling coil, condenser coil, compressor, heat exchanger, filters, controls, and all accessories.

(3) New ventilation fans consisting of housings, motors, drives, curbs, or supports, disconnect switches and all accessories.

(4) Piping and accessories including all fittings, valves, vents, drains, traps, strainers, for the following systems:

(a) Cooling coil condensate drains
(b) Refrigerant suction and liquid lines

(5) Ductwork and accessories including all diffusers, registers, grilles, turning vanes, dampers, louvers, access panels, etc. for the following systems:

(a) Supply air
(b) Return air
(c) Exhaust air
(d) Outside air
(e) Combustion intake and exhaust piping

(6) Piping and ductwork insulation for the following systems:

(a) Cooling coil condensate drains
(b) Refrigerant piping
(c) Supply air ductwork
(d) Return air ductwork
(e) Outside air ductwork

(7) Automatic controls including all wiring, tubing, control devices, automatic dampers, automatic valves, calibration and testing.

(8) Balancing of air systems including adjustment to terminals, mains, equipment, etc., provide complete balancing reports.

b) Receiving, rigging installation, start–up and cleaning of equipment furnished by the Owner or by other contractors including, but not limited to, the following:

(1) Duct smoke detectors (furnished by the Electrical contractor)

B. DEMOLITION

1. Demolition and removal of existing ductwork, piping, equipment, accessories, etc. which need to be removed shall be done in an orderly sequence to assure no damage to remaining ductwork, piping, equipment or structures. All demolished equipment shall be the property of the Contractor and shall be promptly removed from the premises or stored on site as directed by the Owner.

2. When piping, ductwork, registers, diffusers, grilles, louvers, mechanical equipment, etc. are removed, any openings in walls, ceilings or floors shall be patched to match existing finish. All surfaces shall be refinished to the Owner's satisfaction.

C. START–UP

1. Initial start–up and operation of system shall be done by the contractor to assure proper operation of the system. Contractor shall instruct Owner's personnel in the proper operation of the system.

2. This contractor shall engage the services of a manufacturer's representative for inspecting the installation and providing start–up for the Roof–top dehumidification air conditioning units.

D. PAINTING AND FINISHING

1. All exposed ferrous metal supports, equipment and material, including miscellaneous support members and rods shall be wire brushed clean of dirt or rust and painted with two coats of grey primer (rust inhibiting) paint. Piping and valves exposed to the weather shall be painted in the same manner and have a gloss finish coat added. Paint shall not interfere with the operation of valves.

E. FASTENINGS, ANCHORS, SUPPORTS AND HANGERS

1. All equipment and piping shall be firmly supported and secured to structural members of building with suitable hangers and supports designed for service required.

2. Supports shall secure pipes in place, prevent swaying and vibration, maintain required grading, provide free expansion and shall have a neat appearance. Supports shall be installed in a manner which will not unduly stress building construction.

3. All equipment and piping shall be installed with hangers and supports as required to meet the local Codes and Regulations for Seismic restraint. Provide all necessary snubbers and cross–bracing hangers to minimize swaying and vibration resulting from ground motion.

4. Provide reinforced concrete housekeeping pads under equipment located on concrete floors (4" high) or on grade (6" high).

5. All roof mounted equipment shall be mounted on equipment curbs provided by the equipment manufacturer where specified. Otherwise, provide equipment supports and curbs as manufactured by Thy–curb or Pate for all such equipment and for roof mounted ducts and piping.

6. No equipment, piping, ductwork, etc. shall be supported using pressure treated lumber or other wood blocks. All supports shall be designed and manufactured specifically as an equipment, piping or duct support.

F. IDENTIFICATION

1. Provide 1/16" thick engraved plastic laminated signs in visible location on all equipment, starter, disconnects, control components, etc. where equipment has an I.D. number (i.e. AC/1), such number shall be noted in 1/2" letters. Equipment name and its service shall be in 1/4" letters (i.e. "AC Unit – East Wing" or "Starter for AC/1").

G. PIPING INSTALLATION – GENERAL

1. These contract drawings are diagrammatic and are not intended to show every fitting, valve, offset, or similar items and devices. The contractor shall provide all equipment, piping and devices necessary to make a complete and operating system as part of this contract. All piping shall be installed as high as possible and shall have not less than 2" between the finished covering of the pipe and all other work or piping. Provide all piping offsets necessary to avoid interferences with work of this or other contractors. Piping offsets shall include all devices and assemblies necessary to accommodate the change in direction of the piping

2. Condensate drain piping shall pitch 1" per 10'.

3. All piping shall be installed parallel with building lines and as required to suit space available in building structure, above suspended ceilings, and other locations found necessary for installation. Provide rises, drops and offsets to suit field conditions. The rerouting of piping systems to avoid physical interferences and to accomplish the completion of the systems in an approved manner shall be considered as part of the contract and does not relieve the contractor from providing this work at no additional cost under this contract.

4. All piping passing through walls, floors, partitions, etc. shall be installed using sleeves. Sleeves shall be sch. 40 PVC And shall allow room for insulation where applicable. Caulk all around, both sides, between sleeve and wall and between sleeve and pipe. Sleeves in floors to extend 1.5" min. Above finished floor. In finished areas, provide steel escutcheons with paintable prime finish. In unfinished areas provide sheet metal escutcheons.

5. All piping passing through fire rated separations shall include fire rated sealant suitable for the piping and the rating. All sleeves in such separations shall be minimum sch. 10 steel.

H. PIPING SYSTEMS:

1. Drain piping

a) Drain piping for condensation shall be type "L" copper tubing with wrought copper sweat fittings with all joints made with tin–antimony solder.

b) Drain piping for condensation not located in plenum ceilings may be schedule 40 PVC with solvent welded socket fittings. Provide a 1 1/2 "x 1 1/2", 20 gage angle under the length of any PVC piping 2" or less in size.

2. Refrigerant piping

a) All refrigerant piping shall be type "L" copper tubing, type "ACR" (cleaned and capped) wrought fittings with all joints made with silver solder.

I. SHEET METAL

1. Fabricate all ductwork of galvanized sheet steel. Duct gauge, jointing and reinforcement shall conform to tables as applicable, chapter 16 of 2004 ASHRAE systems and Equipment Handbook. Construction details shall conform to the pressure classification section of the SMACNA – HVAC Duct Construction Standards. Duct pressure construction shall be a minimum of 125% of the actual pressure in the duct. The contractor may, at his option, use the Duct–Mate "35" system of assembling ductwork. All angles, corners, mastic, gaskets, etc. shall strictly follow the manufacturer's recommendations.

2. All equipment and ductwork shall be installed with hangers and supports as required to meet the local Codes and Regulations for Seismic restraint. Provide all necessary snubbers and cross–bracing hangers to minimize swaying and vibration resulting from ground motion.

3. Seal all duct joints and seams per SMACNA class as recommended by SMACNA.

4. Erect ductwork in a first–class, workmanlike manner secured in place rigidly and permanently. Provide suitable hangers, securely attached to building construction with bolts, clips, inserts, anchors, studs or fasteners in accordance with SMACNA recommendations and details. Hangers shall be rods, structural shapes, flat bars, or formed strap hangers.

5. Provide square elbows with duct turning vanes at all changes of direction unless specifically shown otherwise. Radius elbows shall be used for elbows less than 90 degrees and where shown. Radius elbows shall "full" radius type (inside radius: r=1.0 x duct width) unless physically restricted. Devices shall be as detailed in SMACNA standards.

6. Duct transitions and offsets shall be gradually sloped and shall not change in size at an angle more than 15 degrees from duct centerline.

7. Branch duct take–offs shall have a 45 degrees heel where connecting to mains. Heel length shall be 6" on ducts 18" wide and smaller and 12" long on larger ducts. Round branch duct connections shall be spin–in, bellmouth conical fittings as detailed on drawings. Use contour tee take–offs with round–to–rectangular transitions where outside bellmouth diameter is equal to, or larger than, the main's side. Transition to be fabricated as detailed on the drawings.

8. Flexible connections of neoprene or other NFPA approved non–flammable fabric shall be provided in duct systems at all inlet and outlet connections of vibrating equipment. Flexible connector shall be as manufactured by Duro/Dyne.

9. Flexible ductwork for all supply & return systems shall be as manufactured by Flexmaster, a heavy fiberglass cloth fabric, mechanically locked together with a scuff protecting galvanized helix suitable for high pressure applications. Flexible ducts used on supply air systems shall be type "4M" which shall include a factory applied fiberglass insulation (c=.23) with a seamless metalized mylar vapor barrier jacket. Flexible ducts on return air systems shall be type "NI–45" (un–insulated) unless otherwise indicated.

10. Flexible ducts shall not be installed with radius bends less than 1.5 times the duct diameter. Maximum lengths shall be 6'–0"; use spiral round sheetmetal ducts where runouts exceed 6'–0". Flexible ducts shall be attached to duct collars with approved adhesive and sheetmetal screws (3 min. or @ min. 8" o.c. of circumference). Spiral round ducts may be used in lieu of flexible ducts.

11. Submit detailed shop drawings of all new and modified ductwork showing the work of other trades and existing conditions of the surrounding area. Provide all construction details, elevations, etc. as necessary to indicate the final, coordinated installation. Drawings shall be 3/8" scale. Provide copies of completed sheetmetal shop drawings for review by all other trades. Coordinate all interferences before submitting shop drawings for Mechanical Engineer's review.

12. Provide manual dampers in all branches and/or take–offs as necessary to facilitate balancing. Review requirements with balancing contractor. Dampers shall be Ruskin model MD–15 or MDRS–25. Motor operated dampers shall be CD–36 or CDRS–25.

13. Provide duct access doors at all control dampers and equipment requiring maintenance or inspection and where shown on the drawings. Access doors shall be 18"x12" or, in smaller ducts, as large as possible. Insulated ducts shall have insulated, double wall doors with suitable frames.

14. Where ducts pass through walls, floors, partitions, etc., provide sheetmetal sleeves and sheetmetal escutcheons. In floors, sleeves shall extend 1.5" above floor, caulked all around, and escutcheons shall be 2"x2" angle iron.

15. Provide fire dampers where indicated on the drawings and at all fire rated separations. Dampers shall be 100% out of the air stream allowing full cross section of duct for air flow. Install damper in strict accordance with the recommendations of the manufacturer, NFPA and Underwriter's Laboratories. Damper shall be Ruskin Mfg. Co. model IDB2 style 'B' or style 'CR'.

J. INSULATION

1. All new supply air ductwork, return air ductwork, mixed air ductwork and outside air ductwork shall be insulated.

2. Areas concealed above ceilings or behind walls shall be 2" thick fiberglass all–service duct wrap, 1.0 PCF, with an installed "R" value of 6.0. Insulation shall be Owens–Corning Type 100, installed in accordance with manufacturer's recommendations.

3. Areas exposed to view shall be 1.5" thick fiberglass board insulation with foil reinforced kraft vapor barrier, 3.0 PCF and an "R" value of 6.8. Insulation shall be Owens–Corning Type 703, installed in accordance with manufacturer's recommendations.

4. Cooling coil condensate drain piping (indoors) shall be insulated with 1" thick fiberglass insulation with a vapor–proof all service jacket. Schedule 40 PVC condensate drain piping shall not require insulation.

5. Refrigeration piping shall be insulated with 1" thick flexible elastomeric pipe insulation type "AP" Armaflex manufactured by Armstrong. Insulation shall receive two coats of a vinyl lacquer finish. Outdoors, provide a glass mesh fabric with Armstrong #520 adhesive and two coats of "WB" Armaflex finish in accordance with manufacturer's recommendations.

K. REGISTERS, GRILLES, DIFFUSERS AND LOUVERS

1. New ceiling diffusers shall be louvered face type of steel construction with standard baked white enamel finish. Unit shall be square or rectangular face with duct collar and, when used in lay–in ceilings shall be panel mounted for installation in 24"x24" ceiling grid. Diffusers shall be model "TDC" with opposed blade volume damper as manufactured by Titus or model "AVD" with opposed blade volume damper as manufactured by Tuttle & Bailey. Provide supplemental 'T'–bar when using diffusers in 24"x48" ceiling grid.

2. New supply air "drum louvers" shall be constructed of heavy gauge aluminum 1–1/4" wide outer borders. Corners shall have full penetration resistance welds with reinforcing steel patch. Drum shall be constructed of heavy gauge extruded aluminum and shall be capable of rotating a minimum of 25* up and down from the centerline. Heavy duty blades shall be individually adjustable. Units shall be Titus model "DL", sized as noted on the drawings.

3. New ceiling return air grilles shall be of aluminum construction, with 1/2"x1/2"x1/2" "egg crate" grid. Furnish without countersunk screw holes and sized to fit lay–in ceiling where ceiling mounted. Margins shall be heavy gauge extruded aluminum, mechanically interlocked. Grid core to be .015" thick, mechanically locked in margins. Provide in baked white enamel finish. Grilles to be model "50F" as manufactured by Titus or model "CRE–500" as manufactured by Tuttle & Bailey. Provide supplemental 'T'–bar as required when using grilles in ceiling grid.

4. New outside air intake louvers, AD/6, shall be factory manufactured of extruded aluminum (blade & frame) and shall be weather proof with drainable blades. Louver assembly shall be AMCA licensed and shall be 4" deep with aluminum bird screen. Maximum free area velocity shall not exceed 1000 fpm. Units shall be Ruskin Mfg. Co. #ELF–375D.

5. New outside air intake and exhaust louvers, AD/7, shall be factory manufactured of extruded aluminum (blade & frame). Louver assembly shall be 4" deep with aluminum bird screen. Maximum free area velocity shall not exceed 1000 fpm. Units shall be Ruskin Mfg. Co. #BV–100.

L. EQUIPMENT

1. All equipment provided by this contractor shall be as shown on the drawings and as described in the following paragraphs. The manufacturer's recommendations and requirements shall be strictly adhered to and shall be considered part of these specifications.

2. Rooftop AC Units, RTU/1, RTU/2 & RTU/3, shall be MUNTERS HCU units. Sizes, arrangements, capacities and performance shall be as indicated on plans and schedules. Unit manufacturer shall be registered under ISO 9001. Cooling performance shall be rated in accordance with ARI standards. Unit shall be ETL or UL listed. Condensing units shall be factory pre–assembled, tested and shipped complete with all components necessary to maintain humidity and temperature control levels independent of load variations within design limits. Units shall be designed for year–round 24 hr/day service and shall include all standard components as well as the following items:

a) The desiccant wheel media shall be a monolithic, extended–surface contact medium, fabricated entirely of inert, inorganic binders and glass fibers formed into narrow passages in the direction of airflow. The wheel shall be non–toxic. The process and reactivation air streams shall be separated by air seals and internal partitions so that the humid reactivation air does not mix with the dry process air. The equipment shall meet the following minimum requirements:

(1) The dehumidifier shall have full–face seals on both the process air entering and the process air leaving sides of the wheel. These shall seal the entire perimeter of both air streams as they enter and leave the wheel. The seals shall be the silicone rubber bulb–type, with a protective strip of low–friction, abrasive–resistant surface to extend seal life and reduce the force needed to turn the desiccant wheel. The seals shall be documented to have a minimum working life of 25,000 hours of normal operation.

(2) The glass fibers which form the support matrix shall be made from uniform continuous strands larger than five microns in diameter which are non–respirable and are not considered a possible health risk by the International Agency for Research on Cancer (IARC).

(3) The wheel shall be tested according to ASTM E84–90 (Standard Test Method for Surface Burning of Building Materials) and shall achieve Flame spread index = 0 and Smoke developed index = 10.

(4) The desiccant shall be evenly impregnated throughout the structure for predictable, consistent performance and for maximum wheel life.

(5) The desiccant impregnated into the contact medium shall be a titanium–reinforced silica gel. The HoneyCombe desiccant wheel shall be a fabricated extended surface contact media with a multitude of small passages parallel to the airflow. The rotary structure shall be a monolithic composite consisting of inert silicates with microscopic pores designed to remove water in a vapor phase. The desiccant shall be hydro thermally – stabilized silica gel reinforced with titanium for maximum strength and stability over time. The fabricated structure shall be smooth and continuous having a depth of between 95 and 200 millimeters in the direction of airflow without interruptions or sandwich layers which restrict air flow or create a leakage path at joining surfaces. Nominal face velocity shall not exceed 1100 fpm. The HoneyCombe wheel shall be manufactured in the United States. The manufacturer shall provide documentation to establish that:
(a) The desiccant retains more than 90% of its original capacity after ten years of continuous operation in clean air, with inlet air conditions up to an including 100% relative humidity.
(b) The wheel as impregnated with silica gel is capable of withstanding five complete water immersion cleaning cycles while retaining more than 95% of its original adsorption capacity.

b) Desiccant wheels shall be a single piece for fast removal and simple handling. Belt–driven desiccant wheels shall be supported by four rollers at the base of the unit so the wheel can be easily removed by lifting it over the rollers using the drive belt. In addition, the wheel drive assembly shall provide:

(1) The wheel rotation speed shall not exceed 8 rph while achieving the required moisture removal rate at the specified conditions.
(2) The drive motor shall be fractional horsepower and rated for continuous duty for a period of 20,000 hours under the load conditions imposed by the drive assembly.
(3) The drive assembly shall be equipped with a rotation detection circuit which shuts down the dehumidifier and signals the operator through an alarm if the wheel is not rotating.

c) Direct Expansion cooling coils shall be sized to provide the full capacity scheduled. Coils shall be arranged to condition the full volume of process air. Refrigerant pressure drop to be between 1.5 psi and 5 psi, and air face velocities shall be 450 fpm or less. Coil circuiting provides for optimum performance with minimum pressure loss. Coil shall be designed for 250 PSI working pressure and factory tested under water at 300 PSI air pressure.

Direct expansion cooling coils are fin and tube type constructed of 3/8" O.D. x 0.012" or 1/2" O.D. x 0.016" wall rifled copper tubes and .006 inch thickness aluminum fins mechanically bonded to tubes. Casing and tube support sheets are 16 gauge galvanized steel formed to provide mounting flanges and structural support for the fin–tube assembly. Supply headers consist of an expansion valve and distributor to feed liquid refrigerant through copper tubing to all circuits in the coil equally. Tubes are circuited to insure minimum refrigerant pressure drop and maximum **heat transfer. Fin spacing of up to** 12 FPI provides adequate transfer area to minimum air pressure drop. Direct expansion coils conform to ARI Standard 410 and are compatible with all other components of the same refrigeration circuit.

d) The drain pan is to be constructed of welded 304 SS and bolted in place. The cooling coil drain pan shall extend the entire length of the coil and extend a minimum of 4 inches beyond the air leaving side of the coil. The drain pan shall be a minimum of 2 inches deep and have a minimum pitch of 1 inch. The drain pan shall be sloped to ensure zero standing water. Drain connection shall extend through unit base. Connection to be 1 inch male NPT.

e) Condensing units are complete with compressors, condenser heat exchanger, and all controls and accessories required to regulate refrigerant pressure, flow rates and temperatures. The condensing unit is piped together with evaporator coils and is sized and controlled to operate at all conditions required. The refrigeration equipment shall be capable of operation down to an ambient temperature of 50*F.

(1) Compressors shall be scroll type. Isolation valves shall be provided in the refrigeration circuit to allow removal of pressure sensors and other control instruments. Each compressor shall have its own refrigeration circuit and expansion valve.
(2) Condenser fans shall be provided with fan guards both on the intake and discharge. Condensing unit section shall be accessed through access doors. Condenser coils shall be provided with exterior coil guards to prevent damage.
(3) All piping circuits contain thermostatic expansion valve with external equalization, liquid line solenoid valve, and filter/dryer. All components are completely installed in piping circuit and all joints leak tested with refrigerant charge and electronic leak detector prior to evacuation, final charging and complete factory testing and set–up. All assembly and testing work is performed at the factory prior to shipping. All refrigeration circuits are pumped down, valved off and shipped with the full refrigerant charge ready for on site start–up.

f) Supply blowers provide the specified air volume through the system with adequate static pressure. Supply blowers are belt–drive type. Condenser fans shall be direct driven propeller type. Reactivation fans shall be direct–driven backward inclined, air foil blade type with VFD control.

(1) Fans shall be balanced such that the maximum displacement in any plane does not exceed 1.5 mils for fans operating at or below 2000 rpm or 1.0 mils for fans operating above 2000 rpm.
(2) Supply and reactivation fan motors shall be the totally–enclosed fan–cooled (TEFC), high–efficiency type with a minimum of Class B insulation. Condenser fan motors shall be ODP.

g) The unit shall include disposable filters with 25% to 30% minimum efficiency as rated by ASHRAE Test Standard 52–76. The filters shall be removable at the inlet of both supply and reactivation air streams. These filters shall be mounted on sliding or lift racks and accessible through access or doors. The entire supply and reactivation air stream shall be filtered.

h) The electrical control cabinet shall be weather tight to NEMA 3R standards and shall include:

(1) Wiring to comply with the current National Electrical Code with further fuse and wiring sizing to meet or exceed UL 508A Industrial Control Panel.
(2) Wires shall be color–coded or numbered at both ends and all terminal block connection points shall be numbered. These markings shall correspond with the electrical diagram provided in the operating and maintenance manual.
(3) Components shall be UL, ETL or CSA approved where possible.
(4) The control cabinet shall include a copy of the O & M manual, mounted in a separate compartment or pocket to allow access to critical information by maintenance personnel after installation.

i) The unit shall have the option of microprocessor control. Units with the optional microprocessor shall be capable of communicating with a building management system (BMS) through Modbus, Lonworks or BACnet protocol. Control options include the ability for the HCU to determine stages of heating, cooling and dehumidification required to maintain space conditions when an "enable" command is given via the BMS, or direct control via commands issued from the BMS.

j) Heater shall conform to ANSI Z83.9. Unit shall be suitable for operation on natural gas or propane as specified. Unit shall be of down blast configuration. It shall contain tube type heated exchangers, flue gas collector with vent fan, in shot burners, and controls for high and low fire. Unit shall be un–housed and fit within the unit housing envelope dimensions.

(1) Burners shall be die formed in shot type with adjustable air shutters. Burners must be individually removable for cleaning or service. Entire burner assembly must be easily removable as an assembly.
(2) Unit shall have a powered venting system consisting of a collection box, direct drive vent fan and an air proving switch. The collection box shall be made of the same material as the heat exchanger bulkhead plate and shall be removable.
(3) Tubes shall be permanently attached to a bulkhead plate to form an airtight seal between combustion byproducts and heated air system. Heat exchanger shall be constructed of 18 gauge aluminized tubes with 14 gauge aluminized steel bulkhead plate. Heat exchanger shall be rated for a minimum lifespan of 100,000 cycles.
(4) Gas train shall utilize components certified by AGA. Gas train shall consist of a 24 VAC two stage combination valve (manual on–off, automatic safety shutoff, regulation to handle 0.5 psig input pressure and adjustable pilot valve). The valve shall feed in shot burners through a manifold with screw in brass orifices sized for either natural gas or propane, as required by unit schedule. The flame controllers shall be solid state module that operates on 24 VAC. It shall have a built in spark igniter and flame sensor with 100% gas shutoff. The pilot shall be ignited during each cycle of operation. After the pilot is proven, the main burner valve shall open. Pilot and main burners shall be extinguished during the off cycle. The thermal disc type high temperature limit switch shall shut off the main and pilot valves if an overheat occurs.

3. Air Handling Unit, AHU/1, shall be as manufactured by Lennox Industries, Inc. Unit shall be of the vertical configuration and shall include all standard components as well as the following optional items:

a) Vibration isolators
b) Motors and drive to meet scheduled performance.
c) Provide two sets of spare filters.

4. Condensing unit, CU/1, shall be as manufactured by Lennox Industries, Inc. Unit shall include all of the standard components as well as the following items:

a) Low ambient head pressure control.
b) Vibration isolation package (R.I.S.).
c) Compressor time delay relay.
d) Anti–short cycle timer.

5. Heating & Ventilation Units, HV/1–1, HV/1–2, HV/2–1 & HV/2–2, shall be as manufactured by Cambridge Engineering, Inc. Units shall be of the horizontal, through wall configuration and shall include all standard components as well as the following optional items:

a) Motor and drive to meet scheduled performance.
b) Stainless steel burner with MD gas train and controls.
c) Gas train and associated controls.
d) Insulated rain hood with inlet screen (where noted on plans).
e) Two–position, motorized discharge damper.
f) Security type Remote Control Station w/ electronic thermostat and key switch operation.
g) Service convenience switches.
h) Extended run timer.
i) Full 2–**year parts/5 ye**ar burner warrant**y.**

6. Exhaust fan, EF/1 & EF/2, shall be as manufactured by Loren Cook Company. Unit shall be arranged for ceiling installation and shall include manufacturer's "Architectural" ceiling grille, time delay switch and vari–speed control.

7. Electric unit heater, UH/1–1, UH/2–1, UH/3–1 & UH/4–1, shall be as manufactured by Q–Mark, Inc., model MUH. Unit shall include integral manufacturer's thermostat and disconnect switch.

M. BALANCING

1. Contractor shall engage the services of an independent air balancing firm that shall have no affiliation with the Mechanical contractor and shall be a member of the National Environmental Balancing Bureau (NEBB) or the Associated Air Balance Council (AABC). Contractor shall test and balance system in accordance with SMACNA manual for the balancing and adjustment of air pattern required and all main supply air, return air and exhaust air dampers to be adjusted and set for design CFM indicated. Furnish & install new filters before balancing system. Contractor shall submit eight (8) copies of the test results on the air balancing.

2. Balancing reports for air handling equipment shall include the reference number of the equipment and the following information:

a) Manufacturer, model and sizes.
b) Total flow traverse readings (SA, RA, OA).
c) Pressure drop (total and each component).
d) Fan Electrical: volts and amps.
e) Fan: rpm, size, sheaves.
f) Motor nameplate information.

3. Balancing for diffusers, grilles, etc. shall include a diagram showing location with room numbers or a reference number. Provide tabulation of the reference number; design CFM; actual CFM; neck size; pattern; etc.

4. Balancing contractor shall review the contract documents and the shop drawings to determine locations for valves and dampers necessary for balancing. Submit these requirements to the Mechanical Contractor.

N. SHOP DRAWINGS

1. Mechanical contractor shall submit catalog cuts / shop drawings in the following items:

a) Ceiling diffusers, registers & grilles
b) Ductwork plans, details and accessories
c) Flexible ductwork
d) Heating & air conditioning units
e) Air handling units & condensing units
f) Exhaust fans,
g) Electric unit heaters,
h) Roof supports & curbs

O. AUTOMATIC TEMPERATURE CONTROLS

1. Provide a complete system of electric automatic temperature controls for new HVAC systems. All controls shall be furnished with drawings, materials, thermostats, switches, damper motors, transformers, relays, control wiring, power wiring and controlling devices necessary for the installation of the automatic temperature control system. All operating and safety controls shall be supplied by the Control Contractor.

2. Room thermostats for AHU/1 & CU/1 shall be 24 volt electric, wall mounted 4'–6" above finished floor with locking keyboard function. Provide system thermostat with sub–base including fan switch (on–auto position) and system switch (heat–off–cool–auto position). Heat and cool setpoints shall include a built–in dead band. Thermostat shall be Honeywell series T7300 with Q7300 sub–base. Thermostat and sub–base shall be suitable for the applied sequence operation.

3. The sequence for Air Conditioning System, AHU/1 & CU/1, shall function as follows:

a) Occupied cycle – cooling:The evaporator fan shall run continuously and the outside air damper shall open to its minimum position. On a rise in space temperature above 75 degrees (adjustable) at the thermostat, the compressor shall cycle on to provide cooling at the evaporator coil.

Units shall have an enthalpy economizer controller with a return air sensor and an outside air sensor. When the enthalpy control determines that the heat content of the outside air is lower than the heat content of the return air, the outside air damper and the relief air damper shall modulate to the full open position and the return damper shall modulate to the full closed position. A sensor located in the mixed air stream shall override the enthalpy control and modulate the dampers to maintain a minimum temperature of 55 degrees (adjustable). When the enthalpy control determines that the outside air heat content is higher than the return air heat content, the outside air damper shall return to the minimum position.

b) Occupied cycle – heating:The evaporator fan shall run continuously and the outside air damper shall open to its minimum position. On a drop in space temperature below 70 degrees (adjustable) at the thermostat, the gas heater shall energize its first stage of heating. On a continued drop in temperature, the remaining stages of heating shall energize in steps. Upon a rise in temperature, the reverse shall occur.

c) Unoccupied cycle – cooling:Units shall be inoperative and the outside air dampers shall be fully closed.

d) Unoccupied cycle – heating:Units shall be inoperative and outside air dampers shall be fully closed. On a drop in temperature below 60 degrees (adjustable), as sensed by the programmable thermostat, the unit fan shall energize and the heater shall energize all stages to full heat. On a rise in temperature, the reverse shall occur.

4. The sequence for HV Units shall function as follows:

a) The supply fan shall run continuously and the outside air damper shall open. On a drop in space temperature below 50 degrees (adjustable) at the thermostat, the gas heater shall energize its first stage of heating. On a continued drop in temperature, the remaining stages of heating shall energize in steps. Upon a rise in temperature, the reverse shall occur.

5. The sequence for electric unit heaters, UH/1–1, UH/2–1, UH/3–1 & UH/4–1, shall function as follows:

a) Adjust integral thermostat to a setpoint of 60 degrees. On a drop in temperature below 60 degrees, the electric baseboard heater shall energize. On a rise in temperature, the reverse shall occur.

6. This contractor shall install duct smoke detectors furnished by Electrical contractor in the supply and return ducts of the air handling units. Detectors shall function to shut down the AC Unit. Wiring required to shutdown units shall be by ATC contractor. Power wiring and connection of contacts for remote alarm and remote indication to be provided by Electrical contractor.

7. ATC Contractor shall provide ALL power wiring and control wiring necessary for the operation of equipment interlocks, damper actuators / motors and for valve actuators / motors regardless of voltage. Such wiring shall be circuited to and from the ATC Panel. Verify ATC total power requirements with panel circuit size.

Issued for Final Review
March 24th, 2008

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES, ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:
Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:
integrated facilities solutions, inc.
engineering you can build...
IFS inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs–engineers.com

RM ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
MECHANICAL SPECIFICATIONS

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: JHM
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:
M-1.01

OF

4/10/2008 8:17:18 AM, DWF6 ePlot.pc3

Single Line Ductwork – Symbols

- Supply air duct
- Return or exhaust air ductwork
- Outside air ductwork
- New ductwork
- R — Rise in duct – in direction of airflow
- D — Drop in duct – in direction of airflow
- Hand damper or volume damper
- AD AD — Access door
- Flexible connection
- Branch duct take-off
- Vaned elbow
- Type CFM Size — Supply air diffuser on bottom of duct indicating Air Device Type, CFM & neck size
- Type CFM Size — Return or Exhaust grille or register on bottom of duct indicating Air Device Type, CFM & neck size
- Type CFM Size — 24"x24" Lay-in Ceiling Diffuser with round connection indicating Air Device Type, CFM & neck size (rectangular and round)
- 'A' — Ceiling grille – 22"x10"
- 'B' — Ceiling grille – 22"x22"
- Fire damper
- Square/Rectangular to round transition
- Transition in duct size
- Round duct take-off with hand damper
- Flexible duct (maximum 6'-0" long)
- Duct turning down (SA; RA; E.A. or O.A as shown)
- Duct turning up (SA; RA; E.A. or O.A as shown)

- X — Equipment Identity (See Equipment Identification Abbreviation List)
- X-X — Equipment Number
- System Number (If Applicable)
- X — Indicates Plan Number, Section Number or Detail Letter
- X — Indicates Drawing on which Plan, Section or Detail Appears
- TYP — Indicates Typical Detail (Applies to all Contract Drawings)
- X — Indicates Drawing on which Detail Appears
- X — Indicates Section Number
- X — Indicates Drawing on which Section Appears
- X — Indicates Revision & Number
- X — Sheet Note Number (SN)
- UC — Undercut Door
- T — Wall Thermostat
- TT — Temperature transmitter (wall or duct mounted)
- H — Humidistat (Wall mounted)
- HT — Humidity Transmitter (wall or duct mounted)
- S — Smoke detector (duct mounted)
- MOD — Motor Operated Damper

Abbreviations

Abv.	Above
AD	Access Door
AFF	Above Finished Floor
Alum.	Aluminum
AP	Access Panel
Assoc.	Associated
Avg.	Average
BDD	Back Draft Damper
Bel.	Below
Bldg.	Building
BM	Bellmouth
BOD	Bottom of Duct
BOS	Bottom of Steel
BTU	British Thermal Unit
BTUH	BTU Per Hour
Cap.	Capacity
CFH	Cubic Feet Per Hour
CFM	Cubic Feet Per Minute
Clg.	Ceiling
CO	Clean Out
Col.	Column
Comp.	Compressor
Conc.	Concrete
Cond.	Condensate
Conn.	Connection
Cont'n.	Continuation
Contr.	Contractor
db	Dry Bulb
Dept.	Department
Dia.	Diameter
Diag.	Diagram
Diff.	Differential
Disch.	Discharge
Div.	Division
Dmpr.	Damper
Dn.	Down
Dwg.	Drawing
DX	Direct Expansion
E.A.	Exhaust Air
E.C.	Electrical Contractor
Ea.	Each
EAT	Entering Air Temperature
ECG	Eggcrate Grille
Eff.	Efficiency
El.	Elevation
Elect.	Electric
Elev.	Elevator
Ent.	Entering
Eq.	Equal
Equip.	Equipment
Equiv.	Equivalent
e.s.p.	External Static Pressure
Exh.	ExHaust
Ext.	External/Exterior
F.V.	Face Velocity
°F	Degrees Fahrenheit
F/D	Fire Damper
Fin.	Finished
Flg.	Flange
FLA	Full Load Amps.
Flex.	Flexible
Flr.	Floor
FOB	Flat on Bottom
FOT	Flat on Top
FP	Fire Protection
FPM	Feet Per Minute
Frict.	Friction
Ft.	Feet
FXC	Flexible Connection

G.C.	General Contractor
Ga.	Gauge
Gal.	Gallon
Galv.	Galvanized
Gr.	Grille
Grs/lb	Grains Per Pound Water
H_2O	Water
HD	Hand Damper
HP	Horsepower
Hr.	Hour
Ht.	Height
Htr.	Heater
Hz.	Hertz
I.D.	Internal Diameter
In.	Inches
Incl.	Including
Int.	Internal / Interior
KW	Kilowatt
KWH	Kilowatt Per Hour
L	Length
LAT	Leaving Air Temperature
Lb.	Pound
LH	Latent Heat
Lin.	Linear
Liq.	Liquid
LRA	Lock Rotor Amps
Lvg.	Leaving
Lvr.	Louver
LWT	Leaving Water Temperature
M.C.	Mechanical Contractor
MBH	Thousands of BTU Per Hour
Med.	Medium
Mfr.	Manufacturer
Min.	Minimum
Misc.	Miscellaneous
M.O.D.	Motor Operated Damper
Mtd.	Mounted
N.C.	Normally Closed
N.O.	Normally Open
Neg.	Negative
N.I.C.	Not in Contract
No.	Number
Nom.	Nominal
N.T.S.	Not to Scale
O.A.	Outside Air
O.C.	On Center
O.D.	Outside Dimension
O.V.	Outlet Velocity
Occ.	Occupied
Opng.	Opening
Oz.	Ounce
Part.	Partial
P.D.	Pressure Drop
Perf.	Perforated
Ph.	Phase
Pos.	Positive
Press.	Pressure
PSI	Pounds Per Square Inch
PSIG	Pounds Per Square Inch Gauge
PVC	Polyvinyl Chloride
Quan.	Quantity

R	Register
R.A.	Return Air
Rel.	Relief
Ret.	Return
RH	Relative Humidity
RLA	Rated Load Amps
Rm.	Room
RPM	Revolutions Per Minute
Req'd.	Required
S.A.	Supply Air
S.D.	Smoke Detector
Sch.	Schedule
Schem.	Schematic
SH	Sensible Heat
S.M.C.	Sheetmetal Contractor
SP	Static Pressure
Spec.	Specification
Sq.	Square
SS	Stainless Steel
Std.	Standard
Stl.	Steel
Struc.	Structural
Suct.	Suction
Sup.	Supply
Sys.	System
T.A.	Transfer Air
TAD	Transfer Air Duct
TAG	Transfer Air Grille
T.O.	Transfer Opening
Temp.	Temperature
TH	Total Heat
Tot.	Total
TP	Total Pressure
TSP	Total Static Pressure
TT	Temperature Transmitter
Typ.	Typical
U.C.	Undercut
Unocc.	Unoccupied
V	Volts
VD	Volume Damper
Vel.	Velocity
VI	Vibration Isolator
Volt.	Voltage
W	Width
w/	With
wb	Wet Bulb
WMS	Wire Mesh Screen
w.c.	Water Column
w.g.	Water Gauge
wo/	Without
Wt.	Weight

Issued for Final Review
March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

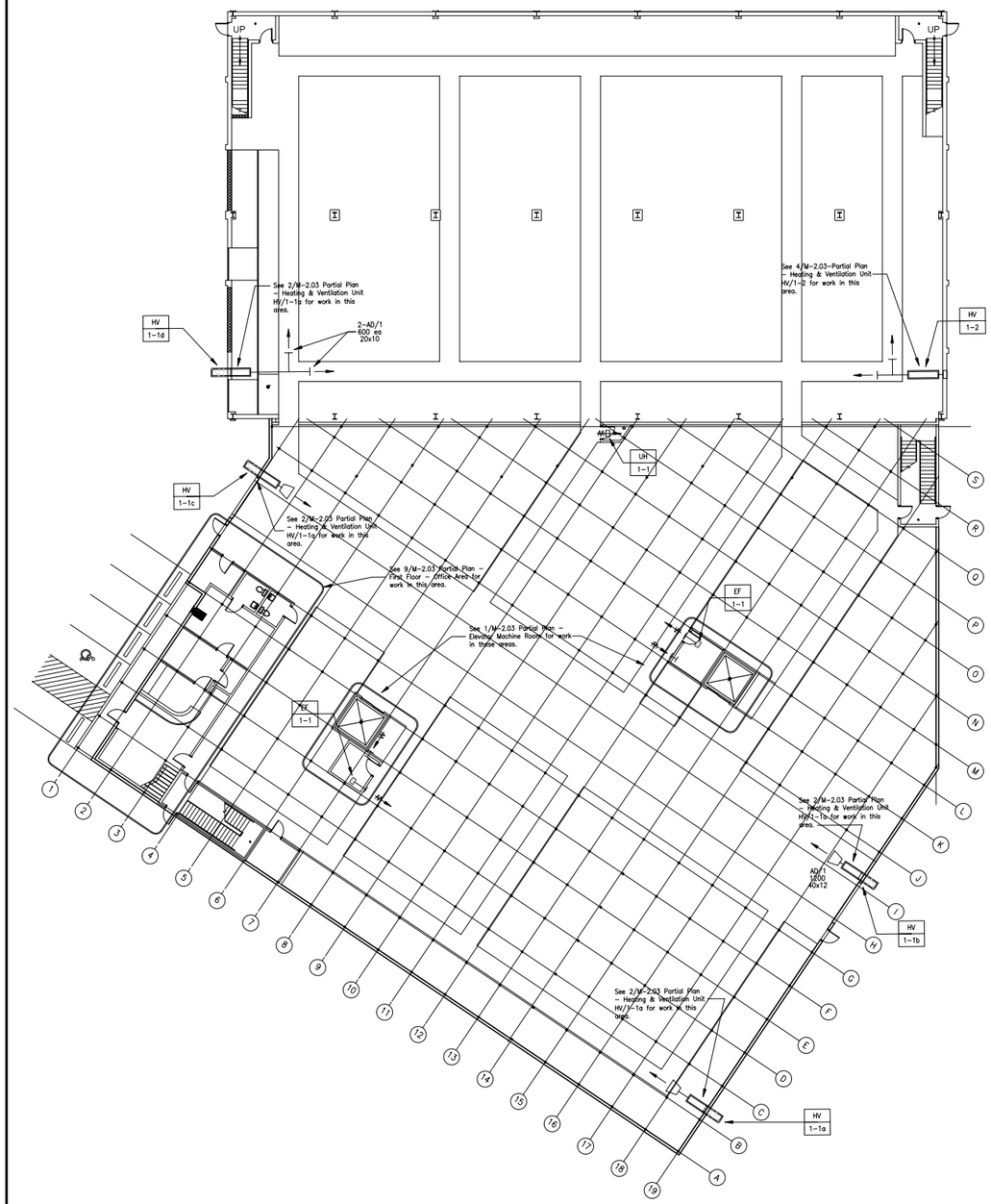
Sheet Title:
MECHANICAL SYMBOL LIST AND ABBREVATIONS

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

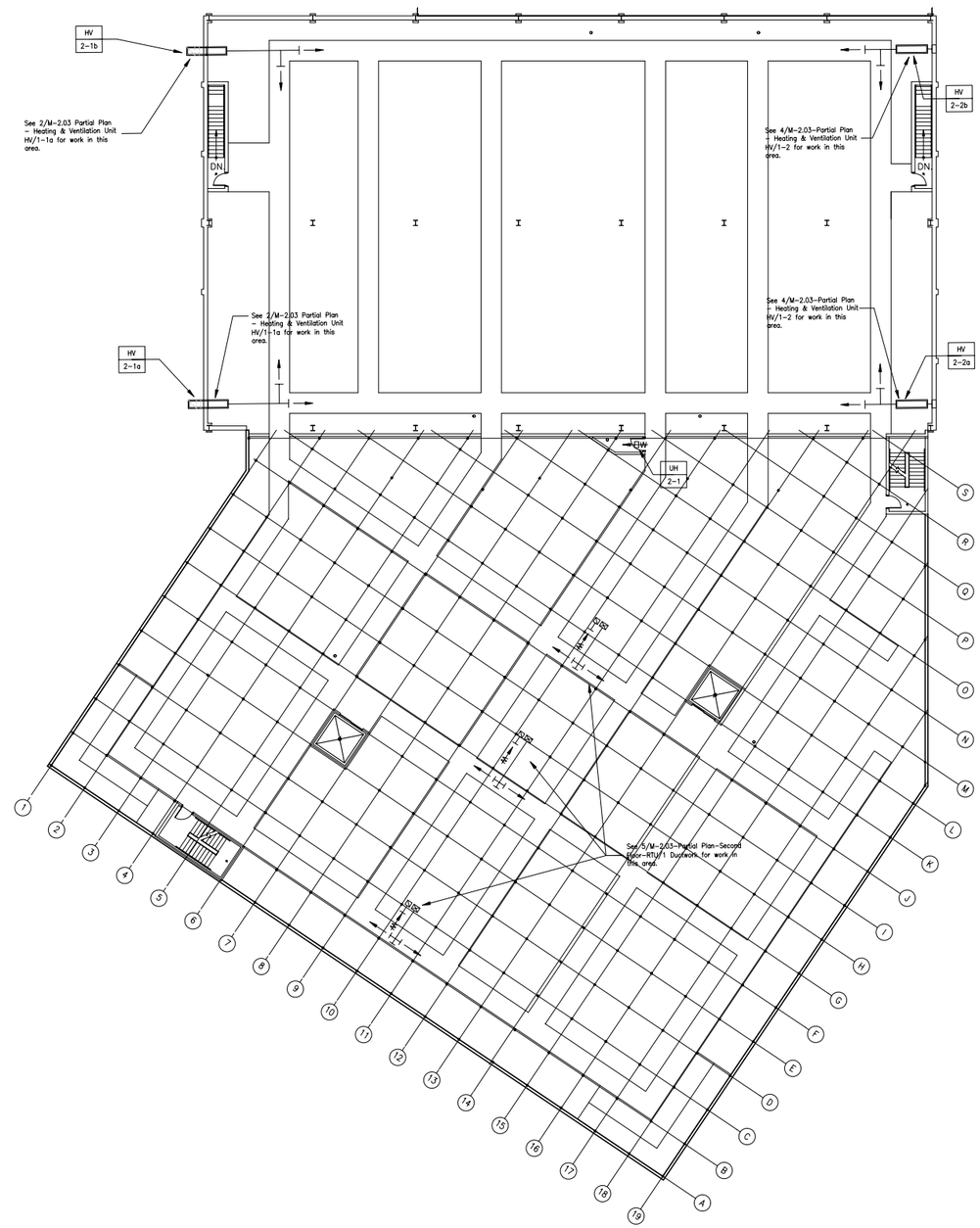
Drawn By: RDA
Approved By: JHM
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number: M-1.02
OF

4/10/2008 8:19:34 AM, DWF6 ePlot.pc3



1 / M-2.01 Plan – First Floor

Scale: 1/16" = 1'-0"



1 / M-2.01 Plan – Second Floor

Scale: 1/16" = 1'-0"

Issued for Final Review

March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
MECHANICAL
FIRST FLOOR PLAN &
SECOND FLOOR PLAN

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

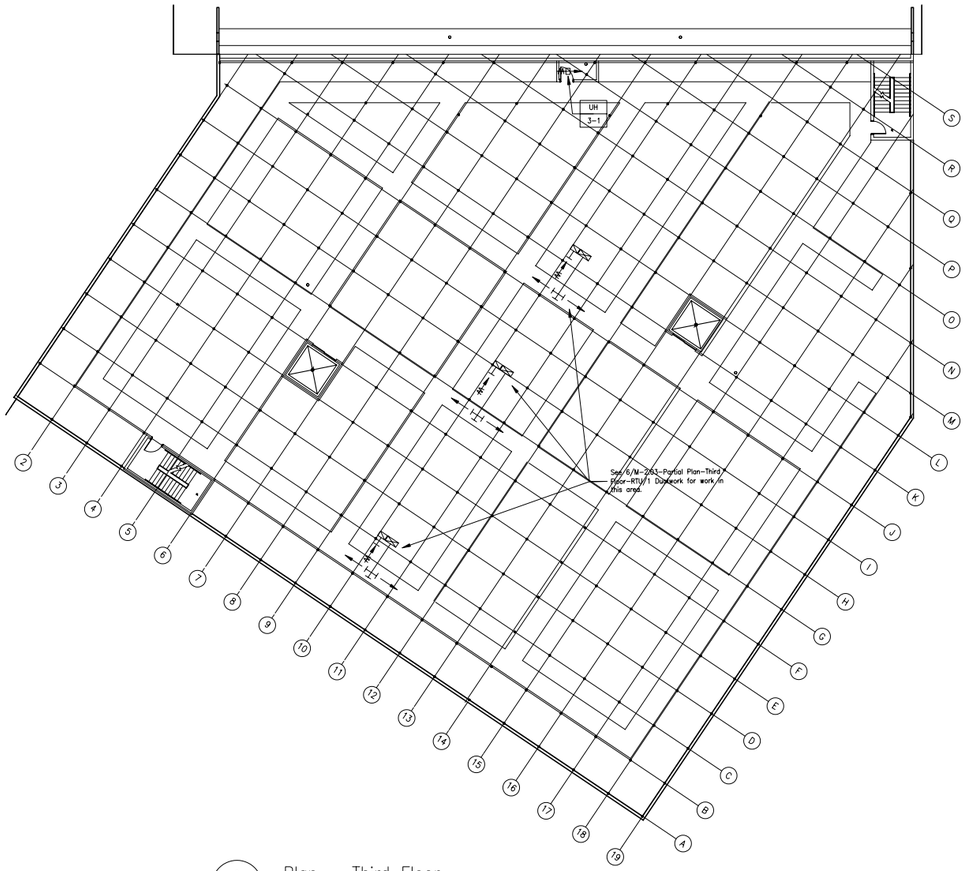
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: JHM
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

M-2.01

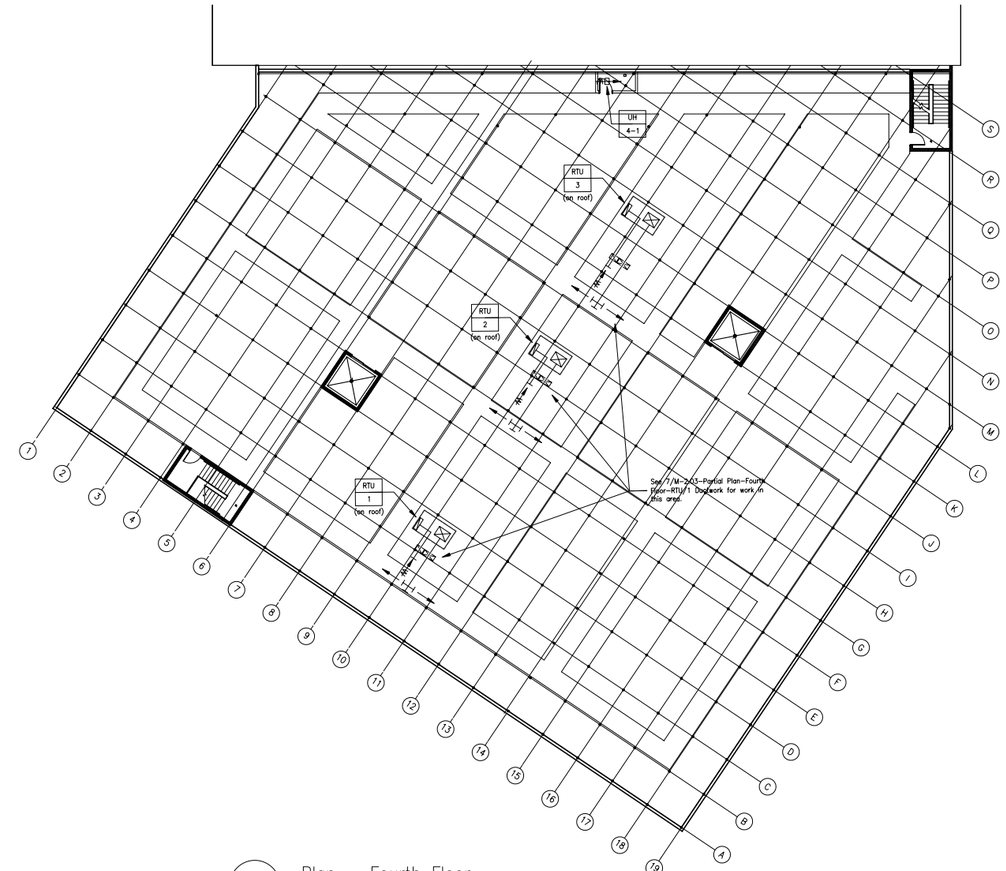
OF

4/10/2008 8:21:22 AM, DWF6 ePlot.pc3



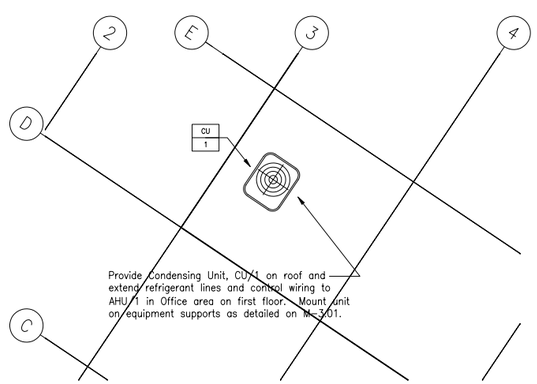
2 / M-2.02 Plan – Third Floor

Scale: 1/16" = 1'-0"



1 / M-2.02 Plan – Fourth Floor

Scale: 1/16" = 1'-0"



3 / M-2.02 Partial Plan – Roof

Scale: 1/4" = 1'-0"

Issued for Final Review

March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
MECHANICAL
THIRD FLOOR PLAN &
FOURTH FLOOR PLAN

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By:	Approved By:
RDA	JHM

Project Number: 06112 (IFS # 07031.00)

Date: XX-XX-04

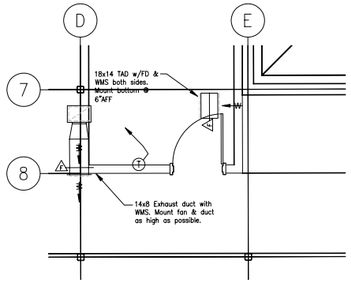
Scale: AS NOTED

Drawing Number:

M-2.02

OF

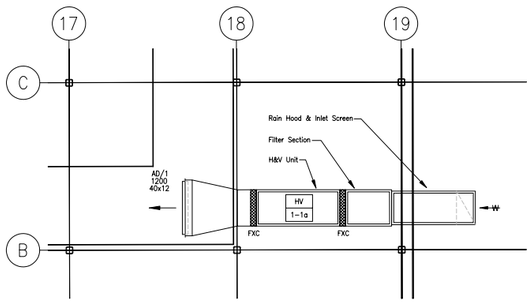
4/10/2008 8:24:02 AM, DWF6 ePlot.pc3



1 / M-2.03 Partial Plan – Elevator Machine Room #1

(Also similar for Elevator Machine Room #2)

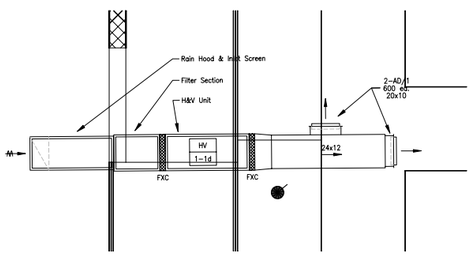
Scale: 1/4" = 1'-0"



2 / M-2.03 Partial Plan–Heating & Ventilation Unit – HV/1–1a

(Also similar for HV/1–1b & HV/1–1c)

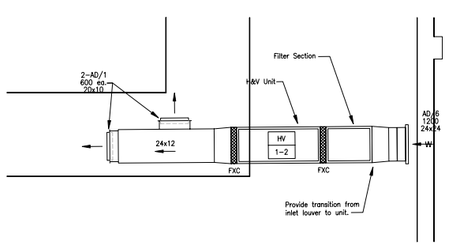
Scale: 1/4" = 1'-0"



3 / M-2.03 Partial Plan – Heating & Ventilation Unit – HV/1–1d

(Also similar for HV/2–1a & HV/2–1b)

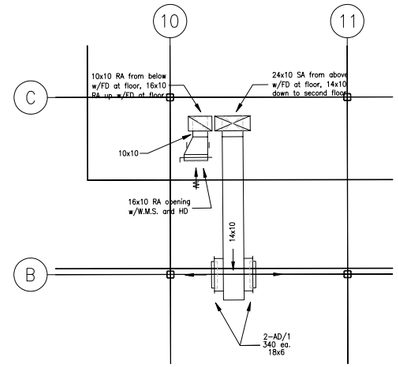
Scale: 1/4" = 1'-0"



4 / M-2.03 Partial Plan – Heating & Ventilation Unit–HV/1–2

(Also similar for HV/2–2a & HV/2–2b)

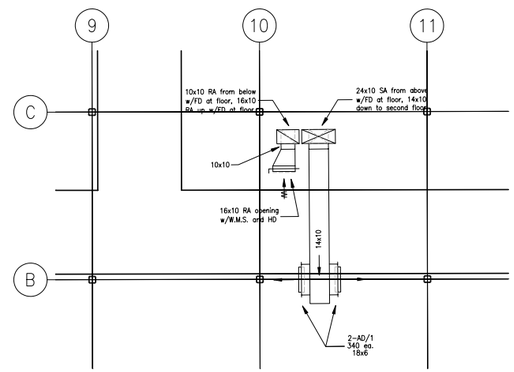
Scale: 1/4" = 1'-0"



5 / M-2.03 Partial Plan – Second Floor – RTU/1 Ductwork

(Also similar for RTU/2 & RTU/3 Ductwork)

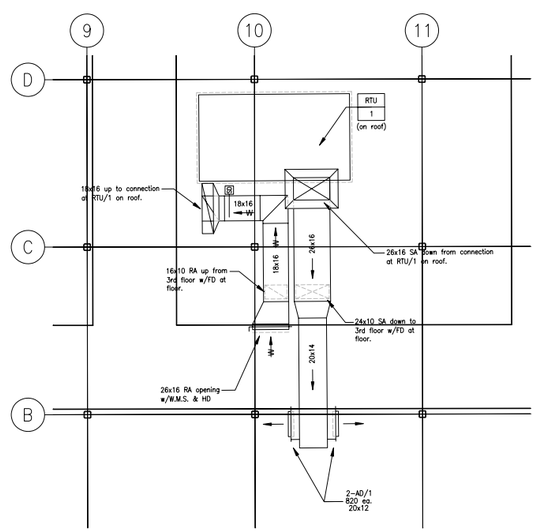
Scale: 1/4" = 1'-0"



6 / M-2.03 Partial Plan – Third Floor –RTU/1 Ductwork

(Also similar for RTU/2 & RTU/3 Ductwork)

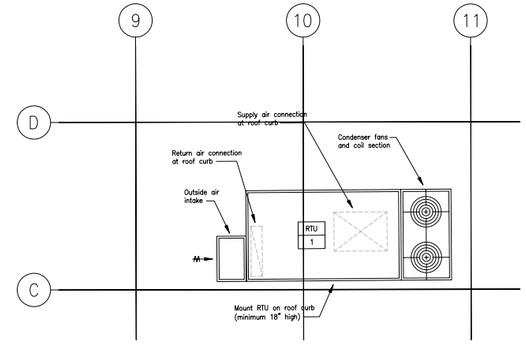
Scale: 1/4" = 1'-0"



7 / M-2.03 Partial Plan – Fourth Floor – RTU/1 Ductwork

(Also similar for RTU/2 & RTU/3 Ductwork)

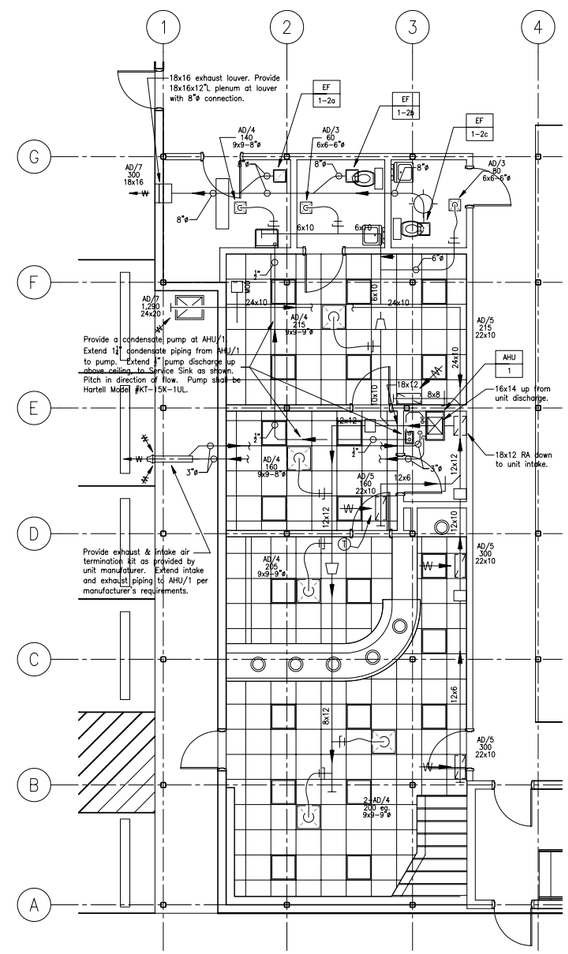
Scale: 1/4" = 1'-0"



8 / M-2.03 Partial Plan – Roof – RTU/1

(Also similar for RTU/2 & RTU/3 Ductwork)

Scale: 1/4" = 1'-0"



9 / M-2.03 Partial Plan – First Floor – Office Area

Scale: 3/16"= 1'-0"

Issued for Final Review

March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:

MECHANICAL DETAILS

Job Name:

Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:

DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA

Approved By: JHM

Project Number: 06112 (IFS # 07031.00)

Date: XX-XX-04

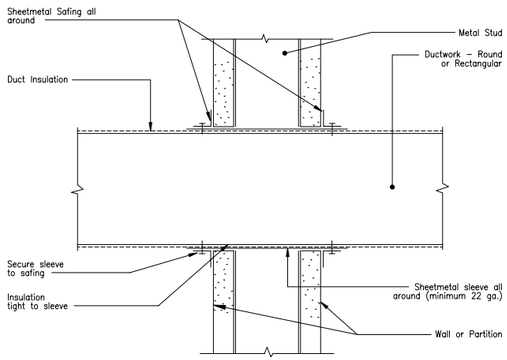
Scale: AS NOTED

Drawing Number:

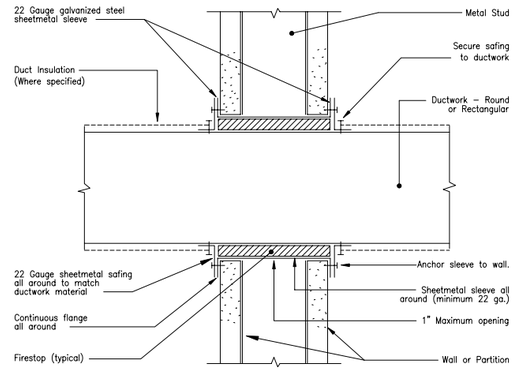
M-2.03

OF

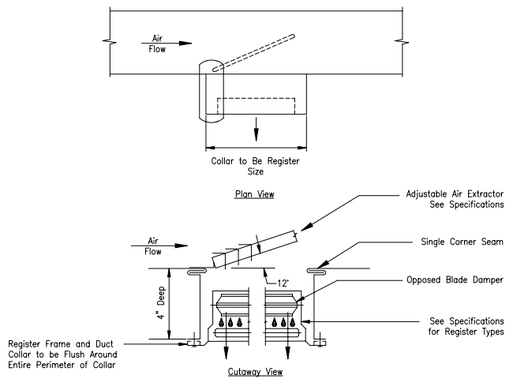
4/10/2008 8:25:07 AM, DWF6 ePlot.pc3



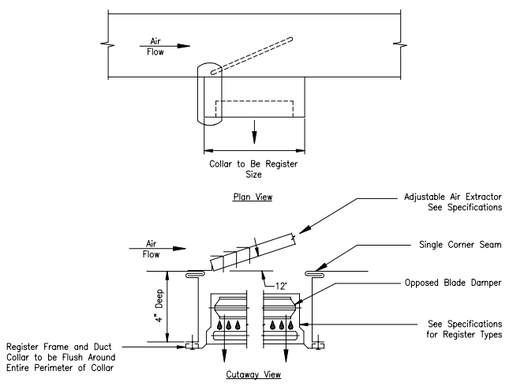
TYP – Detail – Duct Penetration – Non-Fire Rated Walls
No Scale
D-Duct Wall Pen



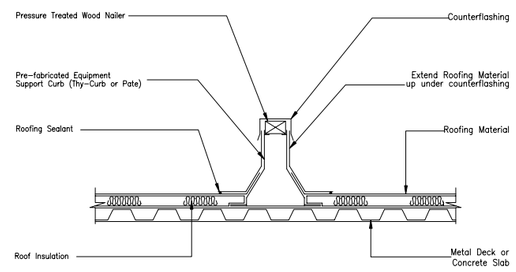
TYP – Detail – Duct Penetration – 1 Hour Rated Walls
No Scale
D-Duct 1 Hr Pen



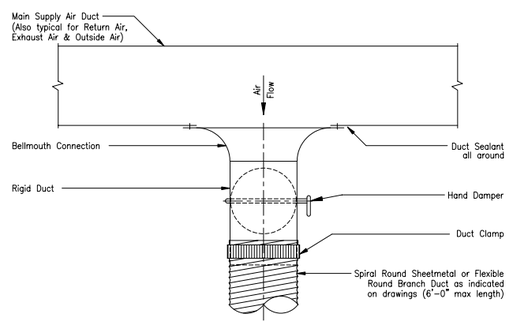
TYP – Detail–Surface Mounted Register on Exposed Duct
No Scale
D-Reg Surface



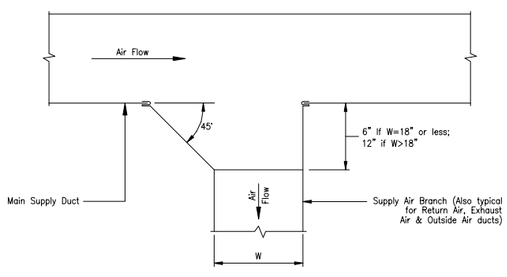
TYP – Detail–Surface Mounted Register on Exposed Duct
No Scale
D-Reg Surface



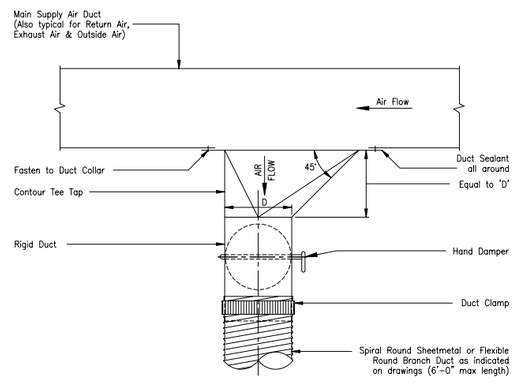
TYP – Detail – Roof Equipment Support
No Scale
D-Roof Eq Sup



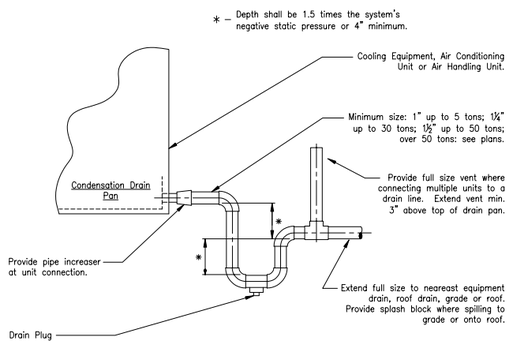
TYP – Detail – Bellmouth Duct Take-off
No Scale
D-TO Bellmth



TYP – Detail – Rectangular Branch Duct Take-off
No Scale
D-TO Branch



TYP – Detail – Contoured Branch Duct Take-off
No Scale
D-TO Contour



TYP – Piping Detail – Cooling Condensation Drain
No Scale
D-Cond Drain

Issued for Final Review
March 24th, 2008

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES, ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:
integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
MECHANICAL DETAILS

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: JHM
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

M-3.01

OF

4/10/2008 8:26:17 AM, DWF6 ePlot.pc3

Air Conditioning Unit Data

Unit Number	Service	Nominal Tons	Supply Air Fan: CFM	Ext. S.P. in. w.g.	Fan Type	Class	Fan RPM	Motor: HP	Motor: RPM	Motor: V-Ph-Hz	Minimum Outside Air-CFM	Cooling Coil: Ent Air °F DB	Ent Air °F WB	Lvg Air °F DB	Lvg Air °F WB	Total MBH	Sensible MBH	Face Area Sq. Ft.	Min. Rows	Fins /in.	Compressor: Quant.	Total HP	RLA Each	LRA Each	Refrig. Type	Condenser Coil: Quant	Face Area	Min Rows	Fins /in	Condenser Fan: Quant	HP (each)	FLA (each)	Ambient Condenser Air °F	Gas Heat Exchanger: Gas Type	Min. Press. in. w.g.	MBH Input	MBH Output	Air °F Ent.	Air °F Lvg.	Filters: Type	Eff. %	Electrical: V-Ph-Hz	FLA	MCA	MFS	Basis of Design	Total Operating Wt. (Lbs.)
RTU/1	2nd, 3rd, & 4th Floor Dehumid.	N/A	3,000	1.0	Centr.	–	–	5.0	1750	480-3-60	1,350	87.7	67.8	52.0	51.0	153.9	115.7	–	–	–	4	–	6	–	410a	1	–	–	–	2	1.5	2.1	95	Nat.	4.0	133.7	106.9	36	99	Disp.	30	480-3-60	43.0	44.7	50	Munters #HCUc-3412AA	3,500 (1)
RTU/2	2nd, 3rd, & 4th Floor Dehumid.	N/A	3,000	1.0	Centr.	–	–	5.0	1750	480-3-60	1,350	87.7	67.8	52.0	51.0	153.9	115.7	–	–	–	4	–	6	–	410a	1	–	–	–	2	1.5	2.1	95	Nat.	4.0	133.7	106.9	36	99	Disp.	30	480-3-60	43.0	44.7	50	Munters #HCUc-3412AA	3,500 (1)
RTU/3	2nd, 3rd, & 4th Floor Dehumid.	N/A	3,000	1.0	Centr.	–	–	5.0	1750	480-3-60	1,350	87.7	67.8	52.0	51.0	153.9	115.7	–	–	–	4	–	6	–	410a	1	–	–	–	2	1.5	2.1	95	Nat.	4.0	133.7	106.9	36	99	Disp.	30	480-3-60	43.0	44.7	50	Munters #HCUc-3412AA	3,500 (1)

(1) Provide unit manufacturer's Desicant Wheel (52/51 ent & 76/52 lvg); Hot gas reactivation coil (94/73 ent & 111/78 lvg); Reactivation Fan w/2,500 CFM @1.0 HP.

Heating & Ventilating Unit Data

Unit Number	Service	Supply Air Fan: CFM	Ext. S.P. in. w.g.	Fan Type	Class	Fan RPM	Motor: HP	Motor: RPM	Motor: V-Ph-Hz	Minimum Outside Air-CFM	Gas Heat Exchanger: Gas Type	Min. Press. in. w.g.	MBH Input	MBH Output	Air °F Ent.	Air °F Lvg.	Filters: Type	Eff. %	Basis of Design	Total Operating Wt. (Lbs.)
HV/1-1	1st Floor Heating & Ventilation	1,270	0.10	Centr.	–	–	1.0	1750	480-3-60	1,270	Nat.	4.0	275	253	0	184	Disp.	30	Cambridge Engineering #S-400	597 (1)
HV/1-2	1st Floor Heating & Ventilation	1,270	0.10	Centr.	–	–	1.0	1750	480-3-60	1,270	Nat.	4.0	275	253	0	184	Disp.	30	Cambridge Engineering #S-400	597 (2)
HV/2-1	2nd Floor Heating & Ventilation	1,270	0.10	Centr.	–	–	1.0	1750	480-3-60	1,270	Nat.	4.0	275	253	0	184	Disp.	30	Cambridge Engineering #S-400	597 (1)
HV/2-2	2nd Floor Heating & Ventilation	1,270	0.10	Centr.	–	–	1.0	1750	480-3-60	1,270	Nat.	4.0	275	253	0	184	Disp.	30	Cambridge Engineering #S-400	597 (2)

(1) Provide unit manufacturer's filter section and insulated rainhood with inlet screen.

(2) Provide unit manufacturer's filter section and inlet screen.

Grille, Register and Diffuser Data

I.D. Number	Type	Application	Pattern	Damper Type	Finish/Color	Basis of Design
AD/1	Drum Louver	Supply Air	N/A	OBD	White Baked Enamel	Titus Series 'DL Drum Louver'
AD/2	Ceiling Diffuser	Supply Air	2-way	OBD	White Baked Enamel	Titus Series 'TDV-S2' (straight)
AD/3	Ceiling Diffuser	Supply Air	3-way	OBD	White Baked Enamel	Titus Series 'TDV-A3'
AD/4	Ceiling Diffuser	Supply Air	4-way	OBD	White Baked Enamel	Titus Series 'TDV-A4'
AD/5	Ceiling Grille	Return Air	N/A	N/A	White Baked Enamel	Titus Series '50-F'
AD/6	Wall Louver	Outside Air	N/A	N/A	Mill	Ruskin Series 'ELF375DX'
AD/7	Wall Louver	Outside/Exh. Air	N/A	N/A	Clear Anodized	Ruskin Series 'BV 100'

Air Handling Unit Data

Unit Number	Service	Supply Air Fan: CFM	Ext. S.P. in. w.g.	Fan Type	Class	Fan RPM	Motor: HP	Motor: RPM	Motor: V-PH-HZ	Minimum Outside Air-CFM	Cooling Coil: Ent Air °F DB	Ent Air °F WB	Lvg Air °F DB	Lvg Air °F WB	Total MBH	Sensible MBH	Face Area Sq. Ft.	Min. Rows	Fins /in.	Gas Heat Exchanger: Gas Type	Min. Press. in. w.g.	MBH Input	MBH Output	Air °F Ent.	Air °F Lvg.	Filters: Type	Eff. %	Basis of Design	Total Operating Wt. (Lbs.)
AHU/1	First Floor Office Area	1,290	0.60	Centr.	–	MH	0.50	MH	120-1-60	260	79.4	65.8	55.3	54.4	44.4	42.8	5.78	3	12	Nat.	7.0	88.0	83.0	57.5	117.2	Disp.	30	Lennox #G61MP48C090 w/C3348B2F	220

Air Cooled Condensing Unit Data

Unit Number	Service	Nom Tons	Refrigerant: Type	Suct. Temp. Deg. F	Condenser Coil: Free Area Sq. Ft.	Min. Rows	Fins/ Inch	Condenser Fan: Quant.	HP (Each)	V-PH-HZ	FLA (Each)	Ambient Cond. Air	Compressor: Quant.	Total HP	RLA Each	LRA Each	Refrig. Type	Electrical: V-Ph-Hz	FLA	MCA	MFS	Basis of Design	Total Operating Wt. (Lbs.)
CU/1	AHU/1 First Floor Office Area	4.0	R410A	–	21.0	2	22	1	1/4	460-3-60	0.90	95	1	–	6.41	41.0	410A	460-3-60	7.31	9.1	15	Lennox #SSB048H4S42G	257

Electric Unit Heater Data

Unit Number	Service	MBH	Fan CFM	Motor: HP	Motor: RPM	Motor: V-ø-Hz	Electric: KW	Electric: V-ø-Hz	Type	Mounting Arrangement	Basis of Design	Total Operating Wt. (Lbs.)
UH/1-1	Sprinkler Room	10.2	350	1/100	1600	277-1-60	3.0	277-1-60	Utility	Vertical	QMark Model #MUH-0371	27 (1)
UH/2-1	Sprinkler Room	10.2	350	1/100	1600	277-1-60	3.0	277-1-60	Utility	Vertical	QMark Model #MUH-0371	27 (1)
UH/3-1	Sprinkler Room	10.2	350	1/100	1600	277-1-60	3.0	277-1-60	Utility	Vertical	QMark Model #MUH-0371	27 (1)
UH/4-1	Sprinkler Room	10.2	350	1/100	1600	277-1-60	3.0	277-1-60	Utility	Vertical	QMark Model #MUH-0371	27 (1)

(1) Provide unit manufacturer's integral thermostat and disconnect swithch. Provide hanging bracket as required.

Fan Data

Unit Number	Service	CFM	SP in. w.g.	Fan Type	Class	Fan RPM	Max. O.V. F/M	Motor: HP	Motor: RPM	Motor: V-Ph-Hz	Basis of Design	Total Operating Wt. (Lbs.)
EF/1-1	Elevator Machine Room	495	0.125	Clg. Cabinet	–	1000	1150	1/2	1000	120-1-60	Loren Cook Gemini #GC640	35
EF/1-2	Toilet Room Exhaust	100	0.125	Clg. Cabinet	–	1374	510	1/100	1374	120-1-60	Loren Cook Gemini #GC140	15

Issued for Final Review
March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus
CT - 8232 MO - 8177
DE - 6185 NJ - C-5880
FL - AR13293 NY - 12406
MA - 8268 PA - 4538
MD - 8170

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
MECHANICAL SCHEDULES

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: JHM
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

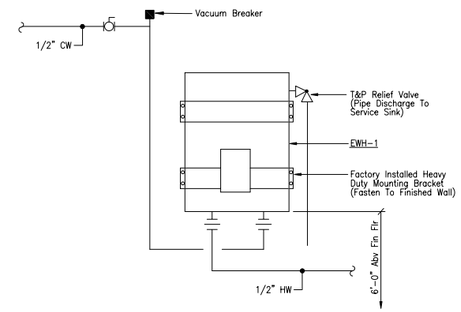
M-4.01

OF

4/10/2008 8:27:06 AM, DWF6 ePlot.pc3

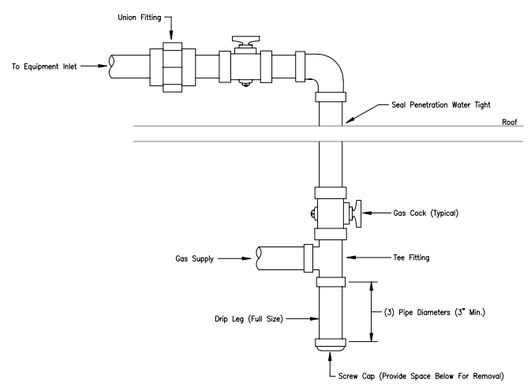
Plumbing Legend

—— CW ——	Domestic Cold Water
—— HW ——	Domestic Hot Water
—— SAN ——	Sanitary Waste
—— ST ——	Storm
—— V ——	Vent
—— G ——	Gas
	Ball Valve
	Check Valve
	Valve On Rise
	Gas Cock, Gas Stop
	Floor Sink
	Tee Outlet Up
	Tee Outlet Down
	Pipe Rising Up
	Pipe Dropping Down
(E)	Existing to Remain
Abv	Above
BFP	Back Flow Preventer
CFH	Cubic Feet Per Hour
Clg	Ceiling
DFU	Drainage Fixture Unit
Dn	Down
°F	Degrees Fahrenheit
Fin	Finished
Flr	Floor
GPH	Gallons Per Hour
GPM	Gallons Per Minute
KW	Kilowatt
Min	Minimum
RWC	Rain Water Conductor



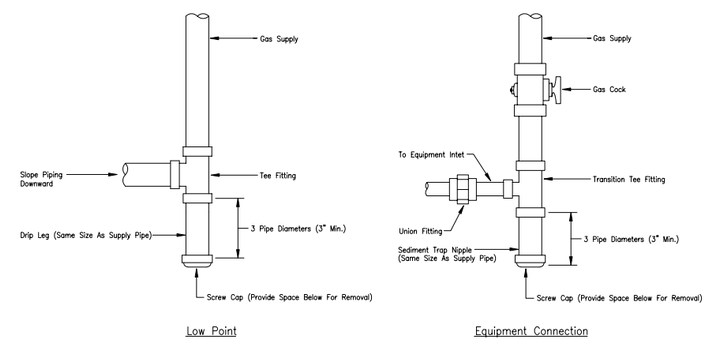
1 / P-1.01 Detail – Electric Water Heater

No Scale



2 / P-1.01 Detail – Rooftop Unit Gas Connection

No Scale



3 / P-1.01 Detail – Gas Drip Leg

No Scale

Fixture Schedule

Item	Description	Manufacturer	Model Number	Faucet/Flush Valve	Trap & Drain	Supplies	Carrier	Rough-In						Color/Finish	Remarks
								Cold Water	Hot Water	Fixture Units	Drain	Vent	Fixture Units		
WC-1	Water Closet (Tank Type)	American Standard	#2377.100	–	–	McGuire #172LK	–	1/2"	–	5	4"	2"	4	White	Mount at ADA Height
LAV-1	Lavatory	American Standard	#0356.421	American Standard #2000.100	McGuire #8902 P-Trap & 155A Grid Drain	McGuire #170LK	Jay R. Smith 0700 Series	1/2"	1/2"	2	1-1/2"	1-1/2"	1	White	Mount at ADA Height
SS-1	Service Sink	American Standard	#7692.008	American Standard #8341.076	American Standard #7798.030	–	–	1/2"	1/2"	4	3"	2"	5	White	Provide American Standard #8379.018 Rim Guard

Plumbing Specialties Schedule

Item	Description	Body			Top & Rim				Remarks
		Cast Iron	Stainless Steel	Bronze	Cast Iron	Stainless Steel	Aluminum	Nickel Bronze	
CO-1	Cleanout-Floor	X	–	–	–	–	–	X	Jay R. Smith
RD-1	Flow Control Roof Drain	X	–	–	–	–	X	–	Jay R. Smith #1083

Electric Water Heater Schedule

Item	Storage	Recovery		Electrical		Entering Water Temp.	Leaving Water Temp.	Remarks
		GPH	Temp. Rise	kw	V-ø-Hz			
EWH-1	20 Gallon	29	80°	5.5	277-1-60	40°	120°	Bradford White #LD-WH20L3-1 w/Incoloy Elements

Issued for Final Review
March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES, ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
PLUMBING
FIRST FLOOR PLAN,
ABBREDVIATIONS,
SYMBOLS & NOTES

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: EJH
Approved By: -
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: NONE
Drawing Number:

P-1.01

OF

4/10/2008 8:36:00 AM, DWF6 ePlot.pc3

Plumbing Specifications

I. General

A. Drawings and general provisions of contract, including general and supplementary conditions and Division 1 specifications sections, apply to this section.

B. All applicable codes, laws and regulations governing or relating to any portion of this work are hereby incorporate into and made a part of these specifications, and their provisions shall be carried out by the contractor who shall inform the owner, prior to submitting a proposal, of any work or materials which violate any of the above above laws and regulations. Any work done by the contractor causing aausing such violations shall be corrected by the contractor.

C. Investigate each space through which equipment must be moved. Where necessary, equipment shall be shipped from the manufacturer in sections of size suitable for moving through available restrictive spaces. Ascertain from building owner and tenant at what times of the day equipment may be moved through all areas.

D. All piping is shown diagrammatically and does not show all offsets, drops, and rises of runs. The contractor shall allow in his price for routing to avoid obstructions.

E. Support new piping from building structure and or framing in a approved manner. Where overhead construction does not permit fastening of supports for equipment, furnish additional framing.

F. Keep all equipment and materials, and all parts of the building, exterior spaces and adjacent streets, sidewalks and pavements free from material and debris resulting from the execution of this work. Excess materials will not be permitted to accumulate either on the Interior or he exterior.

G. Install work so as to be readily accessible for operation, maintenance and repair. Minor deviations from drawings may be made to accomplish this, but changes which involve extra cost shall not be made without Approval.

H. Seal all openings around pipes through partitions and walls with approved firestopping material meeting astm e814 and nfpa-101.

I. Provide all necessary flashing and counter flashing to maintain the waterproofing integrity of this building as required by the installation or removal of pipes, ducts, conduit and equipment.

J. Materials and workmanship, unless otherwise noted, shall be in accordance with building standards.

K. The work in the building shall be done when and as directed, and in a manner satisfactory to the owner.

L. Submission of a proposal shall be construed as evidence that a careful examination of the portions of the existing building, equipment, etc., which affect this work, and the access to such spaces, has been made and that the contractor is familiar with the existing conditions and difficulties that will affect the execution, of the work. Later claims shall not be made for labor, equipment, or materials required because of difficulties encountered, which could have been foreseen during such an examination.

M. Comply with all local and state codes for seismic isolation. The drawings do not show all seismic isolation points, therefore allow for seismic isolation in accordance with the authority having jurisdiction.

N. Plug or cap all piping. Do not leave piping open ended.

O. Connect new work to existing work in a neat and approved manner.

P. Removal and relocation of certain existing work will be necessary for the performance of the general work. All existing conditions cannot be completely detailed on the drawings. The contractor shall survey the site and include all changes in making up the work proposal.

Q. Plan installation of new work and connections to existing work to insure minimum interference with regular operation of existing facilities. All system shutdowns affecting other areas shall be coordinated with the building owner.

R. Unless otherwise specified, the this contractor shall be responsible for all cutting and patching of existing floors, walls and partitions in the existing building. Restore these areas to original conditions that is acceptable to the architect and the building owner.

II. Guarantee

A. Furnish a written guarantee to replace or repair promptly and assume responsibility for all expenses incurred for any workmanship and equipment in which defects develop within one year from the date of actual use of equipment or occupancy of spaces by owner, whichever date is earlier. this work shall be done as directed by the owner. Where defects occur, assume responsibility for all expenses incurred in repairing and replacing work of the other trades affected by defects.

III. Scope Of Work

A. The work under contract includes all labor, materials, and appliances necessary for the furnishing, installation and testing, complete and ready for safe operation of the systems. Work shall be installed in a neat, workmanlike manner. Include all costs for permits, licenses and certificate filing and inspections required by authorities having jurisdiction.

IV. Pipe, Valves And Accessories

A. Domestic Water (Above Grade):

1. Pipe: hard copper tube, ASTM B88, type "l", water tube, drawn temper.

2. Joints: soldered using lead free solder alloy, ASTM B32 and lead free water-flushable flux, astm b813. Construct joints According to astm b828 or cda's "copper tube handbook".

3. Fittings: wrought copper solder joint pressure fittings, ASTM B16.22.

4. Ball valves: class 150, 600 psi; CWP, ASTM b584 bronze body & bonnet, 2-piece construction; chrome plated ball, full port, blowout proof stem, reinforced teflon seats and seals, soldered ends. (Nibco S-585-70)

5. Check valves: swing check valves 1955-SP-80, class 125, 200 psi CWP, horizontal swing, y pattern, ASTM B62 cast bronze body and cap, rotating bronze disc and rubber seat, soldered ends.

6. Unions: ASME B16, 18 cast copper alloy body, hexagonal stock, with ball-and-socket joint, metal-to-metal seating surfaces, and soldered or threaded joints.

B. Domestic Water (Below Grade):

1. Pipe: push-on-joint, ductile-iron pipe, AWWA C151, with push-on-joint, bell and plain spigot end, unless grooved or flanged ends are indicated.

2. Fittings (below grade): push-on-joint, ductile-iron fittings, AWWA C110, ductile-or-gray iron, standard pattern; or AWWA C153, ductile-iron, compact pattern.

A. Gaskets: AWWA C111, rubber.

3. Fittings (above grade): ductile-iron, grooved-end fittings, ASTM A47, malleable-iron castings or ASTM A536 ductile-iron castings with dimensions matching pipe.

A. Ductile-iron piping, keyed couplings, AWWA C606, for ductile iron pipe dimensions. Include ferrous housing sections, gasket suitable for water, and bolts & nuts.

4. Install underground ductile iron piping according to AWWA C600.

C. Sanitary, Vent, And Storm (Below Grade):

1. Hub-and-spigot cast iron pipe and fittings, ASTM A74 service class with rubber gaskets, ASTM C564, and gasketed joints.

2. Install cast-iron soil piping according to CISPI's "Cast Iron Soil And Fittings Handbook "Chapter IV" Installation Of Cast Iron Soil Pipe And Fittings".

D. Sanitary And Vent (Above Grade, 2" And Smaller):

1. Pipe: copper DWV tube, ASTM B306, drainage tube, drawn temper.

2. Fittings: copper drainage fittings, ASME B16.29, wrought copper, solder-joint fittings.

A. Solder joints: use ASTM B813, water-flushable, lead-free flux, ASTM B32, lead-free alloy solder, and ASTM B828 procedure.

E. Sanitary, Vent, And Storm (Above Grade, 3" And Larger):

1. Hubless cast iron pipe and fittings, ASTM A888 or CISPI 301.

A. Heavy-duty, type 304, stainless steel couplings: ASTM A666, type 304, stainless steel shield, stainless steel bands, and sleeve.

(1) 1-1/2" thru 4": 3" wide shield with 4 bands

(2) 5" and larger: 4" wide shield with 6 bands

2. Install cast-iron soil piping according to CISPI's "Cast Iron Soil And Fittings Handbook "Chapter IV" Installation Of Cast Iron Soil Pipe And Fittings".

F. Natural Gas:

1. Pipe: steel pipe, ASTM A53, type E, electric-resistance welded or type S, seamless, grade B, schedule 40, black.

2. Fittings: malleable-iron threaded fittings; asme b16.3, class 150, standard pattern, with threads conforming to asme b1.20.1.

a. Butt-welded type on fitting 3" and larger.

3. Steel flanges and flanged fittings: ASME B16.5, class 150.

4. Joining Materials: pipe dope

a. Welded on piping 3" and larger.

5. Valves:

a. 2" and smaller: threaded ends according to ASME B1.20.1 for pipe threads.

b. 2 1/2" and larger: flanged ends according to ASME B16.5 for steel flanges.

c. Gas stops: bronze body with AGA stamp, plug type with bronze plug and flat or squarehead, ball type with chrome-plated brass ball and lever handle; 2 psig minimum working pressure.

d. Gas valves, 2" and smaller: ASME B16.33 and IAS listed bronze body and 125 psig pressure rating.

e. Plug valves, 2 1/2" and larger: ASME B16.38 and MSSSP-78 cast iron, lubricated plug valves, with 125 psig pressure rating.

f. General duty valves, 2 1/2" and larger: ASME B16.38, cast-iron body, suitable for fuel gas service, with "WOG" indicated on valve body, and 125 psig pressure rating.

(1) Gate valves: MSS SP-70, O.S.&Y type with solid wedge.

6. Unions: ASME B16.39, class 150, black malleable-iron; female pattern, brass-to-iron seat, ground joint.

7. Drips and sediment traps: install fittings forming drips at points where condensate may collect. Cap or plug bottom outlet. Use minimum length nipple of 3 pipe diameters, but not less than 3 inches long, and same size as connected pipe. Install on all connections to equipment.

8. Install dielectric fittings where piping of dissimilar metals are joined.

9. Comply with local standard gas company and NFPA 54 for gas piping materials, components and installations.

V. Identification

A. Provide system identification, 10 ft. on center (6 ft. on center for natural gas piping), indicating system, size and direction of flow.

1. Provide coiled plastic markers (MSI #MS-970) complying with ANSI A13.1 standard for pipe identification with regard to color, letter height and marker size.

2. Label color and lettering should be as follows:

Service	Color
Domestic Cold Water	Green
Domestic Hot Water Supply	Yellow
Natural Gas	Yellow
Sanitary Waste	Green
Sanitary Vent	Green
Storm Piping	Green

VI. Insulation

A. Fire retardant jacket on pipe insulation.

B. Valves and fittings: premolded fiberglass fittings or radial mitered segments of pipe insulation, insulating cement, fiberglas reinforcing cloth, and mastic, vapor seal insulation on cold water piping.

C. Cold and hot water piping: fiberglass sectional pipe covering with vapor barrier jacket, no staples permitted, thickness as scheduled.

1. Cold Water

Pipe Size	Insulation Thickness
1/2 thru 1"	1/2"
1-1/4" thru 4"	1"

2. Hot Water

Pipe Size	Insulation Thickness
1/2 thru 1"	1"
1-1/4" thru 3"	1-1/2"

D. Storm Piping

1. Insulate horizontal storm piping and upper body of roof drains with one piece 1 1/2" micro-lock op-t plus fiberglass insulation as manufactured by Schuller Co. Made of flame-attenuated glass fiber bonded with a thermosetting resin in lps sizes, including Zeston 2000, insulated fitting covers with inserts.

2. Horizontal Storm Piping: 1 inch fiberglass sectional Pipe covering with pvc exterior jacket.

VII. Supports

A. Support piping independently from structure and at distances as required by code.

B. Pipe attachments:

1. Individual, straight, horizontal piping runs, according to the following:

a. 100 feet and less: MSS type 1, adjustable, steel clevis hanger.

b. Longer than 100 feet: MSStype 43, adjustable roller hanger.

2. Multiple, straight, horizontal piping runs 100 feet or longer:

a. MSS type 44, pipe rolls support pipe rolls on trapeze.

3. Base of vertical piping: MSS type 52, spring hanger.

C. Install hangers for horizontal piping with the following maximum spacing (in feet) and minimum rod sizing.

Nom. Pipe Size (in)	Copper Tube	Cast Iron	Steel Pipe	Min. Rod Dia.(in.)
up to 3/4	5	–	8	3/8
1	6	–	8	3/8
1 1/4	6	–	9	3/8
1 1/2	8	5	9	3/8
2	8	5	9	3/8
2 1/2	9	5	10	1/2
3	10	5	10	1/2
4	10	5	10	5/8
6	10	5	10	3/4
8	10	5	10	7/8

VIII. Cleaning

A. Domestic Water

1. Purge new piping systems and parts of existing domestic water systems that have been altered, extended or repaired prior to use.

2. Use purging and disinfecting procedure prescribed by authority having jurisdiction and local codes, if methods are not provided, follow procedures described in either AWWA C651 or AWWA C652 or as described below:

A. Flush piping system with clean, potable water until dirty water does not appear at outlets.

B. Fill system or part there of with water/chlorine solution with at least 50 ppm of chlorine. Isolate with valves and allow to to stand for (3) hours.

C. Flush system with clean, potable water until no chlorine is present in water coming from system after the standing time.

D. Submit water samples in sterile bottles to authorities having jurisdiction. Repeat procedures if biological examination shows contamination.

3. Prepare and submit reports of purging and disinfecting activities.

A. Certification shall be done by an independent lab and certificate provided at time of occupancy inspection.

B. Sanitary And Vent

1. Clean interior of piping systems. Remove dirt and debris as work progresses.

2. Protect drains during remainder of construction period to avoid clogging with dirt and debris and to damage from traffic and construction work.

3. Place plugs in ends of uncompleted piping at end of the day and when work stops.

IX. Testing

A. Domestic Water:

1. Test for leaks & defects in new piping and parts of existing piping that have been altered, extended, or repaired. If testing is performed in segments, submit separate report for each test, completed with diagram of portion of piping.

2. Leave uncovered and unconcealed new, altered, extended, or replaced domestic water piping until it has been tested and approved. Expose work that was covered and concealed before it was tested.

3. Cap and subject piping to static water pressure of 50 psig above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired.

4. Repair leaks and defects with new materials and retest system until satisfactory results are obtained.

5. Prepare reports for tests and required corrective action.

B. Sanitary, Vent, and Storm:

1. Test sanitary and vent piping according to procedures of authorities having jurisdiction or, in absence of published procedures, as follows:

A. Test for leaks and defects in piping. If testing is performed in segments, submit separate reports for each test complete with diagram of portion piping tested.

B. Leave uncovered and unconcealed new, altered, extended, or replaced drain piping until it has been tested and approved. expose work that was covered or concealed before it was tested.

C. Test procedures: test drainage piping on completion of rough-in. Close openings in piping systems and fill with water to point of overflow, but not less than 10-foot head of water. From 15 minutes before inspection starts to completion of inspection, water level must not drop. Inspect joints for leaks.

D. Repair leaks and defects with new materials and retest piping, or portion thereof, until satisfactory results ae obtained.

E. Prepare reports for tests and required corrective action.

C. Natural Gas System:

1. Inspect, test, and purge natural gas system according to NFPA 54, Part 4 "Gas Piping Inspections, Testing And Purging" And Local Gas Utility Requirements.

X. Shop Drawings

A. Furnish shop drawings of all equipment being provided. Submit to owner's representative for approval prior to fabrication or installation.

B. All equipment and accessories are based on specific types, manufactures and models indicated. Equipment and components having equal performance characteristics by other manufacturers may be considered, provided deviations in dimensions, operation, and other characteristics do not change the design concept or intended performance as judged by the engineer. The burden of proof of product equality is on the contractor.

XI. Preparation Of Foundation For Buried Piping

A. Grade trench bottom to provide smooth, firm, stable, and rock free foundation throughout length of piping.

B. Remove unstable soft, and unsuitable materials at surface on which piping is to be laid and backfill with clean sand or pea gravel to indicated level.

C. Shape bottom of trench to fit bottom of piping. Fill uneven areas with tampered-sand backfill. Dig bell holes at each pipe joint to relieve bells of loads and to ensure continuous bearing of pipe barrel on foundation.

D. Compact required fill around top, bottom and sides of underground piping a minimum of 6" as required by code.

XII. Quality Assurance

A. Provide listing/approval stamp, label or other marking on equipment equipment made to specified standards.

B. Codes And Standards

1. Fabricate and install systems in accordance with all local codes, governing agencies, and the local plumbing code.

XIII. System Performance Requirements

A. Provide components and installation capable of producing piping systems with the following minimum working pressure ratings, except where indicated otherwise:

(1) Water Distribution Systems: 175 psig
(2) Sanitary, Vent, and Storm Systems: 10 Ft Head Of Water
(3) Natural Gas System: 5 psig

XIV. Delivery, Storage, And Handling

A. Deliver and store accessories in factory-installed packaging.

XV. Field Quality Control

A. Test and adjust operating and safety controls. Replace damaged and malfunctioning controls and equipment.

B. Do not enclose, cover, or put piping into operation until it is inspected and approved by authorities having jurisdiction.

1. During installation, notify authorities having jurisdiction at least 24 hours before inspection must be made.

2. Prepare inspection reports and have them signed by authorities having jurisdiction.

C. Provide an independent testing agency service under separate contract to inspect, test, and certify breathable air piping and components.

XVI. Commissioning

A. Perform the following final checks before startup:

1. Verify that specified tests of piping systems are complete.
2. Check for piping leaks.
3. Ensure proper setting of pressure regulators.
4. Remove and clean strainer screens.
5. Fill water heater with water prior to operation.

Issued for Final Review
March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus
CT - 8232 MO - 8177
DE - 6185 NJ - C-5880
FL - AR13293 NY - 12406
MA - 8268 PA - 4538
MD - 8170

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
PLUMBING
FIRST FLOOR PLAN,
ABBREDVIATIONS,
SYMBOLS & NOTES

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

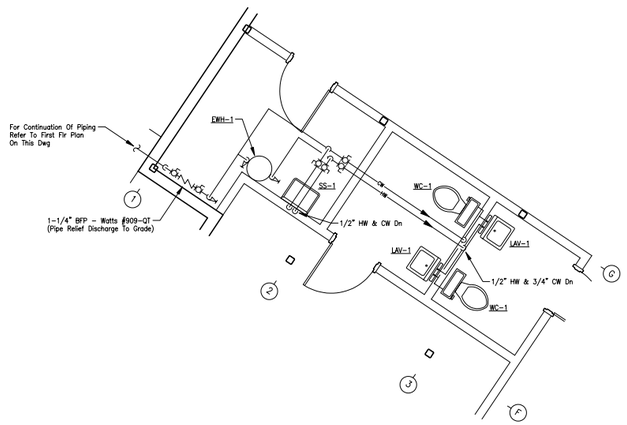
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: EJH
Approved By: -
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: NONE
Drawing Number:

P-1.02

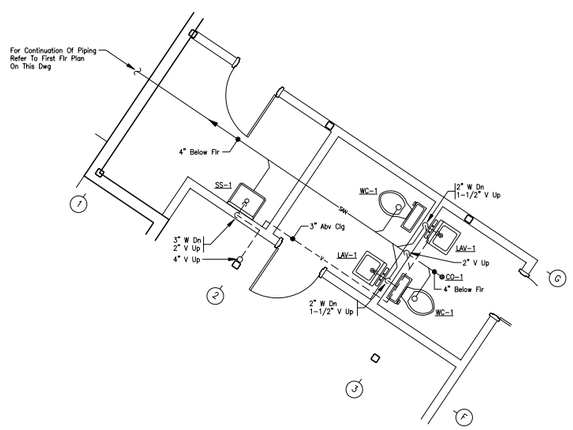
OF

4/10/2008 8:37:27 AM, DWF6 ePlot.pc3



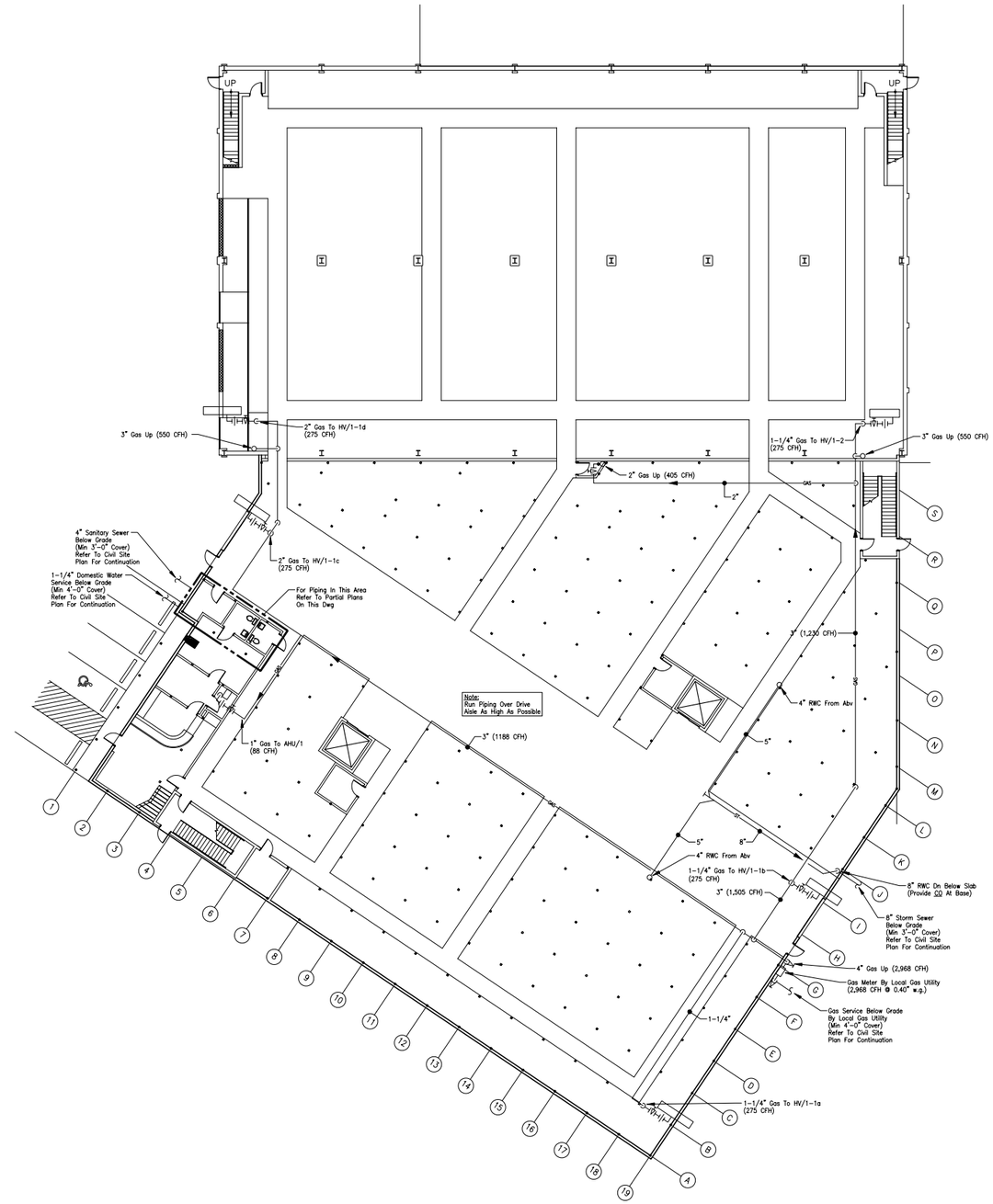
2 / P-2.01 Partial Plan – Domestic Water

Scale: 1/4" = 1'-0"



3 / P-2.01 Partial Plan – Sanitary & Vent

Scale: 1/4" = 1'-0"



1 / P-2.01 Plan – First Floor

Scale: 1/16" = 1'-0"

Issued for Final Review
March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES, ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
PLUMBING
FIRST FLOOR PLAN,
ABBREDVIATIONS,
SYMBOLS & NOTES

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

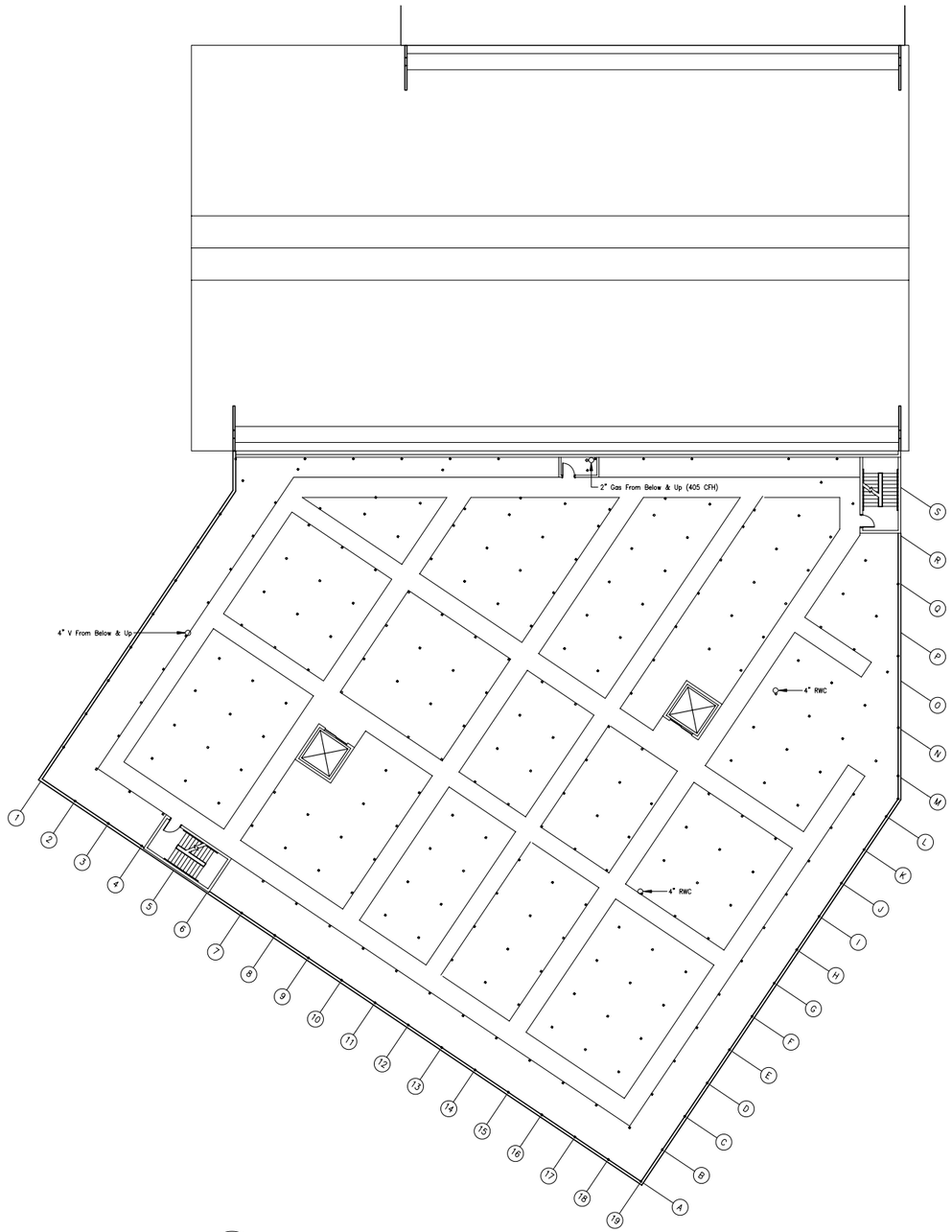
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: -
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

P-2.01

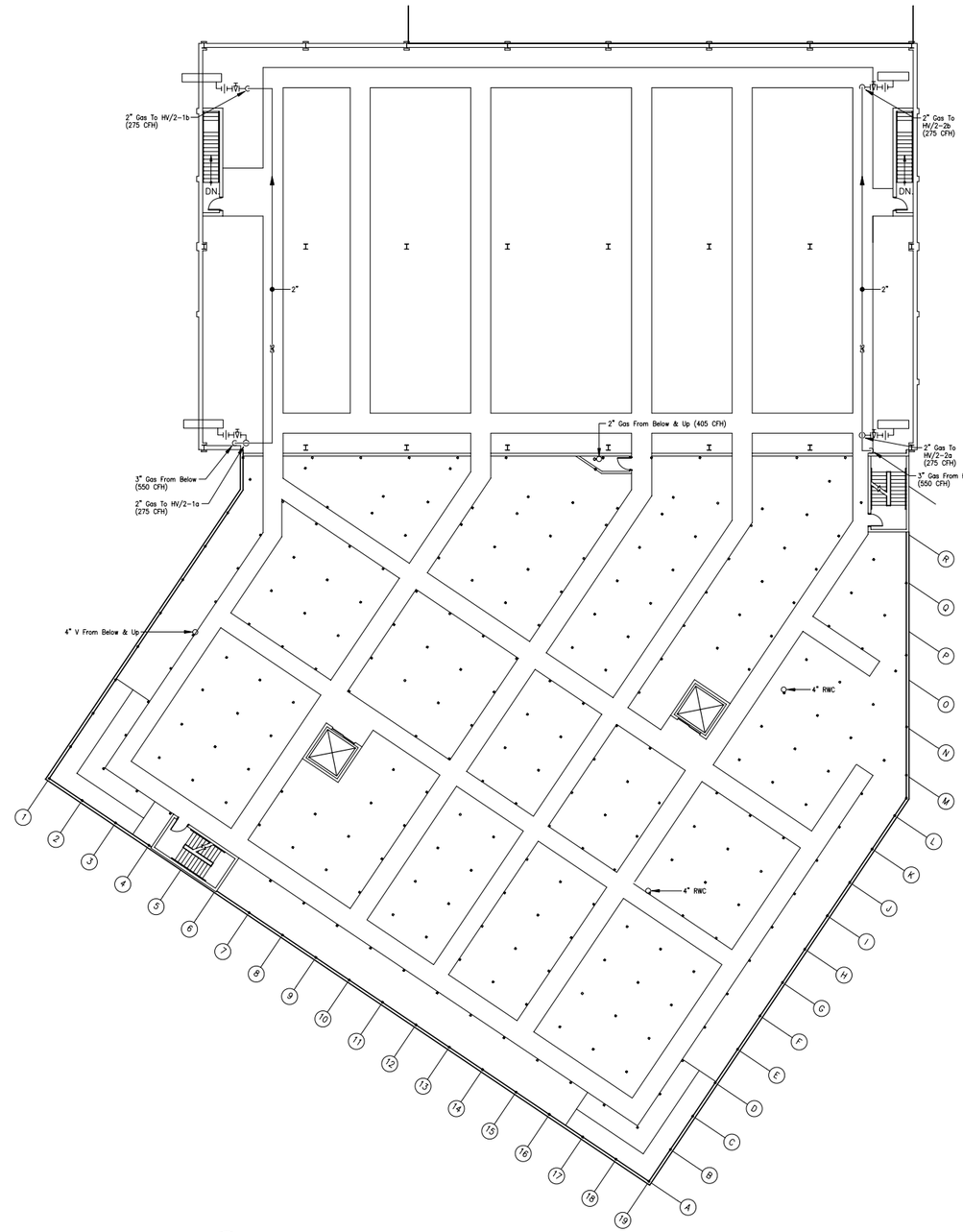
OF

4/10/2008 8:38:13 AM, DWF6 ePlot.pc3



2 / P-2.02 Plan – Third Floor

Scale: 1/16" = 1'-0"



1 / P-2.02 Plan – Second Floor

Scale: 1/16" = 1'-0"

Issued for Final Review

March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES, ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
PLUMBING
SECOND & THIRD
FLOOR PLANS
-

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

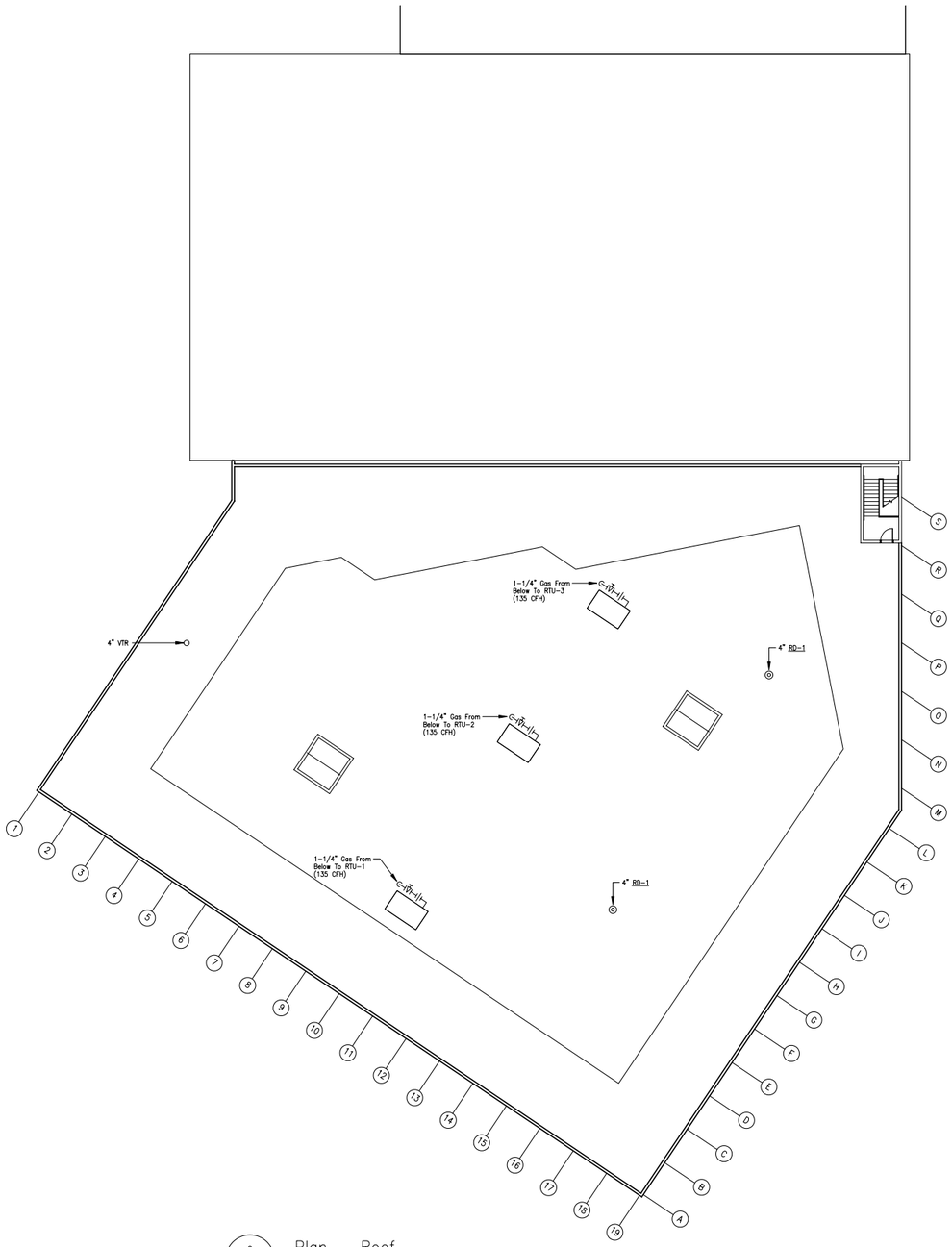
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: -
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

P-2.02

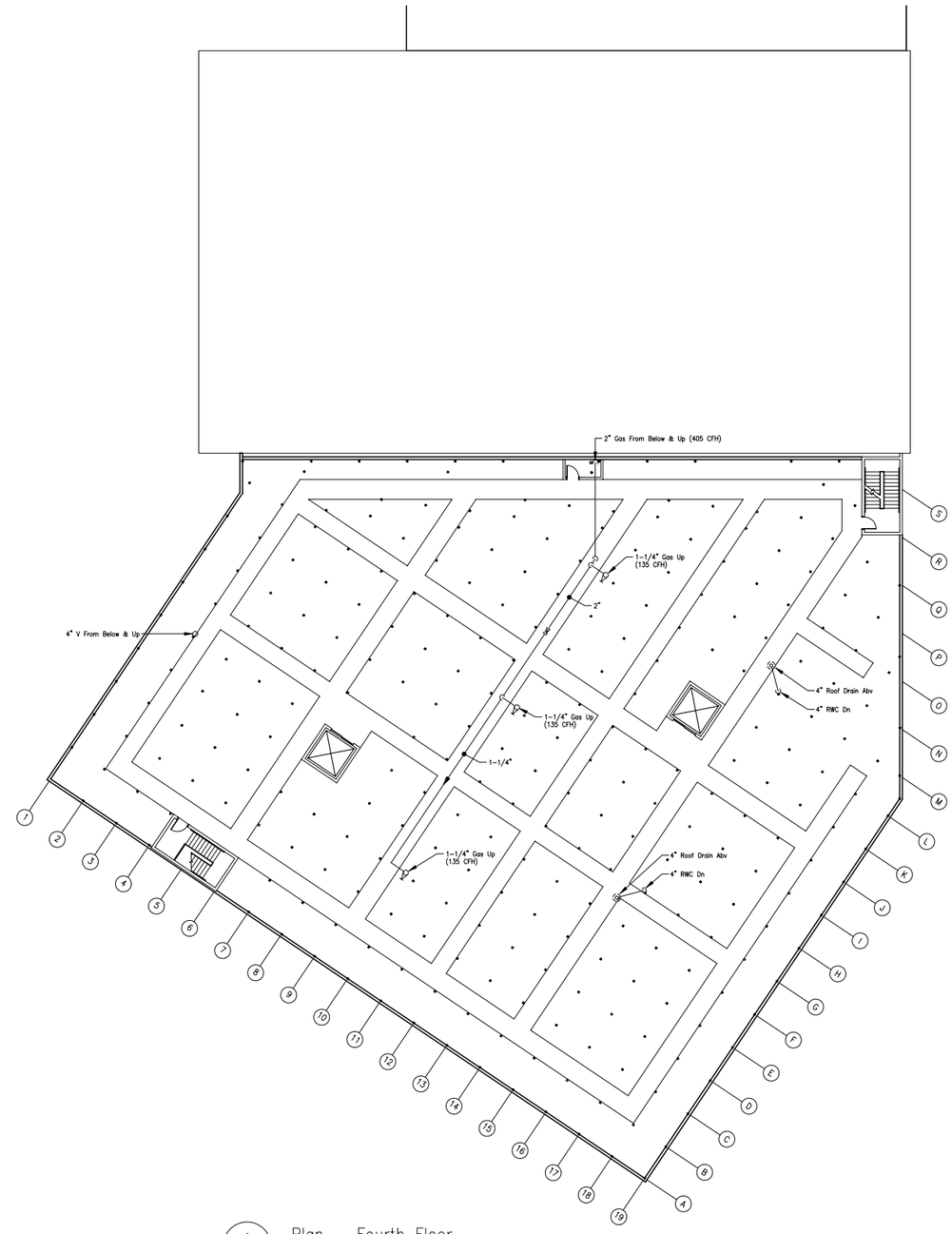
OF

4/10/2008 8:38:53 AM, DWF6 ePlot.pc3



2 / P-2.03 Plan – Roof

Scale: 1/16" = 1'-0"



1 / P-2.03 Plan – Fourth Floor

Scale: 1/16" = 1'-0"

Issued for Final Review

March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
PLUMBING
FOURTH FLOOR &
ROOF PLANS
-

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

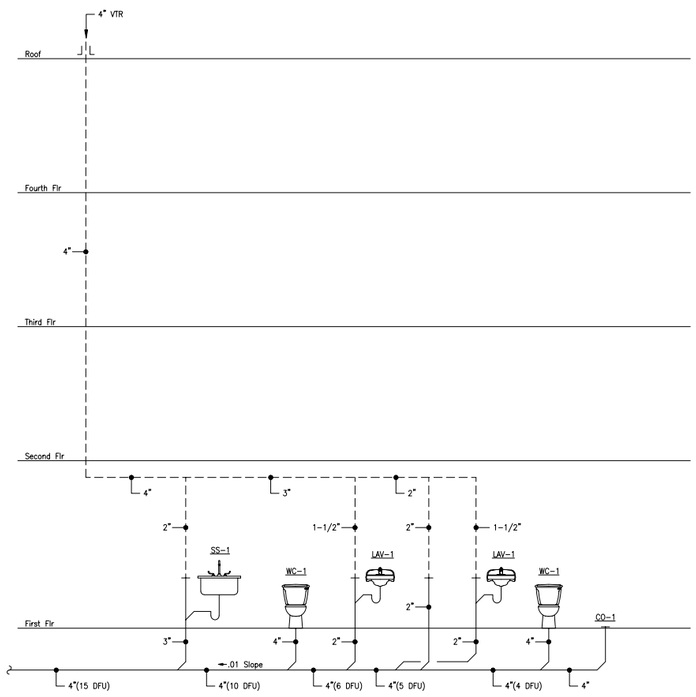
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: -
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

P-2.03

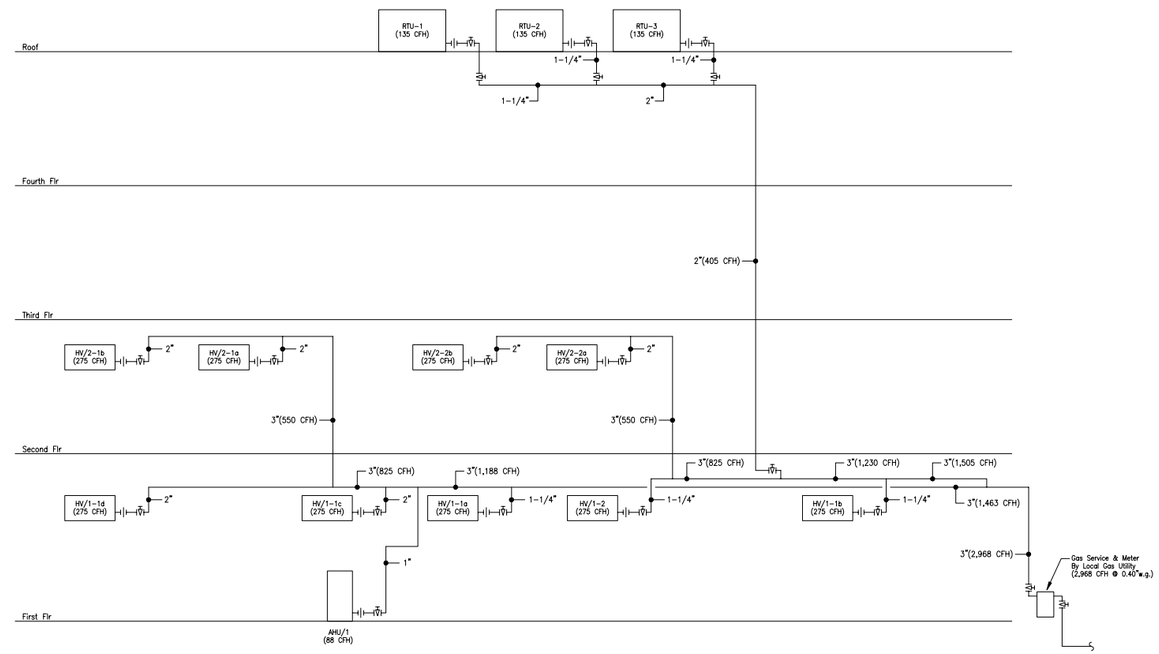
OF

4/10/2008 8:39:25 AM, DWF6 ePlot.pc3



1 / P-3.01 Riser Diagram – Sanitary & Vent

No Scale



2 / P-3.01 Riser Diagram – Natural Gas

No Scale

Issued for Final Review

March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES, ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:
integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
PLUMBING
FIRST FLOOR PLAN,
ABBREDVIATIONS,
SYMBOLS & NOTES

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: EJH
Approved By: -
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: NONE
Drawing Number:

P-3.01

OF

4/10/2008 8:39:58 AM, DWF6 ePlot.pc3

E L E C T R I C A L S P E C I F I C A T I O N S

SECTION I – GENERAL REQUIREMENTS

A. GENERAL

1. The applicable provisions of these General Requirements shall be held binding to Electrical Contractor and all his sub–contractors.

2. The General Conditions of the contract shall be as outlined and specified under the contract for construction and associated contract documents.

B. SPECIAL CONDITIONS OF THE CONTRACTS

1. Electrical Contractor and all his sub–contractors shall cooperate and work in close conjunction with the General Contractor to assure a complete, well coordinated installation of electrical system.

2. All contractors bidding the project shall visit the job site and become familiar with all job conditions prior to submitting bid; no extra compensation will be paid for extra work made necessary by the Contractor's failure to do so. All work required to accommodate existing conditions, whether shown on these documents or not, shall be coordinated and all costs to do so shall be included in the bids. Contractors shall pay special attention to existing conditions affecting removal of existing equipment and the entrance of new equipment.

3. Special conditions as specified in all the subsequent sections and paragraphs shall modify and augment the General Conditions of the contract and shall take precedence over the latter where there is a conflict between the two.

4. The Electrical systems are indicated on the drawings, but attention is called to the fact that certain pertinent information and details for the Electrical work may appear on the Mechanical drawings.

5. Electrical Contractor shall submit a detailed cost breakdown of his bid. A schedule of values shall consist of a line item for each major piece of equipment indicating material and labor costs.

C. SCHEDULING OF WORK

1. Contractor shall schedule his work with the owner and the General Contractor prior to beginning work. No work is to begin prior to scheduling by the Owner.

2. All materials, scaffolding, tools and other equipment must be on the job or readily available to Contractor prior to beginning any of the work.

3. Each Contractor shall be responsible for protecting all persons and property from any possible damage due to his work. He shall maintain dust barriers, barricades, and any other precautions necessary to accomplish this.

D. CLEANING

1. Each Contractor, upon completion of his day's work, shall remove all tools, materials, apparatus, and rubbish of any sort and premises shall be left neat and orderly. Upon completion of project, premises shall be cleaned to satisfaction of Owner.

2. All electrical equipment after installation shall be protected from damage by others. Cover plates for all devices shall be installed after finish materials have been applied.

E. DAMAGE

1. Any damage done to the existing building or new work shall be corrected and damage repaired to its original condition to the satisfaction of the Owner by the responsible Contractor.

F. CUTTING AND PATCHING

1. All cutting in existing building shall be done by each Contractor as required for the installation of his work. Cutting shall be done by competent mechanics and all surfaces shall be patched and refinished to the owner's satisfaction.

G. GUARANTEE

1. Prior to final acceptance of the work, a written statement shall be furnished to Owner, guaranteeing all equipment against defective materials and workmanship for (1) one year from date of acceptance. Upon notice from Owner, the Contractor shall promptly make good all defective workmanship and replace all defective materials during that period.

H. WORKMANSHIP

1. All work shall be installed in an approved first–class, neat and workmanlike manner by mechanics competent in the trade. All details of the installation shall be electrically correct.

I. MATERIAL APPROVALS

1. Eight (8) copies of shop drawings shall be submitted and approval obtained for all equipment before final release of those items. Engineer's review is given only for general compliance with contract requirements, and does not relieve the Contractor from any obligation under taken under the contract.

2. Equipment shall be provided exactly as specified and no substitution will be permitted. Where more than one manufacturer is mentioned, any of those will be acceptable but no others will be considered. This Contractor shall be responsible for any differences required by substitutions from the basis of design, whether listed as an equal or not. The Contractor shall pay the cost of any other trades or the cost of the Architect or Engineer for changes that are required due to a substitution.

J. SCAFFOLDING

1. Each Contractor shall provide lift equipment, ladders or scaffolding necessary for installation of his work. Upon completion of installation, this equipment shall be removed.

K. LOCATIONS OF EQUIPMENT

1. Drawings are essentially diagrammatic in nature, and are not intended to show exact locations. Existing conditions and/or Architect's detailed drawings shall be consulted and outlets located so they best serve intended purpose and do not interfere with other work. It shall be the responsibility of each Contractor to coordinate locations sufficiently in advance so as not to interfere with progress of his work or work of other **Contractors.**

L. DEFINITIONS

1. Wherever the word "provide" appears in these specifications or on the accompanying drawings, it shall mean furnish and install with all required associated work, materials, equipment and appurtenances.

2. Wherever the word "install" appears in these specifications or on the accompanying drawings, it shall mean to receive, handle, inspect for proper condition and install with all required associated work materials, equipment and appurtenances.

3. Wherever the word "furnish" appears in these specifications or on the accompanying drawings, it shall mean to purchase and deliver to the installing contractor devices, equipment and accessories as noted or specified.

M. RECORD DRAWINGS

1. Each contractor shall keep one set of prints aside at the site, on which he shall mark all deviations from contract drawings and any data that is pertinent for completion of record documents. At completion of the project, they shall deliver this set of drawings to the Owner.

N. CHASES AND OPENINGS

1. Electrical Contractor shall coordinate with the General Contractor to provide any chases or wall openings required for the installation of his work in new section of building. If any cutting and patching of new walls, floors etc. is required due to failure to do so, Electrical Contractor shall obtain the services of the General Contractor to provide the cutting and patching and pay for those services.

SECTION II – ELECTRICAL SPECIFICATIONS

A. SCOPE OF WORK

1. The Electrical Contractor shall provide all Electrical work and equipment required to complete the installation of the new electrical system in accordance with the intent of these specifications and drawings.

2. The work shall include but not be limited to the following:

   a. Complete new electrical service and distribution system including new feeders, panelboards and transformers.
   b. Complete new lighting system including installation of new wiring, fixtures, lamps and switches.
   c. New branch wiring and devices.
   d. Empty raceways for telephone, data and other communications wiring.
   e. Wiring of all HVAC and plumbing equipment.
   f. Temporary lighting and power required for the use of all contractors.
   g. Complete new fire alarm system.
   h. Disconnecting and removal of existing electrical equipment as indicated.

3. The Electrical Contractor shall make final corrections to all apparatus provided under this contract and/or provided under other contracts.

B. REGULATIONS

1. All Electrical work shall be in accordance with the National Electrical Code (NEC), The city of New York Electrical and Fire Codes, and the authorities enforcing them. Electrical installation shall be inspected by an authorized inspection agency approved by the city. A copy of the permit and the inspection certificate shall be presented to Owner prior to final payment.

2. This contractor shall procure all permits and inspections and pay for same.

C. WIRE AND CABLE

1. All wire shall be either THHN/THWN insulated copper run in metal raceway or armored cable from panelboards to devices, lights or equipment. All conduit and wiring shall be run neatly, parallel or perpendicular to building lines.

2. Conductors shall be solid for #10 and smaller, and #8 and larger shall be stranded. Minimum branch circuit wire shall be #12 AWG. All wire shall be copper.

3. Armored cable where allowed shall be type 'MC' containing an insulated green grounding conductor and have 600 volt rating.

D. RACEWAY INSTALATION AND WIRING METHODS

1. Raceways shall be installed in accordance with National Electric Code requirements. Electrical metallic tubing (EMT) may be used for all interior conduit runs. Rigid steel conduit shall be used on exterior. PVC schedule 40 shall be used for outdoor underground. MC cable may be run above the suspended ceilings and in partitions in office area and run neatly exposed along structural steel in warehouse. All conduit and cable shall be firmly fasted to structural members and not fastened to any piping or non structural materials.

2. All final connections to mechanical equipment shall be made with section of flexible liquid–tight conduit not exceeding 18" in length.

3. All wiring above ceilings must be supported from the structure; no wiring will be accepted lying on ceiling.

E. GROUNDING

1. Grounding shall be provided in accordance with requirements of National Electric Code and all authorities having jurisdiction.

2. Grounding shall generally be accomplished through ground wire in conduit or armored cable system. All motor frames and non–current carrying metallic parts of electrical apparatus shall be grounded.

3. Grounding pole of each receptacle shall be connected to its outlet box with a bonding jumper and approved clamp or ground screw. Outlets using approved self–grounding screws will be acceptable.

4. A separate code size green grounding conductor shall be run in all raceways and connected at each end to metallic ground in an approved manner.

F. SPLICES

1. Splicing of #10 and #12 wires may be done with spiral spring type connectors inside insulated metal cups such as "scotch–lock" or "wing–nut" or equal. For larger size wires, indentation type solderless pressure connectors of the proper size and type shall be used.

G. WIRING DEVICES

1. Devices shall be UL approved specification grade. Color shall be brown. Wiring devices shall be manufactured by Hubbell, Leviton or equal by P&S.

2. Local switches shall be rated 20 amperes 120/277 volts, "AC" only, quiet operation only, with toggle handle, switches shall be single pole or 3–way as required. Mount all new switches at 42 inches above finished floor to center line, unless noted otherwise.

3. Convenience receptacles shall be "U" slot grounding type, duplex, rated 20 amps at 125 volts in office area. Mount center line of receptacle at 18" above finished floor, unless noted otherwise.

4. A cover plate of type 302 stainless steel shall be provided for each switch or outlet requiring a plate in a finished space. Uninfished spaces such as Electrical and Mechanical Rooms, elevator pits and in warehouse area may be surface mounted boxes with galvanized plates.

5. Receptacles in toilet rooms, elevator rooms and pits and on building exterior shall be GFI type. All receptacles exposed to weather shall have "in–use" type weatherproof covers.

6. All receptacles in warehouse areas shall be mounted in a surface box and cover located on top of storage units.

H. LIGHTING FIXTURES

1. The Electrical Contractor shall furnish a complete new lighting system including fixtures; switches required associated appurtenances, all lamps and accessory wiring.

2. All ballasts for new fixtures shall be high power factor type and shall comply with UL requirements. All ballasts shall have internal thermal protection and shall be "A" sound rated. All ballasts in fluorescent fixtures shall be rapid start, electronic type, with less than 10% THD per NEMA C82.11, compatible with T8 or compact fluorescent lamps.

3. Fixtures shall be as specified under "Fixture List" on drawings.

4. Fluorescent troffers shall be fastened to ceiling grid with either integral mounting clips or with new auxiliary clips.

5. Install at least two independent support wires from steel structure to a tab on lighting fixture. Fasten support clips to fixture and to ceiling grid members at or near each fixture corner with UL listed clips.

6. All fixture lenses, trims and reflectors shall be cleaned and left free of all finger marks.

I. LAMPS

1. All lamps shall be provided by the Electrical Contractor in all fixtures in this contract. Lamps shall be manufactured by General Electric, Sylvania or Philips.

2. All lamps shall be as specified in the lighting fixture schedule on the drawing.

3. All inoperable lamps in all fixtures shall be replaced with new at completion of project.

J. SAFETY SWITCHES

1. All safety switches shall be provided, fused and un–fused, as required for entire project by contract drawings. Switches shall be quick–make, quick–break type, 240volt or 600volt as required, horsepower rated; Square "D" – HD type or equal by General Electric or Siemens.

K. FUSES

1. One complete set of fuses shall be provided for all fused switches. Fuses shall be dual element, time delay type, Bussman "Fusetron" or approved equal. Provide one set of spares for each fused switch.

L. PANELBOARDS

1. New panelboards shall be UL labeled, dead front, with automatic circuit breakers, complete with enclosing cabinets and panel covers.

2. Bussing shall provide fully distributed sequence phasing. Circuit breakers shall be removable without disturbing adjacent units. Bussing and connection straps shall be provided for all circuit breakers indicated "space" so that future circuit breakers can be easily bolted in place. Panelboards shall be Square "D" or approved equal by General Electric or Siemens.

3. Panelboards shall have both a neutral bus and a bonded ground bus.

4. Automatic circuit breakers shall be bolt on type, quick–make and quick–break on manual operation; automatic tripping shall be clearly indicated by operation handle. An overload or short circuit in any pole of a multi–pole breaker shall open all poles without use of tie handles. "Compact" breakers will not be accepted.

5. Voltage rating of circuit breakers shall match system voltage in which it is applied. Breakers shall have interrupting capacity rated in RMS symmetrical amperes based on NEMA test procedures. Circuit breakers shall have a minimum 10,000 amp. Interrupting rating at 240 volts, 14,000 amps at 480 volts and shall be HACR rated. Circuit breakers shall be fully rated. Series rating is not acceptable.

6. Provide a new typewritten panel index on inside of panelboard door; provide panel identification on cover exterior consisting of a black phenolic nameplate with white engraved letters.

M. SHOP DRAWINGS

1. Shop drawings or catalog cuts shall be submitted on the following:

Exit Lights	Disconnect Switches
Light Fixtures & all lamps	Fire Alarm Equipment
Panelboards	Transformers
Switchboard	Emergency Battery Units

N. UNIT TRANSFORMER

1. Unit transformer shall be provided as indicated. Transformers shall be indoor type, core and coil assembly mounted on rubber isolation pads in a ventilated sheet steel enclosure, suitably protected against corrosion inside and outside, and painted gray. Transformer shall be Square "D", Cutler–Hammer or Siemens.

2. Transformers shall be air cooled and rating shall be as indicated. They shall be rated for 115 degree C temperature rise above a 40 degree C ambient. All transformers shall have standard taps, with minimum two 5% taps below normal on units 30 KVA and smaller. Transformers larger than 30 KVA shall have minimum six 2–1 1/2 % taps. 2 above and 4 below normal. Sound levels shall be less than NEMA standard. Conduit and wiring connections shall be made in terminal chamber with access cover. Provide isolation shield where required by drawings.

O. LIGHTING RELAYS

1. Lighting relays shall be continuously and fully rated, electrically operated, mechanically held with number of normally open poles as indicated. Contacts shall be rated 600 volts ac, 25 amp continuous for lighting and mixed loads, 300 amp momentary break current for inductive loads. Lighting relays shall be mounted in NEMA–1 enclosures unless otherwise noted. Relays shall be ASCO bulletin 917 with accessory 47, or approved equal.

P. MOTOR STARTERS

1. Motor starter shall be combination circuit breaker across the line magnetic type, size as shown with green pilot light, (2) sets of auxiliary contacts, 480 to 120v control transformer sized with 100% spare capacity and fused on primary and secondary, (3) overload relays and H.O.A. switch in NEMA–1 enclosure. Electrical Contractor is responsible for obtaining nameplate full load amps and supplying properly sized overloads.

Q. FIRE ALARM SYSTEM

1. The complete installation shall conform to the applicable sections of NFPA–72, City of New York local code requirements and the National Electric Code.

2. System components and all wiring shall be provided as follows:

   a. Manual Pull Stations
   b. Ceiling Type Smoke Detectors
   c. Heat Detectors
   d. Audio/Visual Alarms to operate upon actuation of any device.

3. The alarm system shall be approved by the local fire authority, in addition to other required approvals. This approval shall be obtained prior to the submittal of shop drawings to the Engineer for review and approval.

4. Connect flow and tamper switches in sprinkler piping into alarm system.

5. Provide sigani from fire alarm control panel to security system.

6. Send a signal to elevator controller to actuate elevator recall upon actuation of any elevator related smoke detector.

7. Send a signal to open shunt trip breaker for elevator power upon actuation of any elevator related heat detector.

8. Provide a heat detector within a two foot radius of any sprinkler head in elevator shafts or equipment rooms to open shunt trip breaker feeding elevator equipment.

9. Prior to submitting bid, coordinate all work with system manufacturer, advise them of the proposed work and include all costs in bid. Do all work to meet their requirements. Manufacturer shall provide complete start–up of system and final testing. System shall be Simplex or approved equal.

10. Provide protective clear plastic covers for fire alarm pull stations in accordance with New York City Codes.

R. ELECTRIC SERVICE

1. Electric service shall be taken from the Commonwealth Edison pad mount transformer at property line at Richmond Terrace; service shall be 277/480 volt.

2. This Contractor shall provide secondary cables from a manhole adjacent to ConEd's transformer , through a C.T. cabinet and into a main distribution panel.

3. Coordinate all service work with ConEd and meet all of their requirements.

Symbol List :

	Telephone and Data Outlet Combo. Provide outlet box and empty 3/4" conduit up to above ceiling.
ANN	Annunciator Panel
V	Combination Audio/Visual Alarm
V	Visual Alarm
HD	Heat Detector
SD	Smoke Detector
F	Pull Station
	Twin Remote Emergency Heads
	Battery Pack (no heads)
	Battery Pack
	Exit Sign Ceiling Mounted, arrows as indicated
	Exit Sign Ceiling Mounted with emergency heads
	Exit Sign Wall Mounted, arrows as indicated
	Exit Sign Wall Mounted with emergency heads
	Light Fixture 1'x4' – Type 'A'
	Light Fixture 1'x4' – Type 'A1'
	Light Fixture 1'x8' – Type 'A2'
	Light Fixture 2'x2' – Type 'C'
	Light Fixture 2'x2' – Type 'C1'
	Light Fixture Bare Lamp
	Light Fixture – Recessed
	Light Fixture – Wall Mounted Type as noted
C	Contactor
F	Disconnect Switch Fused
	Disconnect Switch
	Push Button
	Motor by others
*	Receptacle Duplex, asterik indicates mount above work counter.
	Receptacle, Double Duplex (Quad)
S	Lighting Switch
S_{TO}	Light Switch with integral timer, 'o' indicates fixtures controlled
S_M	Manual Starter with thermal overload and HOA switch
T	Timer
E.C.	Electrical Contractor
G.C.	General Contractor
M.C.	Mechanical Contracor

General Notes :

1. All home runs shall be 2 #12 and ground connected to a 20/1 breaker unless noted otherwise.
2. All light fixtures shall be type 'A' unless noted otherwise.
3. All emergency units shall be type 'X2' unless noted otherwise.
4. All home runs greater than 100 feet for 120 volt circuits and 250 feet for 277 volt circuits shall have #10 AWG wire run from panel to first outlet
5. All fixtures in stairwells shall be type 'B'.
6. All exit lights and emergency battery units shall be connected to the same circuit which feeds the normal lighting in the respective area, connected ahead of any switching.
7. All receptacles in warehouse shall be mounted on top of storage units.

Issued for Final Review
March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
ELECTRICAL SPECIFICATIONS, SYMBOL LIST AND GENERAL NOTES

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

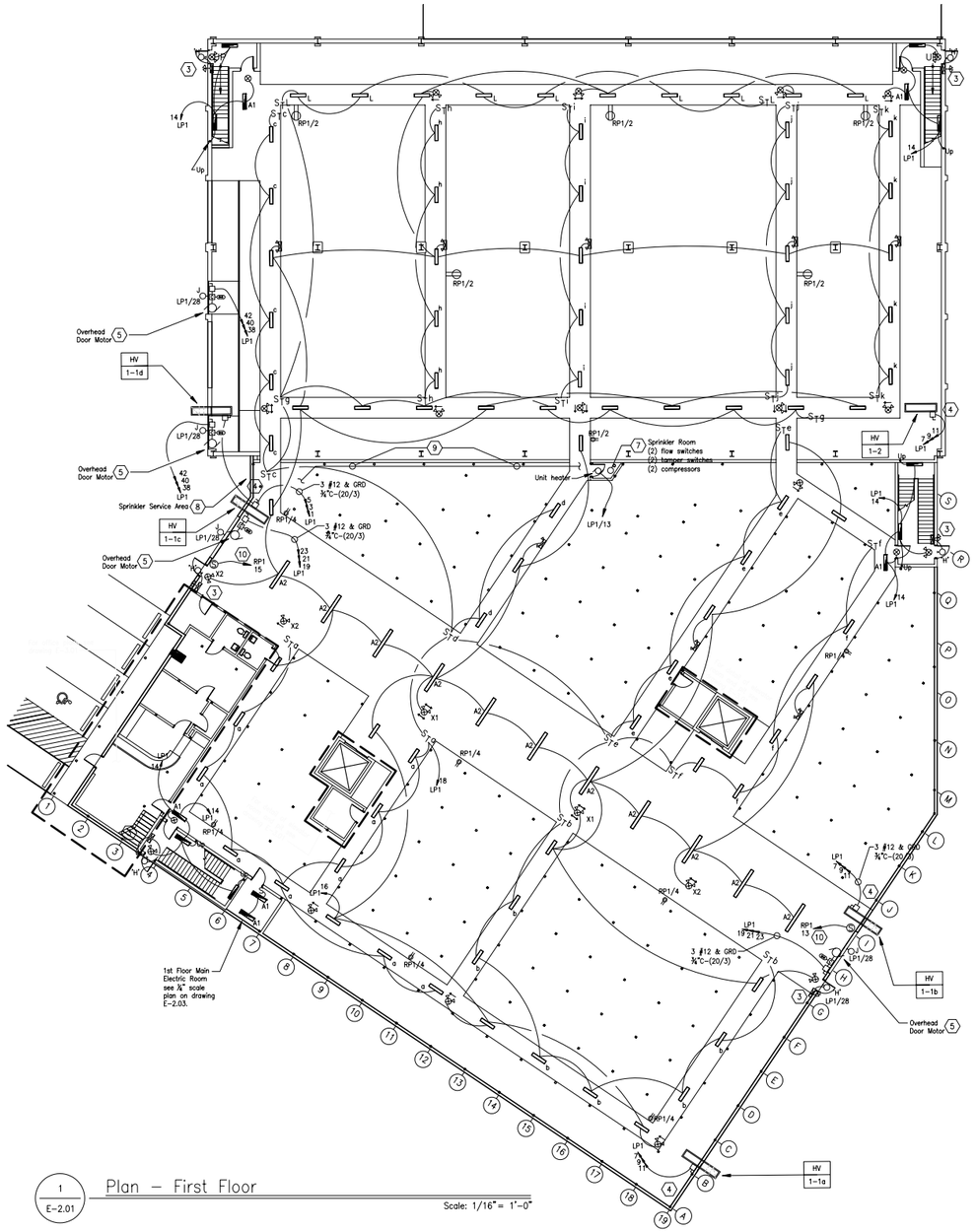
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By:	Approved By:
RDA	JAA

Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: NONE
Drawing Number:

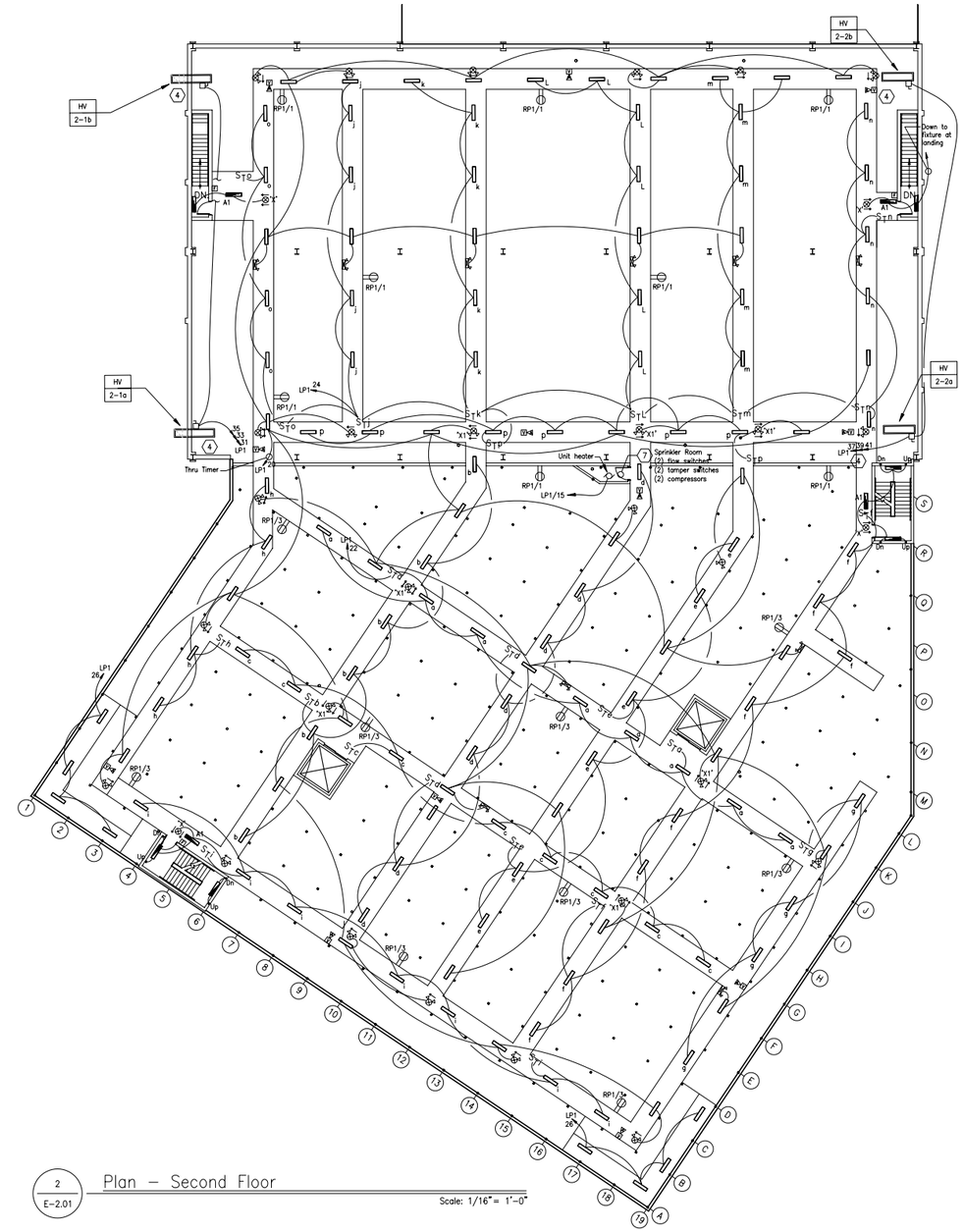
E-1.01

4/10/2008 9:36:09 AM, DWF6 ePlot.pc3



1 / E-2.01 Plan – First Floor

Scale: 1/16" = 1'-0"



2 / E-2.01 Plan – Second Floor

Scale: 1/16" = 1'-0"

Sheet Notes :

1. For Specifications, Symbol List and General Notes see drawing E-1.01. For fixtures, see Drawing E-2.02.
2. All combination exit and emergency units shall be type 'X2' unless noted otherwise.
3. Provide type 'X3' emergency battery unit inside and connect to normal exterior lighting circuit for battery input and connect double remote heads to battery output.
4. Provide 3 #12 & GRD-¾" conduit from a 20 /3 breaker in panel LP1 to each of (5) HV units on 1st floor. Provide same wiring to each of (4) units on 2nd floor from panel LP2. All HV units will be provided with integeral disconnect switch and starter.
5. Overhead door motor controller furnished by door contractor installed and wired by Electrical Contractor. Electrical Contractor shall provide disconnect switch and wire through controller to motor; also install and wire raise/lower buttons to control motor.
6. Provide a four pole, 600 volt, 30 amp contactor above panel 'LP1' and wire all type 'H' & 'J' light fixtures and signs through contactor. Provide a photo cell on and timer off scheme to control contactor.
7. In First & Second floor sprinkler closets, wire in (2) flow switches and (2) tamper switches into fire alarm system Also, provide a 120V circuit from panel RP1 into each closet and connect (2) sprinkler air compressor motors. Provide a switch for each motor.
8. At sprinkler service area, wire (1) flow switch and (4) tamper switches into the fire alarm system. Also, provide a 120 volt circuit and connect (1) air compressor motor. Provide switch for motor.
9. Provide heat trace at 10 watts per linear foot on all wet sprinkler piping from sprinkler service area to sprinkler closet. Include all valves and fittings. Refer to Fire Protection Drawings.
10. Provide a separate 120 volt circuit from panel RP1 to power lift gates inside of overhead doors (2 #10& Grd). Also, provide wiring for photocell control of (2) overhead doors.

Issued for Final Review
March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
ELECTRICAL
FIRST AND SECOND
FLOOR PLANS
-

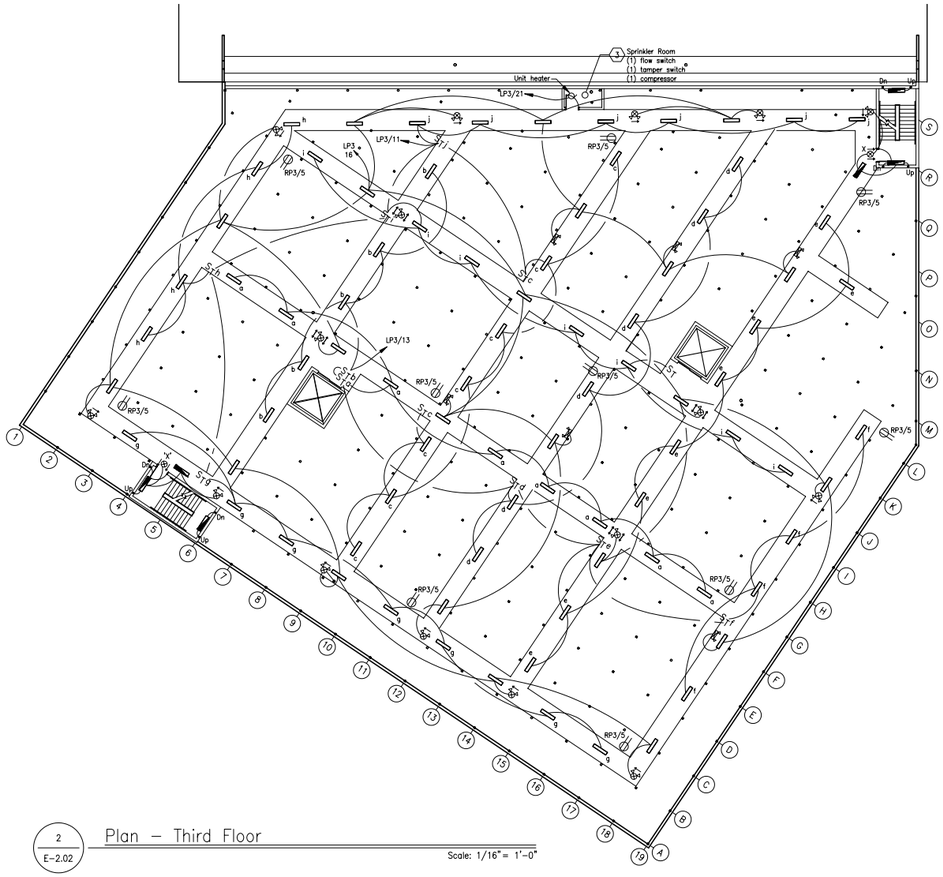
Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By:	Approved By:
RDA	JAA

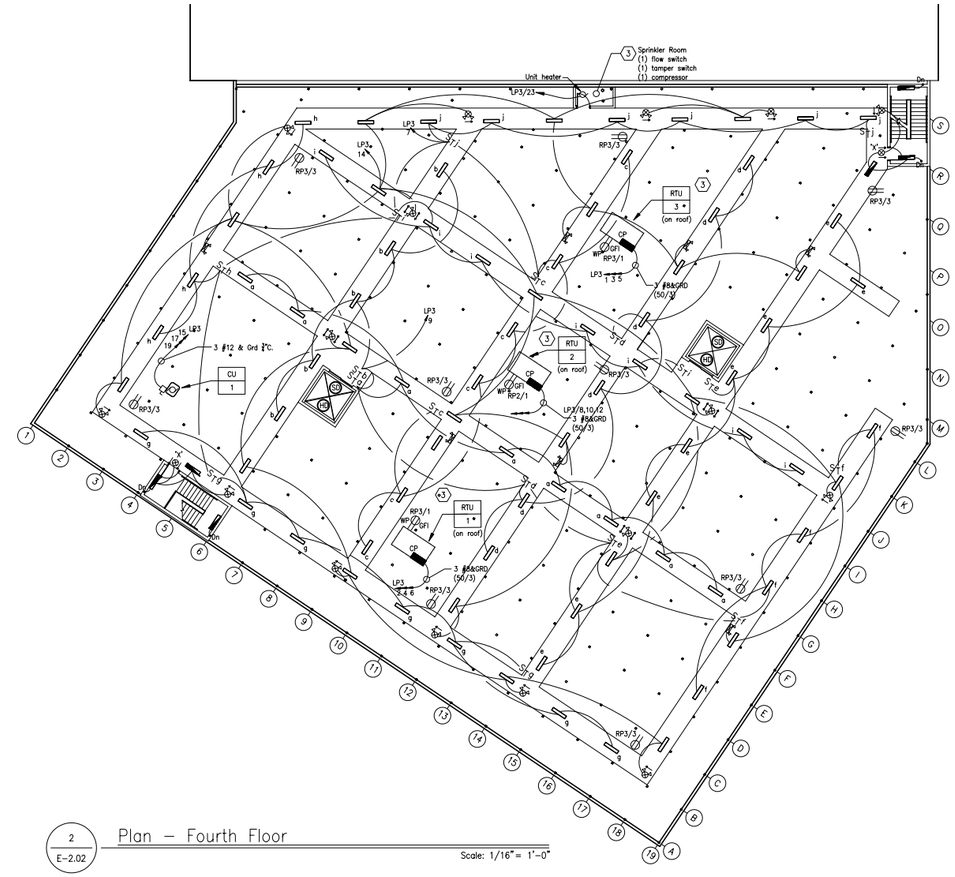
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number: E-2.01

4/10/2008 9:36:45 AM, DWF6 ePlot.pc3



2 E-2.02 Plan – Third Floor

Scale: 1/16" = 1'-0"

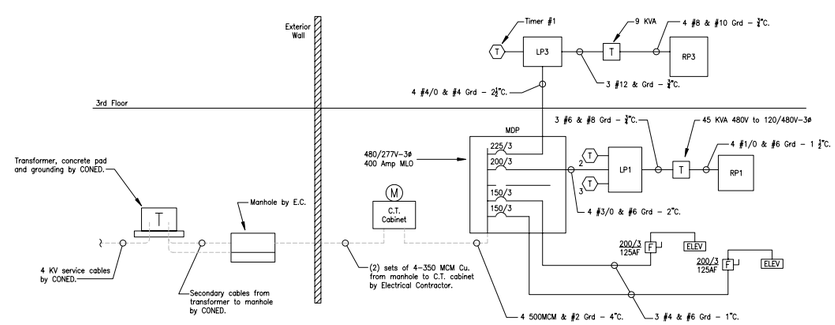


2 E-2.02 Plan – Fourth Floor

Scale: 1/16" = 1'-0"

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER
A	1'x4' – 2 lamp fluor. Industrial chain mount	Lithonia #L2-32-277
A1	Same as type 'A' except with auxiliary emergency ballast	Lithonia #L2-32-277/EM
A2	Similar to type 'A' except 8'-0" long tandem unit with (4) lamps	Lithonia #TL4-32-277
B	Wall mount fluorescent with (2) F32T8 lamps and emergency ballast	Lithonia #WS2-32-A12-277/EM
C	2'x2' – 2 lamp fluor. Recessed fixture – 120 Volt input	Lithonia #2PM0GB-2U31T8-9LD-120
C1	Same as type "C" except with auxiliary emergency ballast	Lithonia #2PM0GB-2U31T8-9LD-277-EL
D	Exterior metal halide-70 watt recess with tempered lens	Lithonia #LP8H-70M8LFB73/277/HEB
F	Recessed fluorescent down light with (2) 26 watt lamps	Lithonia #AF2-26TRT-6BC-277
G	Wall mounted incandescent with glass globe & cast guard w/100 watt lamp	Stonco or equal
H	Exterior wall mounted fluorescent w/ polycarbonate lens & emergency ballast	Lithonia #VGR2C/42TRT-277/DBLB 1-42W LAMP
J	Exterior wall mounted metal halide 250 watt lamp	Lithonia #TWR2-250M-TB
X	Exit Sign with self contained battery, LED type with double face, red letters and arrows as indicated	Lithonia Quantum Series #LQMSW3R 120/277/ELN
X1	Self contained combination exit sign and emergency unit similar to type 'X' except with (2) 6 volt, 6 watt halogen lamps	Lithonia Quantum Series #LHQMSW3R 120/277H
X2	Emergency battery unit with (2) 6 volt, 20 watt halogen lamps	Lithonia Quantum Series #ELM6-H2006-277
X3	Emergency battery unit without integral heads to operate (2) remote heads only	Lithonia Quantum Series #ELM618R0 w/dual remote weatherproof heads



1 E-2.03 Single Line Diagram

Scale: None

Note: Provide shunt trip device on (2) breakers feeding the elevators.

Sheet Notes :

1. For Specifications, Symbol List and General Notes see drawing E-1.01.
2. Roof top units are furnished with integral disconnect switch.

Issued for Final Review

March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
ELECTRICAL
THIRD AND FOURTH PLANS,
FIXTURE SCHEDULE &
SINGLE LINE DIAGRAM

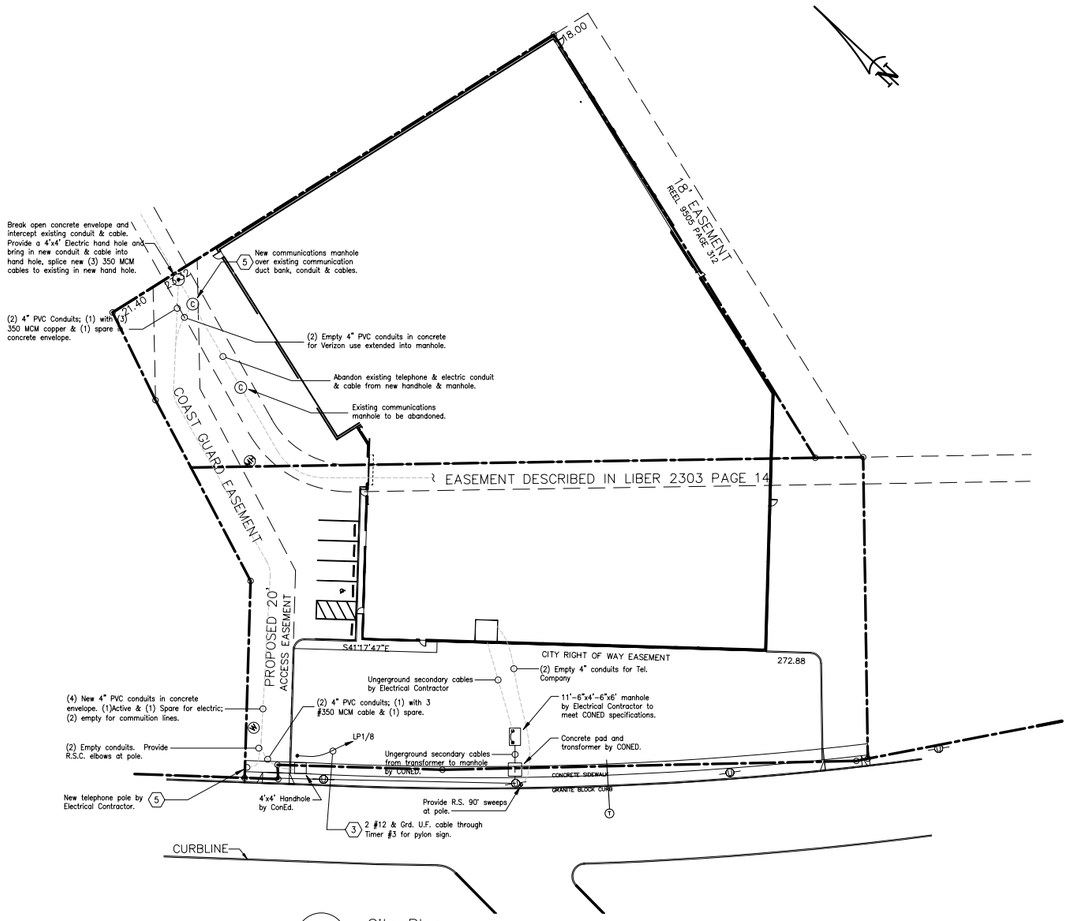
Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: JAA
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

E-2.02

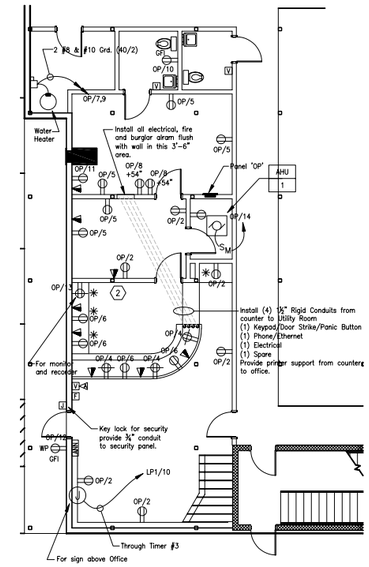
4/10/2008 9:37:19 AM, DWF6 ePlot.pc3



1 / E-2.03 Site Plan

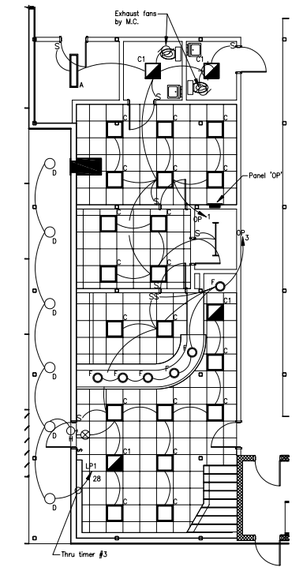
Notes: All Electric work for new Coast Guard service must be coordinated with the Coast Guard & Utility Company.

Scale: 1/32" = 1'-0"



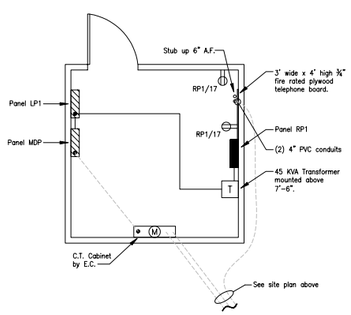
2 / E-2.03 Partial Plan – Office Area Power

Scale: 1/8" = 1'-0"



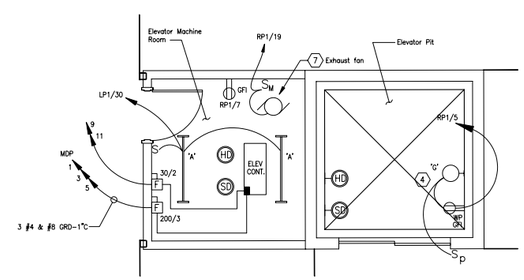
3 / E-2.03 Partial Plan – Office Area Lighting

Scale: 1/8" = 1'-0"



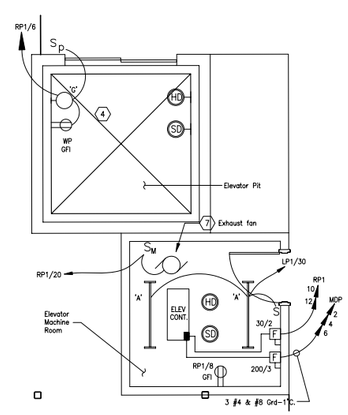
4 / E-2.03 Partial Plan – Main Electrical Room

Scale: 1/4" = 1'-0"



4 / E-2.03 Partial Plan – Elevator #2

Scale: 1/4" = 1'-0"



5 / E-2.03 Partial Plan – Elevator #1

Scale: 1/4" = 1'-0"

Sheet Notes :

1. See Drawing E-1.01 for Specifications, General Notes and Symbol List.
2. Provide toggle switches for overhead doors, security screens and gates and wire out to all equipment.
3. Provide a separate circuit from panel 'LP1'/8 to a pylon sign located at the southwest corner of Site.
4. Do not connect light on load side of receptacle.
5. New telephone pole and communications manhole shall meet Verizon specifications.
6. Provide an additional 'Hot' circuit wire to all 'C1' fixtures.
7. Coordinate wiring of exhaust fan through thermostat with M.C. Thermostat by M.C.

Issued for Final Review

March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES, ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
ELECTRICAL
SITE PLAN AND
PARTIAL PLANS
-

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: JAA
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

E-2.03

4/10/2008 9:37:50 AM, DWF6 ePlot.pc3

PANEL LP3
LOCATION 3rd Floor
FED FROM MDP

277/480 VOLTS, 3 PHASE, 4 WIRE
MOUNTING: ■ SURFACE ☐ FLUSH
ALL BREAKERS SHALL BE 20A U.O.N.

MAINS
BUS 225 AMPS 14,000 AIC
LUGS ONLY ☐ ■MCB 225 AMPS

CKT NO.	EQUIPMENT SERVED	BREAKER AMPS	BREAKER POLES	LOAD KVA CØ	LOAD KVA BØ	LOAD KVA AØ	PHASE	LOAD KVA AØ	LOAD KVA BØ	LOAD KVA CØ	BREAKER AMPS	BREAKER POLES	EQUIPMENT SERVED	CKT NO.
1	RTU-3	50	3			12	A	12			50	3	RTU-1	2
3					12		B		12					4
5				12			C			12				6
7	Switched Lighting 4th Floor	–	–			2.1	A	12			50	3	RTU-2	8
9	Switched Lighting 4th Floor	–	–		2.2		B		12					10
11	Switched Lighting 3rd Floor	–	–	2.1			C			12				12
13	Switched Lighting 3rd Floor	–	–			2.2	A	1.6			–	–	12 Hour Lighting 4th Floor ✱✱	14
15	A/C Unit	20	3		2.1		B		1.6		–	–	12 Hour Lighting 3rd Floor ✱✱	16
17				2.1			C			3.0	20	3	Transformer	18
19						2.1	A	3.0						20
21	Unit Heater – 3rd Floor	–	–		3.0		B		3.0					22
23	Unit Heater – 4th Floor	–	–	3.0			C			–	–	–	Space	24
25	Spare	–	–			–	A	–			–	–	Space	26
27	Spare	–	–		–		B		–		–	–	Space	28
29	Spare	–	–	–			C			–	–	–	Space	30
	LINE TOTAL			19.2	19.3	18.4		28.6	28.6	27.0				

PANEL SHALL BE EQUIPPED WITH BUSSING AND STRAPS FOR ALL SPACES SHOWN.
☐ 200% NEUTRAL BUS
☐ ISOLATED GROUND BUS
■ GROUND BUS

TOTAL CONN. KVA 141
TOTAL CONN. AMPS 169.2
SPARE CAP. % 15%

REMARKS
✱✱ Through Timer #1.

PANEL RP3
LOCATION 3rd Floor Electrical Room
FED FROM LP3 Thru Transformer

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING: ■ SURFACE ☐ FLUSH
ALL BREAKERS SHALL BE 20A U.O.N.

MAINS
BUS 100 AMPS 10,000 AIC
LUGS ONLY ☐ ■MCB 40 AMPS

CKT NO.	EQUIPMENT SERVED	BREAKER AMPS	BREAKER POLES	LOAD KVA CØ	LOAD KVA BØ	LOAD KVA AØ	PHASE	LOAD KVA AØ	LOAD KVA BØ	LOAD KVA CØ	BREAKER AMPS	BREAKER POLES	EQUIPMENT SERVED	CKT NO.
1	Rooftop Receptacles	–	–			1.6	A	.3			–	–	Sprinkler Compressor – 3rd Floor	2
3	Receptacles 4th Floor	–	–		1.6		B		.3		–	–	Sprinkler Compressor – 4th Floor	4
5	Receptacles 3rd Floor	–	–	1.6			C			–	–	–	Spare	6
7	Space	–	–			–	A	–			–	–	Spare	8
9	Space	–	–		–		B		–		–	–	Space	10
11	Space	–	–	–			C			–	–	–	Space	12
	LINE TOTAL			1.6	1.6	1.6		.3	.3	–				

PANEL SHALL BE EQUIPPED WITH BUSSING AND STRAPS FOR ALL SPACES SHOWN.
☐ 200% NEUTRAL BUS
☐ ISOLATED GROUND BUS
■ GROUND BUS

TOTAL CONN. KVA 5.4
TOTAL CONN. AMPS 15
SPARE CAP. % 62%

REMARKS

PANEL OP
LOCATION Office Area
FED FROM Panel RP1

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING: ☐ SURFACE ■ FLUSH
ALL BREAKERS SHALL BE 20A U.O.N.

MAINS
BUS 100 AMPS 10,000 AIC
LUGS ONLY ☐ ■MCB 60 AMPS

CKT NO.	EQUIPMENT SERVED	BREAKER AMPS	BREAKER POLES	LOAD KVA CØ	LOAD KVA BØ	LOAD KVA AØ	PHASE	LOAD KVA AØ	LOAD KVA BØ	LOAD KVA CØ	BREAKER AMPS	BREAKER POLES	EQUIPMENT SERVED	CKT NO.
1	Office Lighting	–	–			1.2	A	1.2			–	–	Office Receptacles	2
3	Office Lighting	–	–		1.1		B		1.2		–	–	Counter Receptacles	4
5	Office Receptacles	–	–	1.0			C			0.8	–	–	Counter Receptacles	6
7	Water Heater	20	2			2.8	A	1.5			–	–	Security & Alarm Receptacles	8
9					2.8		B		1.0		–	–	Toilet Room Receptacle	10
11	Kiosk	–	–	1.5			C			1.0	–	–	Exterior Receptacle	12
13	Monitor and Recorder Receptacles	–	–			1.5	A	1.2			–	–	Office Air Handling Unit	14
15	Spare	–	–		–		B		–		–	–	Spare	16
17	Spare	–	–	–			C			–	–	–	Spare	18
19	Space	–	–			–	A	–			–	–	Space	20
21	Space	–	–		–		B		–		–	–	Space	22
23	Space	–	–	–			C			–	–	–	Space	24
25	Space	–	–			–	A	–			–	–	Space	26
27	Space	–	–		–		B		–		–	–	Space	28
29	Space	–	–				C			–	–	–	Space	30
	LINE TOTAL			2.5	3.9	5.5		3.9	2.2	1.8				

PANEL SHALL BE EQUIPPED WITH BUSSING AND STRAPS FOR ALL SPACES SHOWN.
☐ 200% NEUTRAL BUS
☐ ISOLATED GROUND BUS
■ GROUND BUS

TOTAL CONN. KVA 19.8
TOTAL CONN. AMPS 54.9
SPARE CAP. % 9%
without diversity

REMARKS

PANEL LP1
LOCATION 1st Floor – Electric Room
FED FROM MDP

277/480 VOLTS, 3 PHASE, 4 WIRE
MOUNTING: ■ SURFACE ☐ FLUSH
ALL BREAKERS SHALL BE 20A U.O.N.

MAINS
BUS 100 AMPS 14,000 AIC
LUGS ONLY ■ ☐MCB – AMPS

CKT NO.	EQUIPMENT SERVED	BREAKER AMPS	BREAKER POLES	LOAD KVA CØ	LOAD KVA BØ	LOAD KVA AØ	PHASE	LOAD KVA AØ	LOAD KVA BØ	LOAD KVA CØ	BREAKER AMPS	BREAKER POLES	EQUIPMENT SERVED	CKT NO.
1	HV 1-1c & HV 1-1d	20	3			1.2	A	–			–	–	Spare	2
3					1.2		B		–		–	–	Spare	4
5				1.2			C			–	–	–	Spare	6
7	HV 1-2, HV 1-1a & HV 1-1b	20	3			1.8	A	3.6			–	–	Pylon Sign ***	8
9					1.8		B		3.6		–	–	Sign over Office Area ***	10
11				1.8			C			–	–	–	Spare	12
13	Unit Heater – 1st Floor	–	–			3.0	A	2.5			–	–	Stair Lights *	14
15	Unit Heater – 2nd Floor	–	–		3.0		B		3.4		–	–	12 Hour Lighting 1st Floor **	16
17	Spare	–	–	–			C			3.8	–	–	Switched Lighting 1st Floor	18
19	Overhead Door Motors (2)	20	3			1.2	A	2.5			–	–	12 Hour Lighting 2nd Floor **	20
21					1.2		B		3.5		–	–	Switched Lighting 2nd Floor	22
23				1.2			C			2.7	–	–	Switched Lighting 2nd Floor *	24
25	Space	–	–			–	A	0.6			–	–	Showcase Lighting – 24 hour	26
27	Space	–	–		–		B		2.4		–	–	Exterior Lighting ***	28
29	Space	–	–	–			C			.3	–	–	Elevator Rooms (2) Lighting	30
31	HV 2-1a & HV 2-1b	20	3			1.2	A	15			70	3	Transformer	32
33					1.2		B		15					34
35				1.2			C			15				36
37	HV 2-2a & HV 2-2b	20	3			1.2	A	1.2			20	3	Overhead Door Motors (2)	38
39					1.2		B		1.2					40
41				1.2			C			1.2				42
	LINE TOTAL			6.6	9.6	9.6		25.4	29.1	23.0				

PANEL SHALL BE EQUIPPED WITH BUSSING AND STRAPS FOR ALL SPACES SHOWN.
☐ 200% NEUTRAL BUS
☐ ISOLATED GROUND BUS
■ GROUND BUS

TOTAL CONN. KVA 103.3
TOTAL CONN. AMPS 124
SPARE CAP. % 38%

REMARKS
✱ Provide lock on device
✱✱ Through Timer #2.
✱✱✱ Through Timer #3.

PANEL RP1
LOCATION 1st Floor Electrical Room
FED FROM –

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING: ■ SURFACE ☐ FLUSH
ALL BREAKERS SHALL BE 20A U.O.N.

MAINS
BUS 225 AMPS 10,000 AIC
LUGS ONLY ☐ ■MCB 150 AMPS

CKT NO.	EQUIPMENT SERVED	BREAKER AMPS	BREAKER POLES	LOAD KVA CØ	LOAD KVA BØ	LOAD KVA AØ	PHASE	LOAD KVA AØ	LOAD KVA BØ	LOAD KVA CØ	BREAKER AMPS	BREAKER POLES	EQUIPMENT SERVED	CKT NO.
1	Receptacles 2nd Floor	–	–			1.6	A	1.6			–	–	Receptacles 1st Floor	2
3	Receptacles 2nd Floor	–	–		1.6		B		1.6		–	–	Receptacles 1st Floor	4
5	Elevator #2 Pit	–	–	.5			C			.5	–	–	Elevator #1 Pit	6
7	Elevator #2 Room Receptacle	–	–			.5	A	.5			–	–	Elevator #1 Receptacle	8
9	Elevator # 2 Lights & Control	20	2		1.5		B		1.5		20	2	Elevator #1 Lights & Controls	10
11				1.5			C			1.5				12
13	Lift Gate East	–	–			1.6	A	6.6			70	3	Panel 'OP'	14
15	Lift Gate West	–	–		1.6		B		6.6					16
17	Telephone Receptacles	–	–	1.5			C			6.6				18
19	Exhaust Fan Elevator Room #2	–	–			1.2	A	.6			–	–	Sprinkler Compressors (2)	20
21	Exhaust Fan Elevator Room #1	–	–		1.2		B		.6		–	–	Sprinkler Compressors (2)	22
23	Heat Trace Cable	–	–	1.0			C			.3	–	–	Sprinkler Compressor (1)	24
25	–	–	–			–	A	–			–	–	–	26
27	–	–	–		–		B		–		–	–	–	28
29	–	–	–	–			C			–	–	–	–	30
	LINE TOTAL			4.5	5.9	4.9		9.3	10.3	8.9				

PANEL SHALL BE EQUIPPED WITH BUSSING AND STRAPS FOR ALL SPACES SHOWN.
☐ 200% NEUTRAL BUS
☐ ISOLATED GROUND BUS
■ GROUND BUS

TOTAL CONN. KVA 44.3
TOTAL CONN. AMPS 123
SPARE CAP. % 2%
without diversity

REMARKS

Issued for Final Review
March 24th, 2008

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus
CT - 8232
DE - 6185
FL - AR13293
MA - 8268
MD - 8170
MO - 8177
NJ - C-5880
NY - 12406
PA - 4538

Consultants:
integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
ELECTRICAL

PANEL SCHEDULES

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: JAA
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

E-3.01

4/10/2008 9:38:48 AM, DWF6 ePlot.pc3

Fire Protection Legend:

—— SP ——	Wet Sprinkler Piping
—— D-SP ——	Dry Sprinkler Piping
—— D-STDP ——	Dry Standpipe Piping
	Pendent Sprinkler Head
	Upright Sprinkler Head
	Sidewall Sprinkler Head
	O.S.&Y. Valve
(E)	Existing
FDC	Fire Department Connection
FDV	Fire Department Valve
O.S.&Y.	Outside Stem And Yoke
(N)	New
SP	Sprinkler
	Connect To Existing
	Termination Point Of Demolition

General Notes:

1. The entire installation shall meet the requirements of the following:
   a. NFPA 13
   b. Owner's insurance carrier
   c. FM approved & UL listed
   d. Local and state regulations
   e. International building code
2. Coordinate the entire installation with piping, ductwork, diffusers, and lighting fixtures.
3. Prepare all necessary shop drawings, make all necessary submissions, and obtain all necessary permits and approvals prior to starting fabrication and construction.
4. Sprinkler heads shall be as scheduled.
5. Refer to architectural drawings for exact room layout, dimensions, ceiling heights, building construction, and all other architectural and structural details impacting design.
6. Isolate drain and refill existing piping system as required to accommodate installation of a new system.
7. Provide drain valve at all low points in system.
8. Where sprinkler piping penetrates fire rated separations, contractor shall provide fire stopping material at each penetration to maintain fire rating of separation.

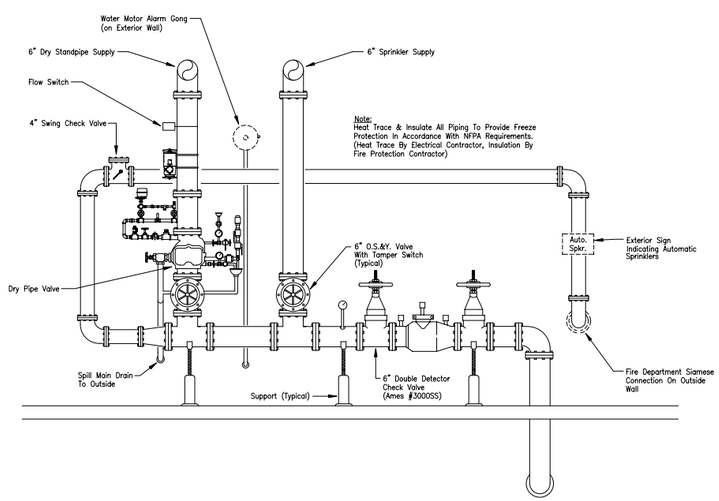
Fire Protection Schedule

Hazard Classification	Hydraulic Design		Sprinkler Design						Remarks
	Density (GPM/Sq.Ft.)	Max. Coverage Per Head	Style	Orifice	Temp. Rating	Finish	Pipe Size		
Light	0.10/1500	225	Concealed	1/2"	165°	White	1/2"	–	
Ordinary	0.15/1500	130	Upright	1/2"	165°	Bronze	1/2"	–	

Notes:
1. All sprinkler heads shall be FM approved and UL listed for hazard classification given.

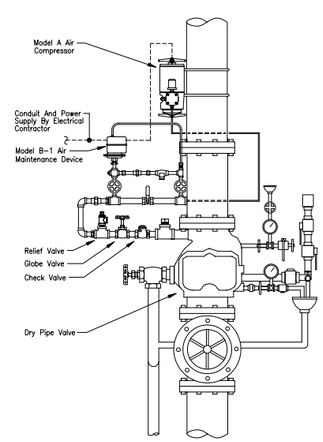
Specifications:

1. Scope Of Work
   A. The work under contract includes all labor, materials, and appliances necessary for the furnishing, installation and testing, complete and ready for safe operation of the systems. Work shall be installed in a neat, workmanlike manner. Include all costs for permits, licences and certificate filing and inspections required by AuthoritiesHaving Jurisdiction.
   B. All work shall be in accordance with local codes, NFPA 13, Owner's Insurance Carrier and the local Fire Marshall.
2. System Performance Requirements
   A. Design and obtain approval from Authority Having Jurisdiction for fire protection systems specified.
   B. Conduct fire hydrant flow tests as required to obtain hydraulic data needed to prepare design for hydraulically calculated systems.
   C. Hydraulically design sprinkler system according to capacities and classifications as set forth by Owner's Insurance Carrier and/or Authority Having Jurisdiction (as noted on schedule).
      (1) Include 10% margin of safety for available water flow and pressure.
   D. Sprinkler system components shall be rated for the maximum system working pressure to which they are exposed but shall not be rated at less than 175 psig.
3. Submittals
   A. Product data for fire protection system components. Include the following:
      (1) Specialty valves, accessories, and devices.
      (2) Sprinklers. Include sprinkler flow characteristics, mounting, finish, and other data.
   B. Sprinkler system drawings identified as "working plans", prepared according to NFPA 13. Submit required number of sets to Owner's Insurance Co., Authorities Having Jurisdiction, and local Fire Marshal for review, comment and stamped approval prior to submitting to Engineer. Include system hydraulic calculations where applicable.
   C. Maintenance data for each type of fire protection specialty specified, for inclusion in "Operating and Maintenance Manual."
   D. 2 copies of NFPA 13A "Recommended Practice for the Inspection, Testing and Maintenance of Sprinkler Systems." deliver to Owner's maintenance personnel.
   E. As Built Drawings – upon completion of installation, submit verified as built drawings detailing exact system installation for system acceptance.
4. Quality Assurance
   A. Installer qualifications: an experienced installer who has designed & installed fire suppression similar to that indicated for this project and obtained design approval and inspection approval from Authorities Having Jurisdiction.
   B. Manufacturer qualifications: firms whose equipment, specialties, and accessories are listed by product name and manufacturer in UL fire protection equipment directory and FM approval guide and that conform to other requirements indicated.
   C. Comply with requirements of Owner's Insurance Carrier and Authority Having Jurisdiction for submittals, approvals, materials, hose threads, installation, inspection, and testing.
5. Sprinklers
   A. As scheduled on drawings.
   B. Sprinkler cabinets: finished steel cabinet and hinged cover, with space for minimum of 6 spare sprinklers plus sprinkler wrench, suitable for wall mounting. Include number of sprinklers required by NFPA 13 and 1 wrench for sprinklers. Include seperate cabinet with sprinklers and wrench for each style sprinkler on project.
   C. Sprinkler guards: wire-cage type, including fastening device for attaching to sprinkler.
6. Pipe And Fittings
   A. Sizes 2" and Smaller: ASTM 53, Schedule 40 steel pipe with threaded ends, cast iron or malleable iron threaded fittings, and threaded joints.
   B. Sizes 2 1/2" and larger: ASTM A153, Schedule 10 steel pipe with rolled groove ends, UL-listed and FM-approved grooved-end steel pipe fittings, and grooved coupling joints.
   C. Piping Below Ground: ductile-iron pipe, AWWA C151, push-on joint type; with cement mortar lining and seal coat according to AWWA C104. Bell and plain-spigot end include rubber gasket according to AWWA C111.
      (1) Fittings to be AWWA C110 ductile iron push-on-joint type, or AWWA C153, ductile iron, compact push-on-joint type. Include cement-mortar lining and seal coat according to AWWA C104, and rubber gaskets according to AWWA C111.
      (2) Provide ductile iron flange fittings, AWWA C115, above ground as required, complete with rubber gasket and high strength steel bolts.
   D. Piping Between Fire Department Connection and Check Valve: use galvanized, standard weight steel pipe, Schedule 40, with rolled grooved ends; steel, grooved end fittings; steel, keyed couplings; and grooved joints.
   E. Dry-Pipe Sprinkler Pipe & Fittings: galvanized, standard weight steel pipe with threaded ends; cast or malleable-iron threaded fittings; and threaded joints.
7. Valves
   A. General: UL – listed and FM – approved, with 175 psig non-shock minimum working pressure rating.
      (1) Option: Valves for use with grooved piping may be grooved type.
   B. Gate Valves 2" and Smaller: UL 262, cast-bronze, threaded ends, solid wedge, O.S.&Y., rising stem.
   C. Gate Valves 2 1/2" and Larger: UL 262, iron body, bronze mounted, taper wedge, O.S.&Y., rising stem. Include replaceable, bronze, wedge facing rings and flanged ends.
   D. Swing Check Valve: UL 312, class 175, cast-iron body and bolted cap, with bronze disc or cast-iron disc with bronze ring & flanged ends.
8. Specialty Valves & Accessories
   A. Ball Drip Valve: UL 1726, cast brass, automatic drain valve, 3/4" size, spring-loaded, ball check device with threaded ends.
   B. Dry-pipe valves: UL 260; differential type; 175-psig (1200-kpa) working pressure; with cast-iron flanged inlet and outlet, bronze seat with o-ring seals, and single hinge pin and latch design. Include UL 1446, quick-opening devices, trim sets for air supply, drain, priming level, alarm connections, ball drip valves, pressure gages, pressure gages, priming chamber attachment, and fill-line attachment.
      (1) Option: grooved-end connections for use with keyed couplings.
      (2) Air-Pressure Maintenance Devices: automatic device to maintain correct air pressure in piping. Include shut-off valves to permit servicing without shutting down sprinkler piping bypass valve for quick filling, pressure regulator or switch to maintain pressure, strainer, pressure ratings with 14– to 60-psig (95– to 410-kpa) adjustable range, and 175– psig (1200-kpa) maximum inlet pressure.
      (3) Air Compressor: fractional horsepower, 120-VAC, 60 hz, single phase.
   C. Sprinkler Inspector's Test Fittings: UL-listed, cast- or ductile-iron housing; with threaded inlet and drain outlet and sight glass.
9. Alarm Devices
   A. Tamper Switches: UL 753, for valves, electrical-supervision type, single-pole, double throw, normally closed contacts, designed to double controlled valve in other than full open position.
   B. Water Motor Operated Alarms: UL 753 mechanical operation Type 1, 10 inch diameter, cast-aluminum alarm gong, with red enamel facturing finish. Include pelton-wheel-type operator with nylon shaft bearings, and shaft length and sleeve to suit wall thickness and construction; 3/4" inlet and 1" drain.
   C. Pressure Switches: UL 753, waterflow switch with retard, electrical-supervision type, SPDT (single pole-double throw), normally closed contacts, designed to operate on rising pressure and signal water flow.
   D. Water Flow Indicators; UL 346; electrical-supervision, vane-type water flow detector, with 250 psig pressure rating; and designed for horizontal or vertical installation. Include two single-pole, double throw, circuit switches for isolated alarm and auxiliary contacts, 7A, 125V AC and 0.25A, 24V DC; complete with factory-set, field-adjustable retard element to prevent false signals and tamperproof cover that sends signal if removed.
10. Pressure Gauges:
    A. UL 393, 3 1/2" to 4 1/2" diameter dial, with dial range of 0–250 psig, cast aluminum or black phenolic case.
11. Hangers and Supports: Comply with NFPA 13.
12. Install "Inspector's Test Connection" in sprinkler piping, complete with shut-off valve, sized and located according to NFPA 13.
13. Install ball drip valves to drain piping between fire department connections And check valve. Drain to outside of building.
14. Install underground service-entrance piping according to NFPA 24 and with restrained joints.
15. Install sprinkler piping with drains for complete system drainage.
16. Connect compressor air supply to dry pipe sprinkler piping.
17. Connect air compressor to the following piping and wiring:
    (1) Pressure gauges and controls.
    (2) Electrical power system.
    (3) Fire alarm system devices,, including low pressure alarm.
18. Testing
    A. Perform field acceptance tests of each fire protection system.
       (1) Flush, test, and inspect sprinkler piping systems according to NFPA 13 chapter "System Acceptance".
       (2) Replace piping system components that do not pass test procedure and retest to demonstrate compliance. Repeat procedure until satisfactory results are obtained.
       (3) Provide a certified outside sprinkler contractor to inspect completed sprinkler system according to NFPA 25. Certification Must be supplied to local Fire Marshal's office or Authority Having Jurisdiction prior to "Certificate of Occupancy".
19. Cleaning
    A. Clean dirt and debris from sprinklers. Replace sprinklers having paint other than factory finish with new sprinklers. Cleaning and reuse of painted sprinklers is prohibited.
20. Commissioning
    A. Fill sprinkler system with water as required to put in operation.
    B. Energize circuits to electrical equipment and devices.
    C. Verify that specialty valves, trim, fittings, controls, and accessories are installed and operate correctly.
    D. Verify that specified tests of piping are complete.
    E. Verify that sprinklers are correct type, have correct finishes and temperature ratings, and have guards as required for each application.
    F. Coordinate with fire alarm tests. Operate as required.
    G. Verify that fire department connections have threads and sizes compatible with local fire department equipment.
    H. Verify that air compressor & their accessories are installed & operate correctly.
    I. Drain dry-pipe sprinkler piping.
    J. Pressurize and check dry-pipe sprinkler piping and air compressor.
    K. Start and run air compressors.
21. Demonstration
    A. Demonstrate equipment, specialties, and accessories. Review operating and maintenance information.
    B. Schedule demonstration with Owner with at least seven days advance notice.



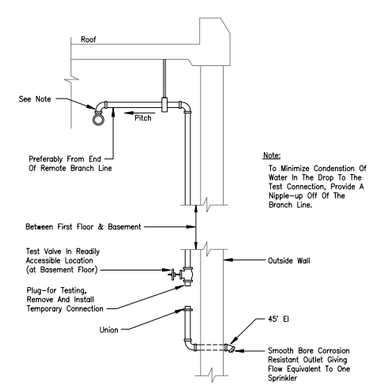
1 / FP-1.01 Detail – Fire Protection Service

No Scale



2 / FP-1.01 Detail – Dry Pipe Valve

No Scale



3 / FP-1.01 Detail – Inspector's Test

No Scale

Issued for Final Review
March 24th, 2008

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES. ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus
CT - 8232 MO - 8177
DE - 6185 NJ - C-5880
FL - AR13293 NY - 12406
MA - 8268 PA - 4538
MD - 8170

Consultants:
integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
FIRE PROTECTION
FOURTH FLOOR &
ROOF PLANS
-

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

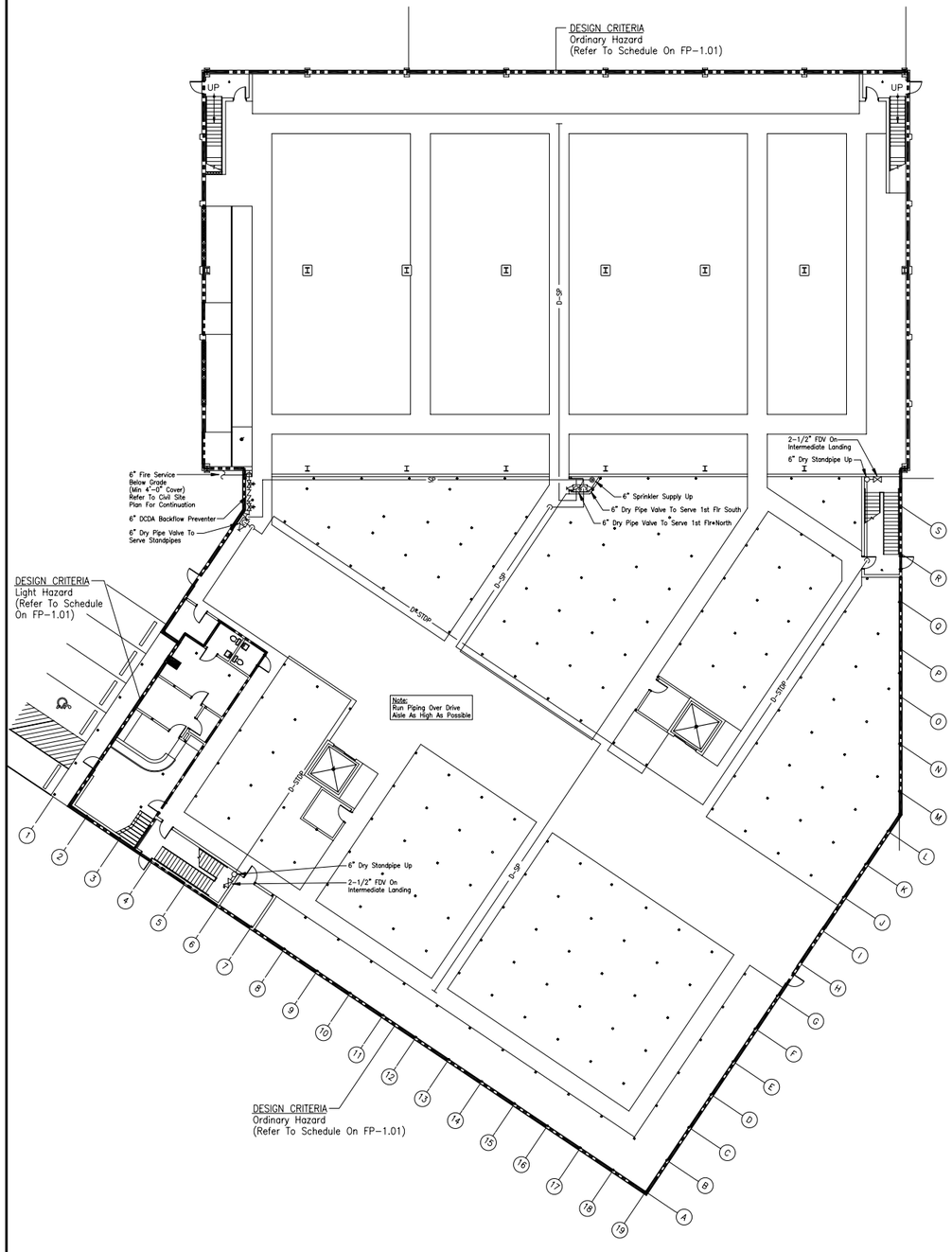
Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: JHM
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

FP-1.01

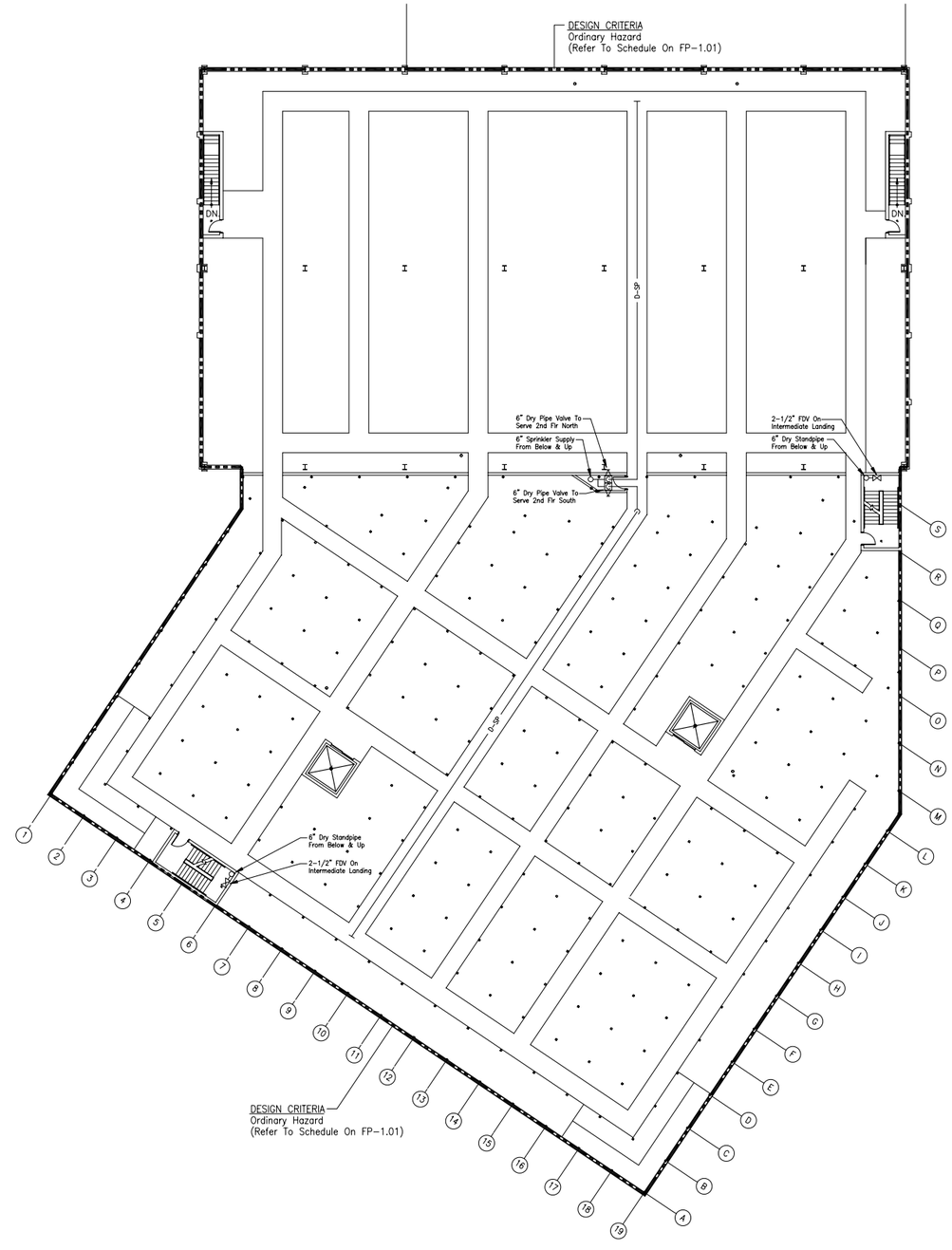
OF

4/10/2008 9:32:41 AM, DWF6 ePlot.pc3



1 / FP-2.01 Plan – First Floor – Sprinkler System

Scale: 1/16" = 1'-0"



2 / FP-2.01 Plan – Second Floor – Sprinkler System

Scale: 1/16" = 1'-0"

Sheet Notes:

1. All Pipe Sizes Shown Are For Bid Purposes Only. Contractor Shall Hydraulically Size All New Piping Prior To Construction.
2. Heat Trace & Insulate All Wet Sprinkler Piping On First Floor To Provide Freeze Protection In Accordance With NFPA Requirements. (Heat Trace By Electrical Contractor, Insulation By Fire Protection Contractor)
3. Coordinate Sprinkler Head Locations With Building Structure And Top Of Storage Units. Contractor Shall Provide Sprinkler Heads As Required To Eliminate Obstructions.

Issued for Final Review
March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES, ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
FIRE PROTECTION
FIRST FLOOR PLAN,
SYMBOLS & NOTES
-

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By:	Approved By:
RDA	JHM

Project Number:
06112 (IFS # 07031.00)

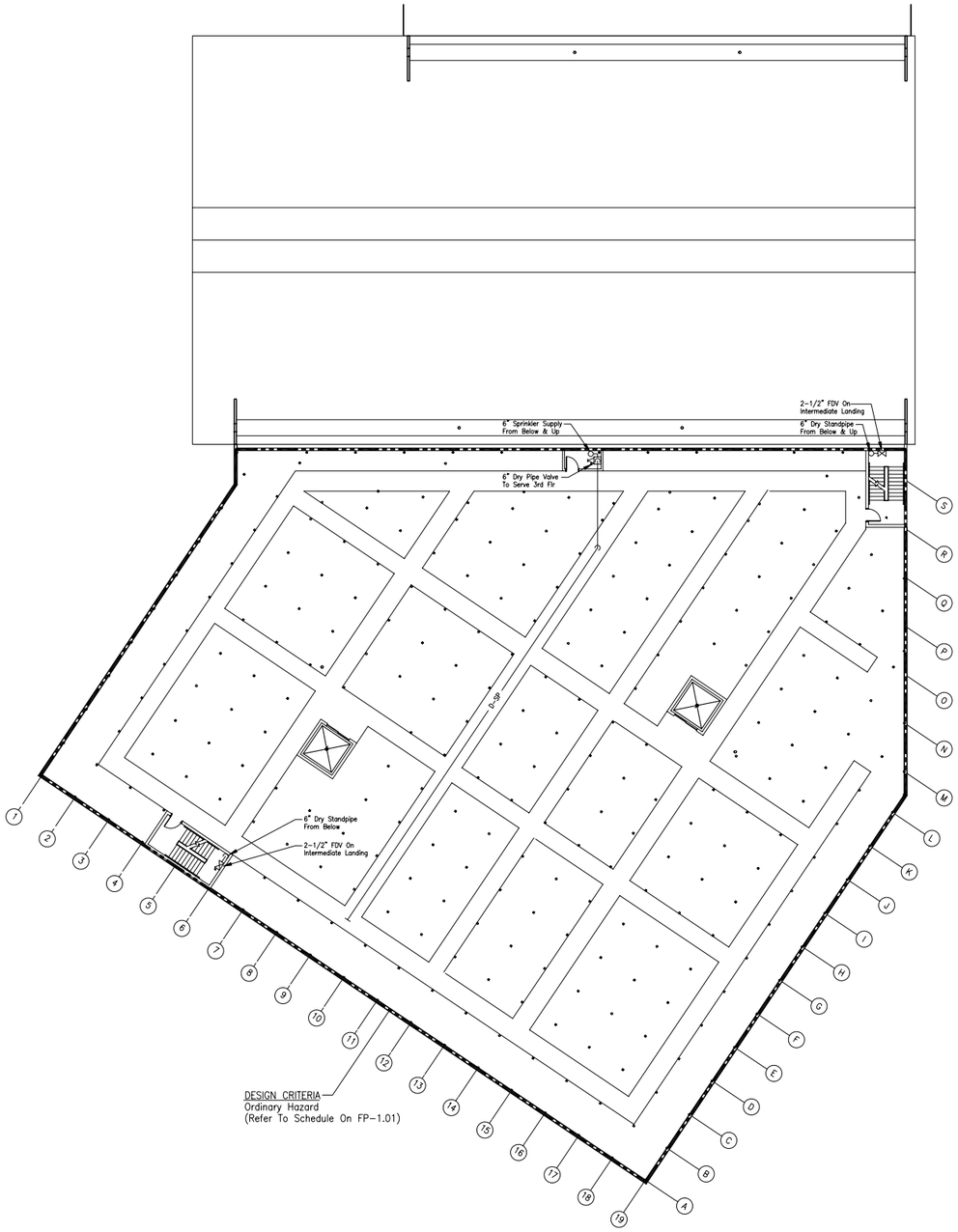
Date:
XX-XX-04

Scale:
AS NOTED

Drawing Number:
FP-2.01

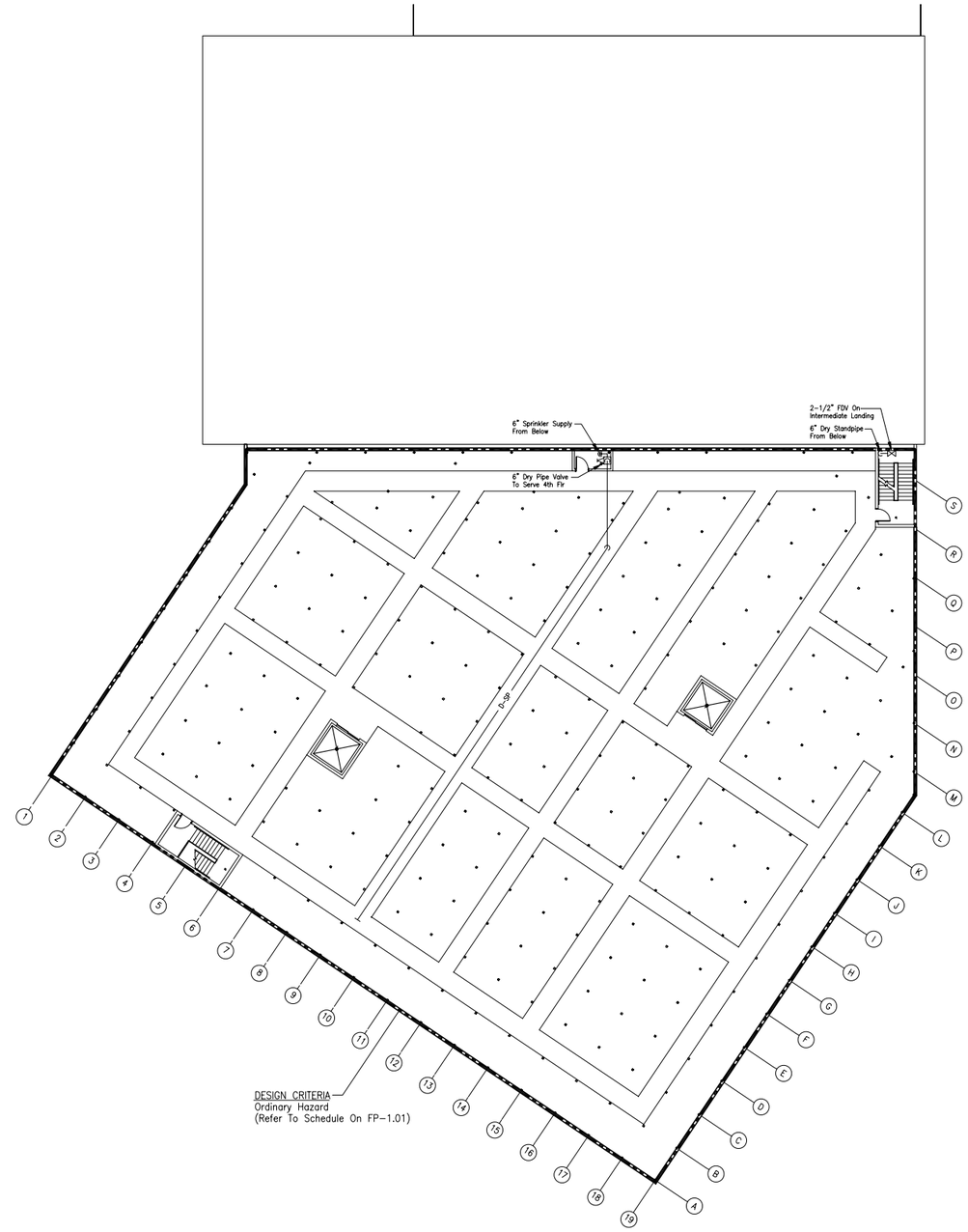
OF

4/10/2008 9:33:24 AM, DWF6 ePlot.pc3



1 FP-2.02 Plan – Third Floor – Sprinkler System

Scale: 1/16" = 1'-0"



2 FP-2.02 Plan – Fourth Floor – Sprinkler System

Scale: 1/16" = 1'-0"

Sheet Notes:

1. All Pipe Sizes Shown Are For Bid Purposes Only. Contractor Shall Hydraulically Size All New Piping Prior To Construction.
2. Coordinate Sprinkler Head Locations With Building Structure And Top Of Storage Units. Contractor Shall Provide Sprinkler Heads As Required To Eliminate Obstructions.

Issued for Final Review
March 24th, 2008

General Note:

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS SOLELY FOR THE PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES, ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. AND THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM".

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PREPARED IN CAD FORMAT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE".

Revisions:

No.	Date:	Description:
1	XX/XX/XX	XXXXXXXXXX
2		
3		
4		
5		
6		

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

integrated facilities solutions, inc.
engineering you can build...
IFS, inc.
152 wallace avenue – north park plaza
downingtown, pennsylvania 19335
tel: 610.873.6757 fax: 610.873.6742
www.ifs-engineers.com

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
FIRE PROTECTION
SECOND & THIRD
FLOOR PLANS
-

Job Name:
Devon #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA 94680

Drawn By: RDA
Approved By: JHM
Project Number: 06112 (IFS # 07031.00)
Date: XX-XX-04
Scale: AS NOTED
Drawing Number:

FP-2.02

OF

4/10/2008 9:34:40 AM, DWF6 ePlot.pc3

APPENDIX B

Site Summary Report Performed by Professional Services Industries, Inc. (PSI)

Information To Build On
Engineering • Consulting • Testing

August 5, 2011

Devon Self Storage Holdings (US) LLC
2000 Powell Street, Suite 1240
Emeryville, CA 94608

Attn: Kimberly Siclari, Esq.
Vice President & General Counsel
Phone: (510) 450-9207
Fax: (510) 450-1325

Re: Site Summary Report
Devon Self Storage
3075 & 3131 Richmond Terrace
Staten Island, New York 10303
PSI Project 0836-272

Dear Ms. Siclari:

Professional Service Industries, Inc. (PSI) is pleased to present this Site Summary Report (SSR) to Devon Self Storage Holdings (US) LLC (Devon) regarding soil handling and disposal during the construction at the above referenced site. PSI has collected and reviewed available data as requested by Devon. Please find below a summary of our review findings to date.

Project Understanding & Purpose
The subject property located at 3075 & 3131 Richmond Terrace in Staten Island, New York (the Site) was developed by Devon into a storage facility commencing in 2007 and completing the project in 2010. Devon is presently seeking refinance options. Ms. Siclari of Devon requested that PSI develop the Site Summary Report (SSR), as referenced in the Site Management Plan (SMP), PSI Project No. 046-8E004 dated May 7, 2008 as prepared by PSI and based on available information. The purpose of the SSR is to summarize the site construction activities in regards to material handling and document the disposal of the soil transported from the site as solid waste.

Project Authorization
Authorization to develop this SSR was provided on July 18, 2011 by a signed copy of PSI Proposal No. 0836-48270 (Revised), between Devon and PSI. The authorization was provided by Ms. Kim Sicari, Vice President and General Counsel at Devon.

Site Description
The Site consists of 1.7 acres developed with two (2) large warehouses, a two story and a four story building. The buildings are connected by an overpass and comprise the majority (at least 70%) of the property. Concrete paved driveways, concrete pads and asphalt parking areas comprise the reminder of the site.

The Site was historically used as an industrial facility to support ship building and ship maintenance operations and also operated as a chair manufacturing facility prior to the Devon development. The

Site is located in a mixed use area with industrial, residential and commercial neighbors bordering the site. **Figure 1** illustrates the general location of the subject site.

Subsurface Conditions

Based on field observations and laboratory samples analysis results generated during the PSI Limited Investigation performed in April, 2007 it appears that the subsurface conditions consist of various urban fill materials which consisted of sand, gravel, mulch, bricks, and slag.

Contaminants of concern (COCs) detected in sub-surface material exceeded the New York State Department of Environmental Conservation (NYSDEC) Soil Clean Up Objectives (SCOs) Restricted Commercial criteria for semi-volatile organic compounds in a number of locations and in one (1) boring the laboratory results indicated that the concentration of lead in soil exceeds the SCO. Concentrations of volatile organic compounds and polychlorinated biphenyl in the laboratory soil sample results were below NYSDEC Restricted Commercial SCOs and most soil samples were below the unrestricted SCOs. As the Site is adjacent to Newark Bay, groundwater is very shallow. Laboratory analytical results obtained during the April 2007 investigation indicated the presence of metals in the groundwater at concentrations that exceed the NYSDEC Ambient Water Quality Standards for Groundwater. The samples were observed to be very turbid and COCs that exceeded the NYSDEC Guidance were limited to metals. False positive or elevated metal results may occur when samples exhibit high turbidity, so PSI believes the detected metals concentrations in groundwater may not be representative of actual groundwater conditions.

Site Compliance History and Regulatory Status

At the time of the Devon development commencement there were no listed open spills at the Site. Based on a review of the NYSDEC spills data base on July 28, 2011 there are no open spills at the Site presently.

Devon Development General Scope of Work

The Devon development scope of work was to remove the south warehouse building and replace that with a new structure that would connect to the renovated existing north building. The construction work included minimum excavation with the exception of the installation of the drainage system and other small utility installations associated with the building. The existing concrete slab floor remained intact for the north building and the south building slab was removed, processed through a crusher and used as fill at the Site. **Figure 2** depicts the locations of new buildings. The document authored by RM Architecture Inc was supplied to PSI by Devon. Stokes Demolition Corp. (Stokes) of Staten Island, New York performed the demolition and stone processing work.

Summary of Activities

PSI developed the SMP for Devon and GreenBar Inc., (GreenBar) who acted as Devon's Construction Manager. The objective of the SMP was to serve as a guideline for conducting the excavation work during the project, if impacted materials were encountered. The SMP included Health & Safety guidelines, emergency notification procedures, field monitoring requirements and material handling requirements, if impacted soils were encountered. A Partial Mechanical Demolition Permit was issued by New York City (NYC) Buildings Department (NYCBD) to Stokes Demolition Corp. on May 27, 2008.

PSI performed site inspections on Sept 30 2008, November 30, 2008 and February 25, 2009 and attended a site meeting with the project team on October 7, 2008. Devon, their sub-contractors and the Imperial Capital Bank (Imperial) team attended the October meeting and Imperial also reviewed the Site. The south building was already down and removed before the first PSI inspection. The Site was being brought up to grade during the November visit and piles were being driven near the north buildings to support the proposed addition to the north structure, which remained in place during the November inspection. The PSI inspections documented that GreenBar and their crews participated in or were actively using the following:

- Health & Safety (H & S) Meetings
- Health & Safety Plan on site and available
- Route to hospital posted
- PPE used by crews as a dermal precaution
- Spill gear, fire extinguishers and spill plan ready
- Dust control used when needed
- Work zones segregated from public

The State of New York does not have a formal voluntary clean up program and if impacted soils were encountered, they were to be handled using good industry practices and in general accordance with the NYSDEC guidelines for the disposal of petroleum impacted soils. PSI did not observe any impacted soils or sheen on any standing water during the three (3) PSI site inspections.

The excavation for the south building was proposed to be approximately five (5) feet below ground surface (bgs) for supports, pile caps and less than two (2) feet bgs in the build slab areas. PSI observed that area being built up with crushed concrete and imported fill as when the building was removed there was a large void.

Mark Barnes indicated that isolated excavation was performed at each footing column location to facilitate installation of the form work or for the installation of utilities. Mr. Barnes also indicated that he did not observe any impacted soils during this excavation work. PSI observed workers wearing gloves and tyvec over suits. Housekeeping and security at the Site as seen during the PSI inspections were considered very good. A copy of the GreenBar and Stokes Safety Programs are enclosed as **Appendix D.**

One (1) complaint was lodged against the Site on September 25, 2008 regarding an inadequate fence. The Site was inspected a by New York City (NYC) Buildings inspector on September 30, 2008 and found to be in compliance. The inspector, Badge # 2289, stated that the “fence is stable and steady”. The demolition work was signed off on by the NYC on October 21, 2008. The Last Action permit for the project was issued by the NYC Buildings on November 15, 2010 to Mr. Paul Remus of RM ARCH Inc. These items and the site permits received to date can be found in **Appendix C.**

Soil Disposal

According to PSI’s communication with Mr. Mark Barnes on July 28, 20111 and August 3, 2011, no obvious signs of impacted soils were encountered during the installation of the storm water drainage system. The drainage plan is attached as **Figure 3.** Mr. Barnes also indicated that the excavation work was performed with consideration to the rise of the tides and no dewatering was performed

during this project. Mr. Barnes indicated that the soil was staged on the existing concrete pad and covered with plastic sheet until transported.

GreenBar completed the excavation work for drainage installation in 2010. As the soil was not considered petroleum impacted by GreenBar and no visible signs of sheen or impacts were observed, no post excavation samples were collected in the area.

GreenBar arranged for the excavated soil material to be accepted at a permitted facility. The soil was transported to the Middlesex County Utilities Authority Landfill by Maddox Materials LLC. 1,212.75 tons was transported from the site. The shipping documents and analysis of the soil stockpiles can be found in **Appendix A** and **Appendix B** respectively. The soil was used as landfill cover. PSI reviewed the analytical requirements with Mr. John Ewen of Innovative Recycling Technology (IRT) on August 3, 2011. Mr. Ewen indicated that the sampling of soil stockpiles at the Site was in accordance with requirements of Ozark Environmental Inc. who facilitated the soil acceptance through their exclusive relationship with the landfill.

The soil analytical results for the soil disposal approval indicated that low concentrations of diesel range organics (DRO) and heavy metals were present. The analytical results for the metals when compared to the NYSDEC unrestricted SCOs in Table 375-6-8(a) would have only two (2) metals, specifically lead and mercury, reported above the unrestricted SCOs and both concentrations would be below the NYSDEC commercial SCOs. The volatile and semi-volatile compounds were evaluated by toxicity characteristic leaching procedure (TCLP) analysis to determine whether the soil should be classified as hazardous waste. TCLP results can not be compared to the NYSDEC SCOs; however no COCs were detected in the TCLP extract at concentrations above the laboratory detection limit with the exception of metals and methylene chloride. A summary table of the disposal acceptance analysis is included in **Appendix B** for your review.

Conclusion:
PSI did not observe any free product, sheen on waters or petroleum stained soils during our three (3) site inspections. Mr. Barnes has stated that GreenBar did not observe any impacted materials during any excavation operations at the Site as well.

Based on the PSI site inspections and a review of provided soil disposal information it appears that GreenBar, the construction agent for Devon, did engage in good housekeeping practices and also disposed of the excess soils appropriately and in accordance with generally accepted industry practices and according to local, state and Federal guidelines. The soils were used a cover at the landfill and according to Mr. Ewen of IRT that is considered a beneficial reuse of the materials.

It should be noted that the Environmental and Construction Engineering personnel and inspectors for Imperial and the architect also performed inspections during the construction project and Imperial did not request or require any further PSI inspections or support after February 2009.

Warranty
The information provided in this Site Summary Report by PSI under Project Number 0836-272 is intended exclusively for Devon Self Storage Holdings (US) LLC, (Devon) as it pertains to the property at 3075 & 3131 Richmond Terrace in Staten Island, New York at the time of the writing of this report.

No unnamed third party shall have the right to rely on this report without the express written consent of PSI, as well as payment of the then current reliance letter fee. The professional services provided have been performed in accordance with practices generally accepted by other appropriate environmental professionals, geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made.

PSI is not an insurer and makes no guarantee or warranty that the services supplied will avert or mitigate occurrences, or the consequences of occurrences, that the services are designed to prevent or ameliorate. As with all subsurface soil sampling, there is no guarantee that the work conducted has identified any and all sources or locations of petroleum hydrocarbons or hazardous substances or chemicals in the soil or groundwater. This report is issued with the understanding that the information provided by Devon and their vendors is accurate and reliable. Devon is responsible for ensuring that the information contained in this report is brought to the attention of the appropriate regulatory agency, if any.

Use by Third Parties
This report was prepared pursuant to the contract PSI has with Devon. That contractual relationship included an exchange of information about the subject property that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than Devon for whom it was prepared, is prohibited and therefore not foreseeable to PSI.

Please call with any questions you may have, or if PSI can be of additional service. We look forward to working with you on this and future projects.

Respectfully submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.

Paul Misiaszek, CHMM
Environmental Scientist
& Principal Consultant

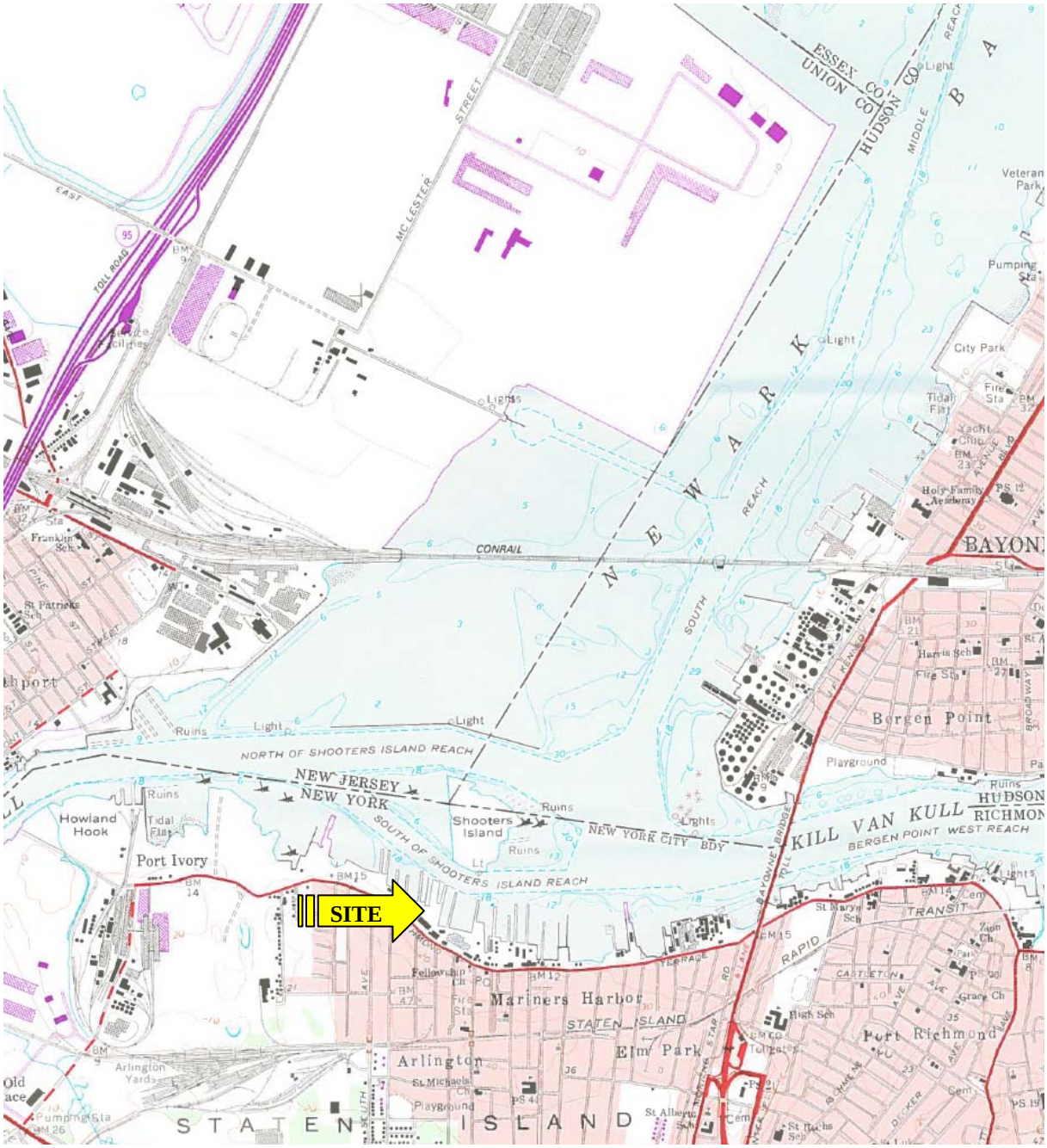
Chief Engineer &
Principal in Charge

Enclosures:

FIGURE 1
Site Location Map
(Topographic Map USGS Quadrangle 1967)

psi *Information To Build On*

Engineering • Consulting • Testing



Devon Self Storage Holdings (US), LLC
2000 Powell Street
Emeryville, California 94608

TOPOGRAPHIC MAP
7 1/2 Minute Series,
Elizabeth, NY
USGS Quadrangle, 1967
(photorevised 1981)
Scale 1:24,000 Contour: 10'

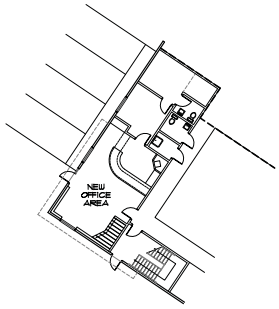
Devon Self Storage
3075 & 3131 Richmond Terrace
Staten Island, New York

Project Number	Date
0836272	August 5, 2011

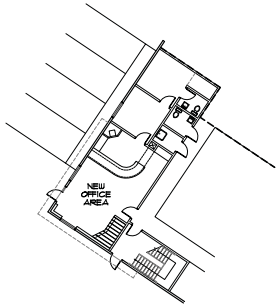
FIGURE 2
Building Site Plan
(as provided by Devon)
Authored by RM Architecture Inc. labeled as A1

NOTE:
LETTER IN EACH UNIT DESIGNATES THE SIZE OF THAT UNIT

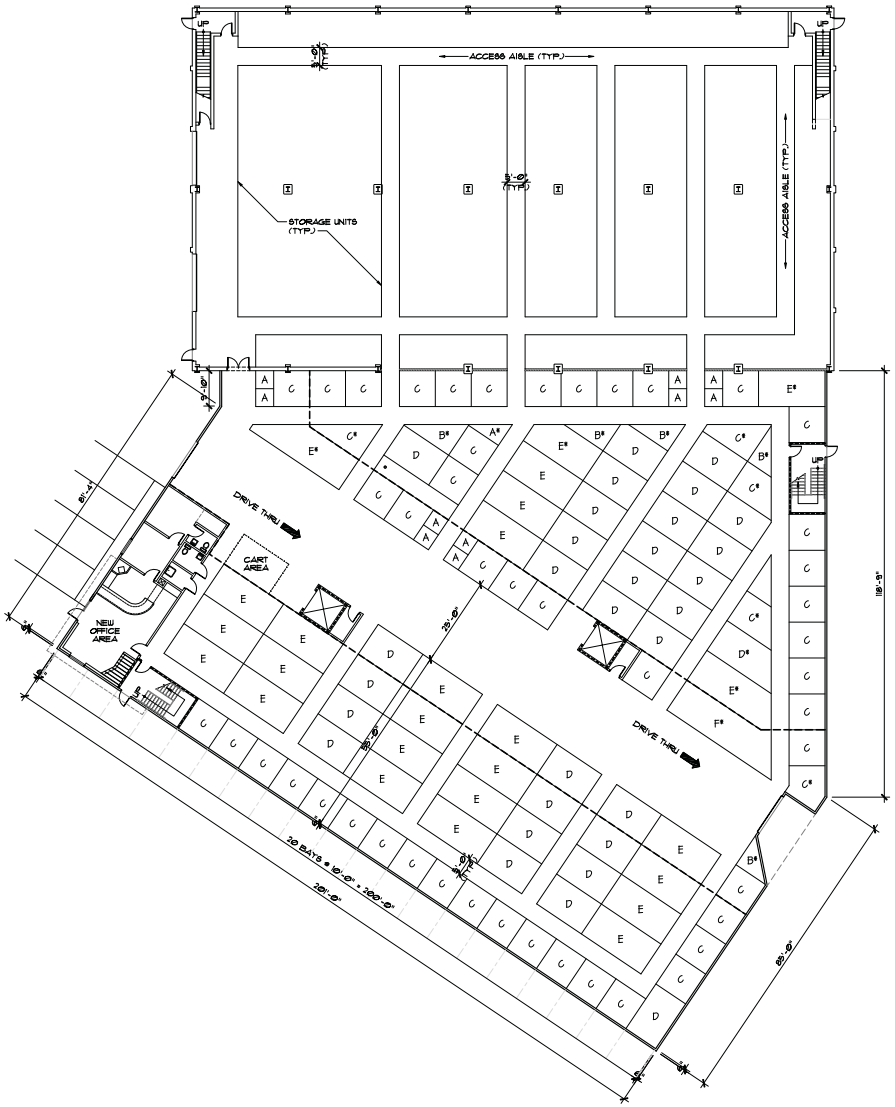
A	5 x 5
B	5 x 10
C	10 x 10
D	10 x 15
E	10 x 20
F	10 x 30
H	5 x 8
I	8 x 10
J	5 x 13
ZZ	3 x 5
*	INDICATES THAT SIZE MAY VARY TO SUIT CONDITIONS



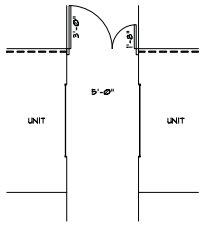
OFFICE ALTERNATE #1



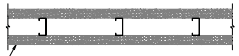
OFFICE ALTERNATE #2



FIRST FLOOR PLAN (1 / A1)
SCALE: 1/16" = 1'-0"

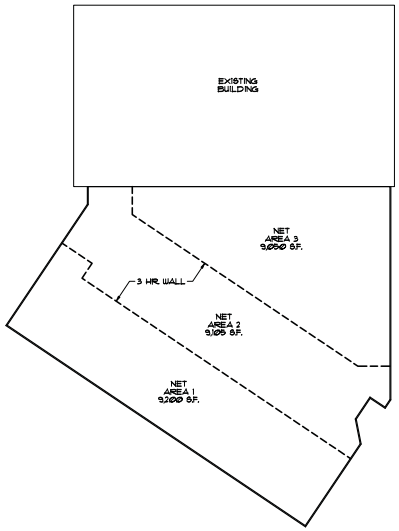


DOOR DETAIL (X / A1)
SCALE: 1/4" = 1'-0"



FOUR LAYERS 1/2" FIRE-SHIELD C GYPSUM WALLBOARD SCREW ATTACHED TO EACH SIDE OF (MIN.) 3 1/2" - 20 GAUGE STEEL STUDS @ 16" O.C. STUDS LATERALLY BRACED AND FASTENED TO TRACKS. BASE, SECOND AND THIRD LAYERS APPLIED VERTICAL. FACE LAYER MAY BE APPLIED EITHER HORIZONTAL OR VERTICAL. ALL WALLBOARD JOINTS STAGGERED FROM JOINTS IN ADJACENT LAYERS AND ON OPPOSITE SIDES OF STUDS.

DETAIL UL DESIGN U426 (3 HR.) (A / A1)
SCALE: 1" = 1'-0"



FIREWALL SEPARATION KEY PLAN

General Note:
CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THIS WORK. ALL DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED IMMEDIATELY TO RM ARCHITECTURE, INC. FOR ADJUSTMENTS OR DIRECTIONS.

"RM ARCHITECTURE, INC. HAS PREPARED THE DRAWINGS AND SPECIFICATIONS FOR USE ON THIS PROJECT. RM ARCHITECTURE, INC. SHALL NOT BE RESPONSIBLE FOR THE USE OF THE DRAWINGS AND SPECIFICATIONS UNDER ANY OTHER CIRCUMSTANCES, ANY REUSE NOT FOR THE SPECIFIC PURPOSE INTENDED AND WITHOUT WRITTEN APPROVAL BY RM ARCHITECTURE, INC. WILL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO RM ARCHITECTURE, INC. THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS RM ARCHITECTURE, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING LEGAL FEES AND OTHER COSTS OF DEFENSE ARISING OUT OF OR RESULTING THEREFROM."

"THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF DRAWINGS AND SPECIFICATIONS PROVIDED BY RM ARCHITECT FOR THE OWNER'S INFORMATION IN ITS USE FOR THE PROJECT. DUE TO THE POTENTIAL THAT THIS INFORMATION CAN BE MODIFIED UNINTENTIONALLY OR OTHERWISE, RM ARCHITECTURE, INC. RESERVES THE RIGHT TO REMOVE ALL INDICATIONS OF ITS OWNERSHIP AND/OR INVOLVEMENT FROM EACH ELECTRONIC DISK OR TAPE."

Distribution: Date:

Architectural Registrations:

Paul D. Remus

CT - 8232	MO - 8177
DE - 6185	NJ - C-5880
FL - AR13293	NY - 12406
MA - 8268	PA - 4538
MD - 8170	

Consultants:

RM
ARCHITECTURE, INC.
725 KENILWORTH AVENUE
CHERRY HILL, NJ. 08002-2829
Phone: 856-661-1302 Fax: 856-661-0527
P.O. Box 98
GOULDSBORO, PA. 18424-0098
Phone: 570-842-8007
E-Mail: premus@rmarchitecture.com

Sheet Title:
SCHEMATIC
FIRST FLOOR PLAN

Job Name:
DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Owner:
DEVON SELF STORAGE, LLC
2000 POWELL ST., SUITE 1240
EMERYVILLE, CA. 94680

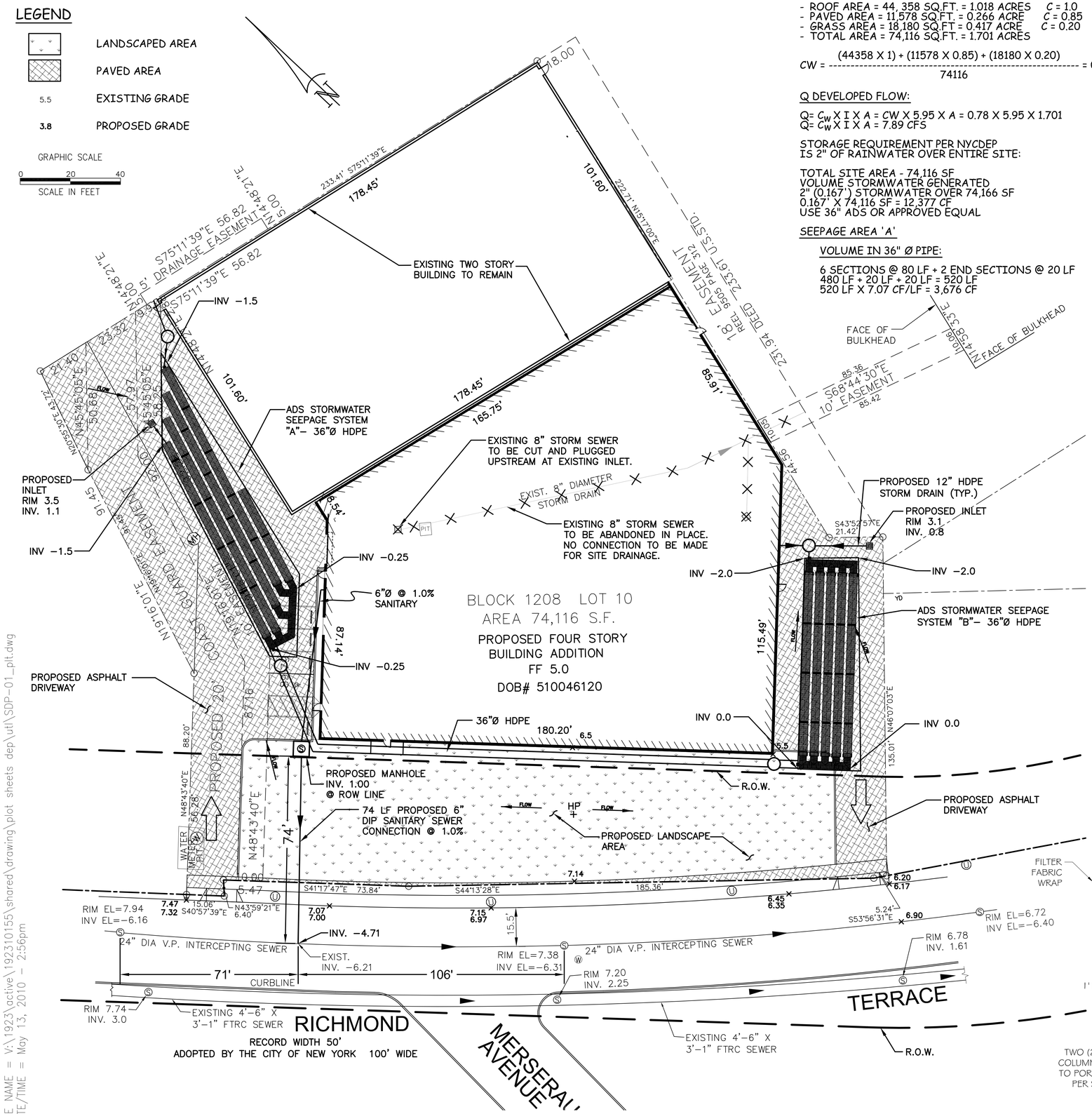
Drawn By: GG
Approved By: PR
Project Number: 06112
Date: 07-09-07
Scale: AS NOTED
Drawing Number: A1

FIGURE 3
Site Drainage Plan
(as provided by GreenBar)
Authored by Stantec Consultant services Inc labeled as SDP-1

LEGEND

- LANDSCAPED AREA
- PAVED AREA
- 5.5 EXISTING GRADE
- 3.8 PROPOSED GRADE

GRAPHIC SCALE
0 20 40
SCALE IN FEET



TOTAL DEVELOPED SITE STORMFLOW:

- ROOF AREA = 44, 358 SQ.FT. = 1.018 ACRES C = 1.0
- PAVED AREA = 11,578 SQ.FT. = 0.266 ACRE C = 0.85
- GRASS AREA = 18,180 SQ.FT = 0.417 ACRE C = 0.20
- TOTAL AREA = 74,116 SQ.FT. = 1.701 ACRES

$$CW = \frac{(44358 \times 1) + (11578 \times 0.85) + (18180 \times 0.20)}{74116} = 0.78$$

Q DEVELOPED FLOW:

$Q = C_W \times I \times A = CW \times 5.95 \times A = 0.78 \times 5.95 \times 1.701$
$Q = C_W \times I \times A = 7.89$ CFS

STORAGE REQUIREMENT PER NYCDEP
IS 2" OF RAINWATER OVER ENTIRE SITE:

TOTAL SITE AREA - 74,116 SF
VOLUME STORMWATER GENERATED
2" (0.167') STORMWATER OVER 74,166 SF
0.167' X 74,116 SF = 12,377 CF
USE 36" ADS OR APPROVED EQUAL

SEEPAGE AREA 'A'

VOLUME IN 36" Ø PIPE:

6 SECTIONS @ 80 LF + 2 END SECTIONS @ 20 LF
480 LF + 20 LF + 20 LF = 520 LF
520 LF X 7.07 CF/LF = 3,676 CF

VOLUME IN GRAVEL AREA:

TOTAL VOLUME SEEPAGE AREA 'A'
87' X 20' X 5.0' = 8,700 CF
TOTAL VOLUME OF 36" Ø PIPE = 3,676 CF

TOTAL VOLUME GRAVEL AREA
8,700 CF - 3676 CF = 5,024 CF
ASSUME 30% STORAGE VOLUME
5,024 CF X 0.30 = 1,507 CF

TOTAL STORAGE VOLUME = 3,676 CF + 1,507 CF
= 5,182 CF

SEEPAGE AREA 'B'

VOLUME IN 36" Ø PIPE:

8 SECTIONS @ 80 LF + 2 END SECTIONS @ 27 LF EACH
640 LF + 27 LF + 27 LF = 694 LF

694 LF X 7.07 CF/LF 4,906 CF

VOLUME IN GRAVEL AREA:

TOTAL VOLUME SEEPAGE AREA 'B'
86' X 29.5' X 5' = 12,685 CF
TOTAL VOLUME 36" Ø PIPE = 4,906 CF

TOTAL VOLUME GRAVEL AREA
12,685 CF - 4,906 CF = 7,779 CF
ASSUME 30% STORAGE VOLUME
7,779 X 0.30 = 2,334 CF

TOTAL SEEPAGE VOLUME = 4,906 + 2,334 CF
= 7,240 CF

TOTAL STORAGE VOLUME OF SEEPAGE AREA 'A' + 'B'
5,182 CF + 7,240 CF = 12,423 CF

SANITARY SITE FLOW:

INDUSTRIAL ZONE = M3-1; POPULATION DENSITY
INDUSTRIAL FLOW = 10,000 GALLONS/ACRE/DAY
PEAK FACTOR = 2

(10,000 GALLONS/PERSON /DAY) X (1.701 AC) X (2.00) X (2)
= 68,040 GALLONS/PERSON /DAY

$$\frac{68{,}040 \text{ GALLONS/PERSON /DAY}}{7.48 \text{ GALLONS} \times 86{,}400 \text{ SEC/DAY}} = 0.105 \text{ CFS}$$

CAPACITY OF 6" DIP
SANITARY CONNECTION @ 1.0%

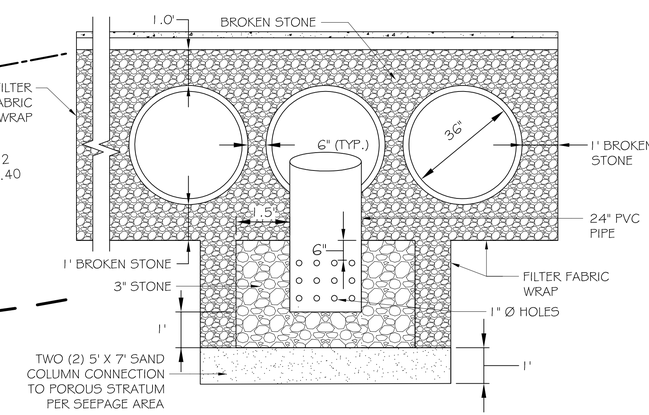
$$Q = A\left(\frac{1.486}{N}\right) R^{2/3}\sqrt{S}$$

$$Q = 0.196 \times \left(\frac{1.486}{0.013}\right) \times 0.248 \times \sqrt{0.01}$$

$Q = 0.555$ CFS

NOTES

1. PROPOSED STORMWATER RETENTION SYSTEM TO BE CONSTRUCTED USING CORRUGATED- PERFORATED HDPE. SPECIFIED MATERIAL IS APPROVED FOR USE IN NYC, AND HAS BEEN ASSIGNED MEA NUMBER "MEA 301-96-M".
2. HDPE PIPE IS APPROVED FOR SUBSURFACE STORMWATER DRAINAGE APPLICATIONS UNDER ASTM SPECIFICATION: F 2306 / F 2306M - 05
3. PER SUBDIVISION "B" OF SECTION P102.2 OF REFERENCE STANDARD RS-16 OF TITLE 27 OF THE ADMINISTRATIVE CODE OF NY: "...CORRUGATED POLYETHYLENE PIPING WITH A DIAMETER OF TWELVE INCHES OR MORE AND PLASTIC FITTINGS MAY BE USED IN CONNECTION WITH ANY TYPE OF BUILDING FOR UNDERGROUND YARD DRAINAGE AND STORM WATER PIPING WHEN USED OUTSIDE OF THE FOUNDATION WALLS OF THE BUILDING..."



ADS SEEPAGE SYSTEM TYPICAL SECTION
SCALE: 1" = 2'-0"

DRAINAGE SYSTEM SHALL BE IN COMPLIANCE WITH NYC BUILDING CODE P110.13 OF REFERENCE STANDARD 16

RACK NO.
FILE NAME:

DEVON

SELF - STORAGE

DEVON STATEN ISLAND LLC
2000 POWELL ST. SUITE 1240
EMERYVILLE, CA 94608

Consultant:
Stantec Consulting Services Inc
50 W 23rd Str.
New York, NY, 10010
Phone: 212-366-5600
Fax: 212-366-5629
e-mail: stantec.com
Stantec

REVISION		
	NYCDEP COMMENTS	06/02/2009
	NYCDEP COMMENTS	07/23/2009
	NYCDEP COMMENTS	08/21/2009
	REVISIONS PER DEP MTG OF 12 /1/09	12/5/2009
	REVISED ADS SYSTEM	5/10/2010

3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK
BLOCK 1208 LOT 10

SITE DRAINAGE PLAN

Project number: 192310155
Date: March 19, 2010
Drawn by : Robert Spinale
Checked by: Peter Koncelik

SDP-1

Scale: 1" = 20'

FILE NAME = V:\1923\active\192310155\shared\drawing\plot sheets dep\utl\SDP-01_plt.dwg
DATE/TIME = May 13, 2010 – 2:56pm

Appendix A

OZARK
OZARK ENVIRONMENTAL INC.
1411 Stelton Road • Suite 202 • Piscataway, NJ 08854
Phone: 732.819.0095 • Fax: 732.572.9716

Disposal Date: June 29, 2010

Generator: Devon Storage

Ozark Job #: 062210

Ozark Rep: DO

Manifest	Gross Weight	Tare Weight	Pounds	Tons
64094	80300	26500	53800	26.90
64095	83180	26700	56480	28.24
64096	82060	28000	54060	27.03
64097	83780	27500	56280	28.14
64098	86420	28000	58420	29.21
64099	79360	28000	51360	25.68
64100	80800	26300	54500	27.25
64101	85200	26300	58900	29.45
64102	79600	26300	53300	26.65
64103	85560	26700	58860	29.43
64104	79860	26500	53360	26.68
64105	87020	28000	59020	29.51
64106	83640	26300	57340	28.67
64107	85800	27500	58300	29.15
64108	82840	26300	56540	28.27
64109	77180	26300	50880	25.44
64110	80840	26500	54340	27.17
64111	83140	28000	55140	27.57
64113	76640	26700	49940	24.97
64114	84600	27500	57100	28.55
64116	86300	26300	60000	30.00
64117	81360	26500	54860	27.43
			0	0.00
			0	0.00
			0	0.00
22	**1815480**	**592700**	**1222780**	**611.39**

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64094

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
MIGUEL NANSOQUE

13. Gross Weight (Pounds)
80300

14. Truck Number
7

15. Tare Weight (Pounds)
26,500

16. Vehicle Plate Number
AL 174 N

17. Net Weight (Pounds)

2010 JUN 29 AM 7:06

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Miguel
Signature
Month 6 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL on Behalf of DEVON STORAGE
Signature
Month 06 Day 28 Year 06

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64095

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Edgard LANA

13. Gross Weight (Pounds)
83180

14. Truck Number
6

15. Tare Weight (Pounds)
26,700

16. Vehicle Plate Number
AL631H

17. Net Weight (Pounds)

2010 JUN 29 AM 7:08

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Edgard Lana
Signature
Month 6 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: John Dull on Behalf of Devon Storage
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64096

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
FABYAN DAL GOBBO

13. Gross Weight (Pounds)
82060

14. Truck Number
8

15. Tare Weight (Pounds)
28,000

16. Vehicle Plate Number
AL 369 R

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: FABYAN
Signature:
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL ON BEHALF OF DEVON STORAGE
Signature:
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64097

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-223-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
LUIS BELTRAN

13. Gross Weight (Pounds)
83780

14. Truck Number
9

15. Tare Weight (Pounds)
27500

16. Vehicle Plate Number
AH-182H

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: LUIS BELTRAN
Signature
Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JEWEL on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

2010 JUN 29 AM 8:03

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64098

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BELTRAN CONTRACTORS

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
JULIANO CARNEVO

13. Gross Weight (Pounds)
36420

14. Truck Number
01

15. Tare Weight (Pounds)
28000

16. Vehicle Plate Number
AG979G

17. Net Weight (Pounds)

2010 JUN 29 AM 9:58

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: JULIANO CARNEVO
Signature
Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: J Ewen on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64099

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BEZMOR CONTRACTORS

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
JULIANO CARNEIRO

13. Gross Weight (Pounds)
79360

14. Truck Number
01

15. Tare Weight (Pounds)
28.000

16. Vehicle Plate Number
AK 979G

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: JULIANO CARNEIRO
Signature
Month Day Year: 06 29 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JEan on Behalf of Devon SS
Signature
Month Day Year: 06 29 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

2011 JUN 29 AM 7:46

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64100

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
RICHARD MELO.

13. Gross Weight (Pounds)
30800

14. Truck Number
02

15. Tare Weight (Pounds)
26 300

16. Vehicle Plate Number
AR 200 R.

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: RICHARD MELO.
Signature
Month 6 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JEwson on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

2010 JUN 29 AM 8:18

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64101

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

2010 JUN 29 AM 8:45

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description **Soil For Cover / Non-Hazardous**

12. Driver Name
JULIO BELTRAN

13. **Gross Weight (Pounds)**
85200

14. Truck Number
10

15. **Tare Weight (Pounds)**
26 300

16. Vehicle Plate Number
AH 602 F

17. **Net Weight (Pounds)**

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Julio Beltran
Signature
Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name
JE Wan on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64102

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BELTRAN.

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
SEGUNDO M

13. Gross Weight (Pounds)
79600

14. Truck Number
11

15. Tare Weight (Pounds)
26:300

16. Vehicle Plate Number
AM350J

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: SEGUNDO M
Signature:
Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JTuon on Behalf of Devon SS
Signature:
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature: CP
Month Day Year

25. Notes/Date and Time Stamp

2010 JUN 29 AM 8:29

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64103

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Edgard Iana

13. Gross Weight (Pounds)
35560

14. Truck Number
6

15. Tare Weight (Pounds)
26.700

16. Vehicle Plate Number
AL 031 H

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Edgard Iana
Signature:
Month 6 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: J Ewen on Behalf of Devon SS
Signature:
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

2010 JUN 29 AM 8:10

[redacted]

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

[redacted]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64104

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

2010 JUN 29 AM 8:53

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Miguel Nonogue

13. Gross Weight (Pounds)
79360

14. Truck Number
07

15. Tare Weight (Pounds)
26500

16. Vehicle Plate Number
VC 174 N.

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Miguel
Signature:
Month 6 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: J Ewemon Behalf of Devon SS
Signature:
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64105

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
FABIAN

13. Gross Weight (Pounds)
87020

14. Truck Number
8

15. Tare Weight (Pounds)
28-00

16. Vehicle Plate Number
AL359R

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: FABIAN DALGOBR.
Signature
Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: J Ewenon Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64106

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

2010 JUN 29 AM 10:49

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
RICHARD MEW

13. Gross Weight (Pounds)
83640

14. Truck Number
02

15. Tare Weight (Pounds)
26300

16. Vehicle Plate Number
AM 200 N.

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: RICHARD MEW
Signature
Month 6 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: Jerome on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64107

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Luis Beltrán

13. Gross Weight (Pounds)
85800

14. Truck Number
9

15. Tare Weight (Pounds)
27500

16. Vehicle Plate Number
AM-182H

17. Net Weight (Pounds)

2010 JUN 29 AM 10:05

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Luis Beltrán
Signature
Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: J Even on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64108

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BELTRAN.

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
SEGUNDO. M.

13. Gross Weight (Pounds)
82840

14. Truck Number
11

15. Tare Weight (Pounds)
26300

16. Vehicle Plate Number
AM3503 NJ

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: SEGUNDO M.
Signature:
Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: J Even on Behalf of Devon SS
Signature:
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name:
Signature:
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64109

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BELTRAN C.

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
JULIO C BELTRAN

13. Gross Weight (Pounds)
77180

14. Truck Number
10

15. Tare Weight (Pounds)
26300

16. Vehicle Plate Number
AM6 OLP

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Julio Beltran
Signature:
Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: J Evan on Behalf of Devon SS
Signature:
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name:
Signature:
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64110

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Miguel Moscoso

13. Gross Weight (Pounds)
80840

14. Truck Number
07

15. Tare Weight (Pounds)
26500

16. Vehicle Plate Number
AC 171N

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above-listed material was delivered to the facility listed above.

Printed/Typed Name
Signature
Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name
J Ewen on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64111

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
FABIAN

13. Gross Weight (Pounds)
83140

14. Truck Number
8

15. Tare Weight (Pounds)

16. Vehicle Plate Number
AD 359 R

17. Net Weight (Pounds)

GENERATOR

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

TRANSPORTER

Printed/Typed Name
FABIAN

Signature

Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

GENERATOR

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name
J Ewen on Behalf of Devon SS

Signature

Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name

Signature

Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64113

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Edgard Iama

13. Gross Weight (Pounds)
76640

14. Truck Number
6

15. Tare Weight (Pounds)
26.700

16. Vehicle Plate Number
AL 631 H

17. Net Weight (Pounds)

2010 JUN 29 AM 11:29

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Edgard Iama
Signature
Month 6 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name
J Ewon on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64114

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Luis Beltran

13. Gross Weight (Pounds)
84600

14. Truck Number
9

15. Tare Weight (Pounds)
27-500

16. Vehicle Plate Number
AM-1824

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Luis Beltran
Signature
Month 06 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: J Evson on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64116

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
RICHARD NELO

13. Gross Weight (Pounds)
86300

14. Truck Number
02

15. Tare Weight (Pounds)
26300

16. Vehicle Plate Number
AM 200 R

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: RICHARD NELO.
Signature
Month 6 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JEwen on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64117

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Miguel Nouzogle

13. Gross Weight (Pounds)
81360

14. Truck Number
02

15. Tare Weight (Pounds)
26.700

16. Vehicle Plate Number
AL A4N

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Miguel
Signature
Month 6 Day 29 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name
JEwen on Behalf of Devon SS
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK
OZARK ENVIRONMENTAL INC.
1411 Stelton Road ♦ Suite 202 ♦ Piscataway, NJ 08854
Phone: 732.819.0095 ♦ Fax: 732.572.9715

Disposal Date: June 28, 2010

Generator: Devon Storage

Ozark Job #: 062210

Ozark Rep: N/A

Manifest	Gross Weight	Tare Weight	Pounds	Tons
64073	79080	26300	52780	26.39
64074	79740	27500	52240	26.12
64075	81800	27800	54000	27.00
64076	76060	26500	49560	24.78
64077	85200	26700	58500	29.25
64078	83060	28000	55060	27.53
64079	86600	26300	60300	30.15
64080	86320	27500	58820	29.41
64081	84600	27800	56800	28.40
64082	87980	26700	61280	30.64
64083	84920	26500	58420	29.21
64084	81500	28000	53500	26.75
64085	83740	26300	57440	28.72
64086	86680	27500	59180	29.59
64087	85620	27800	57820	28.91
64088	83160	26500	56660	28.33
64089	89000	26700	62300	31.15
64090	87700	28000	59700	29.85
64091	83740	26300	57440	28.72
64092	90040	27800	62240	31.12
64093	86180	27500	58680	29.34
			0	0.00
			0	0.00
			0	0.00
21	**1772720**	**570000**	**1202720**	**601.36**

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64073

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description **Soil For Cover / Non-Hazardous**

12. Driver Name
RICHARD DEO

13. **Gross Weight (Pounds)**
79080

14. Truck Number
02

15. **Tare Weight (Pounds)**
26300

16. Vehicle Plate Number
AA 200 A

17. **Net Weight (Pounds)**

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: RICHARD DEO
Signature
Month 6 Day Year 15

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name
on Behalf of
JOHN DUCK DEVON STORAGE
Signature
Month 06 Day 29 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64074

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BELTRAN CONTRACTORS

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
LUIS BELTRAN

13. Gross Weight (Pounds)
79740

14. Truck Number
9

15. Tare Weight (Pounds)
27500

16. Vehicle Plate Number
AM-182H

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: LUIS BELTRAN
Signature:
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: LUIS BELTRAN
Signature:
Month 06 Day 28 Year 10

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL on Behalf of Devon STORAGE
Signature:
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature:
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64075

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BB

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
JULIO C BELTRAN

13. Gross Weight (Pounds)
31800

14. Truck Number
01

15. Tare Weight (Pounds)
27800

16. Vehicle Plate Number
AK 979 G

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: JULIO C BELTRAN
Signature
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL ON BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64076

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Miguel Nonogue

13. Gross Weight (Pounds)
76060

14. Truck Number
07

15. Tare Weight (Pounds)
26,500.

16. Vehicle Plate Number
AL 174 N

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Miguel
Signature:
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL On Behalf of Devon STORAGE
Signature:
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64077

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BELMOR

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

TRANSPORTER

12. Driver Name
Edgard LANA

13. Gross Weight (Pounds)
83200

14. Truck Number
BELMOR #6

15. Tare Weight (Pounds)
26.700

16. Vehicle Plate Number
AL 631 H

17. Net Weight (Pounds)

2010 JUN 28 AM 8:37

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Edgard lana
Signature
Month 6 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: ON BEHALF OF JOHN DULL DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64078

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-223-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
FABYAN

13. Gross Weight (Pounds)
83060

14. Truck Number
7

15. Tare Weight (Pounds)
28.000

16. Vehicle Plate Number
AL 359R

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: FABYAN MAL COBRA
Signature
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DUII ON BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

MID CO UTIL AUTH
2010 JUN 28 AM 9:06

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64079

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
RICHARD MELO

13. Gross Weight (Pounds)
86600

14. Truck Number
02

15. Tare Weight (Pounds)
26 300

16. Vehicle Plate Number
AM 200 R.

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: RICHARD MELO
Signature
Month 6 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL ON BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

2010 JUN 28 AM 10:04

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64080

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BELTRAN CONTRACTORS

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
LUIS BELTRAN

13. Gross Weight (Pounds)
86320

14. Truck Number
9

15. Tare Weight (Pounds)
27500

16. Vehicle Plate Number
AM - 182 H

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: LUIS BELTRAN
Signature
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL IN BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64081

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
JULIO C. BELTRAN

13. Gross Weight (Pounds)
84600

14. Truck Number
01

15. Tare Weight (Pounds)
27.800

16. Vehicle Plate Number
AK97G

17. Net Weight (Pounds)

2010 JUN 28 AM 10:27

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: JULIO C BELTRAN
Signature:
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL on Behalf of DEVON STORAGE
Signature:
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64082

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Edgard LANA

13. Gross Weight (Pounds)
87980

14. Truck Number
Belmor #6

15. Tare Weight (Pounds)
26700

16. Vehicle Plate Number
AL631 H

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Edgard Lana
Signature
Month 6 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DUH on Behalf of DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

2010 JUN 28 AM 10:49

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64083

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

TRANSPORTER

12. Driver Name
Miguel Mousoqu

13. Gross Weight (Pounds)
84920

14. Truck Number
02

15. Tare Weight (Pounds)
26,500

16. Vehicle Plate Number
AL 174N

17. Net Weight (Pounds)

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Miguel
Signature:
Month 6 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL ON BEHALF OF DEVON STORAGE
Signature:
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

2010 JUL 28 AM 11:04

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64084

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
FATOYAN

13. Gross Weight (Pounds)
81500

14. Truck Number
8

15. Tare Weight (Pounds)
28.000

16. Vehicle Plate Number
AL 359 R

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: FADYAN DALGOBBO
Signature
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL ON BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64085

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
RICHARD MELO

13. Gross Weight (Pounds)
83740

14. Truck Number
#2

15. Tare Weight (Pounds)
26,300

16. Vehicle Plate Number
AN 200R

17. Net Weight (Pounds)

2010 JUN 28 PM 12:07

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: RICHARD MELO
Signature
Month 6 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL ON BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64086

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BELMOR CONTRACTORS

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
LUIS BELTRAN

13. Gross Weight (Pounds)
86680

14. Truck Number
#9

15. Tare Weight (Pounds)
27.500

16. Vehicle Plate Number
AM-182 H

17. Net Weight (Pounds)

2010 JUN 28 PM 12:20

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: LUIS BELTRAN
Signature
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL ON BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64087

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
JULIO C. BELTRAN

13. Gross Weight (Pounds)
85620

14. Truck Number
#01

15. Tare Weight (Pounds)
27,800

16. Vehicle Plate Number
AK979G

17. Net Weight (Pounds)

2010 JUN 28 PM 12:19

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Julio C Beltran
Signature
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL ON BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64088

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
MIGUEL MANSOQUE

13. Gross Weight (Pounds)
83160

14. Truck Number
#7

15. Tare Weight (Pounds)
26,500

16. Vehicle Plate Number
AL 174 N

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: M. Que
Signature
Month 6 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name
JOHN DULL ON BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

2010 JUN 28 PM 2:57

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64089

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BC

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

2010 JUN 28 PM 1:05

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Edgard LANA

13. Gross Weight (Pounds)
8 9500

14. Truck Number
#6

15. Tare Weight (Pounds)
26700

16. Vehicle Plate Number
AL631H

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Edgard lana
Signature:
Month 6 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification

The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name
JOHN DULL ON BEHALF OF DEVON STORAGE
Signature:
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64090

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
FABYAN DAL GOBBO

13. Gross Weight (Pounds)
87760

14. Truck Number
8

15. Tare Weight (Pounds)
28,000

16. Vehicle Plate Number
AL 369 R

17. Net Weight (Pounds)

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: FABYAN
Signature
Month Day Year: 06 28 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL on Behalf of DEVON STORAGE
Signature
Month Day Year: 06 28 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

2010 JUN 28 PM 1:16

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64091

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
RICHARD MELO

13. Gross Weight (Pounds)
83740

14. Truck Number
#2

15. Tare Weight (Pounds)
26,300

16. Vehicle Plate Number
AN 200R

17. Net Weight (Pounds)

2010 JUN 28 PM 2:01

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: RICHARD MELO
Signature
Month 6 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: JOHN DULL ON BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. · Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64092

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

12. Driver Name
Julio C Beltran

13. Gross Weight (Pounds)
90040

14. Truck Number
01

15. Tare Weight (Pounds)
27.800

16. Vehicle Plate Number
AK979G

17. Net Weight (Pounds)

2010 JUN 28 PM 2:08

TRANSPORTER

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: Julio C Beltran
Signature
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: John Dull ON BEHALF OF DEVON STORAGE
Signature
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

OZARK ENVIRONMENTAL
1411 Stelton Rd. - Piscataway, NJ 08854

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Doc. No.
2. Page 1 of
64093

GENERATOR

3. Generator's Name and Mailing Address
Devon Storage
3131 Richmond Terrace Staten Island, NY

4. Generator's Phone
631-225-3044

5. Transporter 1 Company Name
Maddox Materials, LLC / Beltran Contractors Inc.

6. Transporter's Phone
732-251-0054

7. Transporter 2 Company Name
BELHOR

8. Transporter's Phone

9. Designated Facility Name and Site Address
Middlesex County Utilities Authority
53 Edgeboro Road
E. Brunswick, NJ 08816

10. Facility's Phone
732-246-4313

11. Waste Shipping Name and Description
Soil For Cover / Non-Hazardous

TRANSPORTER

12. Driver Name
LUIS BELTRAN

13. Gross Weight (Pounds)
86180

14. Truck Number
#9

15. Tare Weight (Pounds)
27,500

16. Vehicle Plate Number
AM-182H

17. Net Weight (Pounds)

18. Driver Certification
I hereby certify that the above listed material was picked up at the generator site as listed below and that the above listed material was delivered to the facility listed above.

Printed/Typed Name: LUIS BELTRAN
Signature:
Month 06 Day 28 Year 10

19. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

GENERATOR

20. Generator's Site Address
Devon Storage
3131 Richmond Terrace
Staten Island, NY

21. Generator's Certification
The undersigned hereby certifies that the materials described above on this manifest is not a hazardous waste and is not subject to federal regulations for reporting proper disposal of Hazardous Waste and is in proper condition for transportation.

22. Printed/Typed Name: ON BEHALF OF JOHN DULL DEVON STORAGE
Signature:
Month 06 Day 28 Year 10

FACILITY

23. Facility Owner or Operator:
Middlesex County Utilities Authority

24. Printed/Typed Name
Signature
Month Day Year

25. Notes/Date and Time Stamp

2010 JUN 28 PM 2:22

Appendix B

Table 1 (Part 1)
Summary of Soil Laboratory Results
Site Summary Report
Devon Self Storage Holdings (US), LLC
Devon Self Storage Facility
3131 Richmond Terrace, Staten Island New York
30-Jul-11

TCLP Volatile Organic Compounds (VOCs) (EPA Method 8260B)	Units ppm	**Sample AC** 6/15/10, 1300 hrs.	**Sample BC** 6/15/10, 1300 hrs.	**Sample CC** 6/15/10, 1300 hrs.
Methylene Chloride	mg/L	0.100	BDL	0.029
TCLPSemivolatile Organic Compounds (SVOCs) (EPA Method 1311/8270C)	Units ppm	**Sample AC** 6/15/10, 1300 hrs.	**Sample BC** 6/15/10, 1300 hrs.	**Sample CC** 6/15/10, 1300 hrs.
Total SVOCs	mg/L	No SVOCs were detected above the MDL for each respective analyte.		
Diesel Range Organics (EPA Method 8015B)	Units ppm	**Sample AC** 6/15/10, 1300 hrs.	**Sample BC** 6/15/10, 1300 hrs.	**Sample CC** 6/15/10, 1300 hrs.
Concentration on dry weight basis	mg/Kg	1,380	608	1,200
Gasoline Range Organics (EPA Method 8015B)	Units ppm	**Sample AC** 6/15/10, 1300 hrs.	**Sample BC** 6/15/10, 1300 hrs.	**Sample CC** 6/15/10, 1300 hrs.
Concentration on dry weight basis	mg/Kg	BDL	BDL	BDL
Polychlorinated Biphenyls (PCBs) (EPA Method 8082/608)	Units ppm	**GBA-02-04** 6/15/10, 1300 hrs.	**PSA-01-3** 6/15/10, 1300 hrs.	**PSA-02-4** 6/15/10, 1300 hrs.
Total PCBs	mg/L	BDL	BDL	BDL

Notes:
BDL indicates parameter not detected above the laboratory method detection limit.
MDL -Method Detection Limit.
Samples colected on June 15, 2010 by Mr John Ewen of Innovative Recyling Technolgies, Inc.
Only compounds above the MDL were placed in the summary table

Table 1 (Part 2)
Summary of Soil Laboratory Results
Site Summary Report
Devon Self Storage Holdings (US), LLC
Devon Self Storage Facility
3131 Richmond Terrace, Staten Island New York
30-Jul-11

RCRA-8 Metals- Total Metals	**Units**	**Sample AC**	**Sample BC**	**Sample CC**	**NYSDEC Part 375**	**NYSDEC Part 375**
(EPA Methods 7470/7471 & 6010)	**mg/Kg**	**6/15/10, 1300 hrs.**	**6/15/10, 1300 hrs.**	**6/15/10, 1300 hrs.**	**Unrestricted SCOs**	**Commercial SCOs**
Mercury	ppm	**0.83**	**0.95**	**1.17**	0.18	2.8
Arsenic	ppm	BDL	BDL	7.1	13	16
Barium	ppm	129.0	99,2	52.3	350	400
Cadmium	ppm	**3.2**	2.5	0.6	2.5	9.3
Chromium	ppm	23.1	16.1	10.5	30	1500
Lead	ppm	**530.0**	**386.0**	**185.0**	63.0	1,000.0
Selenium	ppm	BDL	BDL	BDL	3.9	1,500.0
Silver	ppm	BDL	BDL	BDL	2.0	1,500.0

RCRA-8 Metals- TCLP Metals	**Units**	**Sample AC**	**Sample BC**	**Sample CC**	**49 CFR 261.24 Regulatory Level**
(EPA Methods 1311 7470/7471 & 6010)	**mg/L**	**6/15/10, 1300 hrs.**	**6/15/10, 1300 hrs.**	**6/15/10, 1300 hrs.**	**mg/L or ppm**
Mercury	ppm	0.00003	0.000058	0.00018	0.2
Arsenic	ppm	BDL	BDL	BDL	5.0
Barium	ppm	0.90	0.86	0.54	100
Cadmium	ppm	BDL	BDL	BDL	1.0
Chromium†	ppm	BDL	BDL	BDL	5
Lead	ppm	0.19	0.25	2.81	5.0
Selenium	ppm	BDL	BDL	BDL	1.0
Silver	ppm	BDL	BDL	BDL	5.0

Notes:

BDL indicates parameter not detected above the laboratory method detection limit.
MDL -Method Detection Limit.
Samples collected on June 15, 2010 by Mr. John Ewen of Innovative Recycling Technologies, Inc.
RCRA 8 Total Metals results are compared to the 6 NYCRR Part 375 , Table 375-6.8 (a) Unrestricted Soil Clean Up Objectives (SCOs)

and Table 375-6.8 (b) Restricted Use -Commercial- Soil Clean Up Objectives

RCRA 8 TCLP Metals results are compared to the 40 CFR 261.24 Regulatory Levels.

Results in BOLD/RED exceed SCOs for unrestricted use

No compounds were found to exceed the NYSDEC Commercial SCOs or the USEPA RCRA Regulatory Levels for the RCRA-8 metals. .

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

Laboratory Identifier: 1006255

Received: 6/15/2010 17:04
Sampled by: John Ewen

Client: Innovative Recycling Tech Inc

690 North Queens Ave
Lindenhurst,
NY 11757

Project: Devon Storage

3131 Richmond Ter.
Staten Island ,
NY

Manager: John Ewen

Respectfully submitted,

Technical Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. #002

The information contained in this report is confidential and intended only for the use of the client listed above. This report shall not be reproduced, except in full, without the written consent of Environmental Testing Laboratories, Inc. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Volatile Compounds - EPA 8260B

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	C3591-3319	0.0049	0.0049	mg/L	U
74-87-3	Chloromethane	C3591-3319	0.0051	0.0051	mg/L	U
75-01-4	Vinyl Chloride	C3591-3319	0.0043	0.0043	mg/L	U
74-83-9	Bromomethane	C3591-3319	0.0059	0.0059	mg/L	U
75-00-3	Chloroethane	C3591-3319	0.0094	0.0094	mg/L	U
75-69-4	Trichlorofluoromethane	C3591-3319	0.0052	0.0052	mg/L	U
75-35-4	1,1-Dichloroethene	C3591-3319	0.0037	0.0037	mg/L	U
75-09-2	Methylene Chloride	C3591-3319	0.0039	**0.10**	mg/L	
156-60-5	t-1,2-Dichloroethene	C3591-3319	0.0027	0.0027	mg/L	U
75-34-3	1,1-Dichloroethane	C3591-3319	0.0030	0.0030	mg/L	U
590-20-7	2,2-Dichloropropane	C3591-3319	0.0059	0.0059	mg/L	U
156-59-2	c-1,2-Dichloroethene	C3591-3319	0.0042	0.0042	mg/L	U
67-66-3	Chloroform	C3591-3319	0.0046	0.0046	mg/L	U
74-97-5	Bromochloromethane	C3591-3319	0.0053	0.0053	mg/L	U
71-55-6	1,1,1-Trichloroethane	C3591-3319	0.0052	0.0052	mg/L	U
563-58-6	1,1-Dichloropropene	C3591-3319	0.0036	0.0036	mg/L	U
56-23-5	Carbon Tetrachloride	C3591-3319	0.0044	0.0044	mg/L	U
107-06-2	1,2-Dichloroethane	C3591-3319	0.0050	0.0050	mg/L	U
71-43-2	Benzene	C3591-3319	0.0043	0.0043	mg/L	U
79-01-6	Trichloroethene	C3591-3319	0.0046	0.0046	mg/L	U
78-87-5	1,2-Dichloropropane	C3591-3319	0.0052	0.0052	mg/L	U
75-27-4	Bromodichloromethane	C3591-3319	0.0050	0.0050	mg/L	U
74-95-3	Dibromomethane	C3591-3319	0.0047	0.0047	mg/L	U
10061-01-5	c-1,3-Dichloropropene	C3591-3319	0.0052	0.0052	mg/L	U
108-88-3	Toluene	C3591-3319	0.0045	0.0045	mg/L	U
10061-02-6	t-1,3-Dichloropropene	C3591-3319	0.0037	0.0037	mg/L	U
79-00-5	1,1,2-Trichloroethane	C3591-3319	0.0051	0.0051	mg/L	U
142-28-9	1,3-Dichloropropane	C3591-3319	0.0046	0.0046	mg/L	U
127-18-4	Tetrachloroethene	C3591-3319	0.0059	0.0059	mg/L	U
124-48-1	Dibromochloromethane	C3591-3319	0.0043	0.0043	mg/L	U
106-93-4	1,2-Dibromoethane	C3591-3319	0.0047	0.0047	mg/L	U
108-90-7	Chlorobenzene	C3591-3319	0.0048	0.0048	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Volatile Compounds - EPA 8260B

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	C3591-3319	0.0042	0.0042	mg/L	U
100-41-4	Ethylbenzene	C3591-3319	0.0041	0.0041	mg/L	U
108-38-3	m,p-xylene	C3591-3319	0.0086	0.0086	mg/L	U
95-47-6	o-xylene	C3591-3319	0.0037	0.0037	mg/L	U
100-42-5	Styrene	C3591-3319	0.0039	0.0039	mg/L	U
98-82-8	Isopropylbenzene	C3591-3319	0.0044	0.0044	mg/L	U
75-25-2	Bromoform	C3591-3319	0.0037	0.0037	mg/L	U
79-34-5	1,1,2,2-Tetrachloroethane	C3591-3319	0.0046	0.0046	mg/L	U
96-18-4	1,2,3-Trichloropropane	C3591-3319	0.0054	0.0054	mg/L	U
103-65-1	n-Propylbenzene	C3591-3319	0.0041	0.0041	mg/L	U
108-86-1	Bromobenzene	C3591-3319	0.0037	0.0037	mg/L	U
108-67-8	1,3,5-Trimethylbenzene	C3591-3319	0.0043	0.0043	mg/L	U
95-49-8	2-Chlorotoluene	C3591-3319	0.0036	0.0036	mg/L	U
106-43-4	4-Chlorotoluene	C3591-3319	0.0052	0.0052	mg/L	U
99-87-6	4-Isopropyltoluene	C3591-3319	0.0034	0.0034	mg/L	U
95-63-6	1,2,4-Trimethylbenzene	C3591-3319	0.0044	0.0044	mg/L	U
135-98-8	sec-Butylbenzene	C3591-3319	0.0036	0.0036	mg/L	U
98-06-6	tert-Butylbenzene	C3591-3319	0.0044	0.0044	mg/L	U
541-73-1	1,3-Dichlorobenzene	C3591-3319	0.0038	0.0038	mg/L	U
106-46-7	1,4-Dichlorobenzene	C3591-3319	0.0040	0.0040	mg/L	U
104-51-8	n-Butylbenzene	C3591-3319	0.0043	0.0043	mg/L	U
95-50-1	1,2-Dichlorobenzene	C3591-3319	0.0049	0.0049	mg/L	U
96-12-8	1,2-Dibromo-3-chloropropane	C3591-3319	0.0028	0.0028	mg/L	U
120-82-1	1,2,4-Trichlorobenzene	C3591-3319	0.0045	0.0045	mg/L	U
87-68-3	Hexachlorobutadiene	C3591-3319	0.0054	0.0054	mg/L	U
91-20-3	Naphthalene	C3591-3319	0.0033	0.0033	mg/L	U
87-61-6	1,2,3-Trichlorobenzene	C3591-3319	0.0036	0.0036	mg/L	U
78-93-3	2-Butanone	C3591-3319	0.019	0.019	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Volatile Compounds - EPA 8260B

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	C3591-3319	79.4 %	(69 - 129)	
460-00-4	4-BROMOFLUOROBENZENE	C3591-3319	93.7 %	(86 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	C3591-3319	99.9 %	(82 - 114)	
2037-26-5	TOLUENE-D8	C3591-3319	95.8 %	(92 - 107)	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Volatile Compounds - EPA 8260B

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	C3591-3320	0.0049	0.0049	mg/L	U
74-87-3	Chloromethane	C3591-3320	0.0051	0.0051	mg/L	U
75-01-4	Vinyl Chloride	C3591-3320	0.0043	0.0043	mg/L	U
74-83-9	Bromomethane	C3591-3320	0.0059	0.0059	mg/L	U
75-00-3	Chloroethane	C3591-3320	0.0094	0.0094	mg/L	U
75-69-4	Trichlorofluoromethane	C3591-3320	0.0052	0.0052	mg/L	U
75-35-4	1,1-Dichloroethene	C3591-3320	0.0037	0.0037	mg/L	U
75-09-2	Methylene Chloride	C3591-3320	0.0039	0.0039	mg/L	U
156-60-5	t-1,2-Dichloroethene	C3591-3320	0.0027	0.0027	mg/L	U
75-34-3	1,1-Dichloroethane	C3591-3320	0.0030	0.0030	mg/L	U
590-20-7	2,2-Dichloropropane	C3591-3320	0.0059	0.0059	mg/L	U
156-59-2	c-1,2-Dichloroethene	C3591-3320	0.0042	0.0042	mg/L	U
67-66-3	Chloroform	C3591-3320	0.0046	0.0046	mg/L	U
74-97-5	Bromochloromethane	C3591-3320	0.0053	0.0053	mg/L	U
71-55-6	1,1,1-Trichloroethane	C3591-3320	0.0052	0.0052	mg/L	U
563-58-6	1,1-Dichloropropene	C3591-3320	0.0036	0.0036	mg/L	U
56-23-5	Carbon Tetrachloride	C3591-3320	0.0044	0.0044	mg/L	U
107-06-2	1,2-Dichloroethane	C3591-3320	0.0050	0.0050	mg/L	U
71-43-2	Benzene	C3591-3320	0.0043	0.0043	mg/L	U
79-01-6	Trichloroethene	C3591-3320	0.0046	0.0046	mg/L	U
78-87-5	1,2-Dichloropropane	C3591-3320	0.0052	0.0052	mg/L	U
75-27-4	Bromodichloromethane	C3591-3320	0.0050	0.0050	mg/L	U
74-95-3	Dibromomethane	C3591-3320	0.0047	0.0047	mg/L	U
10061-01-5	c-1,3-Dichloropropene	C3591-3320	0.0052	0.0052	mg/L	U
108-88-3	Toluene	C3591-3320	0.0045	0.0045	mg/L	U
10061-02-6	t-1,3-Dichloropropene	C3591-3320	0.0037	0.0037	mg/L	U
79-00-5	1,1,2-Trichloroethane	C3591-3320	0.0051	0.0051	mg/L	U
142-28-9	1,3-Dichloropropane	C3591-3320	0.0046	0.0046	mg/L	U
127-18-4	Tetrachloroethene	C3591-3320	0.0059	0.0059	mg/L	U
124-48-1	Dibromochloromethane	C3591-3320	0.0043	0.0043	mg/L	U
106-93-4	1,2-Dibromoethane	C3591-3320	0.0047	0.0047	mg/L	U
108-90-7	Chlorobenzene	C3591-3320	0.0048	0.0048	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Volatile Compounds - EPA 8260B

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	C3591-3320	0.0042	0.0042	mg/L	U
100-41-4	Ethylbenzene	C3591-3320	0.0041	0.0041	mg/L	U
108-38-3	m,p-xylene	C3591-3320	0.0086	0.0086	mg/L	U
95-47-6	o-xylene	C3591-3320	0.0037	0.0037	mg/L	U
100-42-5	Styrene	C3591-3320	0.0039	0.0039	mg/L	U
98-82-8	Isopropylbenzene	C3591-3320	0.0044	0.0044	mg/L	U
75-25-2	Bromoform	C3591-3320	0.0037	0.0037	mg/L	U
79-34-5	1,1,2,2-Tetrachloroethane	C3591-3320	0.0046	0.0046	mg/L	U
96-18-4	1,2,3-Trichloropropane	C3591-3320	0.0054	0.0054	mg/L	U
103-65-1	n-Propylbenzene	C3591-3320	0.0041	0.0041	mg/L	U
108-86-1	Bromobenzene	C3591-3320	0.0037	0.0037	mg/L	U
108-67-8	1,3,5-Trimethylbenzene	C3591-3320	0.0043	0.0043	mg/L	U
95-49-8	2-Chlorotoluene	C3591-3320	0.0036	0.0036	mg/L	U
106-43-4	4-Chlorotoluene	C3591-3320	0.0052	0.0052	mg/L	U
99-87-6	4-Isopropyltoluene	C3591-3320	0.0034	0.0034	mg/L	U
95-63-6	1,2,4-Trimethylbenzene	C3591-3320	0.0044	0.0044	mg/L	U
135-98-8	sec-Butylbenzene	C3591-3320	0.0036	0.0036	mg/L	U
98-06-6	tert-Butylbenzene	C3591-3320	0.0044	0.0044	mg/L	U
541-73-1	1,3-Dichlorobenzene	C3591-3320	0.0038	0.0038	mg/L	U
106-46-7	1,4-Dichlorobenzene	C3591-3320	0.0040	0.0040	mg/L	U
104-51-8	n-Butylbenzene	C3591-3320	0.0043	0.0043	mg/L	U
95-50-1	1,2-Dichlorobenzene	C3591-3320	0.0049	0.0049	mg/L	U
96-12-8	1,2-Dibromo-3-chloropropane	C3591-3320	0.0028	0.0028	mg/L	U
120-82-1	1,2,4-Trichlorobenzene	C3591-3320	0.0045	0.0045	mg/L	U
87-68-3	Hexachlorobutadiene	C3591-3320	0.0054	0.0054	mg/L	U
91-20-3	Naphthalene	C3591-3320	0.0033	0.0033	mg/L	U
87-61-6	1,2,3-Trichlorobenzene	C3591-3320	0.0036	0.0036	mg/L	U
78-93-3	2-Butanone	C3591-3320	0.019	0.019	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Volatile Compounds - EPA 8260B

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	C3591-3320	81.4 %	(69 - 129)	
460-00-4	4-BROMOFLUOROBENZENE	C3591-3320	93.3 %	(86 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	C3591-3320	101.0 %	(82 - 114)	
2037-26-5	TOLUENE-D8	C3591-3320	96.5 %	(92 - 107)	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Volatile Compounds - EPA 8260B

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	C3591-3321	0.0049	0.0049	mg/L	U
74-87-3	Chloromethane	C3591-3321	0.0051	0.0051	mg/L	U
75-01-4	Vinyl Chloride	C3591-3321	0.0043	0.0043	mg/L	U
74-83-9	Bromomethane	C3591-3321	0.0059	0.0059	mg/L	U
75-00-3	Chloroethane	C3591-3321	0.0094	0.0094	mg/L	U
75-69-4	Trichlorofluoromethane	C3591-3321	0.0052	0.0052	mg/L	U
75-35-4	1,1-Dichloroethene	C3591-3321	0.0037	0.0037	mg/L	U
75-09-2	Methylene Chloride	C3591-3321	0.0039	**0.029**	mg/L	J
156-60-5	t-1,2-Dichloroethene	C3591-3321	0.0027	0.0027	mg/L	U
75-34-3	1,1-Dichloroethane	C3591-3321	0.0030	0.0030	mg/L	U
590-20-7	2,2-Dichloropropane	C3591-3321	0.0059	0.0059	mg/L	U
156-59-2	c-1,2-Dichloroethene	C3591-3321	0.0042	0.0042	mg/L	U
67-66-3	Chloroform	C3591-3321	0.0046	0.0046	mg/L	U
74-97-5	Bromochloromethane	C3591-3321	0.0053	0.0053	mg/L	U
71-55-6	1,1,1-Trichloroethane	C3591-3321	0.0052	0.0052	mg/L	U
563-58-6	1,1-Dichloropropene	C3591-3321	0.0036	0.0036	mg/L	U
56-23-5	Carbon Tetrachloride	C3591-3321	0.0044	0.0044	mg/L	U
107-06-2	1,2-Dichloroethane	C3591-3321	0.0050	0.0050	mg/L	U
71-43-2	Benzene	C3591-3321	0.0043	0.0043	mg/L	U
79-01-6	Trichloroethene	C3591-3321	0.0046	0.0046	mg/L	U
78-87-5	1,2-Dichloropropane	C3591-3321	0.0052	0.0052	mg/L	U
75-27-4	Bromodichloromethane	C3591-3321	0.0050	0.0050	mg/L	U
74-95-3	Dibromomethane	C3591-3321	0.0047	0.0047	mg/L	U
10061-01-5	c-1,3-Dichloropropene	C3591-3321	0.0052	0.0052	mg/L	U
108-88-3	Toluene	C3591-3321	0.0045	0.0045	mg/L	U
10061-02-6	t-1,3-Dichloropropene	C3591-3321	0.0037	0.0037	mg/L	U
79-00-5	1,1,2-Trichloroethane	C3591-3321	0.0051	0.0051	mg/L	U
142-28-9	1,3-Dichloropropane	C3591-3321	0.0046	0.0046	mg/L	U
127-18-4	Tetrachloroethene	C3591-3321	0.0059	0.0059	mg/L	U
124-48-1	Dibromochloromethane	C3591-3321	0.0043	0.0043	mg/L	U
106-93-4	1,2-Dibromoethane	C3591-3321	0.0047	0.0047	mg/L	U
108-90-7	Chlorobenzene	C3591-3321	0.0048	0.0048	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Volatile Compounds - EPA 8260B

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	C3591-3321	0.0042	0.0042	mg/L	U
100-41-4	Ethylbenzene	C3591-3321	0.0041	0.0041	mg/L	U
108-38-3	m,p-xylene	C3591-3321	0.0086	0.0086	mg/L	U
95-47-6	o-xylene	C3591-3321	0.0037	0.0037	mg/L	U
100-42-5	Styrene	C3591-3321	0.0039	0.0039	mg/L	U
98-82-8	Isopropylbenzene	C3591-3321	0.0044	0.0044	mg/L	U
75-25-2	Bromoform	C3591-3321	0.0037	0.0037	mg/L	U
79-34-5	1,1,2,2-Tetrachloroethane	C3591-3321	0.0046	0.0046	mg/L	U
96-18-4	1,2,3-Trichloropropane	C3591-3321	0.0054	0.0054	mg/L	U
103-65-1	n-Propylbenzene	C3591-3321	0.0041	0.0041	mg/L	U
108-86-1	Bromobenzene	C3591-3321	0.0037	0.0037	mg/L	U
108-67-8	1,3,5-Trimethylbenzene	C3591-3321	0.0043	0.0043	mg/L	U
95-49-8	2-Chlorotoluene	C3591-3321	0.0036	0.0036	mg/L	U
106-43-4	4-Chlorotoluene	C3591-3321	0.0052	0.0052	mg/L	U
99-87-6	4-Isopropyltoluene	C3591-3321	0.0034	0.0034	mg/L	U
95-63-6	1,2,4-Trimethylbenzene	C3591-3321	0.0044	0.0044	mg/L	U
135-98-8	sec-Butylbenzene	C3591-3321	0.0036	0.0036	mg/L	U
98-06-6	tert-Butylbenzene	C3591-3321	0.0044	0.0044	mg/L	U
541-73-1	1,3-Dichlorobenzene	C3591-3321	0.0038	0.0038	mg/L	U
106-46-7	1,4-Dichlorobenzene	C3591-3321	0.0040	0.0040	mg/L	U
104-51-8	n-Butylbenzene	C3591-3321	0.0043	0.0043	mg/L	U
95-50-1	1,2-Dichlorobenzene	C3591-3321	0.0049	0.0049	mg/L	U
96-12-8	1,2-Dibromo-3-chloropropane	C3591-3321	0.0028	0.0028	mg/L	U
120-82-1	1,2,4-Trichlorobenzene	C3591-3321	0.0045	0.0045	mg/L	U
87-68-3	Hexachlorobutadiene	C3591-3321	0.0054	0.0054	mg/L	U
91-20-3	Naphthalene	C3591-3321	0.0033	0.0033	mg/L	U
87-61-6	1,2,3-Trichlorobenzene	C3591-3321	0.0036	0.0036	mg/L	U
78-93-3	2-Butanone	C3591-3321	0.019	0.019	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Volatile Compounds - EPA 8260B

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	C3591-3321	79.6 %	(69 - 129)	
460-00-4	4-BROMOFLUOROBENZENE	C3591-3321	93.9 %	(86 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	C3591-3321	100.0 %	(82 - 114)	
2037-26-5	TOLUENE-D8	C3591-3321	95.3 %	(92 - 107)	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Semivolatiles-Method 1311/8270C

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/18/2010
Preparation Date(s) : 6/16/2010 6/18/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
95-95-4	2,4,5-Trichlorophenol		0.0059	0.0059	mg/L	U
88-06-2	2,4,6-Trichlorophenol		0.0075	0.0075	mg/L	U
121-14-2	2,4-Dinitrotoluene		0.0062	0.0062	mg/L	U
106-46-7	1,4-Dichlorobenzene		0.0074	0.0074	mg/L	U
95-48-7	2-Methylphenol		0.0050	0.0050	mg/L	U
106-44-5	3+4-Methylphenol		0.0017	0.0017	mg/L	U
118-74-1	Hexachlorobenzene		0.0073	0.0073	mg/L	U
87-68-3	Hexachlorobutadiene		0.010	0.010	mg/L	U
67-72-1	Hexachloroethane		0.0099	0.0099	mg/L	U
98-95-3	Nitrobenzene		0.0091	0.0091	mg/L	U
87-86-5	Pentachlorophenol		0.0081	0.0081	mg/L	U
110-86-1	Pyridine		0.0037	0.0037	mg/L	U
	Cresols		0.0050	0.0050	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Semivolatiles-Method 1311/8270C

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/18/2010
Preparation Date(s) : 6/16/2010 6/18/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
95-95-4	2,4,5-Trichlorophenol		0.0059	0.0059	mg/L	U
88-06-2	2,4,6-Trichlorophenol		0.0075	0.0075	mg/L	U
121-14-2	2,4-Dinitrotoluene		0.0062	0.0062	mg/L	U
106-46-7	1,4-Dichlorobenzene		0.0074	0.0074	mg/L	U
95-48-7	2-Methylphenol		0.0050	0.0050	mg/L	U
106-44-5	3+4-Methylphenol		0.0017	0.0017	mg/L	U
118-74-1	Hexachlorobenzene		0.0073	0.0073	mg/L	U
87-68-3	Hexachlorobutadiene		0.010	0.010	mg/L	U
67-72-1	Hexachloroethane		0.0099	0.0099	mg/L	U
98-95-3	Nitrobenzene		0.0091	0.0091	mg/L	U
87-86-5	Pentachlorophenol		0.0081	0.0081	mg/L	U
110-86-1	Pyridine		0.0037	0.0037	mg/L	U
	Cresols		0.0050	0.0050	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Semivolatiles-Method 1311/8270C

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/18/2010
Preparation Date(s) : 6/16/2010 6/18/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
95-95-4	2,4,5-Trichlorophenol		0.0059	0.0059	mg/L	U
88-06-2	2,4,6-Trichlorophenol		0.0075	0.0075	mg/L	U
121-14-2	2,4-Dinitrotoluene		0.0062	0.0062	mg/L	U
106-46-7	1,4-Dichlorobenzene		0.0074	0.0074	mg/L	U
95-48-7	2-Methylphenol		0.0050	0.0050	mg/L	U
106-44-5	3+4-Methylphenol		0.0017	0.0017	mg/L	U
118-74-1	Hexachlorobenzene		0.0073	0.0073	mg/L	U
87-68-3	Hexachlorobutadiene		0.010	0.010	mg/L	U
67-72-1	Hexachloroethane		0.0099	0.0099	mg/L	U
98-95-3	Nitrobenzene		0.0091	0.0091	mg/L	U
87-86-5	Pentachlorophenol		0.0081	0.0081	mg/L	U
110-86-1	Pyridine		0.0037	0.0037	mg/L	U
	Cresols		0.0050	0.0050	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TPH - Method 8015B

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	C1267-12	13.4	**1380**	mg/Kg	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C1267-12	46.2 %	(30 - 150)	

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	C1267-13	13.7	**609**	mg/Kg	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C1267-13	55.6 %	(30 - 150)	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TPH - Method 8015B

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	C1267-14	13.5	**1200**	mg/Kg	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C1267-14	52.0 %	(30 - 150)	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

Gasoline Range Organics - EPA 8015B

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A754-5	15.4	15.4	mg/Kg	U

* Results are reported on a dry weight basis

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A754-6	15.8	15.8	mg/Kg	U

* Results are reported on a dry weight basis

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A754-7	15.6	15.6	mg/Kg	U

* Results are reported on a dry weight basis

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

PCB Aroclors by SW846 8082/EPA 608

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
12674-11-2	PCB 1016	K1020-7	0.018	0.018	mg/Kg	U
11104-28-2	PCB 1221	K1020-7	0.018	0.018	mg/Kg	U
11141-16-5	PCB 1232	K1020-7	0.018	0.018	mg/Kg	U
53469-21-9	PCB 1242	K1020-7	0.018	0.018	mg/Kg	U
12672-29-6	PCB 1248	K1020-7	0.018	0.018	mg/Kg	U
11097-69-1	PCB 1254	K1020-7	0.018	0.018	mg/Kg	U
11096-82-5	PCB 1260	K1020-7	0.012	0.012	mg/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	K1020-7	48.4 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	K1020-7	80.5 %	(30 - 150)	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

PCB Aroclors by SW846 8082/EPA 608

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
12674-11-2	PCB 1016	K1020-8	0.018	0.018	mg/Kg	U
11104-28-2	PCB 1221	K1020-8	0.018	0.018	mg/Kg	U
11141-16-5	PCB 1232	K1020-8	0.018	0.018	mg/Kg	U
53469-21-9	PCB 1242	K1020-8	0.018	0.018	mg/Kg	U
12672-29-6	PCB 1248	K1020-8	0.018	0.018	mg/Kg	U
11097-69-1	PCB 1254	K1020-8	0.018	0.018	mg/Kg	U
11096-82-5	PCB 1260	K1020-8	0.013	0.013	mg/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	K1020-8	41.2 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	K1020-8	69.3 %	(30 - 150)	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

PCB Aroclors by SW846 8082/EPA 608

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
12674-11-2	PCB 1016	K1020-9	0.018	0.018	mg/Kg	U
11104-28-2	PCB 1221	K1020-9	0.018	0.018	mg/Kg	U
11141-16-5	PCB 1232	K1020-9	0.018	0.018	mg/Kg	U
53469-21-9	PCB 1242	K1020-9	0.018	0.018	mg/Kg	U
12672-29-6	PCB 1248	K1020-9	0.018	0.018	mg/Kg	U
11097-69-1	PCB 1254	K1020-9	0.018	0.018	mg/Kg	U
11096-82-5	PCB 1260	K1020-9	0.013	0.013	mg/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	K1020-9	33.2 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	K1020-9	81.6 %	(30 - 150)	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

Mercury by SW846 7470/7471/EPA 245.1

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/18/2010
Preparation Date(s) : 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-97-6	Mercury	0.016	**0.83**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/18/2010
Preparation Date(s) : 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-97-6	Mercury	0.016	**0.95**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/18/2010
Preparation Date(s) : 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-97-6	Mercury	0.016	**1.17**	mg/Kg	

* Results are reported on a dry weight basis

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

RCRA Metals by Method SW846 6010/EPA 200.7

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/18/2010
Preparation Date(s) : 6/17/2010 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7440-38-2	Arsenic	0.80	0.80	mg/Kg	U
7440-39-3	Barium	0.34	**129**	mg/Kg	
7440-43-9	Cadmium	0.27	**3.21**	mg/Kg	
7440-47-3	Chromium	0.21	**23.1**	mg/Kg	
7439-92-1	Lead	0.41	**530**	mg/Kg	
7782-49-2	Selenium	0.67	0.67	mg/Kg	U
7440-22-4	Silver	0.31	0.31	mg/Kg	U

* Results are reported on a dry weight basis

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/18/2010
Preparation Date(s) : 6/17/2010 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7440-38-2	Arsenic	0.84	0.84	mg/Kg	U
7440-39-3	Barium	0.36	**99.2**	mg/Kg	
7440-43-9	Cadmium	0.29	**2.54**	mg/Kg	
7440-47-3	Chromium	0.22	**16.1**	mg/Kg	
7439-92-1	Lead	0.43	**386**	mg/Kg	
7782-49-2	Selenium	0.70	0.70	mg/Kg	U
7440-22-4	Silver	0.32	0.32	mg/Kg	U

* Results are reported on a dry weight basis

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

RCRA Metals by Method SW846 6010/EPA 200.7

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/18/2010
Preparation Date(s) : 6/17/2010 6/17/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7440-38-2	Arsenic	0.83	**7.11**	mg/Kg	
7440-39-3	Barium	0.35	**52.3**	mg/Kg	
7440-43-9	Cadmium	0.28	**0.58**	mg/Kg	
7440-47-3	Chromium	0.22	**10.5**	mg/Kg	
7439-92-1	Lead	0.42	**165**	mg/Kg	
7782-49-2	Selenium	0.69	0.69	mg/Kg	U
7440-22-4	Silver	0.32	0.32	mg/Kg	U

* Results are reported on a dry weight basis

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Mercury-Method SW846 1311/7470/7471

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.000020	**0.000030**	mg/L	

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.000020	**0.000058**	mg/L	

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.000020	**0.00018**	mg/L	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Metals-Method SW846 1311/6010

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010 6/17/2010 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.030	0.030	mg/L	U
7440-39-3	Barium	0.0040	**0.90**	mg/L	
7440-43-9	Cadmium	0.0030	0.0030	mg/L	U
7440-47-3	Chromium	0.016	0.016	mg/L	U
7439-92-1	Lead	0.019	**0.19**	mg/L	
7782-49-2	Selenium	0.070	0.070	mg/L	U
7440-22-4	Silver	0.010	0.010	mg/L	U

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010 6/17/2010 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.030	0.030	mg/L	U
7440-39-3	Barium	0.0040	**0.86**	mg/L	
7440-43-9	Cadmium	0.0030	0.0030	mg/L	U
7440-47-3	Chromium	0.016	0.016	mg/L	U
7439-92-1	Lead	0.019	**0.25**	mg/L	
7782-49-2	Selenium	0.070	0.070	mg/L	U
7440-22-4	Silver	0.010	0.010	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

TCLP Metals-Method SW846 1311/6010

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/17/2010
Preparation Date(s) : 6/17/2010 6/17/2010 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.030	0.030	mg/L	U
7440-39-3	Barium	0.0040	**0.54**	mg/L	
7440-43-9	Cadmium	0.0030	0.0030	mg/L	U
7440-47-3	Chromium	0.016	0.016	mg/L	U
7439-92-1	Lead	0.019	**2.81**	mg/L	
7782-49-2	Selenium	0.070	0.070	mg/L	U
7440-22-4	Silver	0.010	0.010	mg/L	U

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

Flash Point (Ignitability) - SW 846 1010

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	MDL	Result*	Units	Q
	Flash Point	0	>100	°C	

* Results are reported on a dry weight basis

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	MDL	Result*	Units	Q
	Flash Point	0	>100	°C	

* Results are reported on a dry weight basis

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	MDL	Result*	Units	Q
	Flash Point	0	>100	°C	

* Results are reported on a dry weight basis

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

Free Liquids - EPA 9095A

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	MDL	Result*	Units	Q
	Free Liquids	0	Negative	%	

* Results are reported on a dry weight basis

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	MDL	Result*	Units	Q
	Free Liquids	0	Negative	%	

* Results are reported on a dry weight basis

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	MDL	Result*	Units	Q
	Free Liquids	0	Negative	%	

* Results are reported on a dry weight basis

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

pH - Soil @ 25 Degrees C - SW 846 9045C

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	pH	0	**8.51**	pH Units	

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	pH	0	**8.80**	pH Units	

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
	pH	0	**8.29**	pH Units	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

Reactivity -SW 846 9010

Sample: 1006255-1
Client Sample ID: AC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 89.8%

Analytical Results

Cas No	Analyte	MDL	Result*	Units	Q
	Releasable Cyanide	0.10	0.10	mg/Kg	U
	Releasable H2 Sulfide	0.010	0.010	mg/Kg	U

* Results are reported on a dry weight basis

Sample: 1006255-2
Client Sample ID: BC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 87.4%

Analytical Results

Cas No	Analyte	MDL	Result*	Units	Q
	Releasable Cyanide	0.10	0.10	mg/Kg	U
	Releasable H2 Sulfide	0.010	0.010	mg/Kg	U

* Results are reported on a dry weight basis

Sample: 1006255-3
Client Sample ID: CC
Matrix: Soil
Remarks:
Analyzed Date: 6/16/2010

Type: Composite

Collected: 6/15/2010 13:00
% Solid: 88.7%

Analytical Results

Cas No	Analyte	MDL	Result*	Units	Q
	Releasable Cyanide	0.10	0.10	mg/Kg	U
	Releasable H2 Sulfide	0.010	0.010	mg/Kg	U

* Results are reported on a dry weight basis

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

6/18/2010

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is not detected above the Method Detection Limit (MDL). All MDL's are lower than the lowest calibration standard concentration.

J - Indicates an estimated value. The concentration reported was between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag indicates a system monitoring compound diluted out.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Method Detection Limit (MDL).

U - Entered when the analyte was analyzed for, but not detected above the Method Detection Limit (MDL) which is less than the lowest calibration standard concentration.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA
AS - Semi-automated Spectrophotometric
AV - Automated Cold Vapor AA
C - Manual Spectrophotometric
F - Furnace AA
P - ICP
T - Titrimetric

OTHER QUALIFIERS

ND - Not Detected

Appendix C

Complaint 2008

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Overview for Complaint #:5074543 = RESOLVED

Complaint at: **3131 RICHMOND TERRACE** **BIN:** **5027380** **Borough:** **STATEN ISLAND** **ZIP:** **10303**

Re: CLR STS FENCE INADEQUATE ABOVE LOCATION CLR STS WIND BLOWING AND PIECES ARE FALLING

Category Code: 15 FENCE - NONE/INADEQUATE/ILLEGAL

DOB District: N/A
Special District:

Assigned To: STATEN ISLAND BOROUGH OFFICE **Priority:** B

Received: 09/25/2008 20:31 **Block:** 1208 **Lot:** 10 **Community Board:** 501
Owner: DEVON/STATEN ISLAND LLC

Last Inspection: 09/30/2008 - - BY BADGE # 2289
Disposition: 10/01/2008 - I2 - NO VIOLATION WARRANTED FOR COMPLAINT AT TIME OF INSPECTION
Comments: FENCE IS NOT DOWN - FENCE IS STABLE ALL STEADY

Complaint Disposition History

Disposition Date	Disposition Code	Disposition	Inspection By	Date

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

Demolition Permit

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Application Details

Premises: 3131 RICHMOND TERRACE STATEN ISLAND
BIN: 5027380 Block: 1208 Lot: 10

Job No: 500914754
Document: 01 OF 1
Job Type: DM - FULL DEMOLITION

Document Overview	Items Required	Virtual Job Folder	All Permits	Schedule A	Schedule B
Fees Paid	Forms Received		All Comments	C/O Summary	Plumbing Inspections
Crane Information	Plan Examination				
After Hours Variance Permits					

This job is not subject to the Department's Development Challenge Process. For any issues, please contact the relevant borough office.

Last Action: SIGNED OFF 10/21/2008 (X)
Application approved on: 05/01/2008

Pre-Filed: 03/12/2008 **Building Type:** Other **Estimated Total Cost:** $0.00
Date Filed: 05/01/2008 **Fee Structure:** STANDARD **Filing Method:** PAPER
Review is requested under Building Code: 1968

Job Description Comments

1 Location Information (Filed At)
House No(s): 3131 **Street Name:** RICHMOND TERRACE
Borough: Staten Island **Block:** 1208 **Lot:** 10 **BIN:** 5027380 **CB No:** 501
Work on Floor(s): OSP **Apt/Condo No(s):**

2 Applicant of Record Information
Name: JEREMY GAETA
Business Name: STOKES DEMOLITION CORP **Business Phone:** 718-720-7220
Business Address: 1540 RICHMOND.TERRACE SI NY 10310 **Business Fax:** 718-720-3025
E-Mail: **Mobile Telephone:**
License Number: 20658
Applicant Type: ☐ P.E. ☐ R.A ☐ Sign Hanger ☒ Other - DEMO CONTRACTOR

Directive 14 Applicant
Not Applicable
Previous Applicant of Record
Not Applicable

3 Filing Representative
Name: DONNA TALIENTO
Business Name: NA **Business Phone:** 718-987-4632
Business Address: 54 SOUTH RAILROAD AVE SI NY 10305 **Business Fax:**
E-Mail: **Mobile Telephone:**
Registration Number: T21368

4 Filing Status
Click Here to View

5 Job Types

☐ **Alteration Type 1** ☐ **New Building**
- ☐ Change in Exits/Egress
- ☐ Change in Number of Stories ☐ **Alteration Type 2** ☒ **Full Demolition**
- ☐ Change in Number of Dwelling Units ☐ **Alteration Type 3** ☐ **Subdivision: Improved**
- ☐ Change in Room Count / Dwelling Units ☐ **Sign** ☐ **Subdivision: Condo**
- ☐ Change in Occupancy / Use
- ☐ Change inconsistent with current Cert. of Occup.

☐ **Alteration Type 1, OT "No Work"** **Directive 14 acceptance requested?** ☐ Yes ☒ No

6 Work Types

☐ **BL - Boiler** ☐ **FA - Fire Alarm** ☐ **FB - Fuel Burning** ☐ **FS - Fuel Storage**
☐ **FP - Fire Suppression** ☐ **MH - Mechanical** ☐ **PL - Plumbing** ☐ **SD - Standpipe**
☐ **SP - Sprinkler** ☒ **EQ - Construction Equipment** ☐ **CC - Curb Cut**
☐ **OT - Other**

7 Plans/Construction Documents Submitted

Plans Page Count: Not Provided

8 Additional Information

Enlargement proposed?

☒ No ☐ Yes ☐ Horizontal ☐ Vertical

Street Frontage: 283 linear ft.

9 Additional Considerations, Limitations or Restrictions

Yes	No		
☐	☐	**Structural peer review required per BC §1627**	**Peer Reviewer License No.(P.E.):**
☐	☒	**Filed to Comply with Local Law**	**Local Law No./Year:**
☐	☒	**Other, Specify:**	
☐	☒	**Restrictive Declaration / Easement**	
☐	☒	**Zoning Exhibit Record (I,II,III,etc)**	
☐	☒	**Landmark**	
☐	☐	**Filed to Address Violation(s)**	
☐	☒	**Legalization**	
☐	☒	**"Little E" Hazmat Site**	
☐	☒	**Unmapped Street**	
☐	☒	**Adult Establishment**	
☐	☒	**Compensated Development (Inclusionary Housing)**	
☐	☒	**Low Income Housing (Inclusionary Housing)**	
☐	☒	**Single Room Occupancy (SRO) Multiple Dwelling**	
☐	☒	**Filing includes Lot Merger / Reapportionment (If Yes,17)**	
☐	☐	**Includes permanent removal of standpipe, sprinkler or fire suppression related systems**	
☐	☐	**Work includes partial demolition as defined in AC §28-101.5**	
☐	☒	**Structural Stability affected by proposed work**	
☐	☐	**Work includes lighting fixture and/or controls, installation or replacement. [§ECC 404 and 505]**	
☐	☒	**Site Safety Job / Project**	

Yes	No	
☐	☒	**Included in LMCCC**
☐	☒	**Infill Zoning**
☐	☒	**Loft Board**
☐	☒	**Quality Housing**

BSA Calendar No.(s):

CPC Calendar No.(s):

10 NYCECC Compliance ***New York City Energy Conservation Code*** **(Applicant Statement)**

Not Provided

11 Job Description

DEMOLITION

Related BIS Job Numbers:

Primary application Job Number:

12 Zoning Characteristics

District(s): M3-1 - HEAVY MANUFACTURING DISTRICT (LOW PERFORMANCE)

Overlay(s):

Special District(s):

Map No.: 20c **Street legal width (ft.):** 60 **Street status:** ☒ Public ☐ Private

Zoning lot includes the following tax lots: Not Provided

13 Building Characteristics

	Existing	2008 Code Designations?
Occupancy Classification:	D-2 - INDUSTRIAL (LOW HAZARD)	☐ Yes ☒ No
Construction Classification:	3: NON-FIREPROOF STRUCTURES	☐ Yes ☒ No
Multiple Dwelling Classification:		
Building Height (ft.):	59	
Building Stories:	3	
Dwelling Units:	0	

Mixed use building? ☐ **Yes** ☐ **No**

14 Fill

☐ **Not Applicable** ☒ **Off-Site** ☐ **On-Site** ☐ **Under 300 cubic yards**

15 Construction Equipment

☐ **Chute** ☐ **Sidewalk Shed** **Construction Material:** WOOD

☒ **Fence** **Size:** linear ft. **BSA/MEA Approval No.:**

☐ **Supported Scaffold** ☐ **Other**

16 Curb Cut Description

Not Applicable

17 Tax Lot Characteristics

Not Provided

18 Fire Protection Equipment

Not Applicable

19 Open Spaces

20 Site Characteristics

Not Provided

21 Demolition Details

Pre-Demolition Inspection: PASSED on 05/30/2008

Yes	No	
☐	☒	**Demolishing a secondary structure? Specify:**
☐	☐	**Mechanical means from out of building?** ☐ entire structure or ☒ part of structure
☐	☐	**Mechanical means from within building? Describe equipment proposed:**
☐	☐	**Demolition work affects the exterior building envelope**

22 Asbestos Abatement Compliance

☐ **The scope of work requires related asbestos abatement as defined in the regulations of the NYC Department of Environmental Protection (DEP).**

☐ **The scope of work does not require related asbestos abatement as defined in the regulations of the NYC DEP.**

☐ **The scope of work is exempt from the asbestos requirement as defined in the regulations promulgated by the NYC DEP (15 RCNY 1-23(b)).**

23 Signs

Not Applicable

24 Comments

Comments for Document 01
BEST 5/30/08 MECHANICAL DEMOLITION APPROVED.

25 Applicant's Statements and Signatures **(See paper form or check Forms Received)**

Yes	No	
☐	☐	**For New Building and Alteration 1 applications filed under the 2008 NYC Building Code only: does this building qualify for high-rise designation?**
☐	☐	**Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exits, or occupancy.**

26 Owner's Information

Name: JEFFREY HUMPHREY
Relationship to Owner: MANAGING MEMEBE
Business Name: DEVON/STATEN ISLAND LLC
Business Phone: 510-450-1300
Business Address: 2000 POWELL STREET_SUITE 1240 EMERYVILLE CA 94608
Business Fax:
E-Mail:
Owner Type: CORPORATION
Non Profit: ☐ Yes ☒ No

Yes	No	
☐	☐	**Owner's Certification Regarding Occupied Housing (Remain Occupied)**
☐	N	**Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)**
☐	N	**Owner DHCR Notification**
☐	N	**Owner's Certification for Adult Establishment**
☐	☐	**Owner's Certification for Directive 14 (if applicable)**

Condo / Co-Op or Corporation Second Officer

Name: KELLY GALLACHER
Title: OWNER
Business Name: NA
Business Phone: 510-450-1300
Business Address: 200 POWELL STREET_SUITE 1240 EMERYVILLE CA 94608
Business Fax: 510-450-1325
E-Mail: GALLACHERK@AOL.COM

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

Construction Permit Completion

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Application Details

JUMP TO: Doc 1 Go

Premises: 3131 RICHMOND TERRACE STATEN ISLAND
BIN: 5027380 Block: 1208 Lot: 10

Job No: 510046120
Document: 01 OF 3
Job Type: A1 - ALTERATION TYPE 1

Document Overview	Items Required	Virtual Job Folder	All Permits	Schedule A	Schedule B
Fees Paid	Forms Received		All Comments	C/O Summary	Plumbing Inspections
Crane Information	Plan Examination			C/O Preview	
After Hours Variance Permits					

This job is not subject to the Department's Development Challenge Process. For any issues, please contact the relevant borough office.

Last Action: PERMIT ISSUED - ENTIRE JOB/WORK 11/15/2010 (R)
Application approved on: 07/29/2008

Pre-Filed: 06/25/2008 **Building Type:** Other **Estimated Total Cost:** $300,000.00
Date Filed: 06/25/2008 **Fee Structure:** STANDARD **Filing Method:** PAPER
Review is requested under Building Code: 1968

Job Description Comments

1 Location Information (Filed At)
House No(s): 3131 **Street Name:** RICHMOND TERRACE
Borough: Staten Island **Block:** 1208 **Lot:** 10 **BIN:** 5027380 **CB No:** 501
Work on Floor(s): 001,002,003,004 **Apt/Condo No(s):**

2 Applicant of Record Information
Name: PAUL REMUS
Business Name: RM ARCH INC **Business Phone:** 856-661-1302
Business Address: 725 KENILWORTH AVE CHERRY HILL NJ 08002 **Business Fax:**
E-Mail: **Mobile Telephone:**
License Number: 012406

Applicant Type: ☐ P.E. ☒ R.A ☐ Sign Hanger ☐ Other

Directive 14 Applicant
Not Applicable
Previous Applicant of Record
Not Applicable

3 Filing Representative
Name: JOHN BUDAY
Business Name: BUDAY & SCHUSTER ARCH LLP **Business Phone:** 718-979-5700
Business Address: 98 LINCOLN AVE SI NY 10306 **Business Fax:**
E-Mail: **Mobile Telephone:**
Registration Number: B21698

4 Filing Status

Click Here to View

5 Job Types

- [X] **Alteration Type 1**
  - [ ] Change in Exits/Egress
  - [ ] Change in Number of Stories
  - [ ] Change in Number of Dwelling Units
  - [ ] Change in Room Count / Dwelling Units
  - [X] Change in Occupancy / Use
  - [ ] Change inconsistent with current Cert. of Occup.
- [ ] **New Building**
- [ ] **Alteration Type 2**
- [ ] **Alteration Type 3**
- [ ] **Sign**
- [ ] **Full Demolition**
- [ ] **Subdivision: Improved**
- [ ] **Subdivision: Condo**
- [ ] **Alteration Type 1, OT "No Work"**

Directive 14 acceptance requested? [ ] Yes [X] No

6 Work Types

- [ ] **BL - Boiler**
- [ ] **FA - Fire Alarm**
- [ ] **FB - Fuel Burning**
- [ ] **FS - Fuel Storage**
- [ ] **FP - Fire Suppression**
- [X] **MH - Mechanical**
- [X] **PL - Plumbing**
- [ ] **SD - Standpipe**
- [ ] **SP - Sprinkler**
- [X] **EQ - Construction Equipment**
- [X] **CC - Curb Cut**
- [X] **OT -** GC

7 Plans/Construction Documents Submitted

Plans Page Count: Not Provided

8 Additional Information

Enlargement proposed?

[ ] No [X] Yes [X] Horizontal [ ] Vertical

Additional Construction Floor area: 105,232 sq.ft.

9 Additional Considerations, Limitations or Restrictions

Yes	No	
[ ]	[ ]	**Structural peer review required per BC §1627**
[ ]	[N]	**Filed to Comply with Local Law**
[ ]	[N]	**Other, Specify:**
[ ]	[N]	**Restrictive Declaration / Easement**
[ ]	[N]	**Zoning Exhibit Record (I,II,III,etc)**
[ ]	[N]	**Landmark**
[ ]	[ ]	**Filed to Address Violation(s)**
[ ]	[N]	**Legalization**
[ ]	[N]	**"Little E" Hazmat Site**
[ ]	[N]	**Unmapped Street**
[ ]	[N]	**Adult Establishment**
[ ]	[N]	**Compensated Development (Inclusionary Housing)**
[ ]	[N]	**Low Income Housing (Inclusionary Housing)**
[ ]	[N]	**Single Room Occupancy (SRO) Multiple Dwelling**
[ ]	[N]	**Filing includes Lot Merger / Reapportionment (If Yes,17)**
[ ]	[ ]	**Includes permanent removal of standpipe, sprinkler or fire suppression related systems**
[ ]	[ ]	**Work includes partial demolition as defined in AC §28-101.5**
[ ]	[N]	**Structural Stability affected by proposed work**
[ ]	[ ]	**Work includes lighting fixture and/or controls, installation or replacement. [§ECC 404 and 505]**
[ ]	[N]	**Site Safety Job / Project**

Peer Reviewer License No.(P.E.):

Local Law No./Year:

Yes	No	
[ ]	[N]	**Included in LMCCC**
[ ]	[N]	**Infill Zoning**
[ ]	[N]	**Loft Board**
[ ]	[N]	**Quality Housing**

BSA Calendar No.(s):

CPC Calendar No.(s):

10 NYCECC Compliance ***New York City Energy Conservation Code*** **(Applicant Statement)**

[X] **To the best of my knowledge, belief and professional judgment, this application is in compliance with the NYCECC.**

- [ ] **Energy analysis is on another job number:**

Yes	No	
[ ]	[ ]	**This application is, or is part of, a project that utilizes trade-offs among different major systems**
[ ]	[ ]	**This application utilizes trade-offs within a single major system**

[ ] **To the best of my knowledge, belief and professional judgment, all work under this application is exempt from the NYCECC in accordance with one of the following:**

- [ ] **The work is an alteration of State or National historic building.**

☐ **The scope of work is entirely in a low-energy building and is limited to the building envelope.**
☐ **The scope of work does not affect the energy use of the building.**
☐ **This is a post-approval amendment and exempt under a prior edition of the energy code.**

11 Job Description

ERECT A FOUR (4) STORY EXTENSION TO AN EXISTING TWO STORY BUILDING. INSTALL NE W PLUMBING LINES AND FIXTURES. INSTALL NEW HVAC UNITS AND DUCT WORK. ALL AS PE R PLANS HEREWITH SUBMITTED.

Related BIS Job Numbers:

Primary application Job Number:

12 Zoning Characteristics

District(s): M3-1 - HEAVY MANUFACTURING DISTRICT (LOW PERFORMANCE)

Overlay(s):

Special District(s):

Map No.: 20c **Street legal width (ft.):** 100 **Street status:** ☒ Public ☐ Private

Zoning lot includes the following tax lots: Not Provided

Proposed: Use	Zoning Area (sq.ft.)	District	FAR
Proposed Totals:	141,476	--	
Existing Total:	36,244	--	--

Proposed Lot Details: **Lot Type:** ☐ Corner ☐ Interior ☐ Through
Lot Coverage (%): **Lot Area (sq.ft.):** **Lot Width (ft.):**

Proposed Yard Details: ☐ No Yards **Or**
Front Yard (ft.): **Rear Yard (ft.):** **Rear Yard Equivalent (ft.):**
Side Yard 1 (ft.): **Side Yard 2 (ft.):**

Proposed Other Details: **Perimeter Wall Height (ft.):**
Enclosed Parking? ☐ Yes ☐ No **No. of parking spaces:**

13 Building Characteristics

		2008 Code Designations?
Occupancy Classification: Existing:	COM - COMMERCIAL BUILDINGS - OLD CODE	☐ Yes ☒ No
Proposed:	B-1 - STORAGE (MODERATE HAZARD)	☐ Yes ☒ No
Construction Classification: Existing:	I-E: UNPROTECTED	☐ Yes ☒ No
Proposed:	I-C: 2 HOUR PROTECTED	☐ Yes ☒ No
Multiple Dwelling Classification: Existing:		
Proposed:		
Building Height (ft.): Existing:	35	
Proposed:	47	
Building Stories: Existing:	2	
Proposed:	4	
Dwelling Units: Existing:	0	
Proposed:	0	

Building was originally erected pursuant to which Building Code: ☐ **2008** ☐ **1968** ☐ **Prior to 1968**
Building will fully comply with which Code with this Certificate of Occupancy: ☐ **2008** ☐ **1968** ☐ **Prior to 1968**
Mixed use building? ☐ **Yes** ☐ **No**

14 Fill

☐ **Not Applicable** ☐ **Off-Site** ☐ **On-Site** ☒ **Under 300 cubic yards**

15 Construction Equipment

☐ **Chute** ☐ **Sidewalk Shed** **Construction Material:** WOOD
☒ **Fence** **Size:** linear ft. **BSA/MEA Approval No.:**
☐ **Supported Scaffold** ☐ **Other**

16 Curb Cut Description

Size of cut (with splays): 15 ft. **Distant from nearest corner:** 1110 ft. **on street:**

17 Tax Lot Characteristics

Not Provided

18 Fire Protection Equipment

	Existing Yes	Existing No	Proposed Yes	Proposed No		Existing Yes	Existing No	Proposed Yes	Proposed No
Fire Alarm	☐	☒	☐	☒	Sprinkler	☐	☒	☐	☒
Fire Suppression	☐	☒	☐	☒	Standpipe	☐	☒	☐	☒

19 Open Spaces

	Existing	Proposed		Existing	Proposed
Plaza Area (sq.ft.):			Arcade Area (sq.ft.):		
Parking Area (sq.ft.):	0	1,000	Parking Spaces (no.):	0	5
Loading Berths (sq.ft.):	2,640	660	Loading Berths (no.):	4	1

20 Site Characteristics

Yes	No		Yes	No	
☐	☒	Tidal / Fresh Water Wetlands	☒	☐	Fire District
☐	☒	Urban Renewal	☐	☒	Flood Hazard Area

21 Demolition Details

Not Applicable

22 Asbestos Abatement Compliance

- ☐ **The scope of work requires related asbestos abatement as defined in the regulations of the NYC Department of Environmental Protection (DEP).**
- ☐ **The scope of work does not require related asbestos abatement as defined in the regulations of the NYC DEP.**
- ☐ **The scope of work is exempt from the asbestos requirement as defined in the regulations promulgated by the NYC DEP (15 RCNY 1-23(b)).**

23 Signs

Not Applicable

24 Comments

25 Applicant's Statements and Signatures **(See paper form or check Forms Received)**

Yes	No	
☐	☐	**For New Building and Alteration 1 applications filed under the 2008 NYC Building Code only: does this building qualify for high-rise designation?**
☐	☐	**Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exits, or occupancy.**

26 Owner's Information

Name: MARK BAINES
Relationship to Owner: DIV. MAN
Business Name: DEVON SELF STORAGE,.LLC
Business Phone: 401-345-9469
Business Address: 3131 RICHMOND TERR SI NY 10303
Business Fax:
E-Mail:
Owner Type: CORPORATION
Non Profit: ☐ Yes ☒ No

Yes	No	
☐	☐	**Owner's Certification Regarding Occupied Housing (Remain Occupied)**
☐	N	**Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)**
☐	N	**Owner DHCR Notification**
☐	N	**Owner's Certification for Adult Establishment**
☐	☐	**Owner's Certification for Directive 14 (if applicable)**

Condo / Co-Op or Corporation Second Officer

Name: JERED DUKE
Title:
Business Name: CONSTR. DIR.
Business Phone: 317-679-9000
Business Address: 3131 RICHMOND TERR SI NY 10303
Business Fax:
E-Mail:

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

Appendix D

GreenBar Inc.

Safety and Health Program

GreenBar, Inc, Inc.
Table of Contents

	Page
Safety and Health Policy Statement	1
Safety Education and Training Program	2
Safety and Health Communication	5
OSHA Recordkeeping and Posting Requirements	8
Self-Inspection Checklists	16
Safety Inspection Checklist	31
Hazard Identification and Communication	35
MSDS Responsibilities	37
Employee Safety Handbook	42
Personal Protective Equipment	54
Machinery Tag Out Program	56
Hazard Prevention and Control	60
Liability Report Form	61
Emergency Action Plan	62
Hazardous Material Spill Response	71
Bloodborne Pathogens	73
Fall Protection Plan	78
Safety Harness Inspection Report	87
First Aid and Medical Treatment	88
CPR (Cardiopulmonary Resuscitation)	91
Noise and Hearing Conservation Program	95
Housekeeping and Material Storage	106
Ladder Safety	111
Laser Safety	118
Personal Protective Equipment Program	130
Hazard Assessment Form / Certification of Hazard Assessment	145
Respiratory Protection Program	146
Respirator Training Certification	159
Fit Test Worksheets	160
Roof Labor Safety	162
Scaffold Safety Program	166
Tool Box Talks / Work Group Safety Meetings	171
Welding and Metal Fabrication	173
Workplace Violence Policy	182
Vehicle Operation	186

Safety and Health Program Manual
Review & Updates

DATE:

DESCRIPTION: Manual review

SIGNATURE:

DATE:

DESCRIPTION:

SIGNATURE:

DATE:

DESCRIPTION:

SIGNATURE:

DATE:

DESCRIPTION:

SIGNATURE:

DATE:

DESCRIPTION:

SIGNATURE:

DATE:

DESCRIPTION:

GreenBar, Inc.
Safety and Health Policy Statement

We are dedicated to providing a safe and healthful environment for employees and customers, protecting the public, and preserving GreenBar, Inc. assets and property.

At GreenBar, Inc. our most valuable resources are the people who work for us. Injuries can be prevented. To achieve this objective, GreenBar, Inc. will make all reasonable efforts to comply with all government regulations pertaining to safety and health issues. An effective Safety and Health Program will be carried out throughout our organization.

The Safety and Health Program will assist management and non-supervisory employees in controlling hazards and risks which will minimize employee and customer injuries, damage to customer's property and damage or destruction of GreenBar, Inc. property.

All employees will follow this program. This program is designed to encourage all employees to promote the safety of their fellow employees and customers. To accomplish our safety and health goals, all members of management are responsible and accountable for implementing this policy, and to insure it is followed.

GreenBar, Inc. is sincerely interested in the employee's safety. The policy of GreenBar, Inc. is to provide safe equipment, adequate tools and training, and the necessary protective equipment. It is the employee's responsibility to follow the rules of safety as established for their protection and the protection of others, and to use the protective devices, which GreenBar, Inc. provides.

Safety Education and Training Program

GreenBar, Inc. is committed to instructing all employees in safe and healthy work practices. GreenBar, Inc. will provide training to each employee with regard to general, acceptable, safety procedures and to any hazards or safety procedures that are specific to that employee's work situation.

Purpose of a Hazard Communication Program:

To provide employees with the knowledge and training necessary to understand and protect themselves and others from the chemicals they use. Also, to comply with the OSHA Hazard Communication Standard (1910.1200).

Training Will Occur When:

- Upon Hiring
- GreenBar, Inc. believes additional training is warranted
- An employee is given a new job assignment
- New substances, equipment, or new procedures are introduced which represent a new hazard
- GreenBar, Inc. is made aware of a new hazard

Training Areas:

Employee training will consist of new employee orientation, periodic group meetings, and one-on-one training. The Safety and Health training provided to employees will include:

- Employee Safety Handbook
- First Aid
- GreenBar, Inc. Safety and Health Policy
- GreenBar, Inc. Safety and Health Program
- Incident Reporting
- Hazard Communication
- Hazardous Material Spill Response
- Personal Protective Equipment requirements
- Emergency Procedures
- Housekeeping
- Job Specific Hazards

Training Documentation:

Employee Training will be documented using the forms on the next two pages.

Employee Safety Training Checklist

Employee Name: _____ Hire Date: _____

Position: _____ Trainer: _____

I acknowledge that I have been trained in the SAFETY AND HEALTH areas checked below, and agree to follow all GreenBar, Inc. Safety and Health Rules, Policies and Procedures.

_____Safety and Health Program

- My right to ask questions, or report any safety hazards, either directly or anonymously without any fear of reprisal.
- The location of GreenBar, Inc. safety bulletins and required safety postings (i.e., summary of occupational injuries and illnesses, and Safety and Health Protection Poster).
- Disciplinary procedures that may be used to ensure compliance with safe work practices.
- Reporting safety concerns.
- Accessing the department safety committee.

_____Incident Reporting and Reporting Occupational Injuries and Illnesses.

_____Hazard Communication

- The potential occupational hazards in the work area associated with my job assignment.
- The safe work practices and personal protective equipment required for my job title.
- The location and availability of MSDS's.
- The hazards of any chemicals to which I may be exposed, and my right to the information contained on Material Safety Data Sheets (MSDS's) for those Chemicals.

_____Hazardous Material Spill Response

_____Bloodborne Pathogen Response

_____Personal Protective Equipment

_____Employee Safety Manual

_____Machinery Tag Out Program

_____Emergency Procedures

_____Other: _____

I understand the above items and agree to comply with safe work practices in my work area.

_____ _____

Employee Signature Date

I have trained the above employee in the categories indicated on this form.

_____ _____

Trainers Signature Date

Safety Meeting Record

Job: _____

Department or Crew: _____ Date: _____

OUTLINE

Safety Title: _____

Key Points:

1. _____
2. _____
3. _____
4. _____
5. _____

Applications to Project:

_____
_____
_____
_____.

Safety Reminders:

_____
_____.

Employee Safety Recommendations:

_____
_____
_____.

Meeting Attended By:

_____ _____
_____ _____

Safety and Health Communication

Communicating With Employees on Safety and Health Issues

Communicating with employees regarding health and safety issues must be a two way street. It must consist of both employer-to-employee **and** employee-to-employer communications. Employees will be trained through the formal Safety and Health Program, new employee orientation, and training specific to new or current job assignments and/or hazards.

Reporting of Safety and Health Hazards:

GreenBar, Inc. has a system for the employee to report a hazard or unsafe condition. The form on the next page will be used for reporting and documenting such hazards. The employee should also notify his/her immediate supervisor verbally of such hazard or condition. The "Safety Suggestion Form" will be sent to the employee's supervisor or designated Safety Manager. A prompt and thorough investigation will be conducted of the situation.

Postings:

As a routine part of the Safety and Health Program, postings required by state and federal law (for example, Safety and Health protection on the Job, state OSHA citations and responses, etc.) will be prominently displayed in employee areas.

Training:

GreenBar, Inc. has training requirements designed to instruct each employee on general safety procedures as well as safety procedures specific to the employee's job. These training requirements are described in greater detail in the chapter entitled SAFETY AND HEALTH TRAINING.

Employee Safety Handbook:

All employees will be provided with an Employee Safety Handbook before they are to begin work and at the time of orientation. (Management will photocopy pages 17 through 28 of this manual, staple the pages together, and give it to every new hire). They are to read the handbook and acknowledge its receipt by filling out the second page of the handbook. This page will be removed from the handbook and placed in their personnel record.

SAFETY SUGGESTION FORM

NAME: _____ DATE: _____
(OPTIONAL)

DESCRIPTION OF UNSAFE CONDITION OR PRACTICE:

_____
_____
_____
_____
_____

CAUSE OR CONTRIBUTING FACTORS:

_____
_____

SUGGESTION FOR IMPROVING SAFETY:

_____
_____

Draw a picture to describe situation:

Safety Training Event Scheduling Chart

Weekly	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**
Weekly Safety Inspection												
Weekly Boiler Checks												
Atmospheric Monitoring												
Monthly												
Compile Safety Training Report												
Fleet Driver Safety Training												
Safety Committee Inspection												
Safety Committee Meeting												
Fire Prevention Inspection												
Respirator Inspections												
Spill / Hazmat Equipment Inventory												
Fire Extinguisher Inspection												
Monthly Boiler Inspection												
Boiler Chemistry Report												
Monthly Sprinkler Inspection & Test												
Test Emergency Lighting												
Semi-Annual												
Fire Department Tour of Plant												
Emergency Lighting 90 Minute Test												
Evacuation Drill												
Boiler External Inspection												
Boiler Internal Inspection												
Annual	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**
MSDS Audit												
Respirator Physicals												
Respirator Fit Tests												
Noise Survey												
Hearing Tests												
LOTO Verification & Certifications												
Boiler Safety Valve Test												
Emergency Plan Review												
Fire Hydrant Flow Test												
Forklift / Loader Re-Certification												
Annual Sprinkler Inspection & Tests												
Annual Training												
First Aid - CPR -BBP												
Respiratory Protection												
Confined Space Entry												
Ergonomics												
Personal Protective Equipment												
Hazard Communication												
Electrical Safety												
Lockout / Tagout												
Hearing Conservation												
Forklift Re-Training												
Emergency Plans												

OSHA Recordkeeping and Posting Requirements

Purpose:

To establish the policy and procedures regarding GreenBar, Inc. requirements for compliance with OSHA record keeping and posting guidelines for occupational injuries and illnesses.

Policy:

All locations are to post the "Job Safety and Health Protection" poster (or state equivalent) in prominent places in the workplace.

OSHA requires that employers maintain a record of certain occupational injuries that occur at each business establishment on the OSHA Form Log 300 and 300A: Log of Work-Related Injuries and Illnesses and Summary of Work-Related Injuries and Illnesses. At the end of each year, OSHA requires the summary section of the OSHA Form Log 300A to be posted at each business establishment no later than February 1 and remain in place until April 30. GreenBar, Inc. will comply with this requirement. The Project Manager is responsible for maintaining the information on the log in a current status and distributing the OSHA Form Logs.

The "Job Safety and Health Protection" poster and the Form Log and Summary of Occupational Injuries and Illnesses can be ordered from OSHA, free of charge, at 303-844-1600

Record Retention:

OSHA Form Log, January – November reports can be discarded upon receipt of the next monthly report.

Year-end OSHA Form Log 200, 300, 300A, and 301, retain for 5 years following the year to which they relate

OSHA 2002 Record Keeping Guidelines

You are urged to independently verify the accuracy of this document on a periodic basis by visiting www.OSHA.gov. Also, be advised that State OSHA's may address these and other issues. You should check with your State's OSHA for variations, updates, and compliance!

Here's an overview of some of the new Federal standard's key provisions.

*** Exemptions: If a company had 10 or fewer employees at all times during the last calendar year, it does not need to keep OSHA injury and illness records unless OSHA or the Bureau of Labor Statistics (BLS) informs you in writing that you must keep such records. However, all employers covered by the OSH Act must report to OSHA any workplace incident that results in a fatality or the hospitalization of three or more employees.

In addition to the small employer exemption, certain business establishments in particular industries are considered exempt from maintaining OSHA injury and illness records. Generally, if a business establishment is classified in a specific low-hazard retail, service, finance, insurance, or real estate industry listed in 29 C.F.R. 1904, Subpart B, Appendix A, it does not need to keep OSHA injury and illness records unless the government asks it to. Again, all employers must report to OSHA any workplace incident that results in a fatality or the hospitalization of three or more employees. (Note: Business establishments classified in agriculture; mining; construction; manufacturing; transportation; communication, electric, gas, and sanitary services; or wholesale trade are not eligible for the partial industry classification exemption.)

To view a list of the partially exempt industries, go to www.osha-slc.gov/OshStd_data/1904_New/1904_SUBPART_B_APP_A.html.

*** Form changes: Forms 200 (OSHA Injury and Illness Log and Summary) and 101 (OSHA Supplementary Record) will be replaced by two new forms -- Form 300 (Log of Work-Related Injuries and Illnesses) and Form 301 (OSHA Injury and Illness Incident Report), respectively. In addition, the new Form 300A (Summary of Work-Related Injuries and Illnesses) has been added to serve as the annual summary. Form 300A must be posted in a conspicuous area of the workplace where notices to employees are customarily posted beginning on February 1 of the year following the year to which the summary applies, and remain posted until April 30.

*** Recording criteria: Under the old rule, all work-related illnesses, but not necessarily all work-related injuries, were recordable. The new standard, on the other hand, establishes a single set of recording criteria for both injuries and illnesses. Now, covered employers are only required to record fatalities, injuries, and illnesses that: 1) are work-related; 2) are a new case; and 3) meet one or more of the general recording criteria.

An injury or illness meets the general recording criteria, and is thus recordable, if it results in any of the following: death, days away from work, restricted work or transfer to another job, medical treatment beyond first aid, or loss of consciousness. A case also meets the general recording criteria if it involves a significant injury or illness diagnosed by a physician or other licensed health care professional -- even if it doesn't result in death, days away from work, restricted work or job transfer, medical treatment beyond first aid, or loss of consciousness.

The road to finalizing the record-keeping rule has been long and bumpy. As a result of a lawsuit regarding the rule with the National Association of Manufacturers (NAM) as part of the settlement, OSHA compliance officers will initially focus on compliance assistance, rather than on enforcement. OSHA says that during the first 120 days following the effective date of the new rule, no citations will be issued for violations – as long as employers make a good faith effort to meet the record- keeping obligations and agree to make any necessary corrections needed to bring their records into compliance.

Note: Although the new record-keeping standard goes into effect on January 1, 2002, three provisions will be delayed for one year while OSHA reconsiders them. These are: 1) the criteria for recording work-related hearing loss; 2) the rule's definition of musculoskeletal disorder (MSD); and 3) the requirement that employers check the MSD column on the OSHA log (Form 300). Recording criteria for cases involving work-related musculoskeletal disorders. From January 1, 2002 until December 31, 2003, you are required to record work-related injuries and illnesses involving muscles, nerves, tendons, ligaments, joints, cartilage and spinal discs in accordance with the requirements applicable to any injury or illness under §§ 1904.5, §§ 1904.6, §§ 1904.7, and § § 1904.29. For entry (M) on the OSHA 300 Log, you must check either the entry for "injury" or "all other illnesses."

For more information on OSHA's new record-keeping standard, please visit www.osha-slc.gov/recordkeeping/index.html.

IN OTHER OSHA NEWS...

While you're checking out OSHA's website for record-keeping information, you may also want to take a look at the agency's new workplace anthrax exposure guidance. If you have employees who open mail, they may be a little nervous in light of the recent terrorist activities. This guidance, called the Anthrax Matrix, aims to help employers assess the risk their workers face and suggests measures that can be taken to help protect them. You can find the Anthrax Matrix at www.osha.gov/bioterrorism/anthrax/matrix/index.html.

***Knowing what to expect during a workplace safety inspection can help you remain calm and in control if and when an OSHA inspector comes knocking at your door. Be prepared to show the OSHA inspector various company documents -- such as illness and accident reports, training records, and policies – that demonstrate your company's efforts to maintain a safe workplace.

MAJOR CHANGES TO OSHA'S RECORDKEEPING RULE

This document provides a list of the major changes from OSHA's old 1904 recordkeeping rule to the new rule employers began using in 2002. This list summarizes the major differences between the old and new recordkeeping rules to help people who are familiar with the old rule to learn the new rule quickly.

Scope

The list of service and retail industries that are partially exempt from the rule has been updated. Some establishments that were covered under the old rule are not required to keep OSHA records under the new rule and some formerly exempted establishments will now have to keep records. (§1904.2)

The new rule continues to provide a partial exemption for employers who had 10 or fewer workers at all times in the previous calendar year. (§1904.1)

Forms

The new OSHA Form 300 (Log of Work-Related Injuries and Illnesses) has been simplified and can be printed on smaller legal-sized paper.

The new OSHA Form 301 (Injury and Illness Incident Report) includes more data about how the injury or illness occurred.

The new OSHA Form 300A (Summary of Work-Related Injuries and Illnesses) provides additional data to make it easier for employers to calculate incidence rates.

Maximum flexibility has been provided so employers can keep all the information on computers, at a central location, or on alternative forms, as long as the information is compatible and the data can be produced when needed. (§1904.29 and §1904.30)

Work related

A "significant" degree of aggravation is required before a preexisting injury or illness becomes work-related. (§1904.5(a))

Additional exceptions have been added to the geographic presumption of work relationship; cases arising from eating and drinking of food and beverages, blood donations, exercise programs, etc. no longer need to be recorded. Common cold and flu cases also no longer need to be recorded. (§1904.5(b)(2))

Criteria for deciding when mental illnesses are considered work-related have been added. (§1904.5(b)(2))

Sections have been added clarifying work relationship when employees travel or work out of their home. (§1904.5(b)(6) and §1904.5(b)(7))

Recording criteria

Different criteria for recording work-related injuries and work-related illnesses are eliminated; one set of criteria is used for both. (The former rule required employers to record all illnesses, regardless of severity). (§1904.4)

Employers are required to record work-related injuries or illnesses if they result in one of the following: death; days away from work; restricted work or transfer to another job; medical treatment beyond first aid; loss of consciousness; or diagnosis of a significant injury/illness by a physician or other licensed health care professional. (§1904.7(a))

New definitions are included for medical treatment and first aid. First aid is defined by treatments on a finite list. All treatment not on this list is medical treatment. (§1904.7(b)(5))

The recording of "light duty" or restricted work cases is clarified. Employers are required to record cases as restricted work cases when the injured or ill employee only works partial days or is restricted from performing their "routine job functions" (defined as work activities the employee regularly performs at least once weekly). (§1904.7(b)(4))

Employers are required to record all needlestick and sharps injuries involving contamination by another person's blood or other potentially infectious material. (§1904.8)

Musculoskeletal disorders (MSDs) are treated like all other injuries or illnesses: they must be recorded if they result in days away, restricted work, transfer to another job, or medical treatment beyond first aid. (§1904.12)

Special recording criteria are included for cases involving the work-related transmission of tuberculosis or medical removal under OSHA standards. (§1904.9 and §1904.11)

Day counts

The term "lost workdays" is eliminated and the rule requires recording of days away, days of restricted work, or transfer to another job. Also, new rules for counting that rely on calendar days instead of workdays are included. (§1904.7(b)(3))

Employers are no longer required to count days away or days of restriction beyond 180 days. (§1904.7(b)(3))

The day on which the injury or illness occurs is not counted as a day away from work or a day of restricted work. (§1904.7(b)(3) and §1904.7(b)(4))

Annual Summary

Employers must review the 300 Log information before it is summarized on the 300A form. (§1904.32(a))

The new rule includes hours worked data to make it easier for employers to calculate incidence rates. (§1904.32(b)(2))

A company executive is required to certify the accuracy of the summary. (§1904.32(b)(3))

The annual summary must be posted for three months instead of one. (§1904.32(b)(6))

Employee involvement

Employers are required to establish a procedure for employees to report injuries and illnesses and to tell their employees how to report. (§1904.35(a))

The new rule informs employers that the OSH Act prohibits employers from discriminating against employees who do report. (§1904.36)

Employees are allowed to access the 301 forms to review records of their own injuries and illnesses. (§1904.35(b)(2))

Employee representatives are allowed to access those parts of the OSHA 301 form relevant to workplace safety and health. (§1904.35(b)(2))

Protecting privacy

Employers are required to protect employee's privacy by withholding an individual's name on Form 300 for certain types of sensitive injuries/illnesses (e.g., sexual assaults, HIV infections, mental illnesses, etc.). (§1904.29(b)(6) to §1904.29(b)(8))

Employers are allowed to withhold descriptive information about sensitive injuries in cases where not doing so would disclose the employee's identity. (§1904.29(b)(9))

Employee representatives are given access only to the portion of Form 301 that contains information about the injury or illness, while personal information about the employee and his or her health care provider is withheld. (§1904.35(b)(2))

Employers are required to remove employees' names before providing injury and illness data to persons who do not have access rights under the rule. (§1904.29(b)(10))

Reporting information to the government

Employers must call in all fatal heart attacks occurring in the work environment. (§1904.39(b)(5))

Employers do not need to call in public street motor vehicle accidents except those in a construction work zone. (§1904.39(b)(3))

Employers do not need to call in commercial airplane, train, subway or bus accidents. (§1904.39(b)(4))

Employers must provide records to an OSHA compliance officer who requests them within 4 hours. (§1904.40(a))

(The next two pages should be used to investigate accidents, injuries and illnesses. Make a copy of the forms and retain completed forms for 5 years along with the Liability Report Form on page 36 in the manual)

Employee Report of Accident, Injury or Illness

Instructions: Please Print. Fill in all blanks. If a blank does not pertain to your accident, injury or illness write "N/A" in that blank. When completed, return this form to your supervisor.

Name: _____

Social Security Number: _____ Sex ___Age _____

Address_____ Phone Number _____

Marital Status: ❑Single ❑Married ❑Separated ❑Divorced ❑Widowed

# of Dependents_____

Employment Start Date	Time in Present Job
Job Title	Supervisor's Name
Department	Date & Time of Accident
Location of Accident	Task being Performed
Name of Witness	Name of Witness
Describe how the accident happened	
What caused the Accident	
What could have prevented this accident	
Date & Time you first sought medical attention	
Name of Hospital or Doctor	
Were you using required safety equipment?	
Do you have a job at another company?	

The information I have provided either in my own writing or verbally for the purpose of this form is true and correct. I understand that providing false or misleading information or omission of information on this report or any other form relating to this claim of injury/accident may result in termination of my employment.

Signature of Employee: _____

Date: _____

Reader or Interpreter: _____ Date: _____

Signature of Witness: _____

Supervisor's Report of Accident

Supervisor's Name: _____

Basic Rules for Accident Investigation

- Find the cause to prevent future accidents - Use an unbiased approach during investigation
- Interview witnesses & injured employees at the scene - conduct a walkthrough of the accident
- Conduct interviews in private - Interview one witness at a time.
- Get signed statements from all involved.
- Take photos or make a sketch of the accident scene.
- What hazards are present - what unsafe acts contributed to accident
- Ensure hazardous conditions are corrected immediately.

Date & Time		**Location**	
Tasks performed		**Witnesses**	
Resulted in	**__ Injury __ Fatality** **__Property Damage**	**Property Damage**	
Injured		**Injured**	
Describe Accident Facts & Events			

Supervisor's Root Cause Analysis	*Check ALL that apply to this accident*		
Unsafe Acts		**Unsafe Conditions**	
Improper work technique		Poor Workstation design	
Safety rule violation		Unsafe Operation Method	
Improper PPE or PPE not used		Improper Maintenance	
Operating without authority		Lack of direct supervision	
Failure to warn or secure		Insufficient Training	
Operating at improper speeds		Lack of experience	
By-passing safety devices		Insufficient knowledge of job	
Protective equipment not in use		Slippery conditions	
Improper loading or placement		Excessive noise	
Improper lifting		Inadequate guarding of hazards	
Servicing machinery in motion		Defective tools/equipment	
Horseplay		Poor housekeeping	
Drug or alcohol use		Insufficient lighting	
Unsafe Acts require a written warning and re-training <u>before</u> the Employee resumes work			
Date		**Date**	
Re-Training Assigned		Unsafe Condition Guarded	
Re-Training Completed		Unsafe Condition Corrected	
Supervisor Signature		**Supervisor Signature**	

Accident Report Review

Supervisor _____ Date _____

Department Superintendent _____ Date _____

Safety Manager _____ Date _____

Plant Manager _____ Date _____

Self-Inspection Checklists

I didn't want to put this in the Safety and Health Program manual, because most of these items aren't "generic" and compatible to *every* kind of company or organization. These checklists are by no means all-inclusive. You should incorporate any of the following checklist items that pertain to your business into the "Inspection Checklist" part of your manual (that begins on page 14), or put them as an Addendum at the end of the manual.

You should also to refer to OSHA standards that may apply to your situation (pages 47 and 48 in the S & H Manual and on the attached "OSHA Recordkeeping Requirements" pages that follow). I suggest you visit the web site at **www.OSHA.gov** and enter the search words **OSHA Standards**. Copy whatever you need from there (to comply) and add it to this manual as an Addendum.

SAFETY AND HEALTH PROGRAM

Do you have an active safety and health program in operation that deals with general safety and health program elements as well as management of hazards specific to your work site?
Is one person clearly responsible for the overall activities of the safety and health program?
Do you have a safety committee or group made up of management and labor representatives that meets regularly and reports in writing on its activities?
Do you have a working procedure for handling in-house employee complaints regarding safety and health?
Are you keeping your employees advised of the successful effort and accomplishments you and/or your safety committee have made in assuring they will have a workplace that is safe and healthful?
Have you considered incentives for employees or workgroups who have excelled in reducing workplace injuries/illnesses?

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Are employers assessing the workplace to determine if hazards that require the use of personal protective equipment (for example, head, eye, face, hand, or foot protection) are present or are likely to be present?
If hazards or the likelihood of hazards are found, are employers selecting and having affected employees use properly fitted personal protective equipment suitable for protection from these hazards?
Has the employer been trained on ppe procedures, that is, what ppe is necessary for a job task, when they need it, and how to properly adjust it?

PERSONAL PROTECTIVE EQUIPMENT (continued)

Are protective goggles or face shields provided and worn where there is any danger of flying particles or corrosive materials?
Are approved safety glasses required to be worn at all times in areas where there is a risk of eye injuries such as punctures, abrasions, contusions or burns?
Are employees who need corrective lenses (glasses or contacts) in working environments having harmful exposures, required to wear only approved safety glasses, protective goggles, or use other medically approved precautionary procedures?
Are protective gloves, aprons, shields, or other means provided and required where employees could be cut or where there is reasonably anticipated exposure to corrosive liquids, chemicals, blood, or other potentially infectious materials?
Are hard hats provided and worn where danger of falling objects exists?
Are hard hats inspected periodically for damage to the shell and suspension system?
Is appropriate foot protection required where there is the risk of foot injuries from hot, corrosive, or poisonous substances, falling objects, crushing or penetrating actions?
Are approved respirators provided for regular or emergency use where needed?
Is all protective equipment maintained in a sanitary condition and ready for use?
Do you have eye wash facilities and a quick drench shower within the work area where employees are exposed to injurious corrosive materials?
Where special equipment is needed for electrical workers, is it available?
Where food or beverages are consumed on the premises, are they consumed in areas where there is no exposure to toxic material, blood, or other potentially infectious materials?
Is protection against the effects of occupational noise exposure provided when sound levels exceed those of the OSHA noise standard?
Are adequate work procedures, protective clothing and equipment provided and used when cleaning up spilled toxic or otherwise hazardous materials or liquids?
Are there appropriate procedures in place for disposing of or decontaminating personal protective equipment that may be contaminated with blood or other potentially infectious materials?

FLAMMABLE AND COMBUSTIBLE MATERIALS

Are combustible scraps, debris, and waste materials (oily rags, etc.) stored in covered metal receptacles and removed from the work site promptly?
Is proper storage practiced to minimize the risk of fire including spontaneous combustion?
Are approved containers and tanks used for the storage and handling of flammable and combustible liquids?

FLAMMABLE AND COMBUSTIBLE MATERIALS (continued)

Are all connections on drums and combustible liquid piping, vapor and liquid tight?
Are all flammable liquids kept in closed containers when not in use (for example, parts cleaning tanks, pans, etc.)?
Are bulk drums of flammable liquids grounded and bonded to containers during dispensing?
Do storage rooms for flammable and combustible liquids have explosion-proof lights?
Do storage rooms for flammable and combustible liquids have mechanical or gravity ventilation?
Is liquefied petroleum gas stored, handled, and used in accordance with safe practices and standards?
Are "NO SMOKING" signs posted on liquefied petroleum gas tanks?
Are liquefied petroleum storage tanks guarded to prevent damage from vehicles?
Are all solvent wastes and flammable liquids kept in fire-resistant, covered containers until they are removed from the work site?
Is vacuuming used whenever possible rather than blowing or sweeping combustible dust?
Are firm separators placed between containers of combustibles or flammables, when stacked one upon another, to assure their support and stability?
Are fuel gas cylinders and oxygen cylinders separated by distance, and fire-resistant barriers, while in storage?
Are fire extinguishers selected and provided for the types of materials in areas where they are to be used? Class A Ordinary combustible material fires. Class B Flammable liquid, gas or grease fires. Class C Energized-electrical equipment fires.
Are appropriate fire extinguishers mounted within 75 feet of outside areas containing flammable liquids, and within 10 feet of any inside storage area for such materials?
Are extinguishers free from obstructions or blockage?
Are all extinguishers serviced, maintained and tagged at intervals not to exceed 1 year?
Are all extinguishers fully charged and in their designated places?
Where sprinkler systems are permanently installed, are the nozzle heads so directed or arranged that water will not be sprayed into operating electrical switchboards and equipment?
Are "NO SMOKING" signs posted where appropriate in areas where flammable or combustible materials are used or stored?
Are safety cans used for dispensing flammable or combustible liquids at a point of use?
Are all spills of flammable or combustible liquids cleaned up promptly?
Are storage tanks adequately vented to prevent the development of excessive vacuum or pressure as a result of filling, emptying, or atmosphere temperature changes?

FLAMMABLE AND COMBUSTIBLE MATERIALS (continued)

Are storage tanks equipped with emergency venting that will relieve excessive internal pressure caused by fire exposure?
Are "NO SMOKING" rules enforced in areas involving storage and use of hazardous materials?

HAND AND PORTABLE POWERED TOOLS
Hand Tools and Equipment

Are all tools and equipment (both Company and employee owned) used by employees in good condition?
Are hand tools such as chisels and punches, which develop mushroomed heads during use, reconditioned or replaced as necessary?
Are broken or fractured handles on hammers, axes and similar equipment replaced promptly?
Are worn or bent wrenches replaced regularly?
Are appropriate handles used on files and similar tools?
Are employees made aware of the hazards caused by faulty or improperly used hand tools?
Are appropriate safety glasses, face shields, etc. used while using hand tools or equipment which might produce flying materials or be subject to breakage?
Are jacks checked periodically to ensure they are in good operating condition?
Are tool handles wedged tightly in the head of all tools?
Are tool cutting edges kept sharp so the tool will move smoothly without binding or skipping?
Are tools stored in dry, secure locations where they won't be tampered with?
Is eye and face protection used when driving hardened or tempered spuds or nails?

Portable (Power Operated) Tools and Equipment

Are grinders, saws and similar equipment provided with appropriate safety guards?
Are power tools used with the correct shield, guard, or attachment, recommended by the manufacturer?
Are portable circular saws equipped with guards above and below the base shoe?
Are circular saw guards checked to assure they are not wedged up, thus leaving the lower portion of the blade unguarded?
Are rotating or moving parts of equipment guarded to prevent physical contact?

Portable (Power Operated) Tools and Equipment (continued)

Are all cord-connected, electrically operated tools and equipment effectively grounded or of the approved double insulated type?
Are effective guards in place over belts, pulleys, chains, sprockets, on equipment such as concrete mixers, and air compressors?
Are portable fans provided with full guards or screens having openings ½ inch or less?
Is hoisting equipment available and used for lifting heavy objects, and are hoist ratings and characteristics appropriate for the task?
Are ground-fault circuit interrupters provided on all temporary electrical 15 and 20-ampere circuits, used during periods of construction?
Are employees who operate powder-actuated tools trained in their use and carry a valid operator's card?
Is each powder-actuated tool stored in its own locked container when not being used?
Is a sign at least 7 inches by 10 inches with bold face type reading "POWDER-ACTUATED TOOL IN USE" conspicuously posted when the tool is being used?
Are powder-actuated tools left unloaded until they are actually ready to be used?
Are powder-actuated tools inspected for obstructions or defects each day before use?
Do powder-actuated tool operators have and use appropriate personal protective equipment such as hard hats, safety goggles, safety shoes and ear protectors?
Are pneumatic and hydraulic hoses on power operated tools checked regularly for deterioration or damage?

LOCK OUT/TAG OUT PROCEDURES

Is all machinery or equipment capable of movement, required to be de-energized or disengaged and locked-out during cleaning, servicing, adjusting or setting up operations, whenever required?
Where the power disconnecting means for equipment does not also disconnect the electrical control circuit: Are the appropriate electrical enclosures identified?
Is means provided to assure the control circuit can also be disconnected and locked-out?
Is the locking-out of control circuits in lieu of locking-out main power disconnects prohibited?
Are all equipment control valve handles provided with a means for locking-out?
Does the lockout procedure require that stored energy (mechanical, hydraulic, air, etc.) be released or blocked before equipment is locked-out for repairs?
Are appropriate employees provided with individually keyed personal safety locks?

LOCK OUT/TAG OUT PROCEDURES (continued)

Are employees required to keep personal control of their key(s) while they have safety locks in use?
Is it required that only the employee exposed to the hazard, place or remove the safety lock?
Is it required that employees check the safety of the lock-out by attempting a startup after making sure no one is exposed?
Are employees instructed to always push the control circuit stop button immediately after checking the safety of the lockout?
Is there a means provided to identify any or all employees who are working on locked-out equipment by their locks or acCompanying tags?
Are a sufficient number of accident preventive signs or tags and safety padlocks provided for any reasonably foreseeable repair emergency?
When machine operations, configuration or size requires the operator to leave his or her control station to install tools or perform other operations, and that part of the machine could move if accidentally activated, is such element required to be separately locked or blocked out?
In the event that equipment or lines cannot be shut down, locked-out and tagged, is a safe job procedure established and rigidly followed?

CONFINED SPACES

Are confined spaces thoroughly emptied of any corrosive or hazardous substances, such as acids or caustics, before entry?
Are all lines to a confined space, containing inert, toxic, flammable, or corrosive materials turned off and blanked or disconnected and separated before entry?
Are all impellers, agitators, or other moving parts and equipment inside confined spaces locked-out if they present a hazard?
Is either natural or mechanical ventilation provided prior to confined space entry?
Are appropriate atmospheric tests performed to check for oxygen deficiency, toxic substances and explosive concentrations in the confined space before entry?
Is adequate illumination provided for the work to be performed in the confined space?
Is the atmosphere inside the confined space frequently tested or continuously monitored during conduct of work?
Is there an assigned safety standby employee outside of the confined space. when required, whose sole responsibility is to watch the work in progress, sound an alarm if necessary, and render assistance?

CONFINED SPACES (continued)

Is the standby employee appropriately trained and equipped to handle an emergency?
Is the standby employee or other employees prohibited from entering the confined space without lifelines and respiratory equipment if there is any question as to the cause of an emergency?
Is approved respiratory equipment required if the atmosphere inside the confined space cannot be made acceptable
Is all portable electrical equipment used inside confined spaces either grounded and insulated, or equipped with ground fault protection?
Before gas welding or burning is started in a confined space, are hoses checked for leaks, compressed gas bottles forbidden inside of the confined space, torches lighted only outside of the confined area and the confined area tested for an explosive atmosphere each time before a lighted torch is to be taken into the confined space?
If employees will be using oxygen-consuming equipment-such as salamanders, torches, and furnaces, in a confined space-is sufficient air provided to assure combustion without reducing the oxygen concentration of the atmosphere below 19.5 percent by volume?
Whenever combustion-type equipment is used in a confined space, are provisions made to ensure the exhaust gases are vented outside of the enclosure?
Is each confined space checked for decaying vegetation or animal matter, which may produce methane?
Is the confined space checked for possible industrial waste, which could contain toxic properties?
If the confined space is below the ground and near areas where motor vehicles will be operating, is it possible for vehicle exhaust or carbon monoxide to enter the space?

ELECTRICAL

Do you specify compliance with OSHA for all contract electrical work?
Are all employees required to report as soon as practicable any obvious hazard to life or property observed in connection with electrical equipment or lines?
Are employees instructed to make preliminary inspections and/or appropriate tests to determine what conditions exist before starting work on electrical equipment or lines?
When electrical equipment or lines are to be serviced, maintained or adjusted, are necessary switches opened, locked-out and tagged whenever possible?
Are portable electrical tools and equipment grounded or of the double insulated type?
Are electrical appliances such as vacuum cleaners, polishers, and vending machines grounded?

ELECTRICAL (continued)

Are ground-fault circuit interrupters installed on each temporary 15 or 20 ampere, 120 volt AC circuit at locations where construction, demolition, modifications, alterations or excavations are being performed?
Are multiple plug adapters prohibited?
Are all temporary circuits protected by suitable disconnecting switches or plug connectors at the junction with permanent wiring?
Do you have electrical installations in hazardous dust or vapor areas? If so, do they meet the National Electrical Code (NEC) for hazardous locations?
Is exposed wiring and cords with frayed or deteriorated insulation repaired or replaced promptly?
Are flexible cords and cables free of splices or taps?
Are clamps or other securing means provided on flexible cords or cables at plugs, receptacles, tools, equipment, etc., and is the cord jacket securely held in place?
Are all cord, cable and raceway connections intact and secure?
In wet or damp locations, are electrical tools and equipment appropriate for the use or location or otherwise protected?
Is the location of electrical power lines and cables (overhead, underground, under floor, other side of walls) determined before digging, drilling or similar work is begun?
Are metal measuring tapes, ropes, hand lines or similar devices with metallic thread woven into the fabric prohibited where they could come in contact with energized parts of equipment or circuit conductors?
Is the use of metal ladders prohibited in areas where the ladder or the person using the ladder could come in contact with energized parts of equipment, fixtures or circuit conductors?
Are all disconnecting switches and circuit breakers labeled to indicate their use or equipment served?
Are disconnecting means always opened before fuses are replaced?
Do all interior wiring systems include provisions for grounding metal parts of electrical raceways, equipment and enclosures?
Are all electrical raceways and enclosures securely fastened in place?
Are all energized parts of electrical circuits and equipment guarded against accidental contact by approved cabinets or enclosures?
Is sufficient access and working space provided and maintained about all electrical equipment to permit ready and safe operations and maintenance?
Are all unused openings (including conduit knockouts) in electrical enclosures and fittings closed with appropriate covers, plugs or plates?

ELECTRICAL (continued)

Are electrical enclosures such as switches, receptacles, and junction boxes, provided with tight fitting covers or plates?
Are disconnecting switches for electrical motors in excess of two horsepower, capable of opening the circuit when the motor is in a stalled condition, without exploding? (Switches must be horsepower rated equal to or in excess of the motor hp rating.)
Is low voltage protection provided in the control device of motors driving machines or equipment, which could cause probable injury from inadvertent starting?
Is each motor disconnecting switch or circuit breaker located within sight of the motor control device?
Is each motor located within sight of its controller or the controller disconnecting means capable of being locked in the open position or is a separate disconnecting means installed in the circuit within sight of the motor?
Is the controller for each motor in excess of two horsepower, rated in horsepower equal to or in excess of the rating of the motor it serves?
Are employees who regularly work on or around energized electrical equipment or lines instructed in the cardiopulmonary resuscitation (CPR) methods?
Are employees prohibited from working alone on energized lines or equipment over 600volts?

WALKING-WORKING SURFACES
General Work Environment

Is a documented, functioning housekeeping program in place?
Are all work sites clean, sanitary, and orderly?
Are work surfaces kept dry or is appropriate means taken to assure the surfaces are slip-resistant?
Are all spilled hazardous materials or liquids, including blood and other potentially infectious materials, cleaned up immediately and according to proper procedures?
Is combustible scrap, debris and waste stored safely and removed from the work site properly?
Is all regulated waste, as defined in the OSHA bloodborne pathogens standard (1910.1030), discarded according to federal, state, and local regulations?
Are accumulations of combustible dust routinely removed from elevated surfaces including the overhead structure of buildings, etc.?
Is combustible dust cleaned up with a vacuum system to prevent the dust from going into suspension?
Is metallic or conductive dust prevented from entering or accumulating on or around electrical enclosures or equipment?
Are covered metal waste cans used for oily and paint-soaked waste?

Walkways

Are aisles and passageways kept clear?
Are aisles and walkways marked as appropriate?
Are wet surfaces covered with non-slip materials?
Are holes in the floor, sidewalk or other walking surface repaired properly, covered or otherwise made safe?
Is there safe clearance for walking in aisles where motorized or mechanical handling equipment is operating?
Are materials or equipment stored in such a way that sharp projectives will not interfere with the walkway?
Are stairway handrails located between 30 and 34 inches above the leading edge of stair treads?
Do stairway handrails have at least 3 inches of clearance between the handrails and the wall or surface they are mounted on?
Where doors or gates open directly on a stairway, is there a platform provided so the swing of the door does not reduce the width of the platform to less than 21 inches?
Where stairs or stairways exit directly into any area where vehicles may be operated, are adequate barriers and warnings provided to prevent employees stepping into the path of traffic?
Do stairway landings have a dimension measured in the direction of travel, at least equal to the width of the stairway? Are changes of direction or elevation readily identifiable?
Are aisles or walkways that pass near moving or operating machinery, welding operations or similar operations arranged so employees will not be subjected to potential hazards?
Is adequate headroom provided for the entire length of any aisle or walkway?
Are standard guardrails provided wherever aisle or walkway surfaces are elevated more than 30 inches above any adjacent floor or the ground?
Are bridges provided over conveyors and similar hazards?

Elevated Surfaces

Are signs posted, when appropriate, showing the elevated surface load capacity?
Are surfaces elevated more than 30 inches above the floor or ground provided with standard guardrails?
Are all elevated surfaces (beneath which people or machinery could be exposed to falling objects) provided with standard 4-inch toeboards?
Is a permanent means of access and egress provided to elevated storage and work surfaces?
Is required headroom provided where necessary?

Elevated Surfaces (continued)

Is material on elevated surfaces piled, stacked or racked in a manner to prevent it from tipping, falling, collapsing, rolling or spreading?
Are dock boards or bridge plates used when transferring materials between docks and trucks or rail cars?
Are spilled materials cleaned up immediately?

Floor and Wall Openings

Are floor openings guarded by a cover, a guardrail, or equivalent on all sides (except at entrance to stairways or ladders)?
Are toeboards installed around the edges of permanent floor openings (where persons may pass below the opening)?
Are skylight screens of such construction and mounting that they will withstand a load of at least 200 pounds?
Is the glass in the windows, doors, glass walls, etc., which are subject to human impact, of sufficient thickness and type for the condition of use?
Are grates or similar type covers over floor openings such as floor drains of such design that foot traffic or rolling equipment will not be affected by the grate spacing?
Are unused portions of service pits and pits not actually in use either covered or protected by guardrails or equivalent?
Are manhole covers, trench covers and similar covers, plus their supports designed to carry a truck rear axle load of at least 20,000 pounds when located in roadways and subject to vehicle traffic?
Are floor or wall openings in fire resistive construction provided with doors or covers compatible with the fire rating of the structure and provided with a self-closing feature when appropriate?

Stairs and Stairways

Are standard stair rails or handrails on all stairways having four or more risers?
Are all stairways at least 22 inches wide?
Do stairs have landing platforms not less than 30 inches in the direction of travel and extend 22 inches in width at every 12 feet or less of vertical rise?
Do stairs angle no more than 50 and no less than 30 degrees?
Are step risers on stairs uniform from top to bottom?
Are steps on stairs and stairways designed or provided with a surface that renders them slip resistant?

HAZARD COMMUNICATION

Is there a list of hazardous substances used in your workplace?
Is there a written hazard communication program dealing with Material Safety Data Sheets (MSDS), labeling, and employee training?
Is each container for a hazardous substance (i.e., vats, bottles, storage tanks, etc.) labeled with product identity and a hazard warning (communication of the specific health hazards and physical hazards)?
Is there a Material Safety Data Sheet readily available for each hazardous substance used? Does this program include: An explanation of what an MSDS is and how to use and obtain one? MSDS contents for each hazardous substance or class of substances? Explanation of "Right to Know?" Identification of where an employee can see the employers written hazard communication program and where hazardous substances are present in their work areas? The physical and health hazards of substances in the work area, and specific protective measures to be used? Details of the hazard communication program, including how to use the labeling system and MSDS's?
Are employees trained in the following: How to recognize tasks that might result in occupational exposure? How to use work practice and engineering controls and personal protective equipment and to know their limitations? How to obtain information on the types selection, proper use, location, removal handling, decontamination, and disposal of personal protective equipment? Who to contact and what to do in an emergency?
Is there an employee training program for hazardous substances?

Workplace Violence

Are security cameras and mirrors placed in locations that would deter robbers or provide greater security for employees?
Are there areas in which your employees would be subject to violent acts by customers, uninvited guests or fellow employees?
Is access and freedom of movement within the workplace restricted to only those who have a legitimate reason for being there?
Have employees, supervisors, and managers been trained to recognize warning signs of potential workplace violence?

Vehicles

Do all employees who drive a Company vehicle have their driving records checked on an annual basis?
Are driver and vehicle files maintained, subject to commercial Driver's License regulations?
Is a regular maintenance program in force and documented for all Company-owned or leased vehicles?

Fire and Evacuation

Are all exits marked and operable at all times?
Have employees been trained in proper fire evacuation procedures?
Is your fire department well acquainted with your facilities, their locations and specific hazards?
Are fire extinguishers mounted in readily accessible locations and are they properly maintained?

Managing the Human Hazards

It is estimated that 85-90% of accidents are in some way created by the unsafe actions of people. This emphasizes the importance of managing the actions or behaviors of your employees in order to reduce the potential of injuries and increase safe behavior. The behaviors and lifestyles of employees will greatly influence their safety.

Simple techniques used by business owners to manage their employees' safe behaviors:

-- Observe employees as they work and identify both the safe and unsafe behaviors.

-- Focus on the things employees do that are right or safe and provide immediate and positive feedback. This will help employees recognize what is good about their performance and reinforce their behavior.

-- Those actions that are unsafe or undesired need to be brought to the employees' attention immediately. Tell them what the problem is, what the consequences could be and provide guidance on how to improve. If they fail to correct their behavior, other issues may be responsible that cause them (literacy, language, substance abuse or personal conflict). Be prepared to use outside agencies to assist you.

Managing the Human Hazards (continued)

-- Encourage employees to spot unsafe actions or conditions and to take part in correcting them. If *you* set a good example, they will realize it is important and will contribute.

-- Celebrate good safety performance by individuals and the Company. Include safety as a measure of your Company's success and, at least once a year, communicate how your Company has done in meeting the goals you have set.

What to Do in the Event of an Accident

In spite of your best intentions, an accident may occur. Part of your effort at controlling workers compensation costs should be aimed at "post-accident" cost control. The procedures you establish to handle accidents can be simple and inexpensive, and in many cases, can greatly decrease the cost of workers compensation claims.

-- Emergency numbers. All phones should be posted with emergency phone numbers. Supervisors should be trained in the procedures to follow when an injury occurs.

-- Medical facilities. Know where the nearest emergency room is located, and visit it yourself. If a clinic or doctor's office is available, make sure you have the right to direct your employees to a doctor. In some states, the employee has the right to choose his or her own doctor. Know what your state requires, and post the appropriate doctors as required.

-- First aid. Look at the number of employees, where they work and the type of injuries they might incur. Provide proper first aid supplies, and make sure someone is available who is trained and will volunteer to assist. Ask your Company doctor to recommend what supplies you need.

-- Claim notification. Quick reporting of injuries to your workers compensation carrier is the first step in controlling the cost of an accident. If possible, report the injury by phone or fax to your insurance carrier within the first hour after it occurs. Be prepared to offer the information the claim professional will need (to process the claim) and coordinate the medical services.

-- Communication. Keep in touch with the injured employee and the claim professional. The more you are in touch with both parties, the more you will be able to keep the claim under control and out of the hands of attorneys.

-- Back to work. Try to work with the employees to get them back to work as soon as possible. Work is a good environment, and if you provide a light-duty job for a temporary period of time, it can actually help reduce the time of recovery and reduce the total cost of the injury. Your claim professional and treating physician will help you consider suitable work that is within the limitations specified by the physician.

What to Do in the Event of an Accident (continued)

-- Investigate. If left undetermined, the causes of your injuries will continue to add cost to your operations. After an injury or near miss, take time to ask basic questions and determine the immediate and primary causes of the injury. The rule of thumb is to ask the question, "Why?" at least three times in order to get to the basic cause. Be constructive, and don't look for someone to blame. Focus on finding and removing the causes.

The Role of Management

Your role in creating a safe work environment is critical. Management cannot exclude itself from the safety rules imposed on others. Set aside funds in your budget for safety-related supplies or equipment so you will have them before an injury occurs. Leadership from management on safety issues will go a long way toward encouraging expected behaviors.

The active involvement of your employees is also important, especially in smaller businesses where time and resources are limited. Organize a safety committee or safety inspection teams- OSHA recommends it.

Safety Inspection Checklist

Inspected By: _____ Date: _____

(Mark N/A as appropriate)

1. WORK SITE INFORMATION:
   a. Posting OSHA and other work site warning posters _____
   b. Are Safety Meetings conducted periodically? When was the last meeting? _____
   c. First aid equipment properly stocked _____
   d. Are work site injury records being kept? _____
   e. Are emergency telephone numbers conspicuously posted? _____
   f. Is the EMERGENCY INFORMATION form posted? (Page 8) _____

Describe Violation – Location – Remedy Taken

_____

_____

_____

_____

.

2. HOUSEKEEPING AND SANITATION :
   a. Are emergency lights fully operational? _____
   b. General neatness of working areas _____
   c. Regular disposal of waste and trash _____
   d. Passageways and walkways clear _____
   e. Waste containers provided and used _____
   f. Sanitary facilities adequate and clean _____
   g. Adequate supply of water _____
   h. Adequate lighting _____
   i. Trash receptacle for drinking cups _____
   j. Are handrails and stair treads in good repair? _____
   k. Is smoking restricted to certain locations? _____
   l. Are electrical cords and plugs in good condition? _____
   m. Is a clearance of 3’ maintained around hot water heaters electric breaker panels, heating units, and fire sprinkler riser? _____
   n. Are electric circuit breakers free of obstructions? _____

Describe Violation – Location – Remedy Taken

_____

_____

_____

_____

3. FIRE PREVENTION:
   a. Fire instruction to personnel _____
   b. Fire extinguishers identified, accessible, and fully charged _____
   c. “No Smoking” signs posted and enforced where needed _____
   d. Good housekeeping _____
   e. Storage, use and handling of flammable liquids properly done _____
   f. Fire hazards checked _____
   g. Is gasoline contained only in UL listed containers? _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____

.

4. HANDLING AND STORAGE OF MATERIALS:
   a. Are materials properly stored and stacked? _____
   b. Are passageways clear? _____
   c. Shelves in stockrooms in good repair and properly anchored _____
   d. Stacks on firm footing, not too high _____
   e. Are employees lifting loads correctly? _____
   f. Are materials protected from weather conditions? _____
   g. Flammable liquids not stored in areas used for exits or stairways _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____

.

5. HAND TOOLS:
   a. Proper tool being used for each job _____
   b. Neat storage, safe carrying _____
   c. Inspection and maintenance _____
   d. Electric tools are grounded _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____

.

6. PERSONAL PROTECTIVE EQUIPMENT:
   a. Eye protection _____
   b. Respirators and masks _____
   c. Helmets, hoods, head protection _____
   d. Gloves, aprons, sleeves _____
   e. Hearing protection _____
   f. Safety harnesses and lifelines _____
   g. Shirts are to be worn _____
   h. Back support belts _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____

.

7. HAZARDOUS MATERIALS:
   a. Is a binder containing MSDS for supplies containing hazardous chemicals available to employees before using? _____
   b. Are "Material Safety Data Sheets are Available on Request" signs posted in conspicuous locations? _____
   c. Is the hazardous waste inventory log maintained? _____
   d. Are hazardous waste storage areas inspected weekly? _____
   e. Is the hazardous material dispositioning log maintained? _____
   f. All containers clearly identified _____
   g. Proper storage practices observed _____
   h. Proper storage temperatures and protection _____
   i. Proper type and number of extinguishers nearby _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____

.

Unsafe acts and/or practices observed

_____
_____
_____
_____

EMERGENCY INFORMATION

(To Be Posted)

FIRE:

Telephone Fire Department: _____

Nearest Alarm Box: _____

Crime:

Telephone Police: _____

Injury/Illness:

Avoid infection of minor injuries; always get medical attention or skilled first aid

Employees who are First Aid and/or CPR Certified

_____ _____

_____ _____

Doctor _____

Office _____ **Phone** _____

Residence _____ **Phone** _____

Hospital _____

Address _____ **Phone** _____

Ambulance _____

Address _____ **Phone** _____

In all cases of Fire, Crime, Accident, or Sickness, promptly notify:

1. Name _____ **Office Phone** _____
Home Phone _____

2. Name _____ **Office Phone** _____
Home Phone _____

Additional Numbers: _____ _____
(Alarm Company., Office Phone, etc.)
_____ _____

Hazard Identification and Communication

The purpose of this notice is to inform you that GreenBar, Inc. is complying with the OSHA HAZARD COMMUNICATION STANDARD, TITLE 29 CODE OF FEDERAL REGULATIONS 1910.1200, by using MSDS's, by compiling a Hazards Chemicals List, by insuring that containers are labeled, and by providing each employee with training.

This program applies to all work operations in GreenBar, Inc. where the employee may be exposed to hazardous substances under normal working conditions or during emergency situations.

At each site, the Site Project Manager is the program coordinator, acting as the representative of GreenBar, Inc., who has overall responsibility for the program. The Divisional Manager will review and update the program as necessary. Copies of the written program may be obtained from the Divisional Manager.

Under this program, each employee will be informed of the contents of the Hazard Communication Standard, the hazardous properties of chemicals with which they will use, safe handling procedures, and measures to be taken to protect themselves from these chemicals. Employees will also be informed of the hazards associated with chemicals in unlabeled pipes.

List of Hazardous Chemicals

The Divisional Manager will make a list of all hazardous chemicals and related work practices used in GreenBar, Inc. and will update the list as necessary. This list of chemicals will be found at all locations GreenBar, Inc. conducts business. This list also identifies the corresponding Material Safety Data Sheet (MSDS) for each chemical. Any new hazardous chemicals received by GreenBar, Inc. will have an MSDS document available for inspection before any employee uses the chemical. A master list of these chemicals will be maintained by, and is available from the Divisional Manager. The **MSDS Master List** form on page 10 will be used.

Material Safety Data Sheets (MSDS's)

MSDS's provide each employee with specific information on the chemicals used. The Divisional Manager will maintain a binder with an MSDS on every substance on the list of hazardous chemicals. The MSDS will be a fully completed OSHA Form 174 or equivalent (Page 8 and 9). GreenBar, Inc. representative, the Divisional Manager, will insure that each site maintains an MSDS for hazardous materials in that area and will be made readily available to any employee at every work site.

MSDS Master List			
Hazardous Chemical	**Where on Site**	**Date on Site**	**Date off Site**

MSDS Responsibility

The Divisional Manager is responsible for acquiring and updating MSDS's. The Divisional Manager will contact the chemical manufacturer or vendor if additional research is necessary or if an MSDS has not been supplied with an initial shipment. The form on page 13 will be used to request hazardous information.

Labels and Other Forms of Warning

The Divisional Manager will insure that all hazardous chemicals in the work place are properly labeled and updated as necessary. Labels should list at least the chemical's identity, appropriate hazard warnings, and the name, and address of the manufacturer, importer, or other responsible party. The Divisional Manager will refer to the corresponding MSDS to assist each employee in verifying label information. Labels are required on portable containers.

Non-Routine Tasks

When employees are required to perform hazardous, non-routine tasks (e.g., cleaning tanks, entering confined spaces, etc.), a special training session will be conducted to inform them of any hazards they may encounter, and the precautions to take to reduce and avoid exposure or danger.

Training

Site Project Manager will verify with sub-contractor about training. Whenever a new chemical or hazard is introduced, additional training will be conducted to address the new hazard and protective measures to be taken.

The training plan will emphasize these components:

- Summary of the standard and this written program.
- Chemical and physical properties of hazardous materials (e.g., flash point, reactivity, etc.) and methods that can be used to detect the presence or release of chemicals (including chemicals in unlabeled pipes).
- Physical hazards of chemicals (e.g., potential for fire, explosion, etc.), health hazards, including signs and symptoms of exposure, associated with exposure to chemicals and any medical condition known to be aggravated by exposure to the chemical.

The training plan will emphasize these components (continued):

- Procedures to protect against hazards (e.g. personal protective equipment required, proper use and maintenance, work practices, methods to assure the proper use and handling techniques, and procedures for emergency response).
- Work procedures to follow to assure protection when cleaning hazardous chemical spills and leaks.
- Where MSDS's are located, how to read and interpret information on both labels and MSDS's and how employees may obtain additional hazard information.

Contractor Employees

The Divisional Manager will advise outside contractors in person of any chemical hazards that may be encountered in the normal course of their work on GreenBar, Inc. premises, the labeling system in use, the protective measures to be taken, and the safe handling procedures to be used. In addition, these individuals will be notified of the location of all MSDS's. Each contractor that brings chemicals onto GreenBar, Inc. premises must provide GreenBar, Inc. with the appropriate hazard information on these substances, including the labels used and the precautionary measures to be taken in working with these chemicals.

Identification of Workplace Hazards:

Periodic, scheduled inspections will occur as a routine part of GreenBar, Inc. business. The Divisional Manager will insure these inspections occur. The Safety Inspection Checklist (a copy of which is on pages 15 through 17) will be used for that purpose.

Employees who wish to remain anonymous may report unsafe conditions or hazards by submitting a Safety Suggestion Form (page 6) to the Divisional Manager, or their immediate supervisor, without identifying themselves.

Employees must report immediately any unsafe condition or unsafe practice. No employee will be disciplined or discharged for reporting any workplace hazard or unsafe condition. Failure to report any obvious unsafe situation may result in disciplinary action, up to and including termination.

The Divisional Manager will insure that Material Safety Data Sheets (MSDSs) are present, up to date, and accessible at the appropriate locations. In addition, the Divisional Manager will assure that employees are trained in the Hazard Communication Program before beginning work or changing job functions, and will continuously monitor the work site to assure employees follow safe work practices.

Material Safety Data Sheet Request Form

Please Print!

Company Name: _____

Date of Request: _____ **Phone: _____**

Street Address: _____ **FAX: _____**

City/ State / Zip: _____

Requestor's Name: _____

Product Description:

Full Label Name: _____

Manufacturer: _____

Vendor (if known): _____

Address: _____
_____
_____.

Telephone Number: _____

Container Size: _____

Other: _____

May be used to comply with OSHA's
Hazard Communication Standard
29 CFR 1910.1200. Standard must be consulted
for specific requirements

Occupational Safety and Health Administration
(Non-mandatory Form)
Form Approved OMB No. 1218-0072

Manufacturer's Name	Emergency Telephone Number
Address *(Number, Street, City, State, and ZIP Code)*	Telephone Number for Information
	Date Prepared
	Signature of Preparer *(optional)*

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

Section III –Physical/Chemical Characteristics

Boiling Point		Specific Gravity (H_2O = 1)	
Vapor Pressure (mm Hg.)		Melting Point	
Vapor Density (AIR = 1)		Evaporation Rate (Butyl Acetate = 1)	
Solubility in Water			
Appearance and Odor			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Extinguish Media			
Special Fire Fighting Procedures			
Unusual Fire Fighting Procedures			

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable		
Incompatability *(Materials to Avoid)*			
Hazardous Decomposition or Byproducts			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will not Occur		

Section VI – Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Injestion?
Health Hazards (Acute and Chronic)			
Carcinogencity:	NTP?	IARC Monographs?	OSHA Regulated?
Signs and Symptoms of Exposure			
Medical Conditions- Generally Aggravated by Exposure			
Emergency and First Aid Procedures			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Waste Disposal Method
Precautions to Be taken in Handling and Storing
Other Precautions

Section VIII – Control Measures

Respiratory Protection *(Specify Type)*		
Ventilation	Local Exhaust	Special
	Mechanical *(General)*	Other
Protective Gloves	Eye Protection	
Other Protective Clothing or Equipment		
Work/Hygienic Practices		

Employee Safety

Handbook

Safety Handbook Acknowledgement

Name

Date of Hire

Signature **Date**

(Remove and retain this sheet in the Employee's Personnel File)

Table of Contents

GreenBar, Inc. Safety Policy

Safety and Health Requirements

Safety Hazard Citation

Accident and Incident Reporting

First Aid and Medical Treatment

Workers' Compensation

Your Safety Rights

Your Safety Responsibilities

Employee Safety Rules

General Safety Rules

Fire Safety

Hand Tool Safety

Protective Equipment

Material Handling Safety Rules

Housekeeping

Employee Safety Handbook

At GreenBar, Inc., our most valued resources are our employees, our customers, and the communities we serve. We are dedicated to providing a safe and healthful environment for employees and customers, protecting the public, and preserving GreenBar, Inc. properties and assets. Injuries can be prevented. In order to achieve an accident free workplace, an organized and effective Safety Program must be carried out company wide to make this policy work.

The Safety and Health Program will assist management and employees in controlling hazards which will minimize employee and customer injuries, damage to customer's property and damage to GreenBar, Inc. property.

All employees will follow this program

Please take the time to study and understand these safety policies and procedures. It is your responsibility (and ours) to make this program work. You are a valued member of the team, and we care about your safety.

Safety and Health Requirements

All employees will comply with the provisions of the OSHA Health Act of 1970. Therefore, any employee who, knowingly commits an unsafe act or creates an unsafe condition, disregards the safety policy, or is a repeated safety or health offender, will be discharged. Grounds for immediate discharge are:

1) Drinking alcohol, and/or drug abuse prior to or during working hours
2) Fighting
3) Theft
4) Willful damage to property
5) Failure to wear eye protection, hearing protection, safety helmets, etc.
6) Not using safety harness and lanyards when there is a potential for falling
7) Removing and/or making inoperative safety guards on tools and equipment
8) Removing barriers and/or guardrails and not replacing them
9) Failure to follow recognized industry practices
10) Engaging in dangerous horseplay
11) Failure to notify GreenBar, Inc. of a hazardous situation

The following safety and accident activities will be adhered to:

1) Report all injuries immediately to your supervisor
2) Notify your supervisor should you become ill while on the job
3) Inform you supervisor if you have a disability or physical handicap
4) Never move an injured or ill person, unless to prevent further injury

Minor safety violations will be documented and a copy of the below form will become part of the employee's personnel record:

Safety Hazard Citation **Date: _____**

Name of Violator: _____

Location of Violation: _____

Type of Violation: _____

_____

_____

Violator's Signature: _____

Accident and Incident Reporting

It is important that you report all accidents and incidents that result in injury, illness, or damage (however slight), to your supervisor immediately. GreenBar, Inc. can learn how to prevent them from occurring in the future. It is GreenBar, Inc. responsibility to investigate each incident, and your responsibility to report them when they occur.

First Aid and Medical Treatment

GreenBar, Inc. provides a First Aid Kit on the premises. It is there for your use in the treatment of minor scratches, burns, headaches, nausea, etc. Ask your supervisor to show you its location. Let your supervisor know if you need to use the First Aid Kit.

If you have a work related injury or illnesses that requires professional medical assistance notify your supervisor and let him/her know before you receive this assistance. If you fail to notify your supervisor, you may be ineligible for Worker's Compensation, benefits to pay for doctor's bills, and/or lost wages.

FIRST AID PROCEDURES AND INSTRUCTIONS

In all cases requiring emergency medical treatment, immediately call, or have a co-worker call, to request emergency medical assistance.

EMERGENCY PHONE NUMBERS

Safety and Health Manager: _____ **Poison Control:** _____

First Aid: _____ **Fire Department:** _____

Ambulance: _____ **Police:** _____

Medical Clinic: _____

Clinic Address: _____

Minor First Aid Treatment

First aid kits are stored in the _____ . If you sustain an injury or are involved in an accident requiring minor first aid treatment:

- Inform your supervisor.
- Administer first aid treatment to the injury or wound.
- If a first aid kit is used, indicate usage on the accident investigation report.
- Access to a first aid kit is not intended to be a substitute for medical attention.
- Provide details for the completion of the accident investigation report.

Non-Emergency Medical Treatment

For non-emergency work-related injuries requiring professional medical assistance, management must first authorize treatment. If you sustain an injury requiring treatment other than first aid:

- Inform your supervisor.
- Proceed to the posted medical facility. Your supervisor will assist with transportation, if necessary.
- Provide details for the completion of the accident investigation report.

Emergency Medical Treatment

If you sustain a severe injury requiring emergency treatment:

- Call for help and seek assistance from a co-worker.
- Use the emergency telephone numbers and instructions posted next to the telephone in your work area to request assistance and transportation to the local hospital emergency room.
- Provide details for the completion of the accident investigation report.

First Aid Training

Each employee will receive training and instructions from his or her supervisor on our first aid procedures.

WOUNDS:

Minor: Cuts, lacerations, abrasions, or punctures-

- Wash the wound using soap and water; rinse it well.
- Cover the wound using clean dressing.

Major: Large, deep and bleeding

- Stop the bleeding by pressing directly on the wound, using a bandage or cloth.
- Keep pressure on the wound until medical help arrives.

BROKEN BONES:

- Do not move the victim unless it is absolutely necessary.
- If the victim must be moved, "splint" the injured area. Use a board, cardboard, or rolled newspaper as a splint.

BURNS:

Thermal (Heat)

Rinse the burned area, without scrubbing it, and immerse it in cold water; do not use ice water.

Blot dry the area and cover it using sterile gauze or a clean cloth.

Chemical

Flush the exposed area with cool water immediately for 15 to 20 minutes.

EYE INJURY:

Small particles

Do not rub your eyes.

Use the corner of a soft clean cloth to draw particles out, or hold the eyelids open and flush the eyes continuously with water.

Large or stuck particles

If a particle is stuck in the eye, do not attempt to remove it.

Cover both eyes with bandage.

Chemical

Immediately irrigate the eyes and under the eyelids, with water, for 30 minutes.

NECK AND SPINE INJURY:

If the victim appears to have injured his or her neck or spine, or is unable to move his or her arm or leg, do not attempt to move the victim unless it is absolutely necessary.

HEAT EXHAUSTION:

Loosen the victim's tight clothing.

Give the victim "sips" of cool water.

Make the victim lie down in a cooler place with the feet raised.

Workers' Compensation

Every state has a Workers' Compensation Law to provide benefits to employees for lost wages and medical bills resulting from a work related injury or illness. You are covered under Workers' Compensation. You may request Workers' Compensation benefits from your supervisor. Qualification for benefits is determined by the state, not GreenBar, Inc. . Your responsibilities are to keep appointments, follow all doctors' instructions on and off the job, maintain good communication with your supervisor, and to fully cooperate with all instructions you are given.

Workers' Compensation provides wages at a lower pay scale than what you may earn by working

Doesn't it make sense to be safe so that you don't have to be out on Workers' Compensation?

Your Safety Rights

You have several important rights concerning safety, which are protected by federal, state and local laws that you should be aware of. They are:

- The right to a safe work-place free from recognized hazards
- The right to request information on safety and health hazards in the workplace, precautions that may be taken, and procedures to be followed if an employee is injured or exposed to toxic substances.
- The right to know about the hazards associated with the chemicals you work with, and the safety procedures you need to follow to protect yourself from those hazards.
- The right to question any instruction which requires you to disobey a safety rule, which puts you or someone else in unnecessary danger of serious injury, or requires you to perform a task which you have not been trained to safely perform.
- The right of freedom from retaliation for demanding your safety rights.

Your Safety Responsibilities

You also have some important responsibilities concerning safety. These are:

- The responsibility of reporting all injuries and illnesses to your supervisor, no matter how small.
- The responsibility of always following the safety rules for every task you perform,
- The responsibility of reporting any hazards you see.
- The responsibility of helping your co-workers recognize unsafe actions or conditions they cause.
- The responsibility of asking about the safety rules you are not sure about.

Employee Safety Rules

It is impossible to list or include all safety rules for all the possible tasks you may have to do. But the following rules have been prepared to help you avoid hazards, which may cause injury while doing some of the more common tasks you may be asked to do. You should study and follow the rules provided in this booklet, and to ask your supervisor for additional rules when asked to do a task you are not familiar with, and this booklet does not cover. Failure to follow safety rules and /or safe practices will result in disciplinary action, up to and including termination.

GENERAL SAFETY RULES:

- Read and follow the safety notices and other information that is posted.
- Observe and follow all safety instructions, signs, and operation procedures.
- Help your fellow employees when they ask for assistance or when needed for their safety.
- Never participate in "horseplay". Horseplay that results in injury is often not covered by Workers' Compensation.
- Clean up spills immediately.
- Report all unsafe conditions, hazards, or equipment immediately. Make sure other people are warned of the problem so that they may avoid it.
- Wear personal protective equipment as required to reduce injury potential. Use gloves, safety glasses, back support belts, etc., as necessary.
- Never stand on chairs, furniture, or anything other than an approved ladder or step stool.
- Never use intoxicating beverages or controlled drugs before or during work. Prescription medication should only be used at work with your Doctor's approval.

FIRE SAFETY:

- Report all fire hazards to your supervisor immediately.
- Fire fighting equipment shall be used only for fire fighting purposes.
- Smoking is not permitted at any time in the areas where "No Smoking" signs are posted.

FIRE SAFETY (continued):

- Do not block off access to fire fighting equipment.
- Keep doors, aisles, fire escapes and stairways completely unobstructed at all times.
- In the case of a fire, your first consideration must be the safety of all persons, then attention should be directed to the protection of property.
- Change clothes immediately if they are soaked with oil, gasoline, paint thinner or any other flammable liquid.
- Know how to report a fire and how to turn on a fire alarm.
- Know the location of all fire extinguishers, and how to use them.
- Know the fire exits to be used in an emergency.

HAND TOOL SAFETY:

- Wear protective equipment necessary for the job you are performing. Discuss any required safety equipment with your supervisor as changes occur.
- Defective tools must not be used.
- Do not carry sharp hand tools in clothing.
- Check all wiring on electric hand tools for proper insulation and 3-prong plug grounding.
- **Hammers:** Use eye protection at all times!
- **Screwdrivers:** Use the right size and type of screwdriver for the job. Do not use a screwdriver as a chisel.
- **Wrenches:** In using any wrench, it is better to pull than to push. If you have to push, use your open palm. Use the proper wrench for the job.
- **Handsaws:** Saws that are sharp and rust free are less likely to bind or jump. Insure the object being cut is secured tightly to a flat surface.

PROTECTIVE EQUIPMENT:

- Approved eye protection (safety glasses with side shields, goggles, etc.) must be worn at all times when assigned any certain job classifications. It is important to check with your supervisor to assure compliance.
- Moccasins and shoes with open toes or high heels are not permitted.
- Wear protective clothing and equipment as required by your job classification to protect against hazards at hand. These include, but are not limited to, hard hats, steel toed shoes, gloves, fall safety harnesses, ear plugs, etc.

MATERIAL HANDLING SAFETY RULES:

- When lifting, lift properly. Keep the back straight, stand close to the load, and use your leg muscles to do the lifting, keeping the load close to the body. Never twist your upper body while carrying a load.
- When lifting heavy objects, utilize a two-wheeled dolly, or, ask for assistance from another employee.
- Inspect the object you are going to lift for sharp corners, nails, black widow spiders, or other things that may cause injury.
- Use gloves when handling rough or sharp materials.

HOUSEKEEPING:

- Do not place materials in aisles, stairways, or any designated path of travel.
- Stack material at a safe height so that material will not fall if bumped. Insure heavy loads have proper support, and make sure there is no overhanging or irregular stacking of material.
- Place all trash or scrap in places provided. Clean up all spills immediately.
- Report worn or broken flooring, stair treads, handrails, furniture, or other office equipment.
- Smoking is permitted only in designated areas. Use ashtrays for disposing of butts. Do not throw butts on the floor.

Personal Protective Equipment

Purpose:

To establish the policy for employees to wear Personal Protective Equipment.

Policy:

GreenBar, Inc. is dedicated to providing a safe and healthy workplace. All employees are expected to do their part to achieve this goal. Employees can do their part by using the proper Personal Protective Equipment (PPE) provided them.

Personal Protective Equipment will be provided, used and maintained in a sanitary and reliable condition wherever it is necessary to prevent injury. Personal Protective Equipment requirements include, but are not necessarily limited to the items below:

Protective Headwear:

Where there is the exposure of overhead danger from falling objects or from electric shock or burns, protective headwear must be worn. Protective headwear is an approved hard hat that meets the requirements of the American National Standards Institute (ANSI Z889.1-1969).

Protective headwear will be issued to the required employees. Employees are responsible for using their hard hats while working. Also, employees must notify their supervisor about a damaged or lost hardhat immediately.

Protective Eyewear:

When there is an exposure to the eyes from flying objects, glare or liquids, protective eyewear is required. Protective eyewear is an approved safety eye protector or safety goggle, which meets the standards of the American National Standards Institute (ANSI Z87.1-1968).

Protective eyewear will be issued to the required employees.

Disposable Dust Masks:

When there is the potential of exposure to airborne nuisance dust or particles, disposable dust masks are required.

Protective Gloves:

When there is an exposure to the hands, protective gloves are required. Protective gloves are construction type work gloves and chemical resistive gloves.

Construction type work gloves are required for, but not limited to, employees that have an opportunity of cutting, pinching, hitting, or burning their hands.

Chemical resistive gloves are required for, but not limited to, employees that have an opportunity of spilling hazardous chemicals or corrosive material onto their hands.

Machinery Tag Out Program

Purpose:

This policy and procedure establishes the minimum requirements for GreenBar, Inc. Machinery Tag Out Program. It governs lock out and/or tag out procedures to be used to verify that equipment or machines are isolated from all potentially hazardous energy. Machinery is to be locked out or tagged out before employees perform any servicing or maintenance activities where the unexpected energizing, start up or release of stored energy could cause injury.

Policy:

Procedures described apply to all electrical equipment and machinery connected to an energy source by either hard wire or other permanent connection (hydraulic lines, electrical, etc.) that is repaired, serviced, or maintained by GreenBar, Inc. personnel. The Machinery Tag Out Program applies to all equipment or machinery operated by mechanical, hydraulic, pneumatic, chemical, thermal, or other energy resources where the unexpected energizing could cause injury to employees or customers.

Circuit breakers disconnect switches, and other energy isolating devices used to control the flow of energy to the machine/equipment must be operated in such a manner as to shut off or "isolate" all energy to the machine.

Definitions:

Energy Source- Any source of electrical, mechanical, hydraulic, chemical, thermal, or any other energy source.

Energized- Connected to an energy source or containing residual or stored energy.

Energy Isolating Device- A mechanical device that physically prevents the transmission or release of energy (for example, circuit breaker, disconnect switch, slide gate, line valve, etc.)

Lock out- Placing a lock out device on an energy isolating device to shut down it's flow of energy.

Lock out device- A device such as a lock, either combination or key type, to hold an energy isolating device in the "safe" position and prevent energizing of a machine or equipment.

Tag out- Placing a tag or sign on an energy isolating device indicating that the equipment shall not be operated until the tag out sign is removed.

Tag out device- A prominent warning device or sign that can be attached to the energy isolating device. Tags will state the following:

DANGER-DO NOT OPERATE

Initial Training:

Employees involved in the use of this Machinery Tag Out Program must receive training in the requirements of this program upon initial assignment. The Site Project Manager is responsible for verifying that training is completed as required by this program.

Authorized employees will be trained in the recognition of hazardous energy sources present at the location they work, the type and magnitude of the energy available in the workplace, and the methods/means needed for energy isolation and control.

Employees must be trained to recognize when the Machinery Tag Out Program is being implemented and understand the purpose of the procedure and the importance of not attempting to start up or use machinery or equipment that has been locked or tagged out.

When tags are used, employees must be specifically instructed in the following limitations of tags:

- Tags are warning devices: they do not provide physical restraint that a lock out does.
- When a tag or lock is attached, it is not to be removed by anyone without authorization from the employee who placed it on the machine or equipment. They are never to be bypassed, ignored, or defaced.
- Tags must be legible and understandable to be effective.
- Tags and locks, and their means of attachment must be made of material that will withstand the working environment where the tags will be used.
- Tags and locks must be attached securely so they cannot inadvertently be detached during use.
- Tags evoke a false sense of security. They are only part of the entire Machinery Tagout Program.

Machinery Tag Out Program
Inspection Form

<u>This form will be used when inspecting the Tag Out/ Lock Out Procedure</u>

Inspector's Name _____ Date _____

MACHINERY / EQUIPMENT INSPECTED	**COMMENTS**
1. _____	_____.
2. _____	_____.
3. _____	_____.
4. _____	_____.
5. _____	_____.
6. _____	_____.
7. _____	_____.
8. _____	_____.
9. _____	_____.
10. _____	_____.

I hereby certify that I have inspected the Lock Out/Tag Out procedure for the above listed equipment, have interviewed operators of such equipment and determined that compliance with GreenBar, Inc. Lock Out/Tag Out procedure is satisfactory.

_____ _____

Inspectors Signature Date

Lock and Tag Check Out / Check In Log

Date	Lock # Tag #	Employee	Equipment to be Locked or Tagged Out	Check Out Time	Check In Time

Hazard Prevention and Control

GreenBar, Inc. shall undertake efforts as outlined in this section to correct or control potential hazards in a timely manner.

GreenBar, Inc. will implement methods to eliminate the hazard, and will implement procedures for safe work. Safe work will be done through training, correction of unsafe performance, and compliance through the disciplinary system.

Identified Safety and Health Concerns:

All identified potential workplace safety and health hazards should be reported to the Divisional Manager, or a member of management. Situations that are unsafe, or posing as a safety and health hazard, will be reviewed and reported to management for corrective action.

Newly Identified Safety and Health Concerns:

Anytime a new substance, procedure, equipment, or process is introduced into the workplace, which creates or is reported to create an unsafe condition or situation, the Divisional Manager will evaluate the substance, procedure, equipment, or process. Employees will have an opportunity to submit their recommendations and suggestions regarding new workplace hazards at any time.

Hazards Which Create a Risk of Imminent Harm:

When a hazard exists which GreenBar, Inc. cannot control or abate immediately without endangering employees and /or property, all exposed personnel will be removed from the immediate area of potential exposure, except those employees that are necessary to correct the hazardous condition. All employees involved in correcting the hazardous situation will receive appropriate training and/or instruction in how to do so. They will also be provided with the appropriate personal protective equipment.

Hazards Which Do Not Create a Risk of Imminent Harm:

Unless there are factors beyond GreenBar, Inc. reasonable control, such hazards are to be abated within 5 days or less.

Housekeeping:

Good housekeeping is an integral part of any effective safety program. Keeping work areas neat and clean reduces the potential for accidents and injuries. Each employee is responsible for keeping his or her work area neat, orderly, and free of any hazardous condition.

Liability Report Form

Date: _____

Claimant's Name: _____ Age: _____ Phone: _____

Address: _____

Description of Occurrence: _____

_____

_____

_____

_____

.

Injuries: _____ Medical Care? YES NO

Ambulance? YES NO Hospital or Doctor: _____

Property Damage? YES NO describe same: _____

_____

_____

_____

.

Is a Product Involved? YES NO Name and Size: _____

Name and Address of Manufacturer: _____

_____

.

Did Claimant Slip, Fall, or Trip? _____ Was Area Inspected? YES NO

Foreign Matter or Debris Found on Floor? YES NO Describe: _____

_____

.

Witnesses: Name: _____ Phone: _____

Address: _____

Name: _____ Phone: _____

Address: _____

Photos Taken? YES NO Additional Remarks: _____

_____

Report Prepared By: _____

Emergency Action Plan

Purpose:

To establish the policy and procedures regarding management's and employee's response to various emergency situations. Examples of an emergency are fire, tornado, earthquake, and bomb threat.

Overview:

The procedures cover the following topics:

1. **Fire Reporting and Response**
2. **Evacuation**
3. **Tornado Preparation and Emergency**
4. **Bomb Threat**
5. **First Aid**
6. **Hazardous Material Spill**
7. **Earthquake**
8. **Robbery**

Policy:

GreenBar, Inc. has developed plans that address emergency situations that may arise in GreenBar, Inc. locations and which may threaten human health and safety, and damages GreenBar, Inc. assets. Management is responsible for implementing the Emergency Action Plans. These Emergency Action Plans will meet the following objectives:

1. Provide a means of notifying employees, customers and local authorities of an emergency situation.
2. Provide for a safe and orderly method of evacuation of employees and customers from GreenBar, Inc. premises.
3. Account for all employees who occupied GreenBar, Inc. premises at the time of evacuation, should one occur.

Emergency Action Plans will (continued):

4. Provide emergency first aid treatment or summon emergency medical assistance for injured individuals.
5. Provide training and needed information to those employees responsible for taking action in the event of an emergency.

Signs as required by ordinance, regulation, or law will identify emergency exits. Employees are required to be familiar with the location(s) of alarm pull stations and emergency exits.

Training on Emergency Action Plans will take place during new employee orientation, when changes occur in the action plans, and periodically as coordinated by the Site Project Manager.

Smoking is never allowed anywhere on GreenBar, Inc. premises during an emergency

If hazardous materials are involved, disposal must be done in compliance with federal, state, and local environmental laws.

Procedure:

I. Fire Reporting and Procedure:

If a fire alarm or alert is sounded or a fire is reported by an employee, regardless of the reason for the alarm or the severity of the fire, the following action must be taken immediately:

Site Management

1. Immediately notifies the Fire Department by dialing 911 (where applicable) or the local fire emergency number: _____ .
2. Gives GreenBar, Inc. name, address, and area where the fire is located.
3. Assigns an employee to wait for the fire department outside GreenBar, Inc. and direct them to the fire's location.
4. Announces evacuation instructions over the public address system. "Ladies and Gentlemen. GreenBar, Inc. is being temporarily closed. We request that you leave by the nearest exit immediately. Thank you."

I. Fire Reporting and Procedure (continued):

Site Management

5. Once outside GreenBar, Inc., takes a head count of employees to insure all were safely evacuated.

Double checks that all individuals are out of GreenBar, Inc. premises.

Note: When one or more employees are unaccounted for, employees are not to re-enter the building to conduct a search. Notify the ranking fire or other emergency response official on the scene and their approximate location.

6. Immediately after the fire, notify the Divisional Manager of GreenBar, Inc. and all other management individuals. Coordinate any salvage and repair operations.

Employee

7. If trained in the use of fire extinguishers, may attempt to suppress a small fire, until relieved by the Fire Department or until it becomes apparent that the fire cannot be controlled by fire extinguishers.

Note: Employees should never attempt to control a fire, which endangers their health. They must immediately evacuate the area when it becomes apparent that the fire cannot be controlled or when conditions become more hazardous.

II. Evacuation:

Site Management

1. Telephones the local emergency agency (for example, fire, police, hazardous materials team, etc.).
2. Makes the following announcement on the public address system, "Ladies and Gentlemen. GreenBar, Inc. is being temporarily closed. Please leave by the nearest exit immediately. Thank you." Make this announcement twice, and repeats it every minute or more frequently if needed.
3. Checks all areas of their respective departments, restrooms, and public areas to verify that employees and individuals are evacuated.

Evacuation (continued):

Site Management

4. Secures all cash, checks, and charge documents in the safe if time permits.

5. Designates a safe area outside GreenBar, Inc. as a gathering point for all employees. Takes a head count of employees to insure all were safely evacuated.

Note: Employees are not to re-enter the building. Management will notify the ranking fire or other emergency response official on the scene of a potentially trapped person and their approximate whereabouts.

6. Dismisses all non-essential employees.

7. Notify the Divisional Manager of GreenBar, Inc.

II. Tornado Preparation and Emergency:

Prior to any tornado emergency, Management will designate safe shelter areas within the building for employees and individuals. There are some general guidelines that may be used to aid in the selection of such spaces. When selecting a safe shelter, consider:

- The lowest floor, preferably a basement
- Interior spaces- rooms with no walls on the exterior
- Areas supported by secure, rigid structural frame members
- Short roof spans

GreenBar, Inc. safe shelter area is located _____. It will be stocked with a first aid kit or medical supplies and several flashlights.

Tornado Watch Procedures

Site Management

1. A Tornado Watch means that conditions are right for severe thunderstorms and possible tornadoes to develop. When notified of a tornado watch in the area, Senior Management will tune the radio to the National Weather Service channel to stay current on the storm progress.

2. Checks to insure that all safe shelter areas are unlocked and accessible.

Tornado Watch Procedures (continued)

Site Management

3. Checks to be sure that medical supplies and flashlights are stored in the safe shelter area.

4. If time permits, “X” the windows with tape or secure plywood to the outside of windows.

Tornado Warning Procedures

Site Management

1. A Tornado Warning means a tornado has been seen or detected by radar. Site Management will inform all employees and individuals to take cover in shelter areas immediately.

2. Makes the following announcement on the P.A. System: “ Ladies and Gentlemen. The National Weather Service has issued a Tornado Warning for this area. Due to this warning, GreenBar, Inc. is being temporarily closed**.** **Please do not leave the building.** We request that you proceed to the shelter area(s) located in the **name of location(s)**”

3. Assigns someone to shut off the main gas and electrical system.

4. Afterwards, coordinates first aid assistance to individuals.

III. Bomb Threat:

When someone calls and says there is a bomb in the building, the following steps will be performed:

Employee
(Receiving Threat)

1. Keeps the caller on the line as long as possible. Asks them to repeat the message. Tries to write down every word spoken by the caller.

2. Asks the caller where the bomb is located and when it will go off.

IV. Bomb Threat (continued):

Employee

3. Tells the caller that the building is occupied and detonation of a bomb could result in the death and injury to innocent people.

4. Pays particular attention to background noises, such as music playing, engine noises, etc.

5. Listens to the voice, male, female, voice quality, accent, and speech impediments.

6. When the caller hangs up, **do not hang up the phone!** Sometimes, phones can be traced back to the source. Immediately notify management and describe the threat.

Site Management

7. Calls the local Police or Fire Department to report the Incident. Follows all recommendations and instructions provided by either department.

8. If the Police or Fire Department declines to give instructions to evacuate the building, search the premises (if time permits) for any suspicious looking device or package. If one is found, follow the Evacuation Plan. **Do not touch any suspicious device or package.**

IV. First Aid:

If an employee / individual is injured, the initial responsibility of management is to provide the needed first aid or arrange for emergency medical response or professional medical care.

Site Management

1. Treats the injured individual using the supplies from GreenBar, Inc. first aid kit.

2. In the event an employee is seriously injured and requires professional medical care, drive the employee to a medical provider. If any individual is not mobile or has a life threatening injury or illness, arrange for emergency care and transportation (call 911).

V. Hazardous Material Spill:

Management will respond to incidental releases of hazardous substances when the substance can be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate area or by maintenance personnel. If a large spill or fire occurs that is not

controllable, Management will contact the appropriate local authorities, such as the Fire Department.

VI. Earthquake:

All employees must be aware of the potential for earthquakes and the resulting damage to buildings and facilities.

A. <u>During an Earthquake:</u>

Employee

1. If indoors, stay indoors; if outdoors, stay outdoors. In earthquakes, most injuries occur as people are entering or leaving buildings.

   1.a. If indoors:

   1) Take cover beneath a desk, table, bench or in doorways, halls or against an interior wall.

   2) Stay away from glass windows and glass doors, and away from containers having hazardous material stored.

   1.b. If outdoors:

   1) Move away from buildings and all structures, and all overhead electrical wires.

   2) If operating a vehicle, stop as soon as possible, but stay inside the vehicle.

B. <u>After an Earthquake:</u>

Site Management

1. Coordinates first aid efforts.

2. Turns on the radio to get emergency information from local authorities.

B. <u>After an Earthquake (continued):</u>

Site Management

3. Check natural gas lines for leaks. If a leak is detected, shuts down the system, and notifies the local gas service company.

4. Shuts off the electrical current at the main breaker box if Power has been interrupted.

5. Directs employees and individuals to a safe assembly area outside the building.

6. Takes a head count to insure all employees were safely Evacuated.

7. Does not permit individuals to enter the building again until cleared by authorities.

8. Assigns duties to clean up damage and resume business as soon as possible.

VII. Robbery:

In the event a robbery occurs, the main objective is to reduce the risk of injury to employees and individuals and to get the robber out of the building as soon as possible.

Employee

1. Be attentive and calm. Listen to the robber and do exactly what he/she asks you to do.

2. Do give up money as demanded.

3. Remain alert. Try to remember details of the robber's appearance, clothing, speech, etc.

4. If possible, watch the robber's method and direction of escape.

5. Expect foul/strong language. Expect to lie on the floor.

6. Do not make any sudden movements.

VII. <u>Robbery (continued):</u>

Employee

7. Don't overreact. Do not grab for the weapon or call for help.

8. Do not argue.

9. After the robbery, write everything down.

Site Management

10. Call the Police

11. Call the Divisional Manager of GreenBar, Inc.

12. Have all witnesses write everything they can recall.

Hazardous Material Spill Response

Purpose:

To establish the policy and procedures regarding Management and employee response and actions to a hazardous material spill or leak.

Policy:

Federal, state, and local environmental laws dictate the specific handling and disposal methods of hazardous materials. Failure to comply with these laws can be very costly as well as environmentally negligent. GreenBar, Inc. will fully comply with all laws and regulations pertaining to the handling and disposal methods of hazardous materials. GreenBar, Inc. will train all employees in the proper procedures to follow and what to do when they encounter a hazardous spill or leak.

Overview:

There are four classifications of hazardous chemicals that employees will likely come into contact with. These are:

IGNITABLES---TOXICS---CAUSTICS---REACTIVES

IGNITABLES- Ignitable products are either flammable or combustible. A spill of this nature creates two problems: one involving the potential for explosion and/or fire, and the other is the pollution of the environment. Examples are gasoline, paint thinners, petroleum solvents, alcohol, and adhesives.

TOXICS- These products are poisonous to the body and can cause illness or death. Examples are anti-freeze, paint, insecticides, fertilizer, and cleaning fluids.

CAUSTICS- A caustic is anything that burns, strongly irritates, corrodes or simply destroys the skin. Examples are acids and drain cleaners.

REACTIVES- These products react violently when mixed with other products. The most common example is dry or liquid chlorine.

Procedure:

Regardless of the nature of the spill, and before starting any cleanup activities, the employee(s) shall always secure the area around the spill. This is to include asking all other unnecessary employees and customers to move a safe distance away from the spill site. The employee(s) shall also barricade or cordon off access to the site with tape or other visual barriers as needed to keep people from wandering into the spill site. Once the area is secure, Management shall be notified of the spill, its location, and when the area is clean. Management shall also notify public officials as necessary.

Procedure:(continued)

Employee(s) that are required and directed to conduct the cleanup shall always check the warning label of an unbroken container or the Material Safety Data Sheet (MSDS) of the product involved in the spill or leak. Either the product label or the MSDS should have cleanup procedures (Section VII of the MSDS form). If not, or if time does not permit, the employee(s) shall consider the product extremely hazardous and use the following cleanup procedure:

1. Immediately shut off or eliminate all possible sources of ignition to include turning off anything that might produce a spark, flame, or friction.
2. A fire extinguisher must accompany all ignitable spill cleanups.
3. Cover the spill or leak with absorbent materials to reduce evaporation.
4. Ventilate the area as well as possible by opening doors and windows.
5. If a spill is large, a fan shall be set up at least ten feet from the person cleaning up the spill. The fan shall be behind the person cleaning up the spill to blow the hazardous vapors away from their breathing area.
6. Wear safety goggles, gloves, disposable overshoes, and respirator (as necessary) prior to cleaning up the substance.
7. Small spills (one pint or less) can be cleaned up with absorbent materials (rags, paper towels, etc.), and placed into a plastic bag. These bags will be labeled as a flammable or combustible. The label on the bag must also have the following information: (1) the name of the product in the bag, (2) the quantity of material in the bag, (3) name of manufacturer, (4) and the date of the spill. The words “Hazardous Waste” must be clearly marked on the bag.
8. After the spill area is thoroughly dry, the spill area shall be scrubbed with a mild detergent using a broom or mop.
9. Disposal shall be in accordance to guidelines of local and state regulations. The bags shall then be placed in properly labeled containers for disposal. The Project Manager shall ensure that storage and disposal shall be in accordance to guidelines of local and state regulations.
10. All efforts shall be taken to prevent hazardous material from entering sewage systems. If infiltration occurs, the fire department shall be notified.

Employee(s) in contact with the hazardous material shall be informed to recognize physical symptoms of accidental exposure (found in MSDS Section VI). They shall be told that if they develop a ***skin rash, shortness of breath, asthma or any abnormal condition, they are to see a doctor immediately for an evaluation!***

BLOODBORNE PATHOGENS

It is imperative that management photocopies these four pages and gives them to all employees during a training session. All employees shall be trained on the risk of bloodborne pathogens and the proper handling of blood and other bodily fluids.

What Everyone Needs to Know

Bloodborne pathogens are microorganisms carried by human blood (and other body fluids) and cannot be seen with the naked eye. They can be spread through contact with infected blood. If they get into the bloodstream, an individual may become infected and sick.

Most personnel cannot reasonably anticipate coming into contact with blood during their day-to-day work duties. That's why it's imperative that all personnel understand the danger of exposure to bloodborne pathogens and ways to minimize their risk.

Bloodborne pathogens may be present in blood and other materials, such as:

- body fluids containing visible blood
- semen and vaginal secretions
- torn or loose skin

Bloodborne pathogens can cause infection by entering the body through:

- open cuts and nicks
- skin abrasions
- dermatitis
- acne
- mucous membranes of the mouth, eyes or nose

WORKPLACE TRANSMISSION

The most common bloodborne pathogens are HIV, Hepatitis B, and Hepatitis C:

HIV (AIDS)

HIV, the human immuno-deficiency virus, attacks the body's immune system causing it to weaken and become vulnerable to infections that can lead to a diagnosis of acquired immune deficiency syndrome or AIDS.

HIV is transmitted mainly through sexual contact and sharing contaminated needles, but also may be spread by contact with infected blood and body fluids. HIV is NOT transmitted indirectly by touching or working around people who are HIV-positive.

WORKPLACE TRANSMISSION (continued)

HIV (AIDS)(continued):

Employees can prevent getting HIV by stopping the passage of the virus from a person who has HIV to them. In many instances, the employee has control over the activities that can transmit HIV. Since HIV is most frequently transmitted by sharing needles or through sexual intercourse, employees can stop transmission by refusing to engage in these behaviors.

Hepatitis B

Hepatitis is a general term used to describe inflammation (swelling) of the liver. Alcohol, certain chemicals or drugs, and viruses such as hepatitis A, B, C, D, E and G may cause hepatitis.

- Hepatitis B is a serious, sometimes fatal disease, caused by a virus that infects and attacks the liver. The virus is transmitted through direct contact with infected blood, semen, or vaginal fluid. It is primarily spread through sexual contact.
- In studies that examine transmission following injections into the skin, HBV is 100 times more contagious than HIV.
- **HBV can also be transmitted indirectly because it can survive on surfaces dried and at room temperature for at least a week!** That's why contaminated surfaces are a major factor in the spread of HBV.
- Each year there are up to 200,000 new infections and 5,000 hepatitis B related deaths in the U.S. (compared to 40,000 new HIV infections per year).
- One in approximately 20 persons now has, or will one day have, hepatitis B
- Transmission of hepatitis B is preventable:
    - Use latex condoms during sex
    - Do not share needles
    - Use universal precautions in the workplace
    - Get the hepatitis B vaccination

WORKPLACE TRANSMISSION (continued)

Hepatitis C

Hepatitis is a general term used to describe inflammation (swelling) of the liver. Alcohol, certain chemicals or drugs, and viruses such as hepatitis A, B, C, D, E and G may cause hepatitis.

- Hepatitis C is a serious, often fatal disease, caused by a virus that infects and attacks the liver. HCV is more common than hepatitis B and ranks slightly below alcoholism as a cause of liver disease.
- However, HCV is not as infectious as HBV because there are generally lower levels of the hepatitis C virus in the blood than of the hepatitis B virus
- HCV is primarily transmitted through blood-to-blood contact -- most commonly through shared needles. The risk of transmitting HCV through sexual contact appears to be low, but precautions should be taken anyway. HCV cannot be transmitted by casual contact such as shaking hands or sharing bathroom facilities.
- Up to 180,000 people may become infected with HCV each year in the U.S.
- Transmission of hepatitis C is preventable:
  - Use latex condoms during sex
  - Do not share needles
  - Use universal precautions in the workplace
  - HOWEVER, unlike hepatitis B, currently there is NO VACCINE for hepatitis C. And also unlike HBV, there is no drug to prevent HCV infection after an exposure.

Guidelines for Handling Blood and Other Bodily Fluids

Many personnel are concerned that HIV may be spread through contact with blood and other body fluids when an accident occurs at work.

HIV, as noted earlier, has been found in significant concentrations in blood, semen, vaginal secretions, and breast milk. Other body fluids, such as feces, urine, vomit, nasal secretions, tears, sputum, sweat, and saliva do not transmit HIV unless they contain visible blood. However, these body fluids do contain potentially infectious germs from diseases other than AIDS. **If an individual has contact with any of these body fluids, they are at risk of infection from these germs**. It should be remembered that the risk of transmission of these germs depends on many factors, including the type of fluid contacted, the type of contact made, and the duration of the contact.

Very simply, it is good hygiene policy to treat all spills of body fluids as ***infectious*** in order to protect personnel from becoming infected with any germs and viruses. The procedures outlined below offer protection from all types of infection, and should be followed routinely.

How Should Blood and Body Fluid Spills be Handled?

Whenever possible, employees shall wear disposable, waterproof gloves when they expect to come into direct hand contact with body fluids (when treating bloody noses, handling clothes soiled by incontinence, or cleaning small spills by hand). Gloves used for this purpose shall be put in a plastic bag or lined trash can, secured, and disposed of daily. Hands should always be washed after gloves are removed, even if the gloves appear to be intact.

If an employee has unexpected contact with body fluids or if gloves are not available (for example, applying pressure to a bleeding wound), the employee shall wash their hands and other affected skin for at least 30 seconds with soap and water after the direct contact has ended. This precaution is recommended to prevent exposure to other pathogens, not just HIV. As has been discussed, blood, semen, vaginal secretions, and blood-contaminated body fluids transmit HIV. Wiping a runny nose, saliva, or vomit does not pose a risk for HIV transmission.

Handwashing

Proper handwashing requires the use of soap and warm water and vigorous washing under a stream of running water for at least 30 seconds. If hands remain visibly soiled, more washing is required. Scrubbing hands with soap will suspend easily removable soil and microorganisms, allowing them to be washed off. Running water is necessary to carry away dirt and debris. Rinse your hands under running water and dry them thoroughly with paper towels or a blow dryer. When hand-washing facilities are not available, use a waterless antiseptic cleanser, following the manufacturer's directions for use.

Disinfectants

An EPA approved germicide or a solution of 99 parts water to 1 part household bleach (or ¼ cup bleach to one gallon of water) will inactivate HIV, and should be used to clean all body fluid spills. Higher concentrations of bleach can be corrosive, and are unnecessary. Surfaces should be cleaned thoroughly prior to disinfection.

Disinfecting Hard Surfaces and Caring for Equipment

Although hard surfaces have not been found to be a means of transmitting HIV, it is good hygiene policy to clean any soiled hard surfaces thoroughly. To do this, scrub the surface to remove any soil and apply a germicide (like the bleach/water solution described above) to the equipment used. Mops should be soaked in this solution after use and rinsed thoroughly with warm water. The solution should be promptly disposed of down a drainpipe. Remove gloves and discard them in appropriate receptacles, and wash hands as described above.

Laundry Instructions for Clothing Soiled with Body Fluids

It is important to remember that laundry has never been implicated in the transmission of HIV. To ensure safety from transmission of other germs, contaminated clothes must be laundered with soap and water to eliminate potentially infectious agents. The addition of bleach will further reduce the number of potentially infectious agents. Clothing soaked with body fluids may be washed separately from other items. Pre-soaking may be required for heavily soiled clothing. Otherwise, wash and dry as usual, following the directions provided by the manufacturer of the laundry detergent. If the material can be bleached, add ½ cup of household bleach to the wash cycle. If the material is not colorfast, add ½ cup of non-chlorine bleach to the wash cycle.

It is good hygiene to treat all bodily fluids as infectious.

Fall Protection Plan

Policy:

It is the policy of the Company to take all practical measures possible to prevent employees from being injured by falls from heights. The Company will take all necessary steps to eliminate, prevent, and control fall hazards. The Company will comply fully with the OSHA Fall Protection standard (CFR 1926, Subpart M, Fall Protection).

This policy will follow the OSHA standard for potential falls from heights of 6 feet and mores. First consideration will be given to the elimination of fall hazards. If a fall hazard cannot be eliminated, effective fall protection will be planned, implemented, and monitored to control the risks of injury due to falling.

All personnel exposed to potential falls from heights will be trained to minimize their exposures. Fall protection equipment will be provided and used by all employees. Managers will be responsible for implementation of a fall protection plan for each job site.

Fall Hazard Identification and Evaluation Responsibilities:

The Manager/foreman on each job site will be responsible for identifying fall hazards on their job site. The Manager/foreman will evaluate each situation or work procedure where employees may be exposed to a fall of 6 feet or more. The Manager/foreman will be responsible for developing a plan to eliminate the exposures, if possible, or to select the appropriate fall protection systems and/or equipment.

Examples of Situations Requiring Fall Protection:

The following are examples of situations were fall protection will be required. This listing is by no means complete, and there are many other situations where a fall of 6 feet or more is possible. It should be noted that ladders and scaffolding are not included in this list. They are covered by other OSHA standards and other requirements of our safety program.

- Wall Openings

  Any employee working near a wall opening (including those with chutes attached) where the outside bottom edge of the wall opening is 6 feet or more from a lower level, or the wall opening is less than 39 inches (1.0 meter) above the walking/working surface below, will be protected from falling by the use of a guardrail system, a safety net system, or a personal fall arrest system.

- Holes

  Personal fall arrest systems, covers, or guardrail systems shall be erected around holes (including skylights) that are more than 6 feet above lower levels.

Examples of Situations Requiring Fall Protection: (continued)

- Leading Edges

  Each employee who is constructing a leading edge 6 feet or more above lower levels shall be protected by guardrail systems, safety net systems, or personal fall arrest systems.

- Excavations

  Each employee at the edge of an excavation 6 feet or more deep shall be protected from falling by guardrail systems, fences, barricades, or covers. Where walkways are provided to permit employees to cross over excavations, guardrails are required on the walkway if it is 6 feet or more above the excavation.

- Form-work and Reinforcing Steel

  For employees, while moving vertically and/or horizontally on the vertical face of reinforcing bar (rebar) assemblies built in place, fall protection is not required when employees are moving. OSHA considers the multiple hand holds and foot holds on rebar assemblies as providing similar protection as that provided by a fixed ladder. Consequently, no fall protection is necessary while moving point to point for heights below 24 feet. An employee will be provided with fall protection when climbing or otherwise moving at a height more than 24 feet, the same as for fixed ladders.

- Hoist Areas

  Each employee in a hoist area shall be protected from falling 6 feet or more by guardrail systems or personal fall arrest systems. If guardrail systems (chain gate or guardrail) or portions thereof must be removed to facilitate hoisting operations, as during the landing of materials, and a worker must lean through the access opening or out over the edge of the access opening to receive or guide equipment and materials, that employee must be protected by a personal fall arrest system.

- Overhand Bricklaying and Related Work

  Each employee performing overhand bricklaying and related work 6 feet or more above lower levels shall be protected by guardrail systems, safety net systems, or personal fall arrest systems, or shall work in a controlled access zone. All employees reaching more than 10 inches (25 cm) below the level of a walking/working surface on which they are working shall be protected by a guardrail system, safety net system, or personal fall arrest system.

Examples of Situations Requiring Fall Protection: (continued)

- Precast Concrete Erection and Residential Construction

  Each employee who is 6 feet or more above lower levels while erecting precast concrete members and related operations such as grouting of precast concrete members and each employee engaged in residential construction, shall be protected by guardrail systems, safety net systems, or personal fall arrest systems.

- Ramps, Runways, and Other Walkways

  Each employee using ramps, runways, and other walkways shall be protected from falling 6 feet or more by guardrail systems.

- Low-slope Roofs

  Each employee engaged in roofing activities on low-slope roofs with unprotected sides and edges 6 feet or more above lower levels shall be protected from falling by guardrail systems, safety net systems, personal fall arrest systems or a combination of a warning line system and guardrail system, warning line system and safety net system, warning line system and personal fall arrest system, or warning line system and safety monitoring system. On roofs 50 feet or less in width, the use of a safety monitoring system without a warning line system is permitted.

- Steep Roofs

  Each employee on a steep roof with unprotected sides and edges 6 feet or more above lower levels shall be protected by guardrail systems with toeboards, safety net systems, or personal fall arrest systems.

- Controlled Access Zones

  A Controlled access zone is a work area designated and clearly marked in which certain types of work (such as overhand bricklaying) may take place without the use of conventional fall protection systems—guardrail, personal arrest or safety net—to protect the employees working in the zone.

  Controlled access zones are used to keep out workers other than those authorized to enter work areas from which guardrails have been removed. Where there are no guardrails, masons are the only workers allowed in controlled access zones.

  Controlled access zones, when created to limit entrance to areas where leading edge work and other operations are taking place, must be defined by a control line or by any other means that restrict access.

- Controlled Access Zones (continued)

  Control lines shall consist of ropes, wires, tapes or equivalent materials, and supporting stanchions, and each must be:

  - Flagged or otherwise clearly marked at not more than 6-foot intervals with a high-visibility material

  - Rigged and supported in such a way that the lowest point (including sag) is not less than 39 inches from the walking/working surface and the highest point is not more than 45 inches --nor more than 50 inches when overhand bricklaying operations are being performed—from the walking/working surface

  - Strong enough to sustain stress of not less than 200 lbs. Control lines shall extend along the entire length of the unprotected or leading edge and shall be approximately parallel to the unprotected or leading edge.

  - Control lines will be connected on each side to a guardrail system or wall.

  When control lines are used, they shall be erected not less than 6 feet nor more than 25 feet from the unprotected or leading edge, except when precast concrete members are being erected. In the latter case, the control line is to be erected not less than 6 feet nor more than 60 feet or half the length of the member being erected, whichever is less, from the leading edge.

  Controlled access zones when used to determine access to areas where overhand bricklaying and related work are taking place are to be defined by a control line erected not less than 10 feet nor more than 15 feet from the working edge. Additional control lines must be erected at each end to enclose the controlled access zone. Only employees engaged in overhand bricklaying or related work are permitted in the controlled access zones.

  On floors and roofs where guardrail systems are not in place prior to the beginning of overhand bricklaying operations, controlled access zones will be enlarged as necessary to enclose all points of access, material handling areas, and storage areas.

  On floors and roofs where guardrail systems are in place, but need to be removed to allow overhand bricklaying work or leading edge work to take place, only that portion of the guardrail necessary to accomplish that day’s work shall be removed.

Fall Protection Systems:

When there is a potential fall of 6 feet or more, the Company will utilize one or more of the following means of providing protection:

- Guardrail Systems

  Guardrail systems must meet the following criteria. Toprails and midrails of guardrail systems must be at least one-quarter inch nominal diameter or thickness to prevent cuts and lacerations. If wire rope is used for toprails, it must be flagged at not more 6 feet intervals with a high-visibility material. Steel and plastic banding will not be used as toprails or midrails. Manila, plastic, or synthetic rope used for toprails or midrails must be inspected as frequently as necessary to ensure strength and stability.

  The top edge height of toprails, or (equivalent) guardrails must be 42 inches plus or minus 3 inches, above the walking/working level. When workers are using stilts, the top edge height of the top rail, or equivalent member, must be increased an amount equal to the height of the stilts.

  Screens, midrails, mesh, intermediate vertical members, or equivalent intermediate structural members must be installed between the top edge of the guardrail system and the walking/working surface when there are no walls or parapet walls at least 21 inches high. When midrails are used, they must be installed at a height midway between the top edge of the guardrail system and the walking/working level. When screens and mesh are used, they must extend from the top rail to the walking/working level and along the entire opening between top rail supports. Intermediate members, such as balusters, when used between posts, shall not be more than 19 inches apart.

  Other structural members, such as additional midrails and architectural panels, shall be installed so that there are no openings in the guardrail system more than 19 inches.

  The guardrail system must be capable of withstanding a force of at least 200 pounds applied within 2 inches of the top edge in any outward or downward direction. When the 200 pound test is applied in a downward direction, the top edge of the guardrail must not deflect to a height less than 39 inches above the walking/working level.

  Midrails, screens, mesh, intermediate vertical members, solid panels, and equivalent structural members shall be capable of withstanding a force of at least 150 pounds applied in any downward or outward direction at any point along the midrail or other member.

  Guardrail systems shall be surfaced to protect workers from punctures or lacerations and to prevent clothing from snagging.

  The ends of top rails and midrails must not overhang terminal posts, except where such overhang does not constitute a projection hazard.

- Guardrail Systems

  When guardrail systems are used at hoisting areas, a chain, gate or removable guardrail section must be placed across the access opening between guardrail sections when hoisting operations are not taking place.

  At holes, guardrail systems must be set up on all unprotected sides or edges. When holes are used for the passage of materials, the hole shall have not more than two sides with removable guardrail sections. When the hole is not in use, it must be covered or provided with guardrails along all unprotected sides or edges.

  If guardrail systems are used around holes that are used as access points (such as ladderways), gates must be used or the point of access must be offset to prevent accidental walking into the hole.

  If guardrails are used at unprotected sides or edges of ramps and runways, they must be erected on each unprotected side or edge.

Personal Fall Arrest Systems:

These consist of an anchorage, connectors, and a body belt or body harness and may include a deceleration device, lifeline, or suitable combinations. If a personal fall arrest system is used for fall protection, it must do the following:

- Limit maximum arresting force on an employee to 900 pounds when used with a body belt
- Limit maximum arresting force on an employee to 1,800 pounds when used with a body harness
- Be rigged so that an employee can neither free fall more than 6 feet nor contact any lower level
- Bring an employee to a complete stop and limit maximum deceleration distance an employee travels to 3.5 feet
- Have sufficient strength to withstand twice the potential impact energy of an employee free falling a distance of 6 feet or the free fall distance permitted by the system, whichever is less.

The use of body belts for fall arrest is prohibited and a full body harness is be required.

Personal fall arrest systems must be inspected prior to each use for wear damage, and other deterioration. Defective components must be removed from service.

Positioning Device Systems:

These body belt or body harness systems are to be set up so that a worker can free fall no farther than 2 feet. They shall be secured to an anchorage capable of supporting a least twice the potential impact load of an employee's fall or 3,000 pounds, whichever is greater.

Safety Monitoring Systems:

When no other alternative fall protection has been implemented, the Company shall implement a safety monitoring system. The Company will appoint a competent person to monitor the safety of workers and shall ensure that the safety monitor:

- Is competent in the recognition of fall hazards;
- Is capable of warning workers of fall hazard dangers and in detecting unsafe work practices;
- Is operating on the same walking/working surfaces of the workers and can see them;
- Is close enough to work operations to communicate orally with workers and has no other duties to distract from the monitoring function.

Mechanical equipment shall not be used or stored in areas where safety monitoring systems are being used to monitor employees engaged in roofing operations on low-sloped roofs.

No worker, other than one engaged in roofing work (on low-sloped roofs) or one covered by a fall protection plan, shall be allowed in an area where an employee is being protected by a safety monitoring system.

All workers in a controlled access zone shall be instructed to promptly comply with fall hazard warnings issued by safety monitors.

Safety Net Systems:

Safety nets must be installed as close as practicable under the walking/working surface on which employees are working and never more than 30 feet (9.1 meters) below such levels. Defective nets shall not be used. Safety nets shall be inspected at least once a week for wear, damage, and other deterioration. Safety nets shall be installed with sufficient clearance underneath to prevent contact with the surface or structure below.

Items that have fallen into safety nets including—but not restricted to, materials, scrap, equipment, and tools—must be removed as soon as possible and at least before the next work shift.

Warning Line Systems:

Warning line systems consist of ropes, wires, or chains, and supporting stanchions and are set up as follows:

- Flagged at not more than 6-foot intervals with a high-visibility material;
- Rigged and supported so that the lowest point including sag) is no less than 34 inches from the walking/working surface and its highest point is no more than 39 inches from the walking/working surface.
- Stanchions, after being rigged with warning lines, shall be capable of resisting, without tipping over, a force of at least 16 pounds applied horizontally against the stanchion, 30 inches above the walking/working surface, perpendicular to the warning line and in the direction of the floor, roof, or platform edge;
- The rope, wire, or chain shall have a minimum tensile strength of 500 pounds and after being attached to the stanchions, must support without breaking the load applied to the stanchions as prescribed above.
- Shall be attached to each stanchion in such a way that pulling on one section of the line between stanchions will not result in slack being taken up in the adjacent section before the stanchion tips over.

Warning lines shall be erected around all sides of roof work areas. When mechanical equipment is being used, the warning line shall be erected not less than 6 feet from the roof edge parallel to the direction of mechanical equipment operation, and not less than 10 feet from the roof edge perpendicular to the direction of mechanical equipment operation.

When mechanical equipment is not being used, the warning line must be erected not less than 6 feet from the roof edge.

Covers:

Covers located in roadways and vehicular aisles must be able to support at least twice the maximum axle load of the largest vehicle to which the cover might be subjected. All other covers must be able to support at least twice the weight of employees, equipment, and materials that may be imposed on the cover at any one time. To prevent accidental displacement resulting from wind, equipment, or workers’ activities, all covers must be secured. All covers shall be color coded or bear the markings "HOLE" or "COVER."

Protection From Falling Objects:

When guardrail systems are used to prevent materials from falling from one level to another, any openings must be small enough to prevent passage of potential falling objects. No materials or equipment except masonry and mortar shall be stored within 6 feet of working edges. Excess mortar, broken or scattered masonry units, and all other materials and debris shall be kept clear of the working area by removal at regular intervals.

During roofing work, materials and equipment shall not be stored within 6 feet of a roof edge unless guardrails are erected at the edge, and materials piled, grouped, or stacked near a roof edge must be stable and self-supporting.

Training:

Employees will be trained in the following areas:

(a) The nature of fall hazards in the work area;

(b) The correct procedures for erecting, maintaining, disassembling, and inspecting fall protection systems;

(c) The use and operation of controlled access zones and guardrail, personal fall arrest, safety net, warning line, and safety monitoring systems;

(d) The role of each employee in the safety monitoring system when the system is in use;

(e) The limitations on the use of mechanical equipment during the performance of roofing work on low-sloped roofs;

(f) The correct procedures for equipment and materials handling and storage and the erection of overhead protection; and,

(g) The Employees' role in fall protection plans.

Safety Harness Inspection Report

JOBSITE	Date	Inspector's Name

Harness Make/ Model	MFG.'S SERIAL NUMBER	HARNESS WEBBING OR LEATHER	ALL STITCHING	RIVETS & EYELETS	D-RINGS, BUCKLES & TONGUE	BODY PAD (IF APPL.)	LANYARDS	SAFETY LATCH / HOOK	CERTIFICATION OR DATA TAG

0 = YES - OK

X = NO - REPLACE

Ensure Harness is COLOR-CODED with the appropriate tape marker

FORWARD TO SAFETY DIRECTOR AT _____

First Aid and Medical Treatment

The Company provides a First Aid Kit on the premises. It is there for employee's use in the treatment of minor scratches, burns, headaches, nausea, etc. All employees shall know the location of the First Aid Kit and shall notify their supervisor if they need to use the First Aid Kit.

If an employee has a work related injury or illnesses that requires professional medical assistance, they shall notify their supervisor and let him/her know before they receive this assistance. If they fail to notify their supervisor, they may be ineligible for Worker's Compensation, benefits to pay for doctor's bills, and/or lost wages.

_____ has a valid certificate in first aid training, and shall be
(Name of Person)
contacted to render first aid, as necessary.

The Project Manager shall inspect First Aid Kits before the kits are sent out to each job, and on a weekly basis to insure that they are filled and complete

FIRST AID PROCEDURES AND INSTRUCTIONS

In all cases requiring emergency medical treatment, immediately call, or have a co-worker call, to request emergency medical assistance.

EMERGENCY PHONE NUMBERS

Safety and Health Manager: _____ **Poison Control:** _____

First Aid: _____ **Fire Department:** _____

Ambulance: _____ **Police:** _____

Medical Clinic: _____

Clinic Address : _____

Minor First Aid Treatment

First aid kits are stored in the _____ . If an employee sustains an injury or are involved in an accident requiring minor first aid treatment, they shall:

- Inform their supervisor.
- Administer first aid treatment to the injury or wound.
- If a first aid kit is used, indicate usage on the accident investigation report.
- Access to a first aid kit is not intended to be a substitute for medical attention.
- Provide details for the completion of the accident investigation report.

Non-Emergency Medical Treatment

For non-emergency work-related injuries requiring professional medical assistance, management must first authorize treatment. If an employee sustains an injury requiring treatment other than first aid, they shall :

- Inform your supervisor.
- Proceed to the posted medical facility. Your supervisor will assist with transportation, if necessary.
- Provide details for the completion of the accident investigation report.

_____shall be used in the event an employee
(Quick Drenching/ Flushing Facility)
accidentally spills or splashes injurious chemicals or liquids on their clothing or body. Employees shall notify their supervisor if they use the Quick Drenching/Flushing Facility.

Emergency Medical Treatment

If an employee sustains a severe injury requiring emergency treatment:

- Call for help and seek assistance from a co-worker.
- Use the emergency telephone numbers and instructions posted next to the telephone in your work area to request assistance and transportation to the local hospital emergency room.
- Provide details for the completion of the accident investigation report.

First Aid Training

Each employee will receive training and instructions from his or her supervisor on the following Company first aid procedures.

First Aid Procedures

WOUNDS:

Minor: Cuts, lacerations, abrasions, or punctures-

- Wash the wound using soap and water; rinse it well.
- Cover the wound using clean dressing.

Major: Large, deep and bleeding

- Stop the bleeding by pressing directly on the wound, using a bandage or cloth.
- Keep pressure on the wound until medical help arrives.

BROKEN BONES:

- Do not move the victim unless it is absolutely necessary.
- If the victim must be moved, "splint" the injured area. Use a board, cardboard, or rolled newspaper as a splint.

BURNS:

Thermal (Heat)

Rinse the burned area, without scrubbing it, and immerse it in cold water; do not use ice water.

Blot dry the area and cover it using sterile gauze or a clean cloth.

Chemical

Flush the exposed area with cool water immediately for 15 to 20 minutes.

EYE INJURY:

Small particles

Do not rub the eyes.

Use the corner of a soft clean cloth to draw particles out, or hold the eyelids open and flush the eyes continuously with water.

Large or stuck particles

If a particle is stuck in the eye, do not attempt to remove it.

Cover both eyes with bandage.

Chemical

Immediately irrigate the eyes and under the eyelids, with water, for 30 minutes.

NECK AND SPINE INJURY:

If the victim appears to have injured his or her neck or spine, or is unable to move his or her arm or leg, do not attempt to move the victim unless it is absolutely necessary.

HEAT EXHAUSTION:

Loosen the victim's tight clothing.

Give the victim "sips" of cool water.

Make the victim lie down in a cooler place with the feet raised.

CPR (CardioPulmonary Resuscitation)

Alternative names: Rescue breathing, chest compressions - for adults; resuscitation, cardiopulmonary - for adults

Definition: CPR is a combination of rescue breathing (which provides oxygen to the victim's lungs) and chest compressions (which keep the victim's heart circulating oxygenated blood).

Considerations: CPR can be lifesaving, but it is best performed by those who have been trained in a CPR course. The procedures described here are not a substitute for CPR training.

Time is very important when dealing with an unconscious who is not breathing. Death can occur in 8 to 10 minutes and brain death begins after 4 to 6 minutes without oxygen.

Causes: Cardiopulmonary arrest is a combination of 2 life-threatening conditions: absence of breathing and no heartbeat.

Symptoms:
- No Breathing
- No pulse
- Unconsciousness

DO NOT:
- DO NOT give chest compressions if there is a heartbeat; doing so may cause the heart to stop beating.
- DO NOT move the victim's head or neck to check for breathing if a spinal injury is suspected.

Call immediately for emergency medical assistance if:
- you are not alone, have one person call the local emergency number while another person begins CPR.
- you are alone, shout for help and administer CPR.

FIRST AID:
1. Check for consciousness. Shake or tap the victim gently. See if the victim moves or makes a noise. Shout, "Are you OK?"

2. If there is no response, shout for help.

3. Position the victim on his or her back on a hard surface, keeping the back in a straight line, supporting the head and neck. Unfasten the victim's clothing if necessary to gain access to the victim's chest.

4. Kneel next to the victim's chin. Tilt the head back and lift the jaw forward to move the tongue away from the windpipe. If a spinal injury suspected, pull the jaw forward without moving the head or neck. Don't let the victim's mouth close.

5. Place your ear close to the victim's mouth and watch for chest movement. For 5 seconds, look, listen, and feel for breathing.

6. If the victim is not breathing, begin rescue breathing. Maintain the head position, close the victim's nostrils by pinching them with your thumb and index finger, and cover the victim's mouth tightly with your mouth. Give 2 slow, full breaths, with a pause in between.

7. If the chest does not rise, reposition the head and give 2 more breaths. If the chest still doesn't rise, the victim's airway is blocked. Follow instructions for chocking

Chocking Symptoms:

- unconscious
- lack of breathing
- inability to move air into the lungs with mouth-to-mouth resuscitation

DO NOT:

- DO NOT try to grasp an object that is lodged in the victim's throat. This might push it farther down the airway. If the object is visible in the mouth, it may be removed.
- DO NOT begin the chest compressions of CPR (if heartbeat has stopped) until the airway is cleared.

FIRST AID:

1. Roll the victim onto their back on a hard surface, keeping their back in a straight line, firmly supporting their head and neck. Expose the victim's chest.

2. Open the victim's mouth with your thumb and index finger, placing your thumb over his tongue and your index finger under his chin. If the object is visible and loose, remove it.

3. Lift the victim's chin while tilting the head back to move the tongue away from the windpipe. If a spinal injuyr is suspected, pull the jaw forward without moving the head or neck. Don't let the mouth close.

4. If the victim is not breathing, begin rescue breathing. Maintain the head position, close the victim's nostrils by pinching them with your thumb and index finger, and cover the victim's mouth tightly with your mouth. Give 2 slow, full breaths, with a pause in between.

5. If the victim's chest does not rise, reposition the head and give 2 more breaths.

6. If the victim's chest still doesn't rise, begin abdominal thrusts, as follows. Kneel at the victim's feet or astride the thighs (or to the side if the victim is obese or pregnant). Place the heel of your hand in the middle of the abdomen just above the navel, well below the tip of their breastbone. (If the victim is obese or pregnant, place the heel of your hand in the middle of the victim's breastbone. Do not place your hand on the ribs or on the tip of the breastbone.) Place your other hand on top of the first hand.

7. Give 6 to 10 quick thrusts compressing the victim's chest about 2 inches, pressing your hands inward and upward. Do not press to either side. Each thrust is a separate attempt to clear the victim's airway by forcing air out through the windpipe.

8. Open the victim's mouth with your thumb and index finger. If the object is visible and loose, remove it. Observe the victim's breathing. If the infant stops breathing, begin CPR.

9. If the object is not dislodged, give 2 breaths, 6 to 10 abdominal thrusts, and then check for the object. Repeat this sequence until the object is dislodged or help arrives.

8. If the victim's chest does rise, place 2 fingers on the victim's Adam's apple. Slide your fingers into the groove between the Adam's apple and the muscle on the side of their neck to feel for a pulse for 5 to 10 seconds.

9. If the victim has a pulse, give 1 breath every 5 seconds. Check the pulse after every 12 breaths.

10. Be sure the local emergency number has been called. Have someone else make the call if possible. Continue giving breaths and checking the pulse.

11. If the victim has no pulse, begin chest compressions. Maintain the head position and place the heel of your hand 2 finger-widths above the lowest notch of the victim's breastbone (where the lower edge of the ribcage meets in the middle). Place the heel of your other hand directly over the heel of the first hand. Interlock your fingers; don't let them touch the victim's chest. Lock your elbows straight. Lean your shoulders over your hands, and firmly press down about 2 inches into the victim's chest. Repeat the compressions 15 times. Give the compressions in a smooth, rhythmic manner, keeping your hands on the victim's chest. Don't rock back and forth - push straight down. Don't pause between compressions.

12. Give the victim 2 breaths, followed by 15 chest compressions. Repeat this sequence 4 times. Count aloud as you pump in a regular rhythm. You should pump at a rate of about 80 to 100 times a minute. Count 1 and 2 and 3 and 4 and...15 and (breathe, breathe).

13. Recheck the victim's pulse for 5 to 10 seconds.

14. Repeat steps 12 and 13 until the victim's pulse resumes or help arrives. If the pulse resumes, go to step 9.

15. Once pulse and respiration resume role the person onto his side taking care to move the body as a whole unit. This is called the recovery position, but it should not be used if you suspect there might be a neck or spinal injury. Stay by the person until help arrives.

Prevention:
Be prepared and use good judgment.

CPR for Children Over 8 Years and Adults

1. Look, listen, and feel for breathing and pulse. If breathing or pulse is absent, open the airway.

2. Tilt the head back, close the nose, and give 2 full breaths. Check the pulse. If there is no pulse, or breathing, start CPR.

3. Start chest compressions:
If one person is performing CPR, do 15 chest compressions, then two full breaths. Repeat.
If two people are performing CPR, one person does 5 chest compressions, then the other gives one full breath. Repeat.
See "CPR for person over 8 years" for more detailed information.

Noise and Hearing Conservation Program

Introduction:

Evidence is well established that worker exposure to noise of sufficient intensity and duration can result in hearing damage. Noise-induced hearing loss rarely results from just one exposure; it can progress unnoticed over a period of years. Initial noise-induced hearing loss occurs at the higher frequencies where the consonant portion of speech is found, making communications difficult.

Engineering controls such as mufflers on heavy equipment exhausts or on air release valves are required where possible. If engineering solutions cannot reduce the noise, administrative controls such as increasing the distance between the noise source and the worker or rotation of jobs between workers in the high noise area should be used if possible.

Noise exposure is often not constant and is difficult to control with either engineering or administrative solutions. Hearing protection is often the only choice available.

Employees will be given the opportunity to select hearing protective devices from a variety of suitable ones provided by the Project Manager. In all cases the chosen hearing protectors shall have a Noise Reduction Ratio (NRR) high enough to reduce the noise at the ear drum to 85 dB(A) or lower.

Audiometric testing will be provided by the Company's physician to all employees with exposure to noise levels of 85 dB(A) or greater.

Area noise monitoring will be conducted by the Project Manager using a sound level meter to determine the need for personnel monitoring or engineering controls. If any work areas register levels of 85 dB(A) or greater, personnel monitoring will be conducted. Personnel monitoring is accomplished by using noise dosimeters which are worn by employees for their full work shift. The cumulative noise dose for the employee is then read at the end of their work shift.

Policy:

It is the policy of the Company to provide employees with a safe and healthful working environment. This is accomplished by utilizing facilities and equipment that have all feasible safeguards incorporated into their design. When effective engineering controls are not feasible, or when they are being initiated, administrative controls will be used when and where possible followed by the use of personal protective equipment.

The primary goal of the Company's Hearing Conservation Program is to reduce, and eventually eliminate hearing loss due to workplace noise exposures. The program includes the following elements:

a. Work environments should be surveyed to identify potentially hazardous noise levels and personnel at risk.
b. Environments that contain or equipment that produces potentially hazardous noise should, wherever it is technologically and economically feasible, be modified to reduce the noise level to acceptable levels.
c. Where engineering controls are not feasible, administrative controls and/or the use of hearing protective devices will be employed.
d. Periodic hearing testing will be conducted to monitor the effectiveness of the hearing conservation program. Early detection of temporary threshold shifts will allow further protective action to be taken before permanent hearing loss occurs.
e. Education is vital to the overall success of a hearing conservation program. An understanding by employees of the permanent nature of noise-induced hearing loss, the Company hearing conservation program, and the employee's responsibilities under the program are all essential for program effectiveness.

Responsibilities:

Project Manager-

The Project Manager is responsible for developing, implementing, and administering the Company Hearing Conservation Program. Additional responsibilities include:

1. Identification of work areas and equipment within Company facilities where noise levels equal or exceed 85 dBA.
2. Identification, through personnel monitoring, of Company employees whose noise exposure level equals or exceeds an 8-hour TWA (Time-Weighted Average) of 85 dBA. Notification of employee exposure measurements is sent to the Project Manager to be included in employees' medical files.
3. Annual remonitoring of identified at-risk employees.
4. Resurvey of work areas and equipment where noise levels exceed 85 dBA every 2 years.
5. Training of employees in the need for, proper use and care of hearing protection devices.
6. Identification of noise control measures (including engineering and administrative controls) and recommendations.

The Project Manager is also responsible for coordinating and scheduling health and safety training courses and seminars. The Project Manager also maintains documentation of the training courses presented in accordance with the Safety Program requirements.

Supervisors-

It is the responsibility of Supervisors to ensure that all of their employees exposed to noise levels equal to or greater than 85 dBA have access to appropriate hearing protective devices in the work area. Supervisors are also responsible for enforcing the use of hearing protective devices and engineering and administrative controls in designated noise hazardous areas.

Employees-

Employees are responsible for wearing and maintaining hearing protective devices as instructed. Employees exposed to excessive levels of noise must also participate in annual training programs and the medical surveillance program which includes audiometric testing.

NOISE EVALUATION AND SURVEILLANCE PROCEDURES

Identification of Hazardous Noise Areas-

The Project Manager will identify work areas within Company facilities where noise levels equal or exceed 85 dBA. Records shall be maintained by the Project Manager and updated at least every two years to determine if any alteration in noise levels has occurred. Those areas where the noise levels are below 85 dBA will not be routinely monitored. Identification of hazardous noise areas and equipment and any subsequent noise monitoring will be conducted by the Project Manager.

Signs will be posted at the entrance to any work area where noise levels exceed 85 dBA, requiring anyone entering the area to wear proper hearing protection. Personnel who work in these areas shall have hearing protection supplied to them, shall be instructed in its proper use, and be required to wear this equipment when in these identified areas. It is the responsibility of the area supervisor to ensure that these precautions are maintained.

Equipment which produces noise levels greater than 85 dBA, or 120 dB peak sound pressure levels shall also be appropriately labeled.

Noise Measurements and Exposure Assessments

In order to effectively control noise it is necessary that the noise be accurately measured according to standard procedures and that the measurements be properly evaluated against accepted criteria. All noise monitoring will be conducted in accordance with established standard operating procedures.

The monitoring of employees for noise exposure is made up of two parts, area and personal monitoring. Area measurements are generally obtained first. If noise levels are at or above 85 dBA, personal monitoring using dosimeters is then performed. Sample data sheets will be used to record monitoring data for both area and personal noise monitoring results.

Area Measurements

In an area survey, measurements of environmental noise levels are recorded using a sound level meter to identify work areas where employees' exposures may be above hazardous levels, and where more thorough exposure monitoring may be needed. Area monitoring is conducted using a calibrated sound level meter set to the A scale, slow response. Within the area of interest, several different locations will be measured. Typical measurement locations would include:

- In the hearing zone at the employee's normal work location.
- Next to the noise source(s).
- At the entrance(s) to the work area.
- At other locations within the area where the employee might spend time working.

A rough sketch of the area will be included with the results showing the locations where the noise readings were obtained.

If the noise levels are below 85 dBA on a time-weighted average basis in the area, no further routine monitoring will be required for that area. Should any of the noise measurements equal or exceed 85 dBA, records shall be maintained as to the noise levels recorded, where they were taken, and the source(s) of the noise. These records shall be updated at least once every two years to determine if any changes have occurred that would warrant remonitoring of exposed personnel. If any of the measurements equal or exceed a noise level of 85 dBA, employees who work in or near the high noise area or equipment shall have their noise exposure determined through personnel monitoring using dosimeters.

Personnel Monitoring

Determination of the noise exposure level will be accomplished using calibrated noise dosimeters. Each employee to be monitored will have a dosimeter placed on him/her at the beginning of his/her normal work shift with the microphone placed in the “hearing zone”. The dosimeter will be worn for the full duration of the work shift while the employee performs his/her normal work routine. At the end of the work shift, the dosimeter will be removed and information printed out as soon as possible. Background information will be collected from each employee detailing job description, unusual job activities, etc., for the time period sampled. Those employees whose noise exposure equals or exceeds 85 dBA on an 8-hour TWA (Time-Weighted Average) will be referred to the Project Manager for inclusion in the Hearing Conservation Medical Surveillance Program.

Remonitoring of Hazardous Noise Areas

All areas where noise levels equal or exceed 85 dBA shall be remonitored at least every two years. Employees who work for extended periods of time (>2 hours) in the high noise areas and where their 8-hour TWA (Time-Weighted Average) equals or exceeds 85 dBA will be monitored every year to determine their personal noise exposure.

Whenever an employee exhibits a standard threshold shift, as determined by the Project Manager, the employee’s work place shall be remonitored to identify and ameliorate the cause.

Remonitoring Due to Changes

Any area with noise levels that equal or exceed 85 dBA shall also be remonitored whenever a change in production process, equipment, or controls increase the noise exposure such that additional employees are exposed to noise levels at or above 85 dBA on a time-weighted average basis. Areas where the noise levels have dropped below 85 dBA due to alterations in equipment, controls or process changes shall be eliminated from the monitoring program.

NOISE CONTROL METHODS

Engineering and Administrative Controls

The primary means of reducing or eliminating personnel exposure to hazardous noise is through the application of engineering controls. Engineering controls are defined as any modification or replacement of equipment, or related physical change at the noise source or along the transmission path that reduces the noise level at the employee’s ear. Engineering controls such as mufflers on heavy equipment exhausts or on air release valves are required where possible.

Engineering and Administrative Controls (continued)

Administrative controls are defined as changes in the work schedule or operations which reduce noise exposure. If engineering solutions cannot reduce the noise, administrative controls such as increasing the distance between the noise source and the worker or rotation of jobs between workers in the high noise area should be used if possible.

The use of engineering and administrative controls should reduce noise exposure to the point where the hazard to hearing is eliminated or at least more manageable.

Personal Protective Equipment

Hearing protective devices (ear plugs, muffs, etc.) shall be the permanent solution only when engineering or administrative controls are considered to be infeasible or cost prohibitive. Hearing protective devices are defined as any device that can be worn to reduce the level of sound entering the ear. Hearing protective devices shall be worn by all personnel when they must enter or work in an area where the operations generate noise levels of:

- Greater than 85 dBA sound levels, or
- 120 dB peak sound pressure level or greater

Types of Hearing Protective Devices Hearing protective devices include the following:

a. Insert Type Earplugs

A device designed to provide an air-tight seal with the ear canal. There are three types of insert earplugs – premolded, formable, and custom earplugs.

1. Premolded Earplugs

Premolded earplugs are pliable devices of fixed proportions. Two standard styles, single flange and triple flange, come in various sizes, and will fit most people. Personnel responsible for fitting and dispensing earplugs will train users on proper insertion, wear, and care. While premolded earplugs are reusable, they may deteriorate and should be replaced periodically.

2. Formable

Formable earplugs come in just one size. Some are made of material which, after being compressed and inserted, expands to form a seal in the ear canal. When properly inserted, they provide noise attenuation values that are similar to those from correctly fitted premolded earplugs. Individual units may procure approved formable earplugs. Supervisors must instruct users in the proper use of these earplugs as part of the annual education program.

2. Formable Earplugs (continued)

Each earplug must be held in place while it expands enough to remain firmly seated. A set of earplugs with a cord attached is available. These earplugs may be washed and therefore are reusable, but will have to be replaced after two or three weeks or when they no longer form an airtight seal when properly inserted.

3.Custom Molded Earplugs

A small percentage of the population cannot be fitted with standard premolded or formable earplugs. Custom earplugs can be made to fit the exact size and shape of the individual's ear canal. Individuals needing custom earplugs will be referred to an audiologist.

b. Earmuffs

Earmuffs are devices worn around the ear to reduce the level of noise that reaches the ear. Their effectiveness depends on an air tight seal between the cushion and the head.

Selection of Hearing Protective Devices

Employees will be given the opportunity to select hearing protective devices from a variety of suitable ones provided by the Office of Health and Safety. In all cases the chosen hearing protectors shall have a Noise Reduction Ratio (NRR) high enough to reduce the noise at the ear drum to 85 dBA or lower.

Issuance of Hearing Protective Devices

The issuance of hearing protective devices is handled through the Project Manager. The Project Manager will issue and fit the initial hearing protective devices (foam inserts, disposables). Instruction on the proper use and care of earplugs and earmuffs will be provided whenever HPDs (hearing protective devices) are dispensed. Personnel requiring earmuffs in addition to earplugs will be informed of this requirement and educated on the importance of using proper hearing protection. The Project Manager will dispense ear muffs when necessary and will maintain a supply of disposable earplugs.

Use of Hearing Protective Devices

a. Always use and maintain HPDs as originally intended and in accordance with instructions provided.
b. Earmuff performance may be degraded by anything that compromises the cushion-to-circumaural flesh seal. This includes other pieces of personal protective equipment such as eyewear, masks, faceshields, and helmets.

Maintenance of Hearing Protective Devices

a. Reusable earplugs, such as the triple flange or formable devices should be washed in lukewarm water using hand soap, rinsed in clean water, and dried thoroughly before use. Wet or damp earplugs should not be placed in their containers. Cleaning should be done as needed.
b. Earmuff cushions should be kept clean. The plastic or foam cushions may be cleaned in the same way as earplugs, but the inside of the muff should not get wet. When not n use, ear muffs should be placed in open air to allow moisture that may have been absorbed into the cups to evaporate.

Hearing Protection Performance Information

The maximum of sound attenuation one gets when wearing hearing protection devices is limited by human body and bone conduction mechanisms. Even though a particular device may provide outstanding values of noise attenuation the actual noise reductions may be less because of the noise surrounding the head and body bypasses the hearing protector and is transmitted through tissue and bone pathways to the inner ear.

The term “double hearing protection” is misleading. The attenuation provided from any combination earplug and earmuff is not equal to the sum of their individual attenuation values.

MEDICAL SURVEILLANCE

Notification

Upon identification of employees whose 8-hour TWA (Time-Weighted Average) equals or exceeds 85 dBA, the Project Manager will recommend to the employee’s Supervisor, in writing, of the need to enroll certain employee(s) in the Hearing Conservation Medical Surveillance Program. Information supplied to the Project Manager will include the employee(s) name, supervisor’s name, telephone number, and the noise levels recorded in the employee’s work area, including dosimetry data. It will be the responsibility of the Supervisor to enroll his/her employee in the Hearing Conservation Medical Surveillance Program.

In work locations where either through administrative or engineering controls, noise levels are found to have fallen such that the employee’s 8-hour TWA is below 85 dBA, the Project Manager shall notify the employee’s Supervisor, by memo, that the employees working in that area are no longer required to be enrolled in the Hearing Conservation Program. The final decision as to an employee’s enrollment status will be left with the Company Physician.

The results of area and personal remonitoring shall be forwarded to the Clinic upon completion of the noise surveys.

Any personnel experiencing difficulty in wearing assigned hearing protection (i.e., irritation of the canals, pain) will be advised to immediately report this to their supervisor and make arrangements to go to the Company Physician for evaluation as soon as possible.

Audiometric Testing

The Company Physician has the responsibility for administering the Audiometric Testing Program portion of the Company Hearing Conservation Program. The object of the audiometric testing program is to identify workers who are beginning to lose their hearing and to intervene before the hearing loss becomes worse. Audiometric testing will be provided to all employees with exposure to noise levels of 85 dBA or greater. Annual retesting will be performed for all personnel enrolled in the Hearing Conservation Medical Surveillance Program.

TRAINING

The training and education program will provide information about the adverse effects of noise and how to prevent noise-induced hearing loss. At a minimum, all training will cover the following topics:

a. Noise-induced hearing loss;
b. Recognizing hazardous noise;
c. Symptoms of overexposure to hazardous noise;
d. Hearing protection devices – advantages and limitations.
e. Selection, fitting, use, and maintenance of HPDs.
f. Explanation of noise measurement procedures.
g. Hearing conservation program requirements.

Employees will also be provided with copies of the OSHA noise standard (29 CFR 1910.95) and other handouts describing the Company Hearing Conservation Program.

Company employees shall be encouraged to use hearing protective devices when they are exposed to hazardous noise during activities at home; e.g., from lawn mowers, chain saws, etc.

All personnel identified for inclusion in the hearing conservation program should receive a minimum of one hour of initial instruction in the requirements of the program. Ideally this will be done when hearing protection is dispensed.

Appropriate refresher training annually thereafter and will be provided by the immediate supervisor. Supervisors will be provided annual training by the Office of Health and Safety.

Supervisors must contact the Safety Training Department to schedule training for new personnel assigned to work in noisy environments and for retraining of current personnel.

PROGRAM EVALUATION

Periodic program evaluations will be conducted to assess compliance with federal and state regulations and Company Program requirements. Both the monitoring and audiometric testing portions of the Company Hearing Conservation Program will be reviewed annually to assure its quality and effectiveness.

An evaluation of the Program, including wearer acceptance, appraisal of protection afforded, and field audits of hearing protection use and record keeping will be conducted at least annually. Items to be considered include:

a. Standard operating procedures
b. Training records and course content for supervisors and employees.
c. Maintenance of HPDs (hearing protection devices)
d. Field audits of HPD use
e. Review of recorded threshold shifts on OSHA log.

The findings of the Company Hearing Conservation Program evaluation will be documented, and this documentation will list plans to correct faults in the program and set target dates for the implementation of the plans.

RECORDKEEPING

All non-medical records (ex., work area and equipment surveys) will be maintained for a period of five years. Results of hearing tests and medical evaluations performed for hearing conservation purposes as well as noise exposure documentation shall be recorded and shall be a permanent part of an employee’s health record.

All personnel who routinely work in designated hazardous noise areas shall be identified and a current roster of such personnel shall be maintained and by the Project Manager, and updated periodically.

NOISE

Supervisors and exposed workers must become aware of and understand about the adverse effects of noise and how to prevent noise-induced hearing loss. People exposed to hazardous noise must take positive action, if progressive permanent hearing loss is to be prevented. Each exposed worker and supervisor should know the following.

A. Noise exposure may result in permanent damage to the auditory system and there is no medical or surgical treatment for this type of hearing loss. Though the use of a hearing aid may provide some benefit, normal hearing will not be restored. Many people don't realize loud sounds can cause hearing loss. Furthermore, in its initial stages, the person may not notice a problem since noise-induced hearing loss is invisible, painless, and occurs in the high frequencies. It is dangerous to ignore the temporary characteristics of noise-induced hearing loss (such as ringing or buzzing in the ears, excessive fatigue, etc.).

B. Each person should know how to recognize hazardous noise even if a noise survey has not been conducted an/or warning signs posted. Recognizing and understanding the adverse effects of off-duty noise exposures is also important. The best rule to follow is: "If you have to shout at arms length (approximately three feet) to talk face-to-face, you are probably being exposed to hazardous levels of noise."

C. Preventing noise-induced hearing loss is accomplished by reducing both the time and intensity of exposure. Reducing exposure time is accomplished by avoiding any unnecessary exposure to loud sound. Reducing intensity is usually accomplished by wearing personal hearing protection. Each person must be able to properly wear and care for the particular type of hearing protection selected. Speech communication is difficult in high intensity noise. However, most people don't realize it's easier to understand speech if hearing protection is worn in a hazardous noise environment. Hearing protection reduces the noise and the level of speech, resulting in a more favorable listening level. Hearing protection reduces the intensity of frequencies above the speech range; thus, reducing the noise and accentuating speech. People who claim wearing hearing protection makes it difficult to hear speech are probably in noise levels less than 85 dBA or have already developed a hearing loss.

D. Each person must know how to tell if they have been overexposed to loud sound. Overexposure may occur even while wearing hearing protection. Earplugs and/or earmuffs alone may not be enough protection. Each time a temporary threshold shift (TSS) occurs, a certain degree of permanent loss results. The recognizable symptoms of overexposure are described as "dullness in hearing or ringing in the ears."

Housekeeping & Material Storage

Purpose:

Attention to general cleanliness, storage and housekeeping can prevent numerous accidents. This chapter covers items not discussed in other areas and is not intended to cover all specific housekeeping requirements. Good housekeeping efforts are a part of the company fire prevention and accident prevention program.

Management and Employee Responsibility:

All Employees share the responsibility for maintaining good housekeeping practice and following the established housekeeping procedures. The Manager, Supervisors, Safety Coordinator and Safety Committee will be responsible to monitor housekeeping as part of their facility safety inspection procedures, note any hazards or areas of non-compliance, initiate clean-up procedures and provide follow-up. Management has the additional responsibility to provide disciplinary action when necessary to reinforce compliance with this program.

Smoking Policy:

Smoking is not permitted inside buildings and/or within 50 feet of material storage. This includes all offices, rest rooms, locker rooms, production floor, storage areas, coolers, etc. Smoking is permitted outside in designated areas and in the Smoking Section of authorized break areas before work, after work and during breaks. To prevent fires and keep the grounds neat and orderly, all cigarette/cigar ashes and butts are to be disposed in the provided butt cans or ash-trays only.

Department and Area Housekeeping Procedures:

Office areas are to be kept neat and orderly. The following general rules apply to prevent injuries and maintain a professional appearance.

1. All aisles, emergency exits, fire extinguishers, etc., will be kept clear (a minimum of three feet of either side) of material storage (temporary and permanent) at all times.

2. Storage areas will be maintained orderly at all times. When supplies are received, the supplies will be stored properly.

3. Spills will be cleaned-up immediately and wastes disposed of properly.

4. All waste receptacles will be lined with a plastic trash bag to avoid direct contact while handling. Custodial Employees will use rubber gloves and compaction bar when handling wastes.

5. Keep file and desk drawers closed when not attended to avoid injuries. Open only one drawer at a time to prevent tipping of file cabinets.

6. At the end of the business day, turn off all office equipment (area heaters, lamps, coffee-maker, PCs, etc.) and lights to save energy and prevent fires. All space heaters be un-plugged at the end of the day to assure they have been turned-off.

Production areas will be kept neat and orderly, during operations and as follows:

1. All aisles, emergency exits, fire extinguishers, eye wash stations, etc., will be kept clear (a minimum of three feet in front of and to either side) of product storage, material storage, fork trucks and pallet jacks at all times.

2. Spills will be cleaned up immediately.

3. All process leaks will be reported to supervision and maintenance for immediate repair and clean-up.

4. Utility Employees will be responsible to keep aisles and work floors clear of excessive debris and waste materials during shift operation, between breaks and at shift change when necessary or directed by supervision; however, all Employees are responsible to communicate slippery floors to supervision for immediate clean-up.

5. All refuse and waste materials will be placed in the recognized waste containers for disposal.

Rest rooms, locker rooms and cafeteria are provided as a convenience for all Employees.

The following rules will apply:

1. Employees are expected to clean-up after themselves as a common courtesy to fellow Employees.

2. Flammable materials (fire works, explosives, gasoline, etc.) may not stored in lockers or brought on company property.

3. Personal food item will not be stored in lockers or cafeteria overnight.

4. All waste receptacles will be lined with a plastic trash bag to avoid direct contact while handling and Custodial Employees will use rubber gloves and compaction bar when handling wastes.

5. All refuse and waste materials will be placed in the recognized waste containers for disposal.

<u>Maintenance Areas:</u>

1. All aisles, emergency exits, fire extinguishers, etc., will be kept clear (a minimum of three feet of either side) of material storage (temporary and permanent) at all times.

2. Storage Areas will be maintained orderly at all times:

a. Pipe stock stored horizontally on racks and sorted by size

b. Metal stock stored horizontally on racks and sorted by size

c. Sheet metal stock stored vertically in racks and sorted by type

d. All fittings, etc., stored in bins on shelves and sorted by type and use

e. All flammables stored in OSHA-approved Fire Cabinets and self-closingcans where necessary

3. Spills will be cleaned-up immediately by the person responsible and wastes disposed properly.

4. All refuse and waste materials will be placed in the recognized waste containers for disposal.

Grounds:

The grounds surrounding the Company are an extension of the work place. Grounds that are kept neat and orderly show pride by the Company for Employees, customers and neighbors to enjoy.

The following general rules will apply:

1. All trash will be discarded only in the waste containers provided.

2. Park only in the designated assigned area.

3. The Maintenance Department will be responsible for grounds keeping (mowing, trimming, etc.) as needed. Maintenance will also establish procedures for ice/snow removal, when necessary, prior to operations each day.

Material Storage :

Proper storage procedures are required for dry, raw materials, finished product flammables and compressed gases storage to prevent fires, keep exits and aisles clear and avoid injuries and illnesses. General rules for material storage are as follows:

Materials and Finished Products Storage

1. Materials may not be stored any closer than 18 inches to walls or sprinkler heads. A minimum of 3 feet side clearance will be maintained around doorways and emergency exits. Passageways and aisle will be properly marked and a minimum of six feet in width. Materials, fork lifts, pallet jacks, etc., may not be stored in aisles or passageways.

2. Aisles and passageways will be kept clear of debris. All spills of materials will be immediately cleaned-up by the person responsible.

3. All platforms and racks will have maximum load capacity displayed. The weight of stored material will not exceed the rated load capacity.

Flammable Storage

1. All flammables will be stored in OSHA-approved flammable storage cabinets or stored outside (at least 50 feet from any structure)

2. Fuels, solvents and other flammables (not stored in original shipping containers) will be stored in OSHA-approved self-closing containers with flame arresters. Flammables may not be stored in open containers (open parts baths, etc.).

3. Flammable storage areas will be kept dry and well ventilated. No storage of combustible materials, open flames or exposed electrical components are permitted in the flammable storage area.

4. Flammable or combustible materials may not be stored in electrical rooms. Electrical rooms must be kept clean and dry at all times.

Compressed Gas Storage Safety

1. Gas Cylinder Shipment Receiving
2. Inspect bottle for defects & proper marking/labels
3. Ensure stamped date on bottle has not expired
4. Inspect valve assembly and adapter thread area
5. Ensure MSDS is on file or with shipment
6. Follow MSDS requirements for storage
7. Gas Cylinder Storage
8. Cylinder cap securely in place when not in use.
9. Marked with contents and if empty/full.
10. Stored up-right and secured to a stationary structure in an shaded and well ventilated area.
11. Cylinders not stored within 50 feet of exposed electrical components or combustible materials.
12. Cylinders are protected from accidental rupture.
13. Chemically reactive gases not stored within 50 feet of each other.
14. Gas Cylinder Movement

    Must be secured to a cart or cylinder trolley

    Cap securely fastened
15. Gas Cylinder Usage

Compressed Gas Storage Safety (continued):

16. Inspect valve adapter threads.
17. Inspect all fasteners, hoses & regulators prior to hooking up to cylinder.
18. Use only for approved purposes.
19. Use in up-right position.
20. Fasten cylinder to structure or cart.
21. Regulators must be of same rated pressure as cylinder
22. Keep cylinder valve shut when not in use; don't depend on regulators

Ladder Safety

Purpose

Ladders present unique opportunities for unsafe acts and unsafe conditions. Employees who use ladders must be trained in proper selection, inspection, use and storage. Improper use of ladders has cause a large percentage of accidents in the workplace are of accidents. Use caution on ladders. OSHA reference: (29 CFR 1910.25, 1910.26, and 1910.27).

Hazards

Falls are the primary hazard associated with the use of ladders. Falls result from a number of unsafe acts and conditions such as:

1) Ladders being set on unstable surfaces.
2) Personnel reaching too far out to the sides.
3) Personnel standing too high to maintain balance.
4) Personnel using defective ladders (e.g., broken rails, rungs, missing hardware).

These hazards are minimized if workers adhere to proper ladder safety practices and if supervisors ensure equipment is used, inspected, and maintained in good condition. Tasks which require frequent use of ladders and involve significant climbing effort must be accomplished by workers capable of the physical exertion required under these conditions.

Procurement

Portable ladders procured for the Company shall meet the design and construction specification of OSHA 29 CFR 1910.25 for wood ladders and 29 CFR 1910.26 for metal ladders. Portable ladders constructed of reinforced plastic shall meet the specifications of ANSI A14.5-1974.

Requirements The following requirements apply to all ladders as indicated, including job-made ladders.

(1) Ladders shall be capable of supporting the following loads without failure:

(i) Each self-supporting portable ladder: At least four times the maximum intended load, except that each extra-heavy-duty type 1A metal or plastic ladder shall sustain at least 3.3 times the maximum intended load. The ability of a ladder to sustain the loads indicated in this paragraph shall be determined by applying or transmitting the requisite load to the ladder in a downward vertical direction.

(ii) Each portable ladder that is not self-supporting: At least four times the maximum intended load, except that each extra-heavy- duty type 1A metal or plastic ladders shall sustain at least 3.3 times the maximum intended load. The ability of a ladder to sustain the loads indicated in this paragraph shall be determined by applying or transmitting the requisite load to the ladder in a downward vertical direction when the ladder is placed at an angle of 75½ degrees from the horizontal.

(iii) Each fixed ladder: At least two loads of 250 pounds (114 kg) each, concentrated between any two consecutive attachments (the number and position of additional concentrated loads of 250 pounds (114 kg) each, determined from anticipated usage of the ladder, shall also be included), plus anticipated loads caused by ice buildup, winds, rigging, and impact loads resulting from the use of ladder safety devices. Each step or rung shall be capable of supporting a single concentrated load of at least 250 pounds (114 kg) applied in the middle of the step or rung.

(2) Ladder rungs, cleats, and steps shall be parallel, level, and uniformly spaced when the ladder is in position for use.

(3)

(i) Rungs, cleats, and steps of portable ladders (except as provided below) and fixed ladders (including individual rung/step ladders) shall be spaced not less than 10 inches (25 cm) apart, nor more than 14 inches (36 cm) apart, as measured between center lines of the rungs, cleats and steps.

(ii) Rungs, cleats, and steps of step stools shall be not less than 8 inches (20 cm) apart, nor more than 12 inches (31 cm) apart, as measured between center lines of the rungs, cleats, and steps.

(iii) Rungs, cleats, and steps of the base section of extension trestle ladders shall be not less than 8 inches (20 cm) nor more than 18 inches (46 cm) apart, as measured between center lines of the rungs, cleats, and steps. The rung spacing on the extension section of the extension trestle ladder shall be not less than 6 inches (15 cm) nor more than 12 inches (31 cm), as measured between center lines of the rungs, cleats and steps.

(4)

(i) The minimum clear distance between the sides of individual-rung/step ladders and the minimum clear distance between the side rails of other fixed ladders shall be 16 inches (41 cm).

(ii) The minimum clear distance between side rails for all portable ladders shall be 11½ inches (29 cm).

(5) The rungs of individual-rung/step ladders shall be shaped such that employees' feet cannot slide off the end of the rungs.

(6)

(i) The rungs and steps of fixed metal ladders manufactured after March 15, 1991, shall be corrugated, knurled, dimpled, coated with skid-resistant material, or otherwise treated to minimize slipping.

(ii) The rungs and steps of portable metal ladders shall be corrugated, knurled, dimpled, coated with skid-resistant material, or other-wise treated to minimize slipping.

(7) Ladders shall not be tied or fastened together to provide longer sections unless they are specifically designed for such use.
(8) A metal spreader or locking device shall be provided on each stepladder to hold the front and back sections in an open position when the ladder is being used.
(9) When splicing is required to obtain a given length of side rail, the resulting side rail must be at least equivalent in strength to a one-piece side rail made of the same material.
(10) Except when portable ladders are used to gain access to fixed ladders (such as those on utility towers, billboards, and other structures where the bottom of the fixed ladder is elevated to limit access), when two or more separate ladders are used to reach an elevated work area, the ladders shall be offset with a platform or landing between the ladders.
(11) Ladder components shall be surfaced so as to prevent injury to an employee from punctures or lacerations, and to prevent snagging of clothing.
(12) Wood ladders shall not be coated with any opaque covering, except for identification or warning labels which may be placed on one face only of a side rail.
(13) The minimum perpendicular clearance between fixed ladder rungs, cleats, and steps, and any obstruction behind the ladder shall be 7 inches (18 cm), except in the case of an elevator pit ladder, for which a minimum perpendicular clearance of 4½ inches (11 cm) is required.
(14) The minimum perpendicular clearance between the center line of fixed ladder rungs, cleats, and steps, and any obstruction on the climbing side of the ladder shall be 30 inches (76 cm), except as provided in paragraph (a)(15) of this section.
(15) When unavoidable obstructions are encountered, the minimum perpendicular clearance between the centerline of fixed ladder rungs, cleats, and steps, and the obstruction on the climbing side of the ladder may be reduced to 24 inches (61 cm), provided that a deflection device is installed to guide employees around the obstruction.
(16) Through fixed ladders at their point of access/egress shall have a step-across distance of not less than 7 inches (18 cm) nor more than 12 inches (30 cm) as measured from the centerline of the steps or rungs to the nearest edge of the landing area. If the normal step-across distance exceeds 12 inches (30 cm), a landing platform shall be provided to reduce the distance to the specified limit.
(17) Fixed ladders without cages or wells shall have a clear width to the nearest permanent object of at least 15 inches (38 cm) on each side of the centerline of the ladder.
(18) Fixed ladders shall be provided with cages, wells, ladder safety devices, or self-retracting lifelines where the length of climb is less than 24 feet (7.3 m) but the top of the ladder is at a distance greater than 24 feet (7.3 m) above lower levels.
(19) Where the total length of a climb equals or exceeds 24 feet (7.3 m), fixed ladders shall be equipped with one of the following:

(i) Ladder safety devices; or

(ii) Self-retracting lifelines, and rest platforms at intervals not to exceed 150 feet (45.7 m); or

(iii) A cage or well, and multiple ladder sections, each ladder section not to exceed 50 feet (15.2 m) in length. Ladder sections shall be offset from adjacent sections, and landing platforms shall be provided at maximum intervals of 50 feet (15.2 m).

(20) Cages for fixed ladders shall conform to all of the following:

(i) Horizontal bands shall be fastened to the side rails of rail ladders, or directly to the structure, building, or equipment for individual- rung ladders;

(ii) Vertical bars shall be on the inside of the horizontal bands and shall be fastened to them;

(iii) Cages shall extend not less than 27 inches (68 cm), or more than 30 inches (76 cm) from the centerline of the step or rung (excluding the flare at the bottom of the cage), and shall not be less than 27 inches (68 cm) in width;

(iv) The inside of the cage shall be clear of projections;

(v) Horizontal bands shall be spaced not more than 4 feet (1.2 m) on center vertically;

(vi) Vertical bars shall be spaced at intervals not more than 9½ inches (24 cm) on center horizontally;

(vii) The bottom of the cage shall be at a level not less than 7 feet (2.1 m) nor more cage shall be flared not less than 4 inches (10 cm) all around within the distance between the bottom horizontal band and the next higher band;

(viii) The top of the cage shall be a minimum of 42 inches (1.1 m) above the top of the platform, or the point of access at the top of the ladder, with provision for access to the platform or other point of access.

(21) Wells for fixed ladders shall conform to all of the following:

(i) They shall completely encircle the ladder;

(ii) They shall be free of projections;

(iii) Their inside face on the climbing side of the ladder shall extend not less than 27 inches (68 cm) nor more than 30 inches (76 cm) from the centerline of the step or rung;

(iv) The inside clear width shall be at least 30 inches (76 cm);

(v) The bottom of the wall on the access side shall start at a level not less than 7 feet (2.1 m) nor more than 8 feet (2.4 m) above the point of access to the bottom of the ladder.

(22) Ladder safety devices, and related support systems, for fixed ladders shall conform to all of the following:

(i) They shall be capable of withstanding without failure a drop test consisting of an 18-inch (41 cm) drop of a 500-pound (226 kg) weight;

(ii) They shall permit the employee using the device to ascend or descend without continually having to hold, push or pull any part of the device, leaving both hands free for climbing;

(iii) They shall be activated within 2 feet (.61 m) after a fall occurs, and limit the descending velocity of an employee to 7 feet/sec. (2.1 m/sec.) or less;

(iv) The connection between the carrier or lifeline and the point of attachment to the body belt or harness shall not exceed 9 inches (23 cm) in length.

(23) The mounting of ladder safety devices for fixed ladders shall conform to the following:

(i) Mountings for rigid carriers shall be attached at each of the carrier, with intermediate mountings, as necessary, spaced along the entire length of the carrier, to provide the strength necessary to stop employees' falls.

(ii) Mountings for flexible carriers shall be attached at each end of the carrier. When the system is exposed to wind, cable guides for flexible carriers shall be installed at a minimum spacing of 25 feet (7.6 m) and maximum spacing of 40 feet (12.2 m) along the entire length of the carrier, to prevent wind damage to the system.

(iii) The design and installation of mountings and cable guides shall not reduce the design strength of the ladder.

(24) The side rails of through or side-step fixed ladders shall extend 42 inches (1.1 m) above the top of the access level or landing platform served by the ladder. For a parapet ladder, the access level shall be the roof if the parapet is cut to permit passage through the parapet; if the parapet is continuous, the access level shall be the top of the parapet.

(25) For through-fixed-ladder extensions, the steps or rungs shall be omitted from the extension and the extension of the side rails shall be flared to provide not less than 24 inches (61 cm) nor more than 30 inches (76 cm) clearance between side rails. Where ladder safety devices are provided, the maximum clearance between side rails of the extensions shall not exceed 36 inches (91 cm).

(26) For side-step fixed ladders, the side rails and the steps or rungs shall be continuous in the extension.

(27) Individual-rung/step ladders, except those used where their access openings are covered with manhole covers or hatches, shall extend at least 42 inches (1.1 m) above an access level or landing platform either by the continuation of the rung spacings as horizontal grab bars or by providing vertical grab bars that shall have the same lateral spacing as the vertical legs of the rungs.

Use of Ladders

The following requirements apply to the use of all ladders, including job-made ladders, except as otherwise indicated. The correct procedures for using ladders are as follows

(1) When portable ladders are used for access to an upper landing surface, the ladder side rails shall extend at least 3 feet (.9 m) above the upper landing surface to which the ladder is used to gain access; or, when such an extension is not possible because of the ladder's length, then the ladder shall be secured at its top to a rigid support that will not deflect, and a grasping device, such as a grabrail, shall be provided to assist employees in mounting and dismounting the ladder. In no case shall the extension be such that ladder deflection under a load would, by itself, cause the ladder to slip off its support.

(2) Ladders shall be maintained free of oil, grease, and other slipping hazards.

(3) Ladders shall not be loaded beyond the maximum intended load for which they were built, nor beyond their manufacturer's rated capacity.

(4) Ladders shall be used only for the purpose for which they were designed.
(5)

(i) Non-self-supporting ladders shall be used at an angle such that the horizontal distance from the top support to the foot of the ladder is approximately one-quarter of the working length of the ladder (the distance along the ladder between the foot and the top support).

(ii) Wood job-made ladders with spliced side rails shall be used at an angle such that the horizontal distance is one-eighth the working length of the ladder.

(iii) Fixed ladders shall be used at a pitch no greater than 90 degrees from the horizontal, as measured to the back side of the ladder.

(6) Ladders shall be used only on stable and level surfaces unless secured to prevent accidental displacement.
(7) Ladders shall not be used on slippery surfaces unless secured or provided with slip-resistant feet to prevent accidental displacement. Slip-resistant feet shall not be used as a substitute for care in placing, lashing, or holding a ladder that is used upon slippery surfaces including, but not limited to, flat metal or concrete surfaces that are constructed so they cannot be prevented from becoming slippery.
(8) Ladders placed in any location where they can be displaced by workplace activities or traffic, such as in passageways, doorways, or driveways, shall be secured to prevent accidental displacement, or a barricade shall be used to keep the activities or traffic away from the ladder.
(9) The area around the top and bottom of ladders shall be kept clear.
(10) The top of a non-self-supporting ladder shall be placed with the two rails supported equally unless it is equipped with a single support attachment.
(11) Ladders shall not be moved, shifted, or extended while occupied.
(12) Ladders shall have nonconductive siderails if they are used where the employee or the ladder could contact exposed energized electrical equipment.
(13) The top or top step of a stepladder shall not be used as a step.
(14) Cross-bracing on the rear section of stepladders shall not be used for climbing unless the ladders are designed and provided with steps for climbing on both front and rear sections.
(15) Ladders shall be inspected by a competent person for visible defects on a periodic basis and after any occurrence that could affect their safe use.
(16) Portable ladders with structural defects, such as, but not limited to, broken or missing rungs, cleats, or steps, broken or split rails, corroded components, or other faulty or defective components, shall either be immediately marked in a manner that readily identifies them as defective, or be tagged with "Do Not Use" or similar language, and shall be withdrawn from service until repaired.
(17) Fixed ladders with structural defects, such as, but not limited to, broken or missing rungs, cleats, or steps, broken or split rails, or corroded components, shall be withdrawn from service until repaired. The requirement to withdraw a defective ladder from service is satisfied if the ladder is either:

(i) Immediately tagged with "Do Not Use" or similar language.
(ii) Marked in a manner that readily identifies it as defective;
(iii) Or blocked (such as with a plywood attachment that spans several rungs).

(18) Ladder repairs shall restore the ladder to a condition meeting its original design criteria, before the ladder is returned to use.
(19) Single-rail ladders shall not be used.
(20) When ascending or descending a ladder, the user shall face the ladder
(21) Employees will always maintain at least three points of contact with the ladder at all times.
(22) An employee shall not carry any object or load that could cause the employee to lose balance and fall.

Care of Ladders:

a) Handle ladders with care. Do not drop, jar or misuse them.
b) Ladders shall be stored in a manner that will provide easy access for inspection and will permit safe withdrawal for use. They shall not be stored in a manner that presents a tripping hazard not where they can fall on someone. They should be stored in a manner that will prevent sagging.
c) Lubricate metal bearings of locks, wheels, pulleys, etc., as required to keep them working.
d) Replace frayed or badly worn rope.
e) Keep safety feet and other parts in good condition to ensure they work.
f) Maintain ladders in good usable condition. Inspect ladders prior to use.
g) Ladders with defects which cannot be immediately repaired, shall be removed from service for repair or destruction, and shall be tagged with a danger tag. Do not attempt to straighten or use a bent ladder made of reinforced plastic.
h) Rungs or steps on metal ladders that are not corrugated, knurled, or dimpled will have skid-resistant materials applied.

Laser Safety

Purpose:

The purpose of this chapter is to insure the safe use of lasers by identifying hazards, providing recommendations for proper use, providing for medical surveillance and for laser safety training for individuals using lasers.

Background:

Lasers present many safety threats, but the most common threat is damage to the eyes. Other common laser concerns include skin damage, electrical hazards from high-energy power sources, chemical exposure, fire/explosion hazards, and exposure to cryogenic materials such as hydrogen and oxygen. Many lasers emit invisible ultraviolet or infrared radiation.

Lasers are classified into four basic categories as indicated below:

- **Class 1:** Lowest power lasers that do not emit hazardous levels
- **Class 2:** Low-power lasers that pose a hazard only if viewed directly for extended periods
- **Class 3:** Medium-power lasers that pose moderate risk and can cause injury
- **Class 4:** High-energy, high-risk lasers that can cause injury to the eyes and skin from direct or diffused reflection

Procedures:

These laser devices require engineering controls to ensure safety. All Class 3 and 4 lasers require a combination of protective housing, area warning signs or remote firing capabilities.

The following information is required for obtaining a laser permit:

- Classification of the laser device
- Wavelength of the laser output
- Power output
- Appropriate eyewear

Personnel shall follow these guidelines when working with Class 3 and 4 lasers:

- Never aim a laser at a person.
- Use extreme caution when working with hand-held laser pointers.
- Do not allow children access to pointers.
- Wear protective clothing such as eyewear and skin protection as appropriate.
- Post warning signs at entrances where lasers are present.

Personnel shall follow these guidelines when working with Class 3 and 4 lasers: (continued)

- When working with power supplies, remove jewelry, stand on a dry surface, and work with only one hand at a time. Observe high voltage precautions (see Electrical Safety chapter).
- Control access to areas where lasers are used (i.e., no spectators).
- If possible, enclose the entire laser beam path on Class 4 lasers.

Responsibilities:

Office/Lab Managers are responsible for:

1. The immediate supervision of lasers in the office/laboratory.
2. Providing, implementing and enforcing the safety recommendations and requirements prescribed in this program.
3. Providing laser operators with training in the administrative, alignment and standard operating procedures.
4. Classifying and labeling all lasers.
5. Completing a Laser Registry Form and sending it to the Safety and Health Office.
6. Attending the Company's Laser Safety Training program.
7. Registering for the Medical Surveillance program.
8. Notifying the Safety and Health Office immediately in the event of an exposure to a Class 3 or Class 4 laser.

Laser Operators are responsible for:

1. Following laboratory administrative, alignment and standard operating procedures while operating lasers.
2. Keeping the Office/Lab Manager fully informed of any departure from established safety procedures. This includes notification of an exposure incident.
3. Attending the Company's Laser Safety Training program.
4. Registering for the Medical Surveillance program.

The Safety and Health Office will:

1. Conduct lab inspections to ensure that safety requirements are followed.
2. Provide assistance in evaluating and controlling hazards.
3. Update this Laser Safety Chapter.
4. Maintain all records of lasers and laser operators.
5. Conduct or coordinate laser safety training for personnel who are assigned to an area where lasers are operated.
6. Participate in accident investigations involving lasers.
7. Coordinate the Medical Surveillance Program.

Personnel Training and Qualification:

All staff and students operating lasers are required to attend the Laser Safety training course presented by the Office of Environmental Health & Radiation Safety.

Only a qualified and authorized person is permitted to operate a laser. The Principal Investigator determines the employee's operational qualification from departmental or technical training or other acceptable learning experience.

Before operating a Class 3 or Class 4 laser, or a Class l laser system that encloses a Class 3 or Class 4 laser a person must:

1. Review this Laser Safety Chapter
2. Receive from the Office/Lab Manager a thorough review of the laser equipment to be used and the administrative, alignment and standard operating procedures.
3. Review the operating and safety instructions furnished by the manufacturer.

Medical Surveillance:

Individuals operating Class 1, 2 and 3a lasers are exempt from eye exams.

Laser operators or individuals who will work in areas where there may be exposure to laser radiation from a Class 3 or Class 4 laser are required to have a baseline eye examination prior to using the laser. This examination will be paid for by the Company.

To schedule a laser eye examination, contact the Safety and Health Office and request a laser eye examination.

An examination is required when an individual terminates his or her work in a laser laboratory.

Exposure Incidents:

If an exposure incident occurs, the Safety and Health Office must be notified by the Office/Lab Manager or the person operating the laser.

If the incident causes an injury or could potentially have caused an injury, the person or persons who have received an exposure should inform their supervisor and be seen immediately by the Company Medical Facility.

The Project Manager will conduct an investigation, and an incident report will be written.

Laser Hazard Analysis:

Before appropriate controls can be selected and implemented, laser radiation hazards must be identified and evaluated. These types of hazards include:

1. Eye ~ Acute exposure of the eye to lasers of certain wavelengths and power can cause corneal or retinal burns (or both). Chronic exposure to excessive levels may cause corneal or lenticular opacities (cataracts) or retinal injury
2. Skin ~ Acute exposure to high levels of optical radiation may cause skin burns; while carcinogenesis may occur from ultraviolet wavelengths (290-320 nm).
3. Chemical ~ Some lasers require hazardous or toxic substances to operate (i.e., chemical dye, Excimer lasers).
4. Electric shock ~ Most lasers produce high voltages that can be lethal.
5. Fire hazards ~ Solvents used in dye lasers are flammable. High voltage pulse or flash lamps may cause ignition. Flammable materials may be ignited by direct beams or specular reflections from high power continuous wave (CW) infrared lasers.

Lasers and laser systems are grouped according to their capacity to produce injury, and specific controls are then described for each group. Lasers manufactured after August 1, 1976 are classified and labeled by the manufacturer. Information on the label must include class, the maximum output power, the pulsed duration (if pulsed), and the laser medium or emitted wavelengths.

Maximum Permissible Exposure (MPE): The level of laser radiation to which a person may be exposed without hazardous effect or adverse biological changes in the eye or skin. The criteria for MPE for the eye and skin are detailed in Section 8 of ANSI Z136.1-1993.

Laser Classification:

Lasers are generally classified and controlled according to the following criteria:

1. *Class 1* : Low-power lasers and laser systems that cannot emit radiation levels greater than the Maximum Permissible Exposure (MPE). Class 1 lasers and laser systems are incapable of causing eye damage and are therefore exempt from any control measures.

2. *Class 2:* Visible, low power lasers or laser systems that are incapable of causing eye damage unless they are viewed directly for an extended period (greater than 1000 seconds).

3. *Class 3* : Medium-power lasers and laser systems capable of causing eye damage with short-duration (<0.25 s) exposures to the direct or specularly reflected beam. Includes Class 3a and 3b lasers.

Lasers are generally classified and controlled according to the following criteria: (cont.)

4. *Class 3a* : Lasers or lasers systems that normally would not produce a hazard if viewed for only momentary periods with the unaided eye. They may present a hazard if viewed using collecting optics.

5. *Class 3b* : Lasers or lasers systems that can produce a hazard if viewed directly. This includes intrabeam viewing of specular reflections.

6. *Class 4:* High power lasers and laser systems capable of causing severe eye damage with short-duration (<0.25 s) exposures to the direct, specularly reflected, or diffusely reflected beam. Class 4 lasers and laser systems are also capable of causing severe skin damage and igniting flammable and combustible materials.

<u>General Laser Safety Recommendations and Requirements</u>:

Eye Protection: The Office/Lab Manager who supervise the operation of a laser are responsible for determining the need for laser eye protection for each particular laser. If required, eye protection will be provided by the supervisor for staff and visitors to the area.

The minimum laser radiant energy or laser power level required for the application should always be used.

Beam Control : To minimize direct eye exposure, personnel shall observe these precautions:

1. Do not intentionally look directly into the laser beam or at a specular reflection, regardless of its power.
2. Terminate the beam at the end of its useful path.
3. Locate the beam path at a point other than eye level when standing or when sitting at a desk.
4. Orient the laser so that the beam is not directed toward entry doors or aisles.
5. Minimize specular reflections.
6. Securely mount the laser system on a stable platform to maintain the beam in a fixed position during operation and limit beam traverse during adjustments.
7. Confine primary beams and dangerous reflections to the optical table.
8. Clearly identify beam paths and ensure that they do not cross populated areas or traffic paths.
9. When the beam path is not totally enclosed, locate the laser system so that the beam will be outside the normal eye-level range, which is between 1.2 to 2 meters from the floor. A beam path that exits from a controlled area must be enclosed where ver the beam irradiance exceeds the MPE.

Additional Beam Controls for Class 1 and Class 2 Lasers

Warning signs : Post at each entrance to the operating area "CAUTION - LOW POWER LASER" signs.

If the laser has not been labeled by the manufacturer, attach a label on the laser with its classification and relevant warning information. Contact the Project Manager for assistance.

Refer to the ANSI Z136.1-1993 and Table 1 of this manual for further guidance on control measures for various classifications of lasers.

Additional Controls for Class 3 and 4 Lasers

All Office/Lab Manager are required to write standard operating procedures for all laser operations involving Class 3 and Class 4 lasers detailing alignment, operation and maintenance procedures. The standard operating procedures should be posted or attached to the inside surface of the lab door.

Standard Operating Procedures must include procedures to address when:

1. Use of eyewear, shields, and access control are necessary.
2. Two or more Class 3 or Class 4 lasers will be used in the same area by different operators without permanent, intervening barriers.
3. An interlock bypass is installed that does not conform to the conditions of the Laser Safety Chapter.
4. A laser installation does not include all the required controls specified in this manual (e.g., temporary operations).
5. Other hazards may be involved that require a Standard Operating Procedure (e.g.., acutely toxic gases, unattended laser operation). For assistance in completing a Standard Operating Procedure, contact the Project Manager.
6. A log must be maintained showing periods of use, service, maintenance and incidents.
7. Labels: A laser classification label must be conspicuously affixed to the laser housing.
8. Warning Signs: Each entrance must be posted with a danger sign in accordance with ANSI Z136.1-1993.
9. Warnings Devices: Entrances to offices/laboratories with a Class 3 or 4 laser shall have a lighted warning sign that is fail-safe interlocked with the laser to activate when the laser is energized. The sign must be tested monthly. A written record must be kept of each test in the log book (see section 6).

Standard Operating Procedures (regarding Class 3 and 4 Lasers) must include procedures to address when: (continued)

10. Safety Interlocks
    a. Access doors to a controlled laser area in which a Class 3b or a Class 4 laser is being operated must be equipped with safety interlocks to prevent laser operation when the interlock circuit is broken.
    b. All protective enclosures that surround laser devices and high-voltage electrical sources must also be equipped with interlocks to prevent operation of the equipment.
    c. Interlocks should be tested quarterly to ensure that they are operational . A written record must be kept of each test in the log book (see section 6).
    d. Interlocks must be designed so that after they are actuated, the capacitor banks, shutters, or power supplies cannot be re-energized except by manually resetting the system.

11. The responsible individual in a laser area controlled by a warning light is permitted to momentarily override (bypass) door interlocks to allow access of authorized persons if all of the following conditions are met:
    a. There is no laser radiation hazard at the point of entry.
    b. The necessary protective devices are worn by the personnel entering the area.
    c. An interlock bypass circuit is designed into the interlock control system. This bypass circuit must only be operated from inside the interlocked area. It must delay no more than 15 seconds before shutting down the system.

12. If interlocks are not feasible, the Office/Lab Manager may consider the use of alarms or voice warnings. The Safety and Health Office must be consulted.

13. Laser laboratories and controlled areas must be designed so that personnel can enter and leave under emergency conditions.

14. Lasers must have a master switch with a key or coded access that prevents use once the key has been removed or a code has been entered. The key must not be left in the control panel when the laser is not in use.

15. Laser Activation Warning Systems: An alarm, a warning light, or a verbal "countdown" command must be used during activation and start up.

16. Lasers must have a permanently attached beam stop or attenuator and emission delay.

17. Laser controlled areas shall be established which have limited access, covered windows and doors, and only diffuse reflective material. The facility must be a fully enclosed room or laboratory with floor-to-ceiling walls. Access to the area during laser operation requires the permission of the responsible operator.

Standard Operating Procedures (regarding Class 3 and 4 Lasers) must include procedures to address when: (continued)

18. Class 3 and 4 infrared laser beams with a wavelength greater than or equal to 710 nm must be terminated with fire resistant material.

19. Securely fasten all mirrors, prisms, beam stops, etc. in the beam path. Ensure that the laser is also securely fastened.

20. Circuit breakers must be identified for each laser.

21. *Beam Enclosure* : The entire beam path of Class 3 and Class 4 lasers, including the target area, should be surrounded by an enclosure equipped with interlocks that prevents operation of the laser system unless the enclosure is properly secured. When total enclosure of the laser beam path is not practical, both the non-enclosed laser beam and any strong reflections must be terminated at the end of their useful path using such devices as backstops, shields or beam traps.

22. *Reflection Control*

a. Materials that diffusely reflect laser radiation must be used in place of specularly reflective surfaces wherever possible.
b. To minimize personnel exposure, specularly reflecting surfaces that are needed for beam-path control should be enclosed or shielded.

23. *Invisible Beams*

Ultraviolet (UV) and infrared (IR) lasers that emit invisible beams require several additional controls:

a. Visual or audible beam-warning devices must be installed in areas where personnel may be exposed to radiation in excess of the Maximum Permissible Exposure (MPE). These warning devices must be clearly identified and visible from all areas of potential exposure.
b. Shielding must be installed that will attenuate UV radiation to levels below the MPE for the wavelength being used.
c. Hazardous concentrations of by-products formed by the reaction of intense UV radiation with materials in the area must be controlled.
d. IR beam enclosures and backstops must be fabricated of IR-absorbent material. For Class 4 lasers, the absorbent material must also be fire-resistant.

24 *Beam Mapping*

Controlled laser areas must be surveyed with appropriate measuring devices to locate and identify direct and reflected beams that exceed the MPE; shielding maybe required to limit unwanted radiation.

Standard Operating Procedures (regarding Class 3 and 4 Lasers) must include procedures to address when: (continued)

25. *Direct Viewing*
    a. Personnel must never look directly into any laser beam unless such action is specifically approved by the Safety and Health Office.
    b. The primary beam and specular reflections of Class 3 or Class 4 lasers are particularly hazardous. In those cases where it is necessary to directly view a beam from a Class 3 or Class 4 laser, special provisions, such as filters, are mandatory.
    c. A Standard Operating Procedure must be prepared for operations where the beam of a Class 3 or Class 4 laser must be viewed directly or where it is necessary to work with optical viewers in close proximity to the laser beam.

26. *Alignment*
    a. High-power laser optical systems must never be aligned by direct beam viewing if the radiant exposure or irradiance exceeds the MPE.
    b. Use low-power lasers, diffuse reflectors, image-retaining screens, exposed Polaroid film, and other devices that will minimize eye exposure.

27. *Optical Viewing Aids*

Using optical systems such as cameras, telescopes, microscopes, etc., to view laser beams may increase the eye hazard. Therefore, all collecting optics must incorporate suitable means (such as interlocks, filters, or attenuators) to prevent eye expos ures above the MPE.

28. *Protective Equipment*
    a. Laser protective eye wear shall be worn whenever MPE levels may be exceeded. However, it is good practice to always wear eye protection when lasers are in use. In general, eye wear provides protection over a narrow range of the laser spectrum.
    b. Eye wear designed for protection at one wavelength may afford little or no protection at another wavelength.
    c. Consult eye wear manufacturers and the Safety and Health Office for proper selection of protective eye wear.
    d. Laser protective eye wear must be approved by the American National Standards Institute (ANSI) and clearly labeled with optical densities and wavelengths for which protection is afforded.
    e. Eye wear must be inspected periodically by the user for pitting and cracking of the attenuating material, and for mechanical integrity and light leaks in the frame.
    f. Protection for the skin may be afforded through the use of clothing to cover normally exposed skin areas.

Standard Operating Procedures (regarding Class 3 and 4 Lasers) must include procedures to address when: (continued)

29. *Unattended Equipment*
    a. When lasers are to be left unattended, de-energize the power supplies or capacitor banks and remove the keys from power switches or master interlocks to prevent unauthorized activation of the equipment.
    b. The operation of unattended lasers is only allowed when a specific standard operating procedure has been written and approved by the Office/Lab Manager.

30. *Temporary Installations*
    a. Occasionally, it may be necessary to remove protective enclosures or override equipment interlocks or other safety devices for service adjustments, maintenance, special training exercises, etc.
    b. In these instances, a temporary controlled laser area must be set up. Specific methods for handling situations of this type must be described in the SOP.
    c. Because the area will not have all the standard safety features, the SOP must describe provisions for protecting personnel who could potentially be exposed.
    d. When the entire beam path is not fully enclosed, restrict access into the area to persons wearing proper protective equipment. Make sure that all optical paths from the restricted-access area are adequately covered to prevent escape of laser radiation greater than the MPE for the eye.

<u>Converting to a Class l Enclosed Laser:</u>

Any laser or laser system can be converted to a Class 1 enclosed laser by including all of the following controls in the laser system design. These controls will effectively enclose the laser, thus preventing personnel contact with the emitted radiation while permitting unrestricted access into the area.

Protective Housing

a. House the laser system within a protective enclosure to prevent escape of laser radiation above the MPE.
b. The protective housing must prevent personnel access to the laser system during normal operations.
c. Personnel entering the enclosure to perform maintenance or adjustment tasks must be made aware of the higher risks and comply with the control measures for the higher risk laser class.

Safety Interlocks:

a. Install safety interlocks wherever the enclosure can be opened, removed or displaced.

b. When activated, these interlocks must prevent a beam with a radiant energy above the MPE from leaving the laser or laser system .

c. Service adjustments or maintenance work performed on the laser system must not render the interlocks inoperative or cause exposure levels outside the enclosure to exceed the MPE, unless the work is performed in a laser area with limited access and appropriate safeguards, supervision and control.

Fail-Safe Design: The protective enclosure and the laser system must be designed and fabricated so that if a failure occurs, the system will continue to meet the requirements for an enclosed laser operation.

Modifications to commercial laser systems must be evaluated. Contact the Safety and Health Office for an evaluation. If the modifications decrease the safety controls, a SOP will be required.

Attenuated Viewing Windows: Use viewing windows containing a suitable filter material that will attenuate the transmitted laser radiation to levels below the MPE under all conditions of operation.

Warning Signs and Labels

a. Label the enclosure with "CAUTION-ENCLOSED LASER" signs.

b. Attach a label directly to the laser which gives the laser classification in the absence of the enclosure. Make sure that the label can immediately be seen when the enclosure is opened.

<u>Controlling Associated Hazards</u>:

Many chemical and physical hazards other than laser radiation can be found in the laser area that must also be adequately controlled.

1. Electrical Equipment and Systems

a. Always be aware of the high risk of injury and fire in laser operations because of the presence of electrical power sources.

b. The installation, operation, and maintenance of electrical equipment and systems must conform to the standards stated in the National Electric Code.

2. Lighting

a. Adequate lighting is necessary in controlled areas.
b. If lights are extinguished during laser operation, provide control switches in convenient locations or install a radio controlled switch.
c. Luminescent strips should be used to identify table and equipment corners, switch locations, aisles, etc.
d. When natural light is not sufficient for safe egress from a laser area during an electrical power failure, install emergency lighting.

3. Ionizing and Non-ionizing Radiation

a. A laser operation may involve ionizing radiation that originates from the presence of radioactive materials or the use of electrical power in excess of 15 kV
b. Microwave and radio frequency (RF) fields may be generated by laser systems or support equipment.
c. Contact the Safety and Health Office to obtain an evaluation of these hazards before starting an operation.

4. Hazardous Materials

a. Bring into the laser area only those hazardous materials that are needed for the operation.
b. All hazardous materials must be properly used, stored and controlled. Consult Materials Safety Data Sheets, the Chemical Safety Plan and Safety and Health Office for information.
c. Do not allow laser beams and strong reflections to impinge on combustible materials, explosives, highly flammable liquids or gases or substances that decompose into highly toxic products under elevated temperatures, without providing adequate controls.
d. Conduct or sponsor tests that establish the effects of beam interactions with hazardous materials. Test results can be used to determine safe parameters for laser operation.

5. Dyes and Solutions

a. Dye lasers normally use a lasing medium composed of a complex fluorescent organic dye dissolved in an organic solvent. These dyes vary greatly in toxicity, mutagenicity, and potential carcinogenicity.
b. All dyes must be treated as hazardous chemicals. Most solvents suitable for dye solutions are flammable and toxic by inhalation and/or skin absorption. Obtain Material Safety Data Sheets from the Safety and Health Office for all dyes and solvents.
c. Use and store all dyes and solvents in accordance with the Company's Chemical Safety Plan.
d. Prepare/handle dye-solutions inside a chemical fume hood.
e. Wear a lab coat, eye protection and gloves. Call the Safety and Health Office for assistance in glove selection.
f. Pressure-test all dye laser components before using dye solutions. Pay particular attention to tubing connections.
g. Install spill pans under pumps and reservoirs.
h. Be alert to contaminated parts.
i. Keep dye-mixing areas clean.

Personal Protective Equipment Program

Policy:

Protective clothing will be provided whenever it is necessary by reason of hazards, processes or environmental conditions. The Company requires that protective clothing be used when chemical hazards, radiological hazards, or mechanical irritants are encountered in a manner capable of causing injury or impairment through absorption, inhalation, or physical contact.

References

20 CFR 1910.134 Subpart I - Personal Protective Equipment

Responsibilities:

The Project Manager will ensure contractors are responsible for assessing the hazards and exposures that may require the use of PPE, determining the type of equipment to be provided, and purchasing the equipment. Input from managers, supervisors, and employees will be obtained and considered in selecting appropriate equipment.

Managers/supervisors will be responsible for training employees in the use and proper care of PPE, ensuring that all employees are assigned appropriate PPE, and ensuring that PPE is worn by employees when and where it is required.

Employees are responsible for following all provisions of this program and related procedures. They are expected to wear PPE when and where it is required.

Purpose:

The purpose of this program is to protect our employees by ensuring that Personal Protective Equipment (PPE) is provided, used, and maintained in a sanitary and reliable condition whenever it is necessary due to hazards from processes or in the work environment. To the extent that it is possible and feasible, the company will remove or eliminate hazards or exposures through engineering means to eliminate the need for PPE.

This program covers eye and face protection, head protection, foot protection, hand protection, and electrical protection. Respiratory hazards and hearing hazards are covered by other programs, but they will also be included in the Hazard Assessment described below. This program covers the responsibilities of managers, supervisors and workers, assessment of hazards, selection and use of personal protective equipment (PPE), and training.

Procedures:

a. Personal protective clothing is to include approved lab coats, surgical caps, masks, gloves, special shirts, trousers, overalls, jumpsuits, safety shoes, hard hats, coats and smocks. As a minimum, Company furnished lab coats should always be worn during laboratory work.

b. Requests for all personal protective clothing not available as Company stock items are generated by the supervisor and are approved by the Divisional Manager. The protective clothing must be worn by the employees and visitors as dictated by Company policy. The clothing will be available only in compromise sizes (i.e. small, medium, and large).

c. Personal protective clothing may not be worn in the cafeteria or other food consumption areas, conference rooms, picnic areas or off campus.

d. Sandals, and open-toed shoes, are prohibited in laboratory, shop, warehouse, and animal housing areas.

e. Safety shoes should be worn by all shop, warehouse and maintenance personnel as dictated by the nature of the work. Safety shoe areas are recommended by the supervisor and approved by the Safety and health Manager. The user will be responsible for the proper cleaning, maintenance and use of the safety shoes.

g. Hard hats should be worn in all posted areas (e.g., locations in warehouses, shops, and building construction or renovation areas) and when performing work in which the supervisor Safety and Health Manager decides such hazards exist.

Hazard Assessment:

The Company will perform an assessment of the workplace to determine if hazards are present, or likely to be present, which necessitate the use of personal protective equipment (PPE). This assessment will consist of a survey of the workplace to identify sources of hazards to workers. Consideration will be given to hazards such as impact, penetration, laceration, compression (dropping heavy objects on foot, roll-over, etc.), chemical exposures, harmful dust, heat, light (optical) radiation, electrical hazards, noise, etc. Where such hazards are present, or likely to be present, the Company will:

- Select, and have each affected employee use, the types of PPE that will protect the employee from the hazards identified in the hazard assessment.
- Communicate equipment selection decisions to each affected employee

Where such hazards are present, or likely to be present, the Company will (continued):

- Select PPE that properly fits each affected employee
- Train employees in the use and care of PPE as described elsewhere in this program

The Company will verify that the workplace hazard assessment has been performed by conducting a written certification. This certification will be dated and signed by the Safety and Health manager or person conducting the assessment. Whenever there is a change in process or in the workplace that might introduce or change an exposure or hazard, the company will perform an assessment to determine if there needs to be additional PPE or a change in the PPE provided. These supplemental hazard assessments will also be documented, signed and dated by the person performing the assessment. The Company will review and update the workplace hazard assessment on an annual basis.

SELECTION OF PERSONAL PROTECTIVE EQUIPMENT (PPE):

Personal protective equipment (PPE) will be selected on the basis of the hazards to which the workers' are exposed or potentially exposed. All selections will be made by with input from managers, supervisors and workers.

Personal protective equipment will meet the following standards:

- Eye & Face Protection devices - ANSI Z87.1-1989 "American National Standard Practice for Occupational and Educational Eye and Face Protection"

- Head Protection devices - ANSI Z89.1-1986 "American National Standard for Personal Protection - Protective Headwear for Industrial Workers"

- Foot Protection devices - ANSI Z41-1991 "American National Standard for Personal Protection - Protective Footwear"

- Hand Protection - No national standard available - Selection will be based on task performed, conditions present, duration of use, and the hazards and potential hazards identified.

- Electrical Protective equipment - No national standard - Equipment will be tested electrically before first use and every 6 months thereafter or upon indication that insulating value is suspect.

Training:

Each employee who is required to use PPE will be trained in the following:

- Why PPE is necessary
- When PPE is necessary
- What PPE is necessary and any alternative choices of equipment
- How to properly don, doff, adjust, and wear PPE
- The proper care, maintenance, storage, useful life, and disposal of PPE

The training will include an opportunity for employees to handle the PPE and demonstrate that they understand the training and have the ability to use the PPE properly. Training will be provided by the manager or supervisor of the affected employees. Training will be documented in writing with the documentation including the names of each employee trained, the date(s) of the training, and the subject matter covered.

If an employee, who has been trained, demonstrates a lack of knowledge or behavior which leads the supervisor to believe the employee does not have a proper understanding of the PPE involved, that employee will be retrained. If there are changes in the workplace or processes that change the exposures or type of PPE to be used, all affected employees will be retrained.

Care Of Personal Protective Equipment:

Whenever practical, PPE will be assigned to individual workers for their exclusive use. Employees will be responsible for the PPE equipment assigned to them or used by them.

PPE will be regularly cleaned, inspected and stored according to instructions given during the training sessions or as directed by supervisors or managers. Defective or damaged PPE shall not be used. Employees are to report any defective or damaged equipment to their supervisor for repair or replacement.

Personal Protective Equipment:

Engineering controls shall be the primary methods used to eliminate or minimize hazard exposure in the workplace. When such controls are not practical or applicable, personal protective equipment shall be employed to reduce or eliminate personnel exposure to hazards.

Personal protective equipment (PPE) will be provided, used, and maintained when it has been determined that its use is required and that such use will lessen the likelihood of occupational injuries and/or illnesses. The Divisional Manager will recommend and/or provide necessary protective equipment where there is a reasonable probability that the use of the equipment will prevent or reduce the severity of injuries or illness.

Equipment Specifications and Requirements-

All personal protective clothing and equipment will be of safe design and construction for the work to be performed. Only those items of protective clothing and equipment that meet National Institute of Occupational Safety and Health (NIOSH) or American National Standards Institute (ANSI) standards will be procured or accepted for use.

Eye and Face Protection-

The majority of occupational eye injuries can be prevented by the use of suitable/approved safety spectacles, goggles, or shields. Approved eye and face protection shall be worn when there is a reasonable possibility of personal injury. Supervisors, with assistance from the Safety and Health Manager, determine jobs and work areas that require eye protection and the type of eye and face protection that will be used.

Typical hazards that can cause eye and face injury are:

- Splashes of toxic or corrosive chemicals, hot liquids, and molten metals;
- Flying objects, such as chips of wood, metal, and stone dust;
- Fumes, gases, and mists of toxic or corrosive chemicals; and
- Aerosols of biological substances.

Prevention of eye accidents requires that all persons who may be in eye hazard areas wear protective eyewear. This includes employees, visitors, researchers, contractors, or others passing through an identified eye hazardous area. To provide protection for these personnel, activities shall procure a sufficient quantity of heavy duty goggles and/or plastic eye protectors which afford the maximum amount of protection possible.

If these personnel wear personal glasses, they shall be provided with a suitable eye protector to wear over them.

Eye and Face Protection- (continued)

Specifications-

Eye and face protectors procured, issued to, and used by Company personnel must conform to the following design and standards:

a) Provide adequate protection against the particular hazards for which they are designed

b) Fit properly and offer the least possible resistance to movement and cause minimal discomfort while in use.

c) Be durable.

d) Be easily cleaned or disinfected for or by the wearer.

e) Be clearly marked to identify the manufacturer.

f) Persons who require corrective lenses for normal vision, and who are required to wear eye protection, must wear goggles or spectacles of one of the following types:

1) Spectacles with protective lenses which provide optical correction.

2) Goggles that can be worn over spectacles without disturbing the adjustment of the spectacles.

3) Goggles that incorporate corrective lenses mounted behind the protective lenses.

Description and Use of Eye/Face Protectors

a) Safety Spectacles. Protective eye glasses are made with safety frames, tempered glass or plastic lenses, temples and side shields which provide eye protection from moderate impact and particles encountered in job tasks such as carpentry, woodworking, grinding, scaling, etc.

b) Single Lens Goggles. Vinyl framed goggles of soft pliable body design provide adequate eye protection from many hazards. These goggles are available with clear or tinted lenses, perforated, port vented, or non-vented frames.

Single lens goggles provide similar protection to spectacles and may be worn in combination with spectacles or corrective lenses to insure protection along with proper vision.

Description and Use of Eye/Face Protectors (continued)

c) Welders/Chippers Goggles. These goggles are available in rigid and soft frames to accommodate single or two eye piece lenses.

Welders goggles provide protection from sparking, scaling or splashing metals and harmful light rays. Lenses are impact resistant and are available in graduated shades of filtration.

Chippers/grinders goggles provide eye protection from flying particles. The dual protective eye cups house impact resistant clear lenses with individual cover plates.

d) Face Shields. These normally consist of an adjustable headgear and face shield of tinted/transparent acetate or polycarbonate materials, or wire screen. Face shields are available in various sizes, tensile strength, impact/heat resistance and light ray filtering capacity. Face shields will be used in operations when the entire face needs protection and should be worn to protect eyes and face against flying particles, metal sparks, and chemical/ biological splash.

e) Welding Shields. These shield assemblies consist of vulcanized fiber or glass fiber body, a ratchet/button type adjustable headgear or cap attachment and a filter and cover plate holder. These shields will be provided to protect workers' eyes and face from infrared or radiant light burns, flying sparks, metal spatter and slag chips encountered during welding, brazing, soldering, resistance welding, bare or shielded electric arc welding and oxyacetylene welding and cutting operations.

The Project Manager maintains a supply of various eye and face protective devices. Personnel requiring prescription safety glasses must contact the Safety and Health Manager.

Emergency Eyewash Facilities-

Emergency eyewash facilities meeting the requirements of ANSI Z358.1-1981 shall be provided in all areas where the eyes of any employee may be exposed to corrosive materials. All such emergency facilities shall be located where they are easily accessible to those in need.

Hearing Protection-

Hearing protection devices are the first line of defense against noise in environments where engineering controls have not reduced employee exposure to safe levels. Hearing protective devices can prevent significant hearing loss, but only if they are used properly.

The most popular hearing protection devices are earplugs which are inserted into the ear canal to provide a seal against the canal walls. Earmuffs enclose the entire external ears inside rigid cups. The inside of the muff cup is lined with acoustic foam and the perimeter of the cup is fitted with a cushion that seals against the head around the ear by the force of the headband.

Preformed earplugs and earmuffs should be washed periodically and stored in a clean area, and foam inserts should be discarded after each use. It is important for you to wash hands before handling pre-formed earplugs and foam inserts to prevent contaminants from being placed in the ear which may increase your risk of developing infections.

Also, check hearing protective devices for signs of wear or deterioration.

Replace devices periodically.

The Divisional Manager maintains a supply of a variety of disposable foam ear inserts and earmuffs.

Respiratory Protection-

Respiratory hazards may occur through exposure to harmful dusts, fogs, fumes, mists, gases, smoke, sprays, and vapors. The best means of protecting personnel is through the use of engineering controls, e.g., local exhaust ventilation. Only when engineering controls are not practical or applicable shall respiratory protective equipment be employed to reduce personnel exposure.

Respiratory Protection- (continued)

Adherence to the following guidelines will help ensure the proper and safe use of respiratory equipment:

- Wear only the respirator you have been instructed to use. For example, do not wear a self-containing breathing apparatus if you have been assigned and fitted for a half-mask respirator.
- Wear the correct respirator for the particular hazard. For example, some situations, such as chemical spills or other emergencies, may require a higher level of protection than your respirator can handle. Also, the proper cartridge must be matched to the hazard (a cartridge designed for dusts and mists will not provide protection from vapors)
- Check the respirator for a good fit before each use. Positive and negative fit checks should be conducted.
- Check the respirator for deterioration before and after use. Do not use a defective respirator.
- Recognize indications that cartridges and canisters are at their end of service. If in doubt, change cartridges/ canisters before using respirator.
- Practice moving and working while wearing the respirator so that you can get used to it.
- Clean the respirator after each use, thoroughly dry it and place the cleaned respirator in a sealable plastic bag.
- Store respirators carefully in a protected location away from excessive heat, light, and chemicals.

Head Protection-

Hats and caps have been designed and manufactured to provide workers protection from impact, heat, electrical and fire hazards. These protectors consist of the shell and the suspension combined as a protective system. Safety hats and caps will be of nonconductive, fire and water resistant materials. Bump caps or skull guards are constructed of lightweight materials and are designed to provide minimal protection against hazards when working in congested areas.

Head protection will be furnished to, and used by, all employees and contractors engaged in construction and other miscellaneous work in head-hazard areas. Head protection will also be required to be worn by engineers, inspectors, and visitors at construction sites. Bump caps/skull guards will be issued to and worn for protection against scalp lacerations from contact with sharp objects. They will not be worn as substitutes for safety caps/hats because they do not afford protection from high impact forces or penetration by falling objects.

Hand Protection-

Skin contact is a potential source of exposure to toxic materials; it is important that the proper steps be taken to prevent such contact. Gloves should be selected on the basis of the material being handled, the particular hazard involved, and their suitability for the operation being conducted. One type of glove will not work in all situations.

Most accidents involving hands and arms can be classified under four main hazard categories: chemicals, abrasions, cutting, and heat. There are gloves available that can protect workers from any of these individual hazards or any combination thereof.

The first consideration in the selection of gloves for use against chemicals is to determine, if possible, the exact nature of the substances to be encountered. Read instructions and warnings on chemical container labels and MSDSs before working with any chemical. Recommended glove types are often listed in the section for personal protective equipment.

All glove materials are eventually permeated by chemicals. However, they can be used safely for limited time periods if specific use and glove characteristics (i.e., thickness and permeation rate and time) are known. The Safety and Health Manager can assist is determining the specific type of glove material that should be worn for a particular chemical.

Gloves should be replaced periodically, depending on frequency of use and permeability to the substance(s) handled. Gloves overtly contaminated should be rinsed and then carefully removed after use.

Gloves should also be worn whenever it is necessary to handle rough or sharp-edged objects, and very hot or very cold materials. The type of glove materials to be used (in these situations) include leather, welder’s gloves, aluminum-backed gloves, and other types of insulated glove materials.

Careful attention must be given to protecting your hands when working with tools and machinery. Power tools and machinery must have guards installed or incorporated into their design that prevent the hands from contacting the point of operation, power train, or other moving parts. To protect the hands from injury due to contact with moving parts, it is important to:

- Ensure that guards are always in place and used.
- Always lock out machines or tools and disconnect the power before making repairs.
- Treat a machine without a guard as inoperative; and
- Do not wear gloves around moving machinery, such as drill presses, mills, lathes, and grinders.

Hand Protection- (continued)

The Project Manager can help the supervisor identify appropriate glove selections for their operations. The Project Manager also maintains a selection of gloves for various tasks.

Safety Shoes-

Safety shoes shall be worn in the shops, warehouses, maintenance, cagewash, glassware, and other areas as determined by the Health and Safety Branch. Recommendations for safety footwear shall be approved by the Health and Safety Branch. All safety footwear shall comply with American National Standards Institute (ANSI) Standard ANSI Z41-1991, "American National Standard for Personal Protection - Protective Footwear. Protective footwear purchased before July 5, 1994, shall comply with ANSI Standard Z41.1-1967.

Permanent full time employees will be initially issued two pairs of safety shoes of approved type. Shoes will be replaced or repaired as necessary based on supervisory approval. Other than permanent employees will be issued one pair of safety shoes with replacement as necessary based on supervisory approval.

Responsibilities-

a. Supervisor - Reviews employees work situation and recommends safety footwear as appropriate in accordance with established Institute policy. Requests safety shoes from the Safety and Health manager for new employees or as indicated for replacement. Ensures that all employees under his supervision use and maintain safety footwear. Makes determination on the need for replacement or repair of safety shoes.

b. Employee - Wears Institute provided or approved safety shoes in all areas requiring safety footwear as determined by the supervisor and the Health and Safety Manager.

c. Project Manager - Consults with supervisors concerning safety shoe requirements and approves issuance of all safety shoes. Arranges for local purchase of all safety shoes. Makes arrangements for necessary repairs.

Safety Shoes-

Procedures-

a. Supervisors must review employee's work situation in consultation with the Health and Safety Manager to decide the need for safety footwear and appropriate types. The "Request for Safety Shoes" must be completed, reviewed and signed by the supervisor and approved by the Health and Safety Manager.

b. Any employee desiring to replace his/her safety footwear must complete the "Request for Safety Shoes" and have it signed by their supervisor.

c. If an employee is unable to find appropriate safety footwear at the designated vendors, he or she should check with the Health and Safety Manager for alternate procedures. Alternate procedures involve employees purchasing safety footwear with their own funds and being reimbursed.

f. Employee who want to have their footwear repaired, should be encouraged to do so. Some footwear is designed to be repaired, and some is not. Repairs would include such items as new soles and heels. The Company will reimburse employees for repairs.

Hearing Personal Protective Equipment

Hearing protective devices (ear plugs, muffs, etc.) shall be the permanent solution only when engineering or administrative controls are considered to be infeasible or cost prohibitive. Hearing protective devices are defined as any device that can be worn to reduce the level of sound entering the ear. Hearing protective devices shall be worn by all personnel when they must enter or work in an area where the operations generate noise levels of:

•Greater than 85 dBA sound levels, or
•120 dB peak sound pressure level or greater

Types of Hearing Protective Devices Hearing protective devices include the following:

a. Insert Type Earplugs

A device designed to provide an air-tight seal with the ear canal. There are three types of insert earplugs – premolded, formable, and custom earplugs.

1. Premolded Earplugs

Premolded earplugs are pliable devices of fixed proportions. Two standard styles, single flange and triple flange, come in various sizes, and will fit most people. Personnel responsible for fitting and dispensing earplugs will train users on proper insertion, wear, and care. While premolded earplugs are reusable, they may deteriorate and should be replaced periodically.

2. Formable

Formable earplugs come in just one size. Some are made of material which, after being compressed and inserted, expands to form a seal in the ear canal. When properly inserted, they provide noise attenuation values that are similar to those from correctly fitted premolded earplugs. Individual units may procure approved formable earplugs. Supervisors must instruct users in the proper use of these earplugs as part of the annual education program. Each earplug must be held in place while it expands enough to remain firmly seated. A set of earplugs with a cord attached is available. These earplugs may be washed and therefore are reusable, but will have to be replaced after two or three weeks or when they no longer form an airtight seal when properly inserted.

3.Custom Molded Earplugs

A small percentage of the population cannot be fitted with standard premolded or formable earplugs. Custom earplugs can be made to fit the exact size and shape of the individual’s ear canal. Individuals needing custom earplugs will be referred to an audiologist.

b. Earmuffs

Earmuffs are devices worn around the ear to reduce the level of noise that reaches the ear. Their effectiveness depends on an air tight seal between the cushion and the head.

Selection of Hearing Protective Devices

Employees will be given the opportunity to select hearing protective devices from a variety of suitable ones provided by the Office of Health and Safety. In all cases the chosen hearing protectors shall have a Noise Reduction Ratio (NRR) high enough to reduce the noise at the ear drum to 85 dBA or lower.

Issuance of Hearing Protective Devices

The issuance of hearing protective devices is handled through the Safety and Health Manager. The Project Manager will issue and fit the initial hearing protective devices (foam inserts, disposables). Instruction on the proper use and care of earplugs and earmuffs will be provided whenever HPDs (hearing protective devices) are dispensed. Personnel requiring earmuffs in addition to earplugs will be informed of this requirement and educated on the importance of using proper hearing protection. The Project Manager will dispense ear muffs when necessary and will maintain a supply of disposable earplugs.

Use of Hearing Protective Devices

a. Always use and maintain HPDs as originally intended and in accordance with instructions provided.
b. Earmuff performance may be degraded by anything that compromises the cushion-to-circumaural flesh seal. This includes other pieces of personal protective equipment such as eyewear, masks, faceshields, and helmets.

Maintenance of Hearing Protective Devices

a. Reusable earplugs, such as the triple flange or formable devices should be washed in lukewarm water using hand soap, rinsed in clean water, and dried thoroughly before use. Wet or damp earplugs should not be placed in their containers. Cleaning should be done as needed.
b. Earmuff cushions should be kept clean. The plastic or foam cushions may be
c. cleaned in the same way as earplugs, but the inside of the muff should not get wet. When not n use, ear muffs should be placed in open air to allow moisture that may have been absorbed into the cups to evaporate.

Hearing Protection Performance Information

The maximum of sound attenuation one gets when wearing hearing protection devices is limited by human body and bone conduction mechanisms. Even though a particular device may provide outstanding values of noise attenuation the actual noise reductions may be less because of the noise surrounding the head and body bypasses the hearing protector and is transmitted through tissue and bone pathways to the inner ear.

The term “double hearing protection” is misleading. The attenuation provided from any combination earplug and earmuff is not equal to the sum of their individual attenuation values.

PERSONAL PROTECTIVE EQUIPMENT

HAZARD ASSESSMENT FORM

Date of Hazard Assessment: _____

Person Performing Hazard Assessment: _____

Location Job	Task/Position	Hazards	PPE Required
(EXAMPLE)			
(Molding Dept).	*(Press Operator)*	*(Flying particles)*	*(Safety Glasses)*

PERSONAL PROTECTIVE EQUIPMENT

CERTIFICATION OF HAZARD ASSESSMENT

I certify that a hazard assessment of the workplace was performed at our facility located at _____. This assessment consisted of a review of prior injury and illness records and a walk-through inspection of all work areas. The purpose of this assessment was to identify sources of hazards to employees that are present, or are likely to be present, in the workplace which necessitate the use of personal protective equipment (PPE).

Workplace Evaluated:
(Insert address of the facility and a listing of all departments or areas of the facility that were inspected.)

Person Certifying Hazard Assessment:

Name: _____ Title: _____

Date(s) of Hazard Assessment: _____

Attachments: Hazard Assessment Forms

Respiratory Protection Program

Policy:

All employees will be protected from exposure to airborne radioactive, chemical, or biological contamination by installing, implementing, or instituting feasible engineering or administrative controls. If these controls do not prove feasible, or while they are being installed/instituted, appropriate respiratory protection will be provided. For some experiments, respiratory protection may be provided as an additional safeguard against exposure.

It is the Company's policy to provide employees with a safe and healthful working environment. This is accomplished by utilizing facilities and equipment that have all feasible safeguards incorporated into their design. When effective engineering controls are not feasible, or when they are being initiated, protection shall be used to ensure personnel protection.

This program does not apply to contractors as they are responsible for providing their own respiratory protection programs and respiratory protective equipment.

Definitions:

a. Respirator – A device provided to protect the wearer from inhalation of harmful or nuisance atmospheres. Respirators may function by air purifying and/or air supplying techniques.

b. Air Purifying Respirator – A respirator that filters and/or absorbs contaminants from the ambient air being inhaled by the wearer.

c. Supplied Air Respirator – A respirator in which clean air is supplied to the facepiece from an auxiliary source away from the wearer.

d. Self-Contained Breathing Apparatus – A respirator in which the air supply is carried by the wearer.

e. Atmospheric Contamination – The term applies equally to gases such as nitrogen, carbon monoxide, and carbon dioxide; the vapors of volatile substances such as benzene and carbon tetrachloride; toxic dusts and fumes; radioactive materials; and so forth.

f. Respirator Fit Test – A test used to determine a proper match or fit between the facepiece of the respirator and face of the wearer.

Responsibilities:

a. Supervisor

Supervisors will ensure each employee under his or her supervision using a respirator has received appropriate training in its use and an annual medical evaluation. Supervisors will ensure the availability of appropriate respirators and accessories, provide adequate storage facilities, and encourage proper respirator equipment maintenance. Supervisors must be aware of tasks requiring the use of respiratory protection, and ensure all employees engaged in such work use the appropriate respirators at all times. The Supervisors are responsible for the following:

1. Ensures that all employees who wear respiratory protective devices are thoroughly trained in their use.

2. Provides employees with the respiratory protection appropriate for the operation, and ensures the use of such devices.

3. Identifies potentially hazardous conditions and immediately notifies the Safety and Health Manager for corrective action.

The Project Manager shall contact the Divisional Manager prior to non-routine work which may expose workers to hazardous substances or oxygen deficient atmospheres. Examples of work which may require the use of respirators includes, but are not limited to:

- Asbestos abatement activities
- Abrasive blasting
- Cutting or melting lead or stripping lead-based paints from surfaces
- Welding or burning
- Painting, especially with epoxy or organic solvent coatings
- Using solvents, thinners, or degreasers
- Any work which generates large amounts of dust
- Working in a confined space
- Using formaldehyde to decontaminate a space
- Bioaerosols

b. Employee

1. Uses respiratory protective equipment as instructed and required under hazardous agent protocols.

2. Stores respirator properly to prevent damage and inspects prior to each use.

3. Reports any malfunction of respiratory protective equipment to the immediate supervisor.

Responsibilities: (continued)

c. Others

Personnel, such as employees, inspectors, and visitors, who must enter an area where the use of respiratory protective equipment is required, even when their stay time in the area may be 15 minutes or less, shall be provided with and use appropriate equipment, including instructions regarding use and limitations. Personnel shall be fit tested and medically qualified to wear the respirator being issued prior to entry to the site.

Contractors are required to develop and implement a respiratory protection program for their employees who must enter into or work in areas where exposure to hazardous materials can not be controlled or avoided. This program must meet OSHA regulations and include issuance of respirators, medical evaluations, fit testing and training.

d. Divisonal Manager

1. Develops and implements all aspects of the respiratory protection program.

2. Develops training programs and standard operating procedures to fulfill the requirements of existing OSHA regulations and amendments.

3.Purchases, selects, inspects, maintains, cleans, stores, and fit tests respiratory protective equipment.

4. Periodically inspects and replaces all respiratory protective devices stored for emergency use.

Procedures:

a. Selection – Respirators shall be selected on the basis of the potential hazards to which the worker is exposed. The following factors shall be ascertained by the Health and Safety Branch to ensure that the device selected for the employee will provide satisfactory protection when used properly:

1. Chemical, physical, and toxicological properties of the contaminant(s).

2. Review of actual and potential hazards to assess extent of injurious effects produced under all conditions of potential exposure.

3. Evaluation of the duties to be performed by the wearer as they relate to restriction of movement and duration of potential exposure.

4. An understanding of the principles, design, scope of use, limitations, advantages, and disadvantages of the available respirators. Respiratory equipment selected will be approved by the Company or will otherwise be in accordance with existing OSHA regulations.

Procedures: (continued)

b. Medical Evaluations – It is the responsibility of the Health and Safety Branch to review the health status of all employees who may be required to wear respiratory equipment. In the event of prolonged respirator use, the wearer should have a medical examination to determine if he/she is medically able to wear respiratory protective equipment without aggravating a pre-existing medical condition

Medical considerations include, but are not limited to the following:

- History of asthma or emphysema
- Difficulty in breathing
- Previously documented lung problems
- High blood pressure
- Artery diseases
- Documented heart problems
- Missing or arthritic fingers
- Facial scars
- Claustrophobia
- Poor eyesight

c. Fitting – Each individual required to use a respirator of any type will be fitted by the Safety and Health Manager prior to using any such device. The fit test will include a demonstration of proper donning, wearing, and field fit testing techniques, an extensive leak test using a solution of isoamyl acetate as the test vapor and a quantitative fit test using a respirator fit tester. Any individual with a beard or other facial hair that may prevent a proper facepiece-to-face seal will not be fit tested until the hair has been removed. A separate Respirator Fitting and Training Record shall be maintained for each participating individual.

Respirator Fit testing

A fit test shall be used to determine the ability of each individual respirator wearer to obtain a satisfactory fit with any air-purifying respirator. Both quantitative and qualitative fit tests will be performed. Personnel must successfully pass the fit test before being issued an air-purifying respirator.

No Company employee is permitted to wear a negative-pressure respirator in a work situation until he or she has demonstrated that an acceptable fit can be obtained. Respirator fitting is conducted initially upon assignment to a task requiring use of a respirator. Refitting is conducted annually thereafter upon successful completion of the respirator training.

Respirator Fit testing (continued)

Fit testing will be conducted by the Project Manager and the test results will be the determining factor in selecting the type, model, and size of negative-pressure respirator for use by each individual respirator wearer.

Fit Checking-

Each time a respirator is donned, the user will perform positive and negative pressure fit checks. These checks are not a substitute for fit testing. Respirator users must be properly trained in the performance of these checks and understand their limitations.

A. Negative Pressure Check

Applicability/Limitations:This test cannot be carried out on all respirators; however, it can be used on facepieces of air purifying respirators equipped with tight-fitting respirator inlet covers and on atmosphere supplying respirators equipped with breathing tubes which can be squeezed or blocked at the inlet to prevent the passage of air.

Procedure: Close off the inlet opening of the respirator's canister(s), cartridge(s), or filter(s) with the palm of the hand, or squeeze the breathing air tube or block its inlet so that it will not allow the passage of air. Inhale gently and hold for at least 10 seconds. If the facepiece collapses slightly and no inward leakage of air into the facepiece is detected, it can be reasonably assumed that the respirator has been properly positioned and the exhalation valve and facepiece are not leaking.

B. Positive Pressure Check

Applicability/Limitations:This test cannot be carried out on all respirators; however, respirators equipped with exhalation valves can be tested.

Procedure: Close off the exhalation valve or the breathing tube with the palm of the hand. Exhale gently. If the respirator has been properly positioned, a slight positive pressure will build up inside the facepiece without detection of any outward air leak between the sealing surface of the facepiece and the face.

Qualitative Fit Testing

Federal regulations (29 CFR 1910.1001) require qualitative fit tests of respirators and describe step-by-step procedures. This test checks the subject's response to a chemical introduced outside the respirator facepiece. This response is either voluntary or involuntary depending on the chemical used. Several methods may be used. The two most common are the irritant smoke test, and the odorous vapor test.

a. Irritant Smoke

The irritant smoke test is an involuntary response test. Air purifying respirators must be equipped with a high efficiency particulate air (HEPA) filter for this test. An irritant smoke, usually either stannic chloride or titanium tetrachloride, is directed from a smoke tube toward the respirator. If the test subject does not respond to the irritant smoke, a satisfactory fit is assumed to be achieved. Any response to the smoke indicates an unsatisfactory fit.

The irritant smoke is an irritant to the eyes, skin, and mucous membranes. It should not be introduced directly onto the skin. The test subject must keep his or her eyes closed during the testing if a full facepiece mask is not used.

b. Odorous Vapor

The odorous vapor test is a voluntary response test. It relies on the subject's ability to detect an odorous chemical while wearing the respirator. Air purifying respirators must be equipped with an organic cartridge or canister for this test. Isoamyl acetate (banana oil) is the usual test. An isoamyl acetate-saturated gauze pad is placed near the facepiece-to-face seal of the respirator of the test subject's skin. If the test subject is unable to smell the chemical, than a satisfactory fit is assumed to be achieved. If the subject smells the chemical, the fit is unsatisfactory.

If the subject cannot smell the chemical, the respirator will be momentarily pulled away from the subject's face. If the subject is then able to smell the chemical, a satisfactory fit is assumed. If the subject cannot smell the chemical with the respirator pulled away from the face, this test is inappropriate for this subject, and a different test will be used.

This test is limited by the wide variation of odor thresholds among individuals and the possibility of olfactory fatigue. Since it is a voluntary response test it depends upon an honest response.

Quantitative Fit Testing

Quantitative fit testing, using the Portacount Plus fit test system, is generally performed on both full-face and half-face negative pressure respirators. Fit factors are determined by comparing the particle concentration outside the respirator with the concentration inside the respirator facepiece. An acceptable fit is achieved when the respirator wearer successfully completes a series of six programmed exercises (normal breathing, deep breathing, moving head up and down, moving head side to side, reading, and normal breathing) with a fit factor of 100 or more.

Special Problems

A. Facial Hair

No attempt is made to fit a respirator on an employee who has facial hair which comes between the sealing periphery of the facepiece and the face, or if facial hair interferes with normal functioning of the exhalation valve of the respirator.

B. Glasses and Eye/Face Protective Devices

Proper fitting of a respiratory protective device facepiece for individuals wearing corrective eyeglasses or goggles, may not be established if temple bars or straps extend through the sealing edge of the facepiece. If eyeglasses, goggles, face shield or welding helmet must be worn with a respirator, they must be worn so as not to adversely affect the seal of the facepiece. If a full-facepiece respirator is used, special prescription glasses inserts are available if needed.

d. Training – Appropriate training and instructions in the proper use of each type of respirator shall be provided by the Project Manager. Respirator users and their supervisors will receive training on the contents of this Respiratory Protection Program and their responsibilities under it. They will be trained on the proper selection and use, as well as the limitations of the respirator. Training also covers how to ensure a proper fit before use and how to determine when a respirator is no longer providing the protection intended.

The Project Manager provides training of respirator wearers in the use, maintenance, capabilities, and limitations of respirators is initially upon assignment of personnel to tasks requiring the use of respirators. Retraining is given annually thereafter and only upon successful completion of the medical evaluation.

The training program will include the following:

Respirator training will be properly documented (Appendix A) and will include the type and model of respirator for which the individual has been trained and fit-tested.

This training will include, but not be limited to:

1.Nature and degree of respiratory hazard

2.Respirator selection, based on the hazard and respirator capabilities and limitations

3.Donning procedures and fit tests including hand's-on practice to ensure an effective face piece to face seal

4. Actual handling of the respirator and wearing it for a period in a test atmosphere.

5. A discussion of respirators construction, operating principles and limitations.

6.Care of the respirator, e.g., need for cleaning, maintenance, storage, and/or replacement

7. Instruction on the nature of the hazard, including information on its physical properties, possible concentrations, modes of physiological action and means of detection.

8. Use and limitations of respirator

9. Discussions of maintenance and inspection procedures.

e. Inspection – For sanitary and health reasons, respirators will be disposable. Disposable respirators will be discarded properly after use by the individual. Inspection frequency for all unused devices shall be monthly. Units receiving routine use shall be inspected by the employee before and after each use. The inspection shall include the following checks when applicable.

1.Tightness of connections
2. Condition of facepiece, headbands, exhalation and inhalation valves, connecting tube, and canister
3. Pressure in cylinders (do not use if less than 1500 psi)
4. Deterioration of all rubber parts

The inspection shall include the following checks when applicable. (continued)

5. Regulator mechanism
6. Lens of facepieces
7. Warning alarm (self-contained units)
8. Seal on cartridge package

f. Location and Storage of Respirators – Location and storage of all respiratory devices shall be controlled by the Project Manager. When the need for respiratory equipment is anticipated, approval by the Project Manager should be obtained in advance.

After inspection, cleaning, and any necessary minor repairs, store respirators to protect against sunlight, heat, extreme cold, excessive moisture, damaging chemicals or other contaminants. Respirators placed at stations and work areas for emergency use shall be stored in compartments built for that purpose, shall be quickly accessible at all times and will be clearly marked. Routinely used respirators, such as half-mask or full-face air-purifying respirators, shall be placed in sealable plastic bags. Respirators may be stored in such places as lockers or tool boxes only if they are first placed in carrying cases or cartons. Respirators shall be packed or stored so that the facepiece and exhalation valves will rest in a normal position and not be crushed. Emergency use respirators shall be stored in a sturdy compartment that is quickly accessible and clearly marked.

g. Special Requirements for Confined Spaces – In areas immediately hazardous to life or health, self-contained breathing apparatus, air line respirators or hose masks with blowers shall be used. For emergency rescue, a standby person with suitable self-contained breathing apparatus shall be at the nearest fresh air base. Communications (visual, voice or signal line) shall be maintained between all individuals present.

Persons using air line respirators and hose masks with blowers shall be equipped with safety harnesses and safety lines for lifting or removing them from hazardous atmospheres, or other equivalent provisions for rescue from hazardous atmospheres shall be used. More details concerning respiratory protection for confined space entry can be found in the Company’s Confined Space Program.

Types of Respirators-

A. Air-Purifying Respirator

These respirators remove air contaminants by filtering, absorbing, adsorbing, or chemical reaction with the contaminants as they pass through the respirator canister or cartridge. This respirator is to be used only where adequate oxygen (19.5 to 23.5 percent by volume) is available. Air-purifying respirators can be classified as follows:

1. Particulate removing respirators, which filter out dusts, fibers, fumes and mists. These respirators may be single-use disposable respirators or respirators with replaceable filters.

NOTE: Surgical masks do not provide protection against air contaminants. They are never to be used in place of an air-purifying respirator. They are for medical use only.

2. Gas- and vapor-removing respirators, which remove specific individual contaminants or a combination of contaminants by absorption, adsorption or by chemical reaction. Gas masks and chemical-cartridge respirators are examples of gas- and vapor-removing respirators.

3. Combination particulate/gas- and vapor-removing respirators, which combine the respirator characteristics of both kinds of air-purifyingrespirators.

B. Supplied-Air Respirators

These respirators provide breathing air independent of the environment. Such respirators are to be used when the contaminant has insufficient odor, taste or irritating warning properties, or when the contaminant is of such high concentration or toxicity that an air-purifying respirator is inadequate. Supplied- air respirators, also called air-line respirators, are classified as follows:

1. Demand

This respirator supplies air to the user on demand (inhalation) which creates a negative pressure within the facepiece. Leakage into the facepiece may occur if there is a poor seal between the respirator and the user’s face.

2. Pressure-Demand

This respirator maintains a continuous positive pressure within the facepiece, thus preventing leakage into the facepiece.

3. Continuous Flow

This respirator maintains a continuous flow of air through the facepiece and prevents leakage into the facepiece.

C. Self-Contained Breathing Apparatus (SCBA)

This type of respirator allows the user complete independence from a fixed source of air and offers the greatest degree of protection but is also the most complex. Training and practice in its use and maintenance is essential. This type of device will be used in emergency situations only.

Identification of Respirator Cartridges and Gas Mask Canisters

Respirator cartridges and canisters are designed to protect against individual or a combination of potentially hazardous atmospheric contaminants, and are specifically labeled and color coded to indicate the type and nature of protection they provide.

An approved label on the respirator will also specify the maximum concentration of contaminant(s) for which the cartridge or canister is approved. For example, a label may read:

"DO NOT WEAR IN ATMOSPHERES IMMEDIATELY DANGEROUS TO LIFE. MUST BE USED IN AREAS CONTAINING 20.9 PERCENT OXYGEN. DO NOT WEAR IN ATMOSPHERES CONTAINING MORE THAN ONE-TENTH PERCENT ORGANIC VAPORS BY VOLUME. REFER TO COMPLETE LABEL ON RESPIRATOR OR CARTRIDGE CONTAINER FOR ASSEMBLY, MAINTENANCE, AND USE."

Warning Signs of Respirator Failure

A. Particulate Air-Purifying

When breathing difficulty is encountered with a filter respirator (due to partial clogging with increased resistance), the filter(s) must be replaced. Disposable filter respirators must be discarded.

B. Gas or Vapor Air-Purifying

If, when using a gas or vapor respirator (chemical cartridge or canister), any of the warning properties (e.g., odor, taste, eye irritation, or respiratory irritation) occur, promptly leave the area and check the following:

- Proper face seal
- Damaged or missing respirator parts
- Saturated or inappropriate cartridge or canister

If no discrepancies are observed, replace the cartridge or canister. If any of the warning properties appear again, the concentration of the contaminants may have exceeded the cartridge or canister design specification. When this occurs an airline respirator or SCBA is required.

C. Service Life of Air-Purifying Respirator Canisters and Cartridges

The canisters or cartridges of air-purifying respirators are intended to be used until filter resistance precludes further use, or the chemical sorbent is expended as signified by a specific warning property, e.g., odor, taste, etc. New canisters, cartridges or filters shall always be provided when a respirator is reissued. When in doubt about the previous use of the respirator, obtain a replacement canister or cartridge.

D. Supplied Air Respirator

When using an airlines respirator, leave the area immediately when the compressor failure alarm is activated or if an air pressure drop is sensed. When using an SCBA leave the area as soon as the air pressure alarm is activated.

Maintenance and Issuance of Respirators:

Maintenance

The maintenance of respiratory protective devices involves a thorough visual inspection for cleanliness and defects (i.e., cracking rubber, deterioration of straps, defective exhalation and inhalation valves, broken or cracked lenses, etc.). Worn or deteriorated parts will be replaced prior to reissue. No respirator with a known defect is reissued for use. No attempt is made to replace components, make adjustments or make repairs on any respirator beyond those recommended by the manufacturer. Under no circumstances will parts be substituted as such substitutions will invalidate the approval of the respirator. Any repair to reducing or admission valves, regulators, or alarms will be conducted by either the manufacturer or a qualified trained technician.

Cleaning of Respirators

All respirators in routine use shall be cleaned and sanitized on a periodic basis. Respirators used non-routinely shall be cleaned and sanitized after each use and filters and cartridges replaced. Routinely used respirators are maintained individually by the respirator wearer. Replacement cartridges and filters are obtained by contacting the Safety and Health Manager.

Cleaning and disinfection of respirators must be done frequently to ensure that skin-penetrating and dermatitis-causing contaminants are removed from the respirator surface. Respirators maintained for emergency use or those used by more than one person must be cleaned after each use by the user.

The following procedure is recommended for cleaning and disinfecting respirators:

1. Remove and discard all used filters, cartridges, or canisters.
2. Wash facepiece and breathing tube in a cleaner-disinfectant solution. A hand brush may be used to remove dirt. Solvents which can affect rubber and other parts shall not be used.
3. Rinse completely in clean, warm water.
4. Air dry in a clean area in such a way as to prevent distortion.
5. Clean other respirator parts as recommended by the manufacturer.
6. Inspect valves, headstraps, and other parts to ensure proper working condition.
7. Reassemble respirator and replace any defective parts.
8. Place in a clean, dry plastic bag or other suitable container for storage after each cleaning and disinfection.

Issuance of Respirators

Respiratory protective equipment shall not be ordered, purchased, or issued to personnel unless the respirator wearer has received respirator training and a fit test. New employees who require respiratory protective equipment, must be placed into the respirator program before being issued equipment.

APPENDIX A

RESPIRATOR TRAINING CERTIFICATION

I hereby certify that I have been trained in the proper use and limitations of the respirator issued to me. The training included the following:

1. Instruction on putting on, fitting, testing and wearing the respirator.

2. Instruction on inspection, cleaning, and maintaining the respirator.

3. Explanation of dangers related to misuse.

4. Instructions on emergency situations.

I further certify that I understand the use, care, and inspection of the respirator and have tested and worn the unit.

Date: _____

Signed:_____ SSN: _____

Respirator Type Issued: _____

Training Coordinator: _____

APPENDIX B – FIT TEST WORKSHEETS

QUALITATIVE RESPIRATOR FIT TEST

Name: _____ SSN: _____

Clean Shaven? __Yes __No

Spectacle Kit? ___Yes ___No

Manufacturer/Model _____ Size: ___S ___M ___L

Irritant Smoke ___Pass ___Fail

Isoamyl Acetate ___Pass ___Fail

Manufacturer/Model_____ Size: ___S___M___L

Irritant Smoke ___Pass ___Fail

Isoamyl Acetate ___Pass ___Fail

Examiner _____

Date_____

Employee _____

Date _____

APPENDIX B – FIT TEST WORKSHEETS

QUANTITATIVE RESPIRATOR FIT TEST REPORT

LAST NAME _____

FIRST NAME_____

ID NUMBER_____

NEXT TEST DUE_____

OPERATOR NAME_____

RESPIRATOR MODEL_____

•SIZE_____ •MANUFACTURER_____

•APPROVAL NUMBER_____

NOTES_____

TEST DATE_____

TEST TIME_____

TEST DATA

Fit Factor Pass Level: 100

Ex. Ambient
(Part/cc) Mask
(Part/cc) Fit FactorPass/FailNB
DB
SS
UD
R
NB
OVERALL FIT FACTOR = _____

Operator _____ Date _____

Subject_____ Date _____

Roof Labor Safety

Fall Protection Procedures shall be observed when working at heights greater than 6 feet. Refer to the Fall Protection Chapter for guidance.

Roof construction, repair, and other maintenance operations often require manual labor at dangerous heights and on steeply pitched working surfaces. The possibility of lost footing, decreased stability, and objects falling from such heights is great; appropriate employee safeguards shall be present. When employees of the Company are involved in such operations, the following minimum safety guidelines shall be followed to promote a safe and healthful workplace and guard against injury to others below the work area.

Training:

Each department head whose employees are required to perform duties on roofs shall insure that they receive safety training and comply with the minimum standards as specified in this document.

Catch Platforms:

A substantial catch platform shall be installed below the working area of roofs more than 20 feet from ground to eaves without a parapet, or 16 feet from ground to eaves with a slope greater than 4 inches in 12 without a parapet. The platform shall extend 2 feet in width beyond the projection of the eaves and shall be provided with a safety rail, mid-rail, and toeboard. This provision shall not apply where employees engaged in work upon such roofs are protected by a safety belt attached to a lifeline.

Safety Body Harnesses, Lifelines, and Lanyards:

Safety belts are not approved nor will they be worn when working at heights greater than 6 feet.

Where catch platforms are not in place, employees performing duties on a roof more than 20 feet from ground to eaves without a parapet, or 16 feet from ground to eaves with a slope greater than 4 inches in 12 inches without a parapet, shall be secured by an approved safety body harness attached to a lifeline.

The safety body harness lanyard shall be a minimum of 1/2- inch nylon, or equivalent, with a maximum length to provide for a fall of no greater than 2 feet. The rope shall have a nominal breaking strength of 5,400 pounds.

Lifelines shall be secured above the point of operation to an anchorage or structural member capable of supporting a minimum dead weight of 5,400 pounds. One employee acting as anchor for another does not fulfill this requirement.

Lifelines used in areas where they may be subjected to cutting or abrasion, shall be a minimum of 7/8-inch wire core manila rope. For all other lifeline applications, a minimum

of 3/4- inch manila or equivalent, with a minimum breaking strength of 5,400 pounds, shall be used.
Lifelines, safety body harnesses, and lanyards shall be used only for employee safeguarding. Ropes used for hoisting lines and other purposes shall not be used as lifelines. Any lifeline, safety belt, or lanyard actually subjected to in-service loading, as distinguished from static testing, shall be immediately removed from employee safeguarding.

Safety Nets:

Where the use of ladders, scaffolds, catch platforms, temporary floors, safety lines, or safety body harnesses is impractical, safety nets shall be provided when workplaces are more than 20 feet above the ground, water, or other surface.

Roofing Brackets:

Roofing brackets shall be constructed to fit the pitch of the roof. In addition to the pointed metal projections, brackets shall be secured by nailing in place. The nails shall be driven full length into the roof. When rope supports are used, they shall consist of first-grade manila of at least 3/4-inch diameter, or equivalent.

Crawling Boards or Chicken Ladders:

Crawling boards shall not be less than 10 inches wide and one inch thick, having cleats 1 x 1-1/2 inches. The cleats shall be equal in length to the width of the board and spaced at equal intervals not to exceed 24 inches. Nails shall be driven through and clinched on the underside. The crawling board shall extend from the ridge pole to the eaves when used in connection with roof construction, repair, or maintenance.

A firmly fastened lifeline of at least 3/4-inch rope shall be strung beside each crawling board for a handhold.

Crawling boards shall be secured to the roof by means of adequate ridge hoods or equivalent effective means.

Use of Hoisting Lines:

When hoisting lines are used to raise tools or materials to a roof greater than 16 feet from ground to eaves without a parapet (or with a parapet less than 30 inches in height), the employee on the roof shall be secured by an approved safety body harness attached to a lifeline.

The safety body harness lanyard shall be a minimum of 1/2- inch nylon, or equivalent, with a maximum length to provide for a fall of no greater than 2 feet. The rope shall have a nominal breaking strength of 5,400 pounds.

Work Site Isolation:

Prior to the start of roof construction, repair, or maintenance, the crew chief, foreman, or person in charge of the project shall insure that the area below the work site is isolated against entry by the use of barrier tape or other means.
If means of egress are to be blocked by ladders, scaffolds, or other equipment, or to isolate below a work site, prior approval must be obtained from an Environmental Health Services Department representative.

Personal Protective Equipment:

Employees involved in roof construction, repair, or maintenance operations shall use appropriate personal protective equipment including, but not limited to, hard hats, eye protection, and leather gloves.

If Conventional Fall Protection Systems are not used, OSHA Requires the Following:

- All workers who are allowed on the roof must be proficient in the alternate methods of fall protection. Affected employees must also be trained in the specific hazards associated with work on roofs which have rake edges.
- Roof surfaces must be inspected for slipping hazards--either eliminating them or taking measures to ensure that employees avoid them.
- Workers must wear appropriate foot wear to reduce slipping potential.
- Operations must be suspended when weather conditions such as high wind, rain, snow or sleet create a hazardous condition, and must remain suspended until the condition has passed.
- Damaged portions of the roof deck must be repaired as soon as practicable. Any holes (including skylight openings) must be protected either by covers or by installing guardrails.
- Employees must be protected with a safety monitoring system or by roofing slide guards.
- Workers must not ascend or descend the roof slope within 6 feet of the rake edge, except where such a limit on movement would prevent the performance of work.
- Supplies and materials must not be stored within 6 feet of the rake edge, or three feet where tile and metal roof systems are being installed.
- The area below eaves and rakes must be kept clear of materials and other objects which could pose impalement hazards, or they must be guarded properly.

The Company shall, when using roofing slide guards as fall protection, take additional precautions:

- On slopes of 6-in-12 or less, three rows of roofing material must be placed prior to installing slide guards. Guards must be capable of holding a worker's weight should that person slip.
- On roofs with slopes greater than 6-in-12, up to and including 8-in-12, eaves slide guards must be installed for the entire length of the eaves. Additional guards must be installed below the work area at intervals not to exceed 8 feet. While standing on the plank below, the employee must secure roof jacks with nails and add planks, then climb up to the plank and continue to install the roof. Once the roof is installed, the employee will climb down to a lower plank and remove above planking and roof jacks until all jacks and planking have been removed.
- **When a conventional method of fall protection must be provided:**
- On roofs of 8-in-12 or greater, and on roofs with slopes greater than 4-in-12 where the fall potential measured from eaves is greater than 25 feet.
- Conventional methods include safety nets, guardrails or a personal fall arrest system.

REFERENCES

29 CFR 1910.28 (T)	Crawling boards or chicken ladders
29 CFR 1926.451 (U)	Roofing brackets
29 CFR 1926.104	Safety belts, lifelines, and lanyards
29 CFR 1926.105	Safety nets
29 CFR 1910.28 (S)	Roofing brackets
29 CFR 1926.451 (U) (3)	Catch platforms

Scaffold Safety Program

Policy:

It is the policy of the Company to take all practical measures possible to prevent employees from being injured by falls from scaffolds. The Company will take all necessary steps to eliminate, prevent, and control fall hazards. The Company will comply fully with the OSHA Fall Protection standard (CFR 1926, Subpart M, Fall Protection).

Workers may die or be injured if scaffold equipment and fall protection systems are defective or misused.

A "Scaffold" means one or more working platforms suspended by ropes or other means from an overhead structure. Recent investigations by OSHA suggest that fatal falls occur as a result of defective scaffold equipment, improper installation or operation, improper training of workers, or a failure to use appropriate personal fall protection equipment.

Safety regulations of the Occupational Safety and Health Administration (OSHA) establish specific requirements for suspension scaffolds and their operation, including the use of fall protection systems. Our Company will ensure that all supervisors, and worker(s) involved in work from suspension scaffolds will comply with these regulations.

Background:

Falls are a leading cause of traumatic occupational death. The U.S. Department of Labor indicates that falls accounted for 8% of all occupational fatalities from trauma. Personal fall protection equipment was used in several of these incidents, but it was used improperly in each case. In several incidents, workers fell out of their improperly fastened safety belt or in the other incidents, excessively long lanyards broke or separated after victims fell 30 feet.

Responsibilities:

Supervisors of all employees that are required to work from scaffolds will ensure the following procedures are taken:

1. Comply with the current and proposed OSHA regulations for working with scaffolds.

2. Assure that design and construction of scaffolds conform with OSHA requirements.

3. Shield scaffold suspension ropes and body belt or harness system droplines (lifelines) from hot or corrosive processes, and protect them from sharp edges or abrasion.

<u>Responsibilities</u>: (continued)

4. Inspect all scaffolds, scaffold components, and personal fall protection equipment before each use.

5. Provide personal fall protection equipment and make sure that it is used by all workers on suspension scaffolds.

6. Use structurally sound portions of buildings or other structures to anchor droplines for body belt or harness systems and tiebacks for suspension scaffold support devices. Droplines and tiebacks should be secured to separate anchor points on structural members.

7. Provide proper training for all workers who use any type of suspension scaffold or fall protection equipment.

8. Follow scaffold manufacturers' guidance regarding the assembly, rigging, and use of scaffolds.

Employees shall;

1. Inspect all scaffolds, scaffold components, and personal fall protection equipment before each use. Defective components must be removed from service and replaced.
2. Shield scaffold suspension ropes and body belt or harness system droplines (lifelines) from hot or corrosive processes, and protect them from sharp edges or abrasion.
3. Wear a body belt or body harness which may include a deceleration device, lifeline, or suitable combinations. The body belt or body harness shall be rigged so that an employee can neither free fall more than 6 feet nor contact any lower level and bring an employee to a complete stop and limit the maximum deceleration distance an employee travels to 3.5 feet

The use of body belts for fall arrest is prohibited

General Scaffold Requirements:

Supervisors and employees will insure that the following operating procedures are observed:

Scaffolds must be substantially constructed to carry the loads imposed upon them and to provide a safe work platform. All scaffolds more than 10' high must have approved guardrails on all ends exposed ends and sides.

Guardrails, mid-rails, and toe boards must be installed on all open sides of scaffolds 10' high or more in height.

Only approved scaffolds will be used. Barrels, boxes, rebar. Or other make-shift substitutes for scaffolds will not be used.
Scaffold planks must be cleated together, and must extend over the end supports at least 6 inches, but not more than 12 inches.

All scaffold planks must be visually inspected before each use. Damaged scaffold planks must be destroyed immediately.

All scaffold planks must be at least two planks wide: No employee may work from a single plank.

Adequate mud sills or other rigid footing, capable of withstanding the maximum intended load, must be provided.

Scaffolds must be tied to the building or structure at intervals which do not exceed 30 feet horizontally and 26 feet vertically.

Do not overload scaffolds. Materials should be brought up as needed. Scaffolds must not be loaded in excess of one-fourth of their rated capability.

Where persons are required to work or pass under scaffolds, a screen of 18 guage, ½ inch wire mesh is required between the toe and guard rail.

Overhead protection is required if employees working on scaffolds are exposed to overhead hazards. Such protection must be a 2" thick plank or equivalent.

Diagonal bracing must be used on all support components.

Midrails 1" X 6" or equivalent must be present on all sides.

Ladders will be used as a means of entry onto and exit off of the scaffold.

Rolling Scaffolds- General Requirements:

The height of the rolling scaffold must not exceed four times the minimum base dimension.

The work platform must be planked tight for the full width of the scaffold. Cleat the underside of the planks to prevent their movement.

Caster breaks must be locked when the scaffold is not in motion.

Get help when moving rolling scaffolds. Make certain that the route is clear. Watch for holes and overhead obstructions.

No one shall be permitted to ride on rolling scaffolds.

Two Point Suspended Scaffolds (Swinging Stages) General Requirements:

Each employee working from a two point suspended scaffold must be tied off to an independent safety line.

Suspended scaffolds must be not less than 20 inches nor more than 36 inches wide.

Wire ropes used to suspend such scaffolds must be able to withstand a load that is six times the load it is intended to support.

Non–conductive insulating material must be placed over suspension cables of each scaffold for protection when the chance of contact with an electric arc exists.

Design and Construction of Scaffolds:

The design and construction of scaffolds must conform with OSHA requirements concerning type of equipment, rated capacities, construction methods, and use. Each scaffold and scaffold component must be capable of supporting its own weight plus at least four times the maximum intended load without failure. Each suspension rope must be capable of supporting at least six times the maximum intended load.

Shielding of Ropes

Suspension ropes and droplines for body belt or harness systems should be shielded from:

- heat-producing processes such as welding,
- acids or other corrosive substances, and
- sharp edges or abrasions.

Such ropes should be made from material that is not adversely affected by heat or by acids or other corrosives.

Inspection

Supervisors and Employees will inspect all scaffolds and scaffold components for visible defects before use on each work shift. Scaffolds will be erected, moved, dismantled, or altered only under the supervision of a competent person.

All components of personal fall protection equipment (including body belts or harnesses, lanyards, droplines, trolley lines, and points of anchorage) should be inspected by Supervisors and Employees before use. Any visibly damaged or worn equipment should be removed from service immediately.

Use of Fall Protection Equipment

The Company will provide appropriate fall protection systems and ensure their use by all workers on suspension scaffolds. Generally, these workers will be protected by a Type I guardrail system [see note 2 below] or a combination of body belt or harness system with a Type II guardrail system [see note 3 below].

However, when single-point and two-point adjustable suspension scaffolds are used, workers must be protected by both a body belt or harness system and a Type I or Type II guardrail system. Also, when boatswain chairs, catenary scaffolds, and float scaffolds are used, workers must be protected only by a harness system.

Use of Structural Members as Anchor Points:

Structurally sound portions of buildings or other structures must be used to anchor droplines for body belt or harness systems and tiebacks for suspension scaffold support devices. Droplines and tiebacks should be secured to separate anchor points of structural members. Owners, architects, and engineers planning renovation or designing new facilities should incorporate strategically located anchor points on structural members of buildings for future exterior maintenance and repair work.

Proper Training of Workers

The Company will provide workers with proper training, including the manufacturers' recommendations for installing and operating suspended scaffold systems and for using personal fall protection equipment. Untrained personnel should never be permitted to work from any type of suspension scaffold.

NOTES

1. Fall protection systems consist of harness systems (personal fall arrest systems) used independently or in combination with guardrail systems.

2. Type I guardrail systems are those capable of providing adequate fall protection without the use of body belts.

3. Type II guardrail systems are those that delineate the scaffold edge, restrain movement, provide handholds, and prevent mis-stepping. Type II systems must be supplemented by body belt or harness systems to provide adequate fall protection

Tool Box Talks/Work Group Safety Meetings Policy

Purpose:

The purpose of Tool Box Talks/Work Group Safety Meetings is to provide a method for the dissemination of information to all employees regarding safety and health issues.

Regular Tool Box Talks/Work Group Safety Meetings demonstrate the Company's concern for the lives and well being of its employees. Tool Box Talks/Work Group Safety Meetings help build a cooperative climate by providing employees with the opportunity to contribute ideas, and to make suggestions that may improve quality, productivity, morale, and safety.

Safety education is required of all employees *at all levels* within the organization. The Company will have a formalized safety training program to prevent accidents and to train employees to do their job safely. Scheduled, Tool Box Talks/Work Group Safety Meetings, will be conducted every Monday morning at 8:00 am. and at times deemed necessary by the Safety and Health Manager or supervisory personnel

Responsibilities:

The Company President will provide the direction and motivation to ensure that all managers conduct regular Tool Box Talks/Work Group Safety Meetings.

Managers and Supervisory Personnel that conduct safety discussions will maintain a log of what was discussed and who attended the meeting. This information shall be turned over to the Safety and Health Manager on a weekly basis.

The Project Manager shall be a resource for safety and health discussion topics, and shall keep all documentation of all training at a central location.

Employees are required to attend all Tool Box Talks/Work Group Safety Meetings. In the event an employee misses a Tool Box Talk/Work Group Safety Meeting, the employee shall be given individual instruction by their supervisor concerning what was discussed/covered. The supervisor shall document this "training session" and will provide the Safety and Health Manager with this documentation.

Procedure:

The Tool Box Talk/Work Group Safety Meeting is a method used by this Company to develop the employees' safety awareness.

Conducting Tool Box Talks/Work Group Safety Meetings

For greatest effectiveness, cover subjects that most interest the employees. These topics might include accidents, inspection results, the safety program, or a work procedure.

These weekly meetings should last no longer than 15-30 minutes. Ideally, the meeting would include time for active participation by employees; at the least, there should be a question and answer session.

Schedule meetings at the beginning of new operations to ensure that all of the employees are familiar with safe job procedures and the requirements of the upcoming work. These meetings save a lot of time in the long run.

Tool Box Talks/Work Group Safety Meetings may be either motivational or instructional. The motivational meeting creates awareness and aims at worker self protection. The instructional meeting covers a particular job task or procedure.

The supervisor is the key management communicator for work groups, because he or she is most familiar with the individual workers and their work requirements.

Welding and Metal Fabrication

Policy:

Welding, cutting and brazing operations present a series of hazardous situations with potential exposure to burns, eye damage, electrical shock, crushed toes and fingers, and the inhalation of vapors and fumes. Many welding, cutting and brazing accidents result from:

- Inadequately trained personnel.
- Poor housekeeping practices.
- Poor shop layout.
- Inadequate lighting and ventilation.
- Improper storage and movement of compressed gas cylinders.
- Exposure of oxygen cylinders and fittings to oil or grease creating a fire or explosive hazard.
- Pointing welding or cutting torches at a concrete surface causing spattering and flying fragments of concrete.
- Electric shock when motors, generators and other electric welding equipment are not grounded.
- Inhalation of toxic fumes or vapors from welding metals or alloys.

Fires, explosions, and injuries can occur resulting from:

- The proximity of combustible solids, liquids, or dusts.
- The presence or development of possible explosive mixtures of flammable gases and air.
- The presence or nature of an oxygen-enriched atmosphere in locations where hot work is performed.

Cutters and welders, and other exposed personnel, are also susceptible to eye injury from infrared light and ultraviolet radiation.

Procedures:

The following provides minimum guidance on procedures and operating precautions:

Provide ventilation in shops or rooms where work is to be performed but avoid strong drafts directed at the welding work.

Do not place work to be welded or heated on a concrete floor. Concrete, when heated, may splatter and fly, exposing the welder to possible burns (and also throwing hot particles a considerable distance creating a potential fire hazard).

The following provides procedures and operating precautions: (continued)

Provide appropriate protection for welders and helpers when working on elevated surfaces. Welding areas shall be kept neat, clean, and free from tripping hazards.

Provide approved personal protective equipment for welders who must enter confined spaces, manholes or other space restricted areas. Also, provide a means to ensure their quick removal in case of an emergency.

Do not perform cutting and welding operations in sprinklered buildings when the sprinkler system is inoperable; in explosive atmospheres or where explosive atmospheres may develop; or, within 50 feet of storage of large quantities of exposed, readily ignitable materials.

Before lighting the torch for the first time each day, allow enough of each gas to flow through its respective hose to purge any flammable gas mixture.

Purge hoses in open spaces and away from ignition sources. Light the torch with a friction lighter or stationary pilot flame keeping a safe distance between he torch and the welder's hands. Point the torch away from persons or combustible materials when lighting. Do not attempt to light a torch from hot metal.

When working in a confined space, the fuel gas and oxygen supply shall be located outside the confined space. The torch and hose should be removed from confined spaces when not in use.

Fuel gas and oxygen torch valves shall be closed and the fuel gas and oxygen supply to the torch shall be shut off during lunch or break periods, when not in use for extended periods, and when unattended.

Welding torch hoses must be protected from damage by contact with hot metal, open flames, corrosive agents or sharp edges. Pressure on hoses will be released at the end of each workday. Hoses must be visually inspected for damage at the beginning of each shift. Hose showing leaks, cuts, burns, worn spots or other evidence of deterioration must be repaired or replaced prior to use. Replacement hoses or fittings must be approved for use with acetylene equipment.

Shielding shall be provided to protect personnel from heat, sparks, slag, light, and radiation.

A fire watch will be maintained for at least 30 minutes after completion of cutting or welding operations to detect and extinguish possible smoldering fires.

Personal Protective Equipment:

Key portions of OSHA Standard 1910.252 covering protective equipment are included here. Personnel engaged in or exposed to welding, cutting, or brazing activities will be provided and use personal protective equipment to include eye and face protection, head protection when in a hard hat area, foot protection, and body, arm, and hand protection.

a. Eye Protection

b. Helmets shall be used during all arc welding or arc cutting operations. Goggles should also be worn during arc welding or cutting operations to provide protection from injurious rays from adjacent work, and from flying objects. The goggles may have either clear or colored glass, depending upon the amount of exposure to adjacent welding operations. Helpers or attendants shall be provided with proper eye protection. Helmets shall be arranged to protect the face, neck, and ears from direct radiant energy from the arc.

d. Goggles or other suitable eye protection shall be used during all gas welding or oxygen cutting operations. Spectacles with side shields and suitable filter lenses are permitted for use during gas welding operations on light work, for torch brazing or for inspection. Goggles shall be ventilated to prevent fogging of the lenses as much as practicable.

e. All operators and attendants of resistance welding or resistance brazing equipment shall use transparent face shields or goggles, depending on the particular job, to protect their faces or eyes, as required.

e. Eye protection in the form of suitable goggles shall be provided where needed for brazing operations.

Protective Clothing:

a. All welders should wear flame-resistant gauntlet gloves and shirts with sleeves of sufficient length and construction to protect the arms from heat, UV radiation, and sparks.

b. All welders should wear fire-resistant aprons, coveralls, and leggings.

c. Clothing should be kept reasonably free of oil or grease. Front pockets and upturned sleeves or cuffs should be prohibited, and sleeves and collars should be kept buttoned to prevent hot metal slag or sparks from contacting the skin.

Respiratory Protection:

The Project Manager shall be responsible for contractors assessing the need to determine appropriate levels of respiratory protection to be worn by personnel performing welding operations.

Fire Prevention and Protection:

1. The welding operation environment shall be free of flammable liquids and vapors. Combustible materials within a radius of 35 feet of the operation will be protected from activity residue (flame, heat, sparks, slag, etc.).

2. Fire watcher procedures shall be implemented whenever welding activities are conducted within 35 feet of combustible materials, regardless of protection provided. A qualified individual proficient in the operation of available fire extinguishing equipment and knowledgeable of fire reporting procedures shall observe welding or cutting activities. His or her duty is to detect and prevent the spread of fire produced by welding or cutting activities.

3. Whenever there are cracks or other floor openings within 35 feet of the welding or cutting that cannot be closed or covered, precautions shall be taken to remove or otherwise protect combustible materials on the floor below that may be exposed to sparks. The same precautions shall be observed with regard to cracks or openings in walls, open doorways, and open or broken windows.

4. Fire extinguishing equipment shall be maintained, ready for use, while welding or cutting operations are being performed. Equipment may consist of pails of water, buckets of sand, hose, or portable extinguishers depending upon the nature and quantity of the combustible material exposed.

5. Where sprinkler protection exists, it shall be in full service while welding or cutting work is being performed. If welding or cutting is to be done within three feet of automatic sprinkler heads, noncombustible sheet material or damp cloth guards will be used to temporarily shield the individual heads.

Welding and Cutting Tanks, Cylinders, or Containers:

The procedures described below apply only to tanks too small to be entered. Compressed gas cylinders are excluded as are pipelines. Cutting and welding on containers that have held flammable liquids or gases shall be under the direct supervision of knowledgeable personnel.

Inspection-

BEFORE any tank, cylinder, or other container is cut, welded, or other hot work is performed, the item shall be purged or made inert. New containers shall also be made inert as they may contain a flammable preservative which could form explosive vapors when heated. Welders shall also ensure that there are no substances such as grease, tars, or acids which, when subjected to heat, might produce explosive or toxic vapors. Any pipe lines or connections to the drums, cylinders, tanks, or other containers shall be disconnected or blanked.

Purging and Inerting-

Purging with Water

Where the liquid or gas previously contained is known to be readily displaced or easily soluble in water, it can be removed by completely filling the container with water and then draining. When hot work is performed on containers filled with water, extreme care shall be used to eliminate any vapor accumulation by proper venting or positioning of the container during the filling operation.

Purging with Air

Hazardous vapors may be displaced from inside containers by purging with air. A safe atmosphere shall be maintained by continuous ventilation.

Inerting with Gas

Inert gas may be used to displace flammable gas from the container. Adequate ventilation shall be maintained during the operation to ensure gas concentrations remain below hazardous levels.

Examples of inert gases are carbon dioxide and nitrogen.

Venting-

All hollow spaces, cavities, or containers shall be vented to permit the escape of air or gases before and during preheating, cutting, or welding.

Arc Welding:

Arc welding equipment shall conform to the design and installation criteria of OSHA 29 CFR 1910.252, “Welding, Cutting, and Brazing.” The frame or case of the welding machine (except engine-driven machines) shall be grounded under the conditions and according to the methods prescribed in OSHA Standard 1910, Subpart S, “Electrical”, and 1910.252.

Before starting operations, all connections to the arc welding machine shall be checked. The work lead shall be firmly attached to the work; contact surfaces of the magnetic work clamps shall be free of metal splatter particles. Coiled welding cable shall be spread out before use to avoid serious overheating and damage to insulation. Work and electrode lead cables shall be inspected for damage and wear before use. Cables with damaged insulation or exposed conductors shall be replaced. Electrode cables shall be joined and insulated in accordance with approved methods.

Grounding of the welding machine from shall be checked. Special attention shall be given to the ground connections of portable machines.

Electrode holders, when not in use, shall be placed where they cannot make electrical contact with persons, conducting objects, fuel, or compressed gas cylinders.

When it is necessary to splice cables to extend their length, only certified electricians shall make the splices. Cables with splices within 10 feet of the electrode holder shall not be used. The welder shall not coil or loop welding electrode cables around parts of their body.

Welders shall not place welding cable and other equipment where it will obstruct passageways, ladders, and stairways.

Machines which have become wet shall be thoroughly dried and tested before being used.

When welders are working close to one another on one structure where they may touch the exposed parts of more than one electrode holder simultaneously, the machines shall be connected to minimize shock hazard as follows:

All direct current (DC) machines shall be connected with the same polarity.

All alternating current (AC) machines shall be connected to the same phase of the supply circuit and with the same instantaneous polarity.

Resistance Welding:

Thermal Protection

Every pair of ignition tubes used in resistance welding equipment shall be equipped with a thermal protection switch. When used in a series-connected water line, a single switch shall be adequate if related to the downstream tube.

Control Safeguards

Controls, such as push buttons, foot switches, retraction, and dual-schedule switches on portable guns, etc., shall be arranged or guarded to prevent inadvertent activation.

Guarding Welding Machines

Multi-gun welding machines shall be effectively guarded at the point of operation. Devices such as an electronic eye, latches, blocks, barriers, or two-hand controls shall be installed. All chains, gears, operating bus linkage, and belts shall be protected by adequate guards.

Electrical Hazards:

All external weld-initiating control circuits shall operate on low voltage, not over 120 bolts for stationary equipment and not over 36 volts for portable equipment. All electrical equipment shall be suitably interlocked and insulated to prevent access by unauthorized persons to live portions of the equipment. Only non-ferrous welding clamps should be used to prevent magnetic induction during actuation of the equipment.

Welding in Confined Spaces Procedures-

Confined space means a relatively small or restricted space such as a tank, boiler, pressure vessel, mixing vat, sump, or pit. Ventilation is a prerequisite to work in confined spaces. All welding and cutting operations carried on in confined spaces shall be adequately ventilated to prevent the accumulation of toxic materials, possible oxygen deficiency, or explosive atmosphere.

This applies not only to the welder but also to helpers and other personnel in the immediate vicinity. All air replacing *that* which is withdrawn shall be clear and breathable. Oxygen shall never be used as makeup air.

In such circumstances where it is impossible to provide such ventilation, respirators or hose masks approved for this purpose by NIOSH/MSHA shall be used. In areas immediately hazardous to life, hose masks with blowers or self-contained breathing apparatus shall be used.

Welding in Confined Spaces Procedures- (continued)

Where welding operations are carried on in a confined space and where welders and helpers are provided with hose masks, hose masks with blowers, or self-contained breathing apparatus, a worker shall be stationed on the outside of the confined space to ensure the safety of those working within.

When welding or cutting is being performed in any confined space, the gas cylinders and welding machines shall be left on the outside. Before operations are started, heavy portable equipment mounted on wheels shall be securely blocked to prevent accidental movement.

Where a welder must enter a confined space through a manhole or other small opening, a means shall be provided for quick removal of the worker in case of emergency. When safety belts and lifelines are used for this purpose, they shall be attached to the welder's body in a way that ensures his or her body cannot be jammed in a small exit opening. A wrist harness assembly shall be used. An attendant with a preplanned rescue procedure shall be stationed outside to observe the welder at all times and shall be capable of putting rescue operations into effect.

When arc welding is to be stopped for any substantial period of time, such as during lunch or overnight, all electrodes shall be removed from the holders and the holders carefully located so accidental contact cannot occur. The machine shall be disconnected from the power source.

When gas welding or cutting, the torch valves shall be closed and the fuel-gas and oxygen supply to the torch positively shut off at some point outside the confined area whenever the torch is not to be used for a substantial period of time, such as during lunch or overnight. Where practicable, the torch and hose shall also be removed from the confined space.

All confined spaces shall be monitored for oxygen content, combustible vapors, and toxic material prior to entry and periodically throughout the operation. Periodic testing shall depend on the type of space being entered. The Safety and Health Manager shall be consulted for guidance.

Portable Gas Units Procedures-

Portable gas welding, cutting, and brazing equipment must be of a type approved for the use intended.

Cylinders of compressed gas must have pressure reducing regulators installed.

Portable Gas Units Procedures- (continued)

Cylinders in use or in a transport must be stored in an upright position and secured to prevent them from falling.

Pressure hoses shall be secured to prevent whipping.

Oxygen cylinders and fittings shall be kept free of grease and oil at all times.

Cylinders shall be kept away from external sources of heat at all times.

Cylinders shall not be dropped of handled roughly. Cylinders or welding sets in excess of 40 pounds total weight shall be transported to and from work sites by push cart or motorized vehicle.

Portable Electric Unit Procedures-

Circuits shall be de-energized before testing, checking or transporting.

Motor-generator sets and other electrical welding equipment shall be grounded prior to use.

Rotary and polarity switches shall not be operated while the equipment is under an electrical load.

Arc welding equipment shall be inspected periodically and inspected prior to use following relocation. Power cables and electrode holders shall be inspected prior to every use.

Sheet Metal:

1.Machines shall be guarded in accordance with manufacturer's requirements.

2.Supervisors shall ensure sharp metal is stored in an area that will not pose a hazard to machine operators or personnel walking through designated aisles.

3. Work gloves shall always be worn when working with metal and metal scraps.

4. Hearing protection shall be worn when working in designated hazardous noise areas with noise sources operating or when using hand tools labeled hazardous noise producers.

Workplace Violence Policy

PREVENTING ACTS OF AGGRESSION, THREATENING BEHAVIOR, AND VIOLENCE IN THE WORKPLACE

Background:

An average of 20 workers are murdered each week in the United States. The majority of these murders are robbery-related crimes. In addition, an estimated 1 million workers are assaulted annually in U.S. workplaces. Most of these assaults occur in service settings such as hospitals, nursing homes, and social service agencies. Factors that place workers at risk for violence in the workplace include interacting with the public, exchanging money, delivering services or goods, working late at night or during early morning hours, working alone, guarding valuables or property, and dealing with violent people or volatile situations.

The Company recognizes workplace violence as a serious occupational problem. In a June 1996 report, the National Institute for Occupational Safety and Health (NIOSH) published data that revealed homicide has become the second leading overall cause of occupational injury and death, exceeded only by motor-vehicle-related deaths. This report also identified homicide as the leading cause of occupational injury and death for female workers. The Northwestern National Life notes the seriousness of workplace violence in their 1993 report, which states that of every four full-time workers, one is harassed, threatened, or attacked on the job each year. Many incidents can be avoided by employees who are able to recognize early warning signs of potential violence, know when and how to report concerns, and know how to implement the steps to defuse situations before they become violent.

Purpose and Scope:

The purpose of this policy is to provide a safe workplace free from aggressive, threatening, or violent acts through the development and implementation of an effective program that provides a safe workplace. The provisions of this Policy apply to all work sites owned or controlled by the Company and at which work is performed for the Company.

Policy:

It is the policy of the Company to provide a safe workplace for its employees. To this end, all elements of the Company are expected to implement a program to prevent and respond to violence in the workplace.

For purposes of this policy, violence is defined as the deliberate and wrongful violation, damage, or abuse of other persons, self, or property and includes threats of violence. Acts of violence and threats thereof include, but may not be limited to:

- verbal (such as threats, harassment, abuse, and intimidation),
- non-verbal (such as gestures and intimidation),
- physical (such as hitting, pushing, shoving, kicking, touching, and assault), and
- other (such as arson, sabotage, vandalism, and stalking).

It is important that all threats be taken seriously. The threat should not be ignored in the hope that it will resolve itself or out of fear of triggering an outburst from the person who has lodged the threat. If someone poses a danger to himself or others, appropriate authorities should be notified and action should be taken.

It is Company Policy to notify the police if any employee is threatened by anyone.

In developing this program, all sites shall consider the following:

1) A site-specific workplace violence policy and plan that includes written objectives and requirements for all organizational elements and incorporates the overall company policy in identifying and addressing threatening workplace behavior.

2) A review and approval of each plan by the cognizant manager. Specific protocols to be considered in the approval of such plans include:

a) Establishment of crisis assessment and response teams to include all interested stakeholders;

b) Maintenance of information on incidents of violence for review and analysis;

c) Establishment of a procedure for employees to confidentially report threatening situations and other relevant information to management

3) An awareness program for workplace violence prevention which should include:

a) Initial awareness and response orientation and instruction for management and supervisors;

b) Initial awareness orientation and information for workers, including new employee orientation as necessary;

c) Refresher awareness training on an as needed basis for all employees.

4) Written communication from each site to the responsible office of all incidents of violence and subsequent outcomes as the incidents occur.

5) Written communication from each organizational element to human resources of all incidents of violence involving employees and subsequent outcomes.

6) A written quarterly report from each site of all workplace violence incidents and outcomes submitted to the responsible office with a copy of this report forwarded to the occupational health department.

The cognizant manager should include information on workplace violence incidents and outcomes involving the workforce in this submittal.

Responsibilities:

The Divisional Manager will provide specific guidance for implementation of this program.

Supervisors will develop implementation plans incorporating the program requirements for prevention of, and response to, workplace violence of this program for employees

Implementation:

All departmental elements will modify their responsibilities, organizations, management processes, and missions as needed to ensure implementation of this policy.

POSSIBLE RISK FACTORS AND PREVENTIVE MEASURES

Risk Factors

Researchers have suggested a number of factors that may increase the risk of violence, injury and homicide in the workplace. The following are examples of these factors:

- Exchange of money with the public
- Working alone or in small numbers
- Working late night or early morning hours
- Working in high-crime areas
- Guarding valuable property or possessions
- Working in community settings (e.g., taxicab drivers and police)

Preventive Measures

Immediate preventive measures are needed to reduce the large number of occupational violence and homicides each year. The preventive measures presented here may provide some protection to workers until research studies can be conducted to evaluate their effectiveness.

A number of environmental and behavioral measures have been proposed for reducing occupational violence and homicides in high-risk establishments and occupations. These measures include the following:

- Make high-risk areas visible to more people.
- Install good external lighting.
- Use drop safes to minimize cash on hand.
- Carry small amounts of cash.
- Post signs stating that limited cash is on hand.
- Install silent alarms.
- Install surveillance cameras.
- Increase the number of staff on duty.
- Provide training in conflict resolution and nonviolent response.
- Avoid resistance during a robbery.
- Provide bullet-proof barriers or enclosures.
- Have police check on workers routinely.
- Close establishments during high-risk hours (late at night and early in the morning).

Conclusions:

Occupational violence and homicide is a serious public health problem, but many employers and workers may be unaware of the risk. No current OSHA regulations apply specifically to occupational violence or homicide, but a great need exists for worker protection from intentional injury in the workplace.

High-risk workplaces include taxicab establishments, liquor stores, gas stations, detective/protective services, justice/public order establishments, grocery stores, jewelry stores, hotels/motels, and eating/drinking places. High-risk occupations are taxicab drivers/chauffeurs, law enforcement officers (police officers/sheriffs), hotel clerks, gas station workers, security guards, stock handlers/baggers, store owners/managers, and bartenders. Employers in these high-risk establishments and occupations need to be aware of the risk for homicide and take steps to ensure a safe workplace.

RECOMMENDATIONS

NIOSH recommends that the following steps be taken to prevent occupational injuries and homicides. The Company will take these steps:

- Evaluate the factors or situations in the workplace that may place workers at risk, and
- Carefully consider intervention efforts that might minimize/remove risk.

Vehicle Operation

Policy:

Vehicles are to be operated in a safe manner consistent with local, state and federal laws. All accidents must be reported promptly according to procedures outlined below. The use of vehicles is limited to necessary Company business.

Personnel permitted to drive vehicles (e.g. Company automobiles, delivery vehicles, trucks, forklifts, tractors, loaders, back hoes, bobcats, mowers, etc.) must demonstrate the knowledge and ability to operate the equipment safely to the satisfaction of a qualified examiner.

Responsibilities:

a. Driver's Supervisor

1. Ensures that employees under his/her supervision who drive vehicles possess a valid state driver's license.

2. Ensures that vehicles are used only for official Company business and carries only Company employees who are authorized passengers.

3. Ensures all operators of powered industrial trucks are properly trained in the operation of the vehicles.

4. Ensures all vehicle drivers have the necessary medical examinations to ensure that the driver is physically qualified to operate the equipment.

5. Regularly inspects vehicles and vehicle systems.

b. Employee

1. Carries the required, valid state driver's license

2. Inspects daily the vehicle before it is used. Items to be checked should include the forks, batteries, wheels, cables, lights, horns, back-up alarm, mirrors, steering, brakes, tires and controls.

3. Reports any defects or malfunctions to the supervisor immediately. Does not use a malfunctioning vehicle if the defect impairs the safe operation or use of the vehicle.

4. Operates equipment safely and in accordance to operating instructions.

5. Wears appropriate protective equipment at all times.

c. Divisional Manager

1. Maintains with the Supervisor, records of employee qualification tests.

2. Assists, when necessary, in selection and designation of jobs which require powered industrial trucks.

3. Periodically and routinely inspects vehicles and vehicle operations.

4. Coordinates with the supervisor, training programs for use and operation of the vehicles.

General Requirement:

a. The examiner will administer a driving test to each prospective operator.

b. The operator is required to:

1. Point to and explain the following controls: lift, tilt, forward and reverse gears.

2. Perform all driving and loading/unloading maneuvers deemed necessary by the examining official.

c. Upon satisfactory completion of the test procedures, a permit card shall be signed by the examiner and motor vehicle licensing official. The permit shall be valid as long as health requirements and safe operating techniques are met.

Operating Rules and Practices:

a. Safeguard pedestrians at all times. Do not drive a truck up to anyone standing in front of a stationary or fixed object (e.g., a bench or parked vehicle).

b. Do not allow anyone to stand or pass under the elevated portion of any truck or lift.

c. Unauthorized personnel shall not be permitted to ride on or operate powered industrial trucks.

d. Never allow anyone to ride the forks, while the vehicle is in motion, or to lift them to a higher level except with a personnel platform.

<u>Operating Rules and Practices</u>: (continued)

e. Do not put arms or legs between the uprights of the mast or outside the running lines of the truck.

f. When leaving a powered industrial truck unattended, lift platform shall be fully lowered, controls shall be neutralized, power shut off, brakes set, key or connector plug removed. Block wheels if truck is parked on an incline.

g. When you park the machine, lower the forks so they are flat on the ground.

h. Maintain a safe distance from edge or ramps or platforms.

i. Be sure of sufficient head room under overhead installations, lights, pipes, sprinkler systems, etc.

j. Use an overhead guard as protection against falling objects.

k. Use a load backrest extension whenever necessary to minimize the possibility of the load or part of it falling rearward.

l. Report to supervisor all accidents involving personnel, building structures, and equipment.

m. Obey all safety signs and markers.

n. Never exceed trucks' rated capacity.

o. Never travel with load above five feet.

p. Avoid sudden stops and starts when loaded.

q. Do not use fork extensions.

<u>Use of Powered Mowers, Tractors, etc.</u>

a. Operation is limited to qualified operators approved for use of specific equipment. Equipment may also be used by supervised individuals who are training for certification.

b. Equipment operators must wear approved safety shoes, and, as appropriate, eye and hearing protection.

Motor Vehicle Accident:

a. In cases of accident:

1. Stop immediately.

2. Take steps to prevent another accident at the scene.

3. Call a doctor or ambulance, if necessary.

4. Notify police.

5. DO NOT sign any paper or make any statement as to who was at fault (except to your supervisor or to a Federal Government investigator).

6. Obtain the name and address of each witness.

7. Provide your name, address, place of employment, name of your supervisor, and upon request, show your operator's permit.

8. Make notes of the following:

a. Registration information for other vehicle(s) (owner's name, tag number and state, serial number, and vehicle description).

b. Information on other driver (name, address, operator's permit number, and expiration date).

c. Name and address of each person involved and extent of injury, if any.

d. Name and address of company insuring other vehicle(s).

e. General information such as location, time, measurements, weather, damage, etc.

9. As soon as possible, notify your supervisor and, if driving an interagency motor pool vehicle, the manager of the pool which issued the vehicle.

10. If the vehicle is unsafe to operate, have it towed to the nearest garage or service station.

11. If you are injured, notify your immediate supervisor.

12. Submit all reports and data to your supervisor within one working day.

13. If you are injured have the police notify your supervisor who will assume your responsibilities for reporting the accident.

Stokes Demolition Inc.

Health and Safety Program

Stokes Demolition Inc.
Table of Contents

	Page
Health and Safety Policy Statement	1
Safety Education and Training Program	2
Safety and Health Communication	5
OSHA Recordkeeping and Posting Requirements	8
Self-Inspection Checklists	16
Safety Inspection Checklist	31
Hazard Identification and Communication	35
MSDS Responsibilities	37
Employee Safety Handbook	42
Personal Protective Equipment	54
Machinery Tag Out Program	56
Hazard Prevention and Control	61
Liability Report Form	62
Emergency Action Plan	64
Hazardous Material Spill Response	73
Bloodborne Pathogens	75
Fall Protection Plan	80
Safety Harness Inspection Report	90
First Aid and Medical Treatment	91
CPR (Cardiopulmonary Resuscitation)	94
Noise and Hearing Conservation Program	98
Housekeeping and Material Storage	109
Ladder Safety	114
Laser Safety	121
Personal Protective Equipment Program	134
Hazard Assessment Form / Certification of Hazard Assessment	149
Respiratory Protection Program	150
Respirator Training Certification	163
Fit Test Worksheets	164
Roof Labor Safety	166
Scaffold Safety Program	170
Tool Box Talks / Work Group Safety Meetings	176
Welding and Metal Fabrication	178
Workplace Violence Policy	188
Vehicle Operation	192

Safety and Health Program Manual
Review & Updates

DATE: **9/1/2008**

DESCRIPTION: **Manual review**

SIGNATURE:

DATE:

DESCRIPTION:

SIGNATURE:

DATE:

DESCRIPTION:

SIGNATURE:

DATE:

DESCRIPTION:

SIGNATURE:

DATE:

DESCRIPTION:

SIGNATURE:

DATE:

DESCRIPTION:

Stokes Demolition Inc.
Safety and Health Policy Statement

We are dedicated to providing a safe and healthful environment for employees and customers, protecting the public, and preserving Stokes Demolition Inc. assets and property.

At Stokes Demolition Inc. our most valuable resources are the people who work for us. Injuries can be prevented. To achieve this objective, Stokes Demolition Inc. will make all reasonable efforts to comply with all government regulations pertaining to safety and health issues. An effective Safety and Health Program will be carried out throughout our organization.

The Safety and Health Program will assist management and non-supervisory employees in controlling hazards and risks which will minimize employee and customer injuries, damage to customer's property and damage or destruction of Stokes Demolition Inc. property.

All employees will follow this program. This program is designed to encourage all employees to promote the safety of their fellow employees and customers. To accomplish our safety and health goals, all members of management are responsible and accountable for implementing this policy, and to insure it is followed.

Stokes Demolition Inc. is sincerely interested in the employee's safety. The policy of Stokes Demolition Inc. is to provide safe equipment, adequate tools and training, and the necessary protective equipment. It is the employee's responsibility to follow the rules of safety as established for their protection and the protection of others, and to use the protective devices, which Stokes Demolition Inc. provides.

Safety Education and Training Program

Stokes Demolition Inc. is committed to instructing all employees in safe and healthy work practices. Stokes Demolition Inc. will provide training to each employee with regard to general, acceptable, safety procedures and to any hazards or safety procedures that are specific to that employee's work situation.

Purpose of a Hazard Communication Program:

To provide employees with the knowledge and training necessary to understand and protect themselves and others from the chemicals they use. Also, to comply with the OSHA Hazard Communication Standard (1910.1200).

Training Will Occur When:

- Upon Hiring
- Stokes Demolition Inc. believes additional training is warranted
- An employee is given a new job assignment
- New substances, equipment, or new procedures are introduced which represent a new hazard
- Stokes Demolition Inc. is made aware of a new hazard

Training Areas:

Employee training will consist of new employee orientation, periodic group meetings, and one-on-one training. The Safety and Health training provided to employees will include:

- Employee Safety Handbook
- First Aid
- Stokes Demolition Inc. Safety and Health Policy
- Stokes Demolition Inc. Safety and Health Program
- Incident Reporting
- Hazard Communication
- Hazardous Material Spill Response
- Personal Protective Equipment requirements
- Emergency Procedures
- Housekeeping
- Job Specific Hazards

Training Documentation:

Employee Training will be documented using the forms on the next two pages.

Employee Safety Training Checklist

Employee Name: _____ Hire Date: _____

Position: _____ Trainer: _____

I acknowledge that I have been trained in the SAFETY AND HEALTH areas checked below, and agree to follow all Stokes Demolition Inc. Safety and Health Rules, Policies and Procedures.

_____Safety and Health Program

- My right to ask questions, or report any safety hazards, either directly or anonymously without any fear of reprisal.
- The location of Stokes Demolition Inc. safety bulletins and required safety postings (i.e., summary of occupational injuries and illnesses, and Safety and Health Protection Poster).
- Disciplinary procedures that may be used to ensure compliance with safe work practices.
- Reporting safety concerns.
- Accessing the department safety committee.

_____Incident Reporting and Reporting Occupational Injuries and Illnesses.

_____Hazard Communication

- The potential occupational hazards in the work area associated with my job assignment.
- The safe work practices and personal protective equipment required for my job title.
- The location and availability of MSDS's.
- The hazards of any chemicals to which I may be exposed, and my right to the information contained on Material Safety Data Sheets (MSDS's) for those Chemicals.

_____Hazardous Material Spill Response

_____Bloodborne Pathogen Response

_____Personal Protective Equipment

_____Employee Safety Manual

_____Machinery Tag Out Program

_____Emergency Procedures

_____Other: _____

I understand the above items and agree to comply with safe work practices in my work area.

_____ _____

Employee Signature Date

I have trained the above employee in the categories indicated on this form.

_____ _____

Trainers Signature Date

Safety Meeting Record

Job: _____

Department or Crew: _____ Date:_____

OUTLINE

Safety Title:

_____

Key Points:

1. **_____**
2. **_____**
3. **_____**
4. **_____**
5. **_____**

Applications to Project:

_____
_____
_____
_____

Safety Reminders:

_____
_____

Employee Safety Recommendations:

_____
_____
_____

Meeting Attended By:

_____ _____
_____ _____

Safety and Health Communication

Communicating With Employees on Safety and Health Issues

Communicating with employees regarding health and safety issues must be a two way street. It must consist of both employer-to-employee **and** employee-to-employer communications. Employees will be trained through the formal Safety and Health Program, new employee orientation, and training specific to new or current job assignments and/or hazards.

Reporting of Safety and Health Hazards:

Stokes Demolition Inc. has a system for the employee to report a hazard or unsafe condition. The form on the next page will be used for reporting and documenting such hazards. The employee should also notify his/her immediate supervisor verbally of such hazard or condition. The "Safety Suggestion Form" will be sent to the employee's supervisor or designated Safety Manager. A prompt and thorough investigation will be conducted of the situation.

Postings:

As a routine part of the Safety and Health Program, postings required by state and federal law (for example, Safety and Health protection on the Job, state OSHA citations and responses, etc.) will be prominently displayed in employee areas.

Training:

Stokes Demolition Inc. has training requirements designed to instruct each employee on general safety procedures as well as safety procedures specific to the employee's job. These training requirements are described in greater detail in the chapter entitled SAFETY AND HEALTH TRAINING.

Employee Safety Handbook:

All employees will be provided with an Employee Safety Handbook before they are to begin work and at the time of orientation. (Management will photocopy pages 17 through 28 of this manual, staple the pages together, and give it to every new hire). They are to read the handbook and acknowledge its receipt by filling out the second page of the handbook. This page will be removed from the handbook and placed in their personnel record.

SAFETY SUGGESTION FORM

NAME: _____ DATE_____
(OPTIONAL)

DESCRIPTION OF UNSAFE CONDITION OR PRACTICE:

_____
_____
_____
_____
_____
_____

CAUSE OR CONTRIBUTING FACTORS:

_____
_____
__

SUGGESTION FOR IMPROVING SAFETY:

_____
_____

Draw a picture to describe situation:

Safety Training Event Scheduling Chart

Weekly	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Weekly Safety Inspection												
Weekly Boiler Checks												
Atmospheric Monitoring												
Monthly												
Compile Safety Training Report												
Fleet Driver Safety Training												
Safety Committee Inspection												
Safety Committee Meeting												
Fire Prevention Inspection												
Respirator Inspections												
Spill / Hazmat Equipment Inventory												
Fire Extinguisher Inspection												
Monthly Boiler Inspection												
Boiler Chemistry Report												
Monthly Sprinkler Inspection & Test												
Test Emergency Lighting												
Semi-Annual												
Fire Department Tour of Plant												
Emergency Lighting 90 Minute Test												
Evacuation Drill												
Boiler External Inspection												
Boiler Internal Inspection												
Annual	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**
MSDS Audit												
Respirator Physicals												
Respirator Fit Tests												
Noise Survey												
Hearing Tests												
LOTO Verification & Certifications												
Boiler Safety Valve Test												
Emergency Plan Review												
Fire Hydrant Flow Test												
Forklift / Loader Re-Certification												
Annual Sprinkler Inspection & Tests												
Annual Training												
First Aid - CPR -BBP												
Respiratory Protection												
Confined Space Entry												
Ergonomics												
Personal Protective Equipment												
Hazard Communication												
Electrical Safety												
Lockout / Tagout												
Hearing Conservation												
Forklift Re-Training												
Emergency Plans												

OSHA Recordkeeping and Posting Requirements

Purpose:

To establish the policy and procedures regarding Stokes Demolition Inc. requirements for compliance with OSHA record keeping and posting guidelines for occupational injuries and illnesses.

Policy:

All locations are to post the "Job Safety and Health Protection" poster (or state equivalent) in prominent places in the workplace.

OSHA requires that employers maintain a record of certain occupational injuries that occur at each business establishment on the OSHA Form Log 300 and 300A: Log of Work-Related Injuries and Illnesses and Summary of Work-Related Injuries and Illnesses. At the end of each year, OSHA requires the summary section of the OSHA Form Log 300A to be posted at each business establishment no later than February 1 and remain in place until April 30. Stokes Demolition Inc. will comply with this requirement. The Project Manager is responsible for maintaining the information on the log in a current status and distributing the OSHA Form Logs.

The "Job Safety and Health Protection" poster and the Form Log and Summary of Occupational Injuries and Illnesses can be ordered from OSHA, free of charge, at 303-844-1600

Record Retention:

OSHA Form Log, January – November reports can be discarded upon receipt of the next monthly report.

Year-end OSHA Form Log 200, 300, 300A, and 301, retain for 5 years following the year to which they relate

OSHA 2002 Record Keeping Guidelines

You are urged to independently verify the accuracy of this document on a periodic basis by visiting www.OSHA.gov. Also, be advised that State OSHA's may address these and other issues. You should check with your State's OSHA for variations, updates, and compliance!

Here's an overview of some of the new Federal standard's key provisions.

*** Exemptions: If a company had 10 or fewer employees at all times during the last calendar year, it does not need to keep OSHA injury and illness records unless OSHA or the Bureau of Labor Statistics (BLS) informs you in writing that you must keep such records. However, all employers covered by the OSH Act must report to OSHA any workplace incident that results in a fatality or the hospitalization of three or more employees.

In addition to the small employer exemption, certain business establishments in particular industries are considered exempt from maintaining OSHA injury and illness records. Generally, if a business establishment is classified in a specific low-hazard retail, service, finance, insurance, or real estate industry listed in 29 C.F.R. 1904, Subpart B, Appendix A, it does not need to keep OSHA injury and illness records unless the government asks it to. Again, all employers must report to OSHA any workplace incident that results in a fatality or the hospitalization of three or more employees. (Note: Business establishments classified in agriculture; mining; construction; manufacturing; transportation; communication, electric, gas, and sanitary services; or wholesale trade are not eligible for the partial industry classification exemption.)

To view a list of the partially exempt industries, go to www.osha-slc.gov/OshStd_data/1904_New/1904_SUBPART_B_APP_A.html.

*** Form changes: Forms 200 (OSHA Injury and Illness Log and Summary) and 101 (OSHA Supplementary Record) will be replaced by two new forms -- Form 300 (Log of Work-Related Injuries and Illnesses) and Form 301 (OSHA Injury and Illness Incident Report), respectively. In addition, the new Form 300A (Summary of Work-Related Injuries and Illnesses) has been added to serve as the annual summary. Form 300A must be posted in a conspicuous area of the workplace where notices to employees are customarily posted beginning on February 1 of the year following the year to which the summary applies, and remain posted until April 30.

*** Recording criteria: Under the old rule, all work-related illnesses, but not necessarily all work-related injuries, were recordable. The new standard, on the other hand, establishes a single set of recording criteria for both injuries and illnesses. Now, covered employers are only required to record fatalities, injuries, and illnesses that: 1) are work-related; 2) are a new case; and 3) meet one or more of the general recording criteria.

An injury or illness meets the general recording criteria, and is thus recordable, if it results in any of the following: death, days away from work, restricted work or transfer to another job, medical treatment beyond first aid, or loss of consciousness. A case also meets the general recording criteria if it involves a significant injury or illness diagnosed by a

physician or other licensed health care professional -- even if it doesn't result in death, days away from work, restricted work or job transfer, medical treatment beyond first aid, or loss of consciousness.
The road to finalizing the record-keeping rule has been long and bumpy. As a result of a lawsuit regarding the rule with the National Association of Manufacturers (NAM) as part of the settlement, OSHA compliance officers will initially focus on compliance assistance, rather than on enforcement. OSHA says that during the first 120 days following the effective date of the new rule, no citations will be issued for violations – as long as employers make a good faith effort to meet the record- keeping obligations and agree to make any necessary corrections needed to bring their records into compliance.

Note: Although the new record-keeping standard goes into effect on January 1, 2002, three provisions will be delayed for one year while OSHA reconsiders them. These are: 1) the criteria for recording work-related hearing loss; 2) the rule's definition of musculoskeletal disorder (MSD); and 3) the requirement that employers check the MSD column on the OSHA log (Form 300). Recording criteria for cases involving work-related musculoskeletal disorders. From January 1, 2002 until December 31, 2003, you are required to record work-related injuries and illnesses involving muscles, nerves, tendons, ligaments, joints, cartilage and spinal discs in accordance with the requirements applicable to any injury or illness under §§ 1904.5, §§ 1904.6, §§ 1904.7, and § § 1904.29. For entry (M) on the OSHA 300
Log, you must check either the entry for "injury" or "all other illnesses."

For more information on OSHA's new record-keeping standard, please visit www.osha-slc.gov/recordkeeping/index.html.

IN OTHER OSHA NEWS...

While you're checking out OSHA's website for record-keeping information, you may also want to take a look at the agency's new workplace anthrax exposure guidance. If you have employees who open mail, they may be a little nervous in light of the recent terrorist activities. This guidance, called the Anthrax Matrix, aims to help employers assess the risk their workers face and suggests measures that can be taken to help protect them. You can find
the Anthrax Matrix at www.osha.gov/bioterrorism/anthrax/matrix/index.html.

***Knowing what to expect during a workplace safety inspection can help you remain calm and in control if and when an OSHA inspector comes knocking at your door. Be prepared to show the OSHA inspector various company documents -- such as illness and accident reports, training records, and policies – that demonstrate your company's efforts to maintain a safe workplace.

MAJOR CHANGES TO OSHA'S RECORDKEEPING RULE

This document provides a list of the major changes from OSHA's old 1904 recordkeeping rule to the new rule employers began using in 2002. This list summarizes the major

differences between the old and new recordkeeping rules to help people who are familiar with the old rule to learn the new rule quickly.

Scope

The list of service and retail industries that are partially exempt from the rule has been updated. Some establishments that were covered under the old rule are not required to keep OSHA records under the new rule and some formerly exempted establishments will now have to keep records. (§1904.2)

The new rule continues to provide a partial exemption for employers who had 10 or fewer workers at all times in the previous calendar year. (§1904.1) Forms

The new OSHA Form 300 (Log of Work-Related Injuries and Illnesses) has been simplified and can be printed on smaller legal-sized paper.

The new OSHA Form 301 (Injury and Illness Incident Report) includes more data about how the injury or illness occurred.

The new OSHA Form 300A (Summary of Work-Related Injuries and Illnesses) provides additional data to make it easier for employers to calculate incidence rates.

Maximum flexibility has been provided so employers can keep all the information on computers, at a central location, or on alternative forms, as long as the information is compatible and the data can be produced when needed. (§1904.29 and §1904.30)

Work related

A "significant" degree of aggravation is required before a preexisting injury or illness becomes work-related. (§1904.5(a))

Additional exceptions have been added to the geographic presumption of work relationship; cases arising from eating and drinking of food and beverages, blood donations, exercise programs, etc. no longer need to be recorded. Common cold and flu cases also no longer need to be recorded. (§1904.5(b)(2))

Criteria for deciding when mental illnesses are considered work-related have been added. (§1904.5(b)(2))

Sections have been added clarifying work relationship when employees travel or work out of their home. (§1904.5(b)(6) and §1904.5(b)(7))

Recording criteria

Different criteria for recording work-related injuries and work-related illnesses are eliminated; one set of criteria is used for both. (The former rule required employers to

record all illnesses, regardless of severity). (§1904.4)

Employers are required to record work-related injuries or illnesses if they result in one of the following: death; days away from work; restricted work or transfer to another job; medical treatment beyond first aid; loss of consciousness; or diagnosis of a significant injury/illness by a physician or other licensed health care professional. (§1904.7(a))

New definitions are included for medical treatment and first aid. First aid is defined by treatments on a finite list. All treatment not on this list is medical treatment. (§1904.7(b)(5))

The recording of "light duty" or restricted work cases is clarified. Employers are required to record cases as restricted work cases when the injured or ill employee only works partial days or is restricted from performing their "routine job functions" (defined as work activities the employee regularly performs at least once weekly). (§1904.7(b)(4))

Employers are required to record all needlestick and sharps injuries involving contamination by another person's blood or other potentially infectious material. (§1904.8)

Musculoskeletal disorders (MSDs) are treated like all other injuries or illnesses: they must be recorded if they result in days away, restricted work, transfer to another job, or medical treatment beyond first aid. (§1904.12)

Special recording criteria are included for cases involving the work-related transmission of tuberculosis or medical removal under OSHA standards. (§1904.9 and §1904.11)

Day counts

The term "lost workdays" is eliminated and the rule requires recording of days away, days of restricted work, or transfer to another job. Also, new rules for counting that rely on calendar days instead of workdays are included. (§1904.7(b)(3))

Employers are no longer required to count days away or days of restriction beyond 180 days. (§1904.7(b)(3))

The day on which the injury or illness occurs is not counted as a day away from work or a day of restricted work. (§1904.7(b)(3) and §1904.7(b)(4))

Annual Summary

Employers must review the 300 Log information before it is summarized on the 300A form. (§1904.32(a))

The new rule includes hours worked data to make it easier for employers to calculate incidence rates. (§1904.32(b)(2))

A company executive is required to certify the accuracy of the summary. (§1904.32(b)(3))

The annual summary must be posted for three months instead of one. (§1904.32(b)(6))
Employee involvement

Employers are required to establish a procedure for employees to report injuries and illnesses and to tell their employees how to report. (§1904.35(a))

The new rule informs employers that the OSH Act prohibits employers from discriminating against employees who do report. (§1904.36)

Employees are allowed to access the 301 forms to review records of their own injuries and illnesses. (§1904.35(b)(2))

Employee representatives are allowed to access those parts of the OSHA 301 form relevant to workplace safety and health. (§1904.35(b)(2))

Protecting privacy
Employers are required to protect employee's privacy by withholding an individual's name on Form 300 for certain types of sensitive injuries/illnesses (e.g., sexual assaults, HIV infections, mental illnesses, etc.). (§1904.29(b)(6) to §1904.29(b)(8))

Employers are allowed to withhold descriptive information about sensitive injuries in cases where not doing so would disclose the employee's identity. (§1904.29(b)(9))

Employee representatives are given access only to the portion of Form 301 that contains information about the injury or illness, while personal information about the employee and his or her health care provider is withheld. (§1904.35(b)(2))

Employers are required to remove employees' names before providing injury and illness data to persons who do not have access rights under the rule. (§1904.29(b)(10))

Reporting information to the government

Employers must call in all fatal heart attacks occurring in the work environment. (§1904.39(b)(5))

Employers do not need to call in public street motor vehicle accidents except those in a construction work zone. (§1904.39(b)(3))

Employers do not need to call in commercial airplane, train, subway or bus accidents. (§1904.39(b)(4))

Employers must provide records to an OSHA compliance officer who requests them within 4 hours. (§1904.40(a))**(The next two pages should be used to investigate accidents, injuries and illnesses. Make a copy of the forms and retain completed forms for 5 years along with the Liability Report Form on page 36 in the manual)**

Employee Report of Accident, Injury or Illness

Instructions: Please Print. Fill in all blanks. If a blank does not pertain to your accident, injury or illness write "N/A" in that blank. When completed, return this form to your supervisor.

Name: _____

Social Security Number: _____ Sex ___Age _____

Address_____ Phone Number _____

Marital Status: ❑Single ❑Married ❑Separated ❑Divorced ❑Widowed

# of Dependents_____

Employment Start Date	Time in Present Job
Job Title	Supervisor's Name
Department	Date & Time of Accident
Location of Accident	Task being Performed
Name of Witness	Name of Witness
Describe how the accident happened	
What caused the Accident	
What could have prevented this accident	
Date & Time you first sought medical attention	
Name of Hospital or Doctor	
Were you using required safety equipment?	
Do you have a job at another company?	

The information I have provided either in my own writing or verbally for the purpose of this form is true and correct. I understand that providing false or misleading information or omission of information on this report or any other form relating to this claim of injury/accident may result in termination of my employment.

Signature of Employee: _____

Date: _____

Reader or Interpreter: _____ Date: _____

Signature of Witness: _____

Supervisor's Report of Accident

Supervisor's Name: _____

Basic Rules for Accident Investigation

- Find the cause to prevent future accidents - Use an unbiased approach during investigation
- Interview witnesses & injured employees at the scene - conduct a walkthrough of the accident
- Conduct interviews in private - Interview one witness at a time.
- Get signed statements from all involved.
- Take photos or make a sketch of the accident scene.
- What hazards are present - what unsafe acts contributed to accident
- Ensure hazardous conditions are corrected immediately.

Date & Time		**Location**	
Tasks performed		**Witnesses**	
Resulted in	**__ Injury __ Fatality** **__Property Damage**	**Property Damage**	
Injured		**Injured**	
Describe Accident Facts & Events			

Supervisor's Root Cause Analysis	*Check ALL that apply to this accident*		
Unsafe Acts		**Unsafe Conditions**	
Improper work technique		Poor Workstation design	
Safety rule violation		Unsafe Operation Method	
Improper PPE or PPE not used		Improper Maintenance	
Operating without authority		Lack of direct supervision	
Failure to warn or secure		Insufficient Training	
Operating at improper speeds		Lack of experience	
By-passing safety devices		Insufficient knowledge of job	
Protective equipment not in use		Slippery conditions	
Improper loading or placement		Excessive noise	
Improper lifting		Inadequate guarding of hazards	
Servicing machinery in motion		Defective tools/equipment	
Horseplay		Poor housekeeping	
Drug or alcohol use		Insufficient lighting	
Unsafe Acts require a written warning and re-training <u>before</u> the Employee resumes work			
Date		**Date**	
Re-Training Assigned		Unsafe Condition Guarded	
Re-Training Completed		Unsafe Condition Corrected	
Supervisor Signature		**Supervisor Signature**	

Accident Report Review

Supervisor _____ Date _____

Department Superintendent _____ Date _____

Safety Manager _____ Date _____

Plant Manager _____ Date _____

Self-Inspection Checklists

I didn't want to put this in the Safety and Health Program manual, because most of these items aren't "generic" and compatible to *every* kind of company or organization. These checklists are by no means all-inclusive. You should incorporate any of the following checklist items that pertain to your business into the "Inspection Checklist" part of your manual (that begins on page 14), or put them as an Addendum at the end of the manual.

You should also to refer to OSHA standards that may apply to your situation (pages 47 and 48 in the S & H Manual and on the attached "OSHA Recordkeeping Requirements" pages that follow). I suggest you visit the web site at **www.OSHA.gov** and enter the search words **OSHA Standards**. Copy whatever you need from there (to comply) and add it to this manual as an Addendum.

SAFETY AND HEALTH PROGRAM

Do you have an active safety and health program in operation that deals with general safety and health program elements as well as management of hazards specific to your work site?
Is one person clearly responsible for the overall activities of the safety and health program?
Do you have a safety committee or group made up of management and labor representatives that meets regularly and reports in writing on its activities?
Do you have a working procedure for handling in-house employee complaints regarding safety and health?
Are you keeping your employees advised of the successful effort and accomplishments you and/or your safety committee have made in assuring they will have a workplace that is safe and healthful?
Have you considered incentives for employees or workgroups who have excelled in reducing workplace injuries/illnesses?

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Are employers assessing the workplace to determine if hazards that require the use of personal protective equipment (for example, head, eye, face, hand, or foot protection) are present or are likely to be present?
If hazards or the likelihood of hazards are found, are employers selecting and having affected employees use properly fitted personal protective equipment suitable for protection from these hazards?
Has the employer been trained on ppe procedures, that is, what ppe is necessary for a job task, when they need it, and how to properly adjust it?

PERSONAL PROTECTIVE EQUIPMENT (continued)

Are protective goggles or face shields provided and worn where there is any danger of flying particles or corrosive materials?
Are approved safety glasses required to be worn at all times in areas where there is a risk of eye injuries such as punctures, abrasions, contusions or burns?
Are employees who need corrective lenses (glasses or contacts) in working environments having harmful exposures, required to wear only approved safety glasses, protective goggles, or use other medically approved precautionary procedures?
Are protective gloves, aprons, shields, or other means provided and required where employees could be cut or where there is reasonably anticipated exposure to corrosive liquids, chemicals, blood, or other potentially infectious materials?
Are hard hats provided and worn where danger of falling objects exists?
Are hard hats inspected periodically for damage to the shell and suspension system?
Is appropriate foot protection required where there is the risk of foot injuries from hot, corrosive, or poisonous substances, falling objects, crushing or penetrating actions?
Are approved respirators provided for regular or emergency use where needed?
Is all protective equipment maintained in a sanitary condition and ready for use?
Do you have eye wash facilities and a quick drench shower within the work area where employees are exposed to injurious corrosive materials?
Where special equipment is needed for electrical workers, is it available?
Where food or beverages are consumed on the premises, are they consumed in areas where there is no exposure to toxic material, blood, or other potentially infectious materials?
Is protection against the effects of occupational noise exposure provided when sound levels exceed those of the OSHA noise standard?
Are adequate work procedures, protective clothing and equipment provided and used when cleaning up spilled toxic or otherwise hazardous materials or liquids?
Are there appropriate procedures in place for disposing of or decontaminating personal protective equipment that may be contaminated with blood or other potentially infectious materials?

FLAMMABLE AND COMBUSTIBLE MATERIALS

Are combustible scraps, debris, and waste materials (oily rags, etc.) stored in covered metal receptacles and removed from the work site promptly?
Is proper storage practiced to minimize the risk of fire including spontaneous combustion?
Are approved containers and tanks used for the storage and handling of flammable and combustible liquids?

FLAMMABLE AND COMBUSTIBLE MATERIALS (continued)

Are all connections on drums and combustible liquid piping, vapor and liquid tight?
Are all flammable liquids kept in closed containers when not in use (for example, parts cleaning tanks, pans, etc.)?
Are bulk drums of flammable liquids grounded and bonded to containers during dispensing?
Do storage rooms for flammable and combustible liquids have explosion-proof lights?
Do storage rooms for flammable and combustible liquids have mechanical or gravity ventilation?
Is liquefied petroleum gas stored, handled, and used in accordance with safe practices and standards?
Are "NO SMOKING" signs posted on liquefied petroleum gas tanks?
Are liquefied petroleum storage tanks guarded to prevent damage from vehicles?
Are all solvent wastes and flammable liquids kept in fire-resistant, covered containers until they are removed from the work site?
Is vacuuming used whenever possible rather than blowing or sweeping combustible dust?
Are firm separators placed between containers of combustibles or flammables, when stacked one upon another, to assure their support and stability?
Are fuel gas cylinders and oxygen cylinders separated by distance, and fire-resistant barriers, while in storage?
Are fire extinguishers selected and provided for the types of materials in areas where they are to be used? Class A Ordinary combustible material fires. Class B Flammable liquid, gas or grease fires. Class C Energized-electrical equipment fires.
Are appropriate fire extinguishers mounted within 75 feet of outside areas containing flammable liquids, and within 10 feet of any inside storage area for such materials?
Are extinguishers free from obstructions or blockage?
Are all extinguishers serviced, maintained and tagged at intervals not to exceed 1 year?
Are all extinguishers fully charged and in their designated places?
Where sprinkler systems are permanently installed, are the nozzle heads so directed or arranged that water will not be sprayed into operating electrical switchboards and equipment?
Are "NO SMOKING" signs posted where appropriate in areas where flammable or combustible materials are used or stored?
Are safety cans used for dispensing flammable or combustible liquids at a point of use?
Are all spills of flammable or combustible liquids cleaned up promptly?
Are storage tanks adequately vented to prevent the development of excessive vacuum or pressure as a result of filling, emptying, or atmosphere temperature changes?

FLAMMABLE AND COMBUSTIBLE MATERIALS (continued)

Are storage tanks equipped with emergency venting that will relieve excessive internal pressure caused by fire exposure?
Are "NO SMOKING" rules enforced in areas involving storage and use of hazardous materials?

HAND AND PORTABLE POWERED TOOLS
Hand Tools and Equipment

Are all tools and equipment (both Company and employee owned) used by employees in good condition?
Are hand tools such as chisels and punches, which develop mushroomed heads during use, reconditioned or replaced as necessary?
Are broken or fractured handles on hammers, axes and similar equipment replaced promptly?
Are worn or bent wrenches replaced regularly?
Are appropriate handles used on files and similar tools?
Are employees made aware of the hazards caused by faulty or improperly used hand tools?
Are appropriate safety glasses, face shields, etc. used while using hand tools or equipment which might produce flying materials or be subject to breakage?
Are jacks checked periodically to ensure they are in good operating condition?
Are tool handles wedged tightly in the head of all tools?
Are tool cutting edges kept sharp so the tool will move smoothly without binding or skipping?
Are tools stored in dry, secure locations where they won't be tampered with?
Is eye and face protection used when driving hardened or tempered spuds or nails?

Portable (Power Operated) Tools and Equipment

Are grinders, saws and similar equipment provided with appropriate safety guards?
Are power tools used with the correct shield, guard, or attachment, recommended by the manufacturer?
Are portable circular saws equipped with guards above and below the base shoe?
Are circular saw guards checked to assure they are not wedged up, thus leaving the lower portion of the blade unguarded?
Are rotating or moving parts of equipment guarded to prevent physical contact?

Portable (Power Operated) Tools and Equipment (continued)

Are all cord-connected, electrically operated tools and equipment effectively grounded or of the approved double insulated type?
Are effective guards in place over belts, pulleys, chains, sprockets, on equipment such as concrete mixers, and air compressors?
Are portable fans provided with full guards or screens having openings ½ inch or less?
Is hoisting equipment available and used for lifting heavy objects, and are hoist ratings and characteristics appropriate for the task?
Are ground-fault circuit interrupters provided on all temporary electrical 15 and 20-ampere circuits, used during periods of construction?
Are employees who operate powder-actuated tools trained in their use and carry a valid operator's card?
Is each powder-actuated tool stored in its own locked container when not being used?
Is a sign at least 7 inches by 10 inches with bold face type reading "POWDER-ACTUATED TOOL IN USE" conspicuously posted when the tool is being used?
Are powder-actuated tools left unloaded until they are actually ready to be used?
Are powder-actuated tools inspected for obstructions or defects each day before use?
Do powder-actuated tool operators have and use appropriate personal protective equipment such as hard hats, safety goggles, safety shoes and ear protectors?
Are pneumatic and hydraulic hoses on power operated tools checked regularly for deterioration or damage?

LOCK OUT/TAG OUT PROCEDURES

Is all machinery or equipment capable of movement, required to be de-energized or disengaged and locked-out during cleaning, servicing, adjusting or setting up operations, whenever required?
Where the power disconnecting means for equipment does not also disconnect the electrical control circuit: Are the appropriate electrical enclosures identified?
Is means provided to assure the control circuit can also be disconnected and locked-out?
Is the locking-out of control circuits in lieu of locking-out main power disconnects prohibited?
Are all equipment control valve handles provided with a means for locking-out?
Does the lockout procedure require that stored energy (mechanical, hydraulic, air, etc.) be released or blocked before equipment is locked-out for repairs?
Are appropriate employees provided with individually keyed personal safety locks?

LOCK OUT/TAG OUT PROCEDURES (continued)

Are employees required to keep personal control of their key(s) while they have safety locks in use?
Is it required that only the employee exposed to the hazard, place or remove the safety lock?
Is it required that employees check the safety of the lock-out by attempting a startup after making sure no one is exposed?
Are employees instructed to always push the control circuit stop button immediately after checking the safety of the lockout?
Is there a means provided to identify any or all employees who are working on locked-out equipment by their locks or accompanying tags?
Are a sufficient number of accident preventive signs or tags and safety padlocks provided for any reasonably foreseeable repair emergency?
When machine operations, configuration or size requires the operator to leave his or her control station to install tools or perform other operations, and that part of the machine could move if accidentally activated, is such element required to be separately locked or blocked out?
In the event that equipment or lines cannot be shut down, locked-out and tagged, is a safe job procedure established and rigidly followed?

CONFINED SPACES

Are confined spaces thoroughly emptied of any corrosive or hazardous substances, such as acids or caustics, before entry?
Are all lines to a confined space, containing inert, toxic, flammable, or corrosive materials turned off and blanked or disconnected and separated before entry?
Are all impellers, agitators, or other moving parts and equipment inside confined spaces locked-out if they present a hazard?
Is either natural or mechanical ventilation provided prior to confined space entry?
Are appropriate atmospheric tests performed to check for oxygen deficiency, toxic substances and explosive concentrations in the confined space before entry?
Is adequate illumination provided for the work to be performed in the confined space?
Is the atmosphere inside the confined space frequently tested or continuously monitored during conduct of work?
Is there an assigned safety standby employee outside of the confined space. when required, whose sole responsibility is to watch the work in progress, sound an alarm if necessary, and render assistance?

CONFINED SPACES (continued)

Is the standby employee appropriately trained and equipped to handle an emergency?
Is the standby employee or other employees prohibited from entering the confined space without lifelines and respiratory equipment if there is any question as to the cause of an emergency?
Is approved respiratory equipment required if the atmosphere inside the confined space cannot be made acceptable
Is all portable electrical equipment used inside confined spaces either grounded and insulated, or equipped with ground fault protection?
Before gas welding or burning is started in a confined space, are hoses checked for leaks, compressed gas bottles forbidden inside of the confined space, torches lighted only outside of the confined area and the confined area tested for an explosive atmosphere each time before a lighted torch is to be taken into the confined space?
If employees will be using oxygen-consuming equipment-such as salamanders, torches, and furnaces, in a confined space-is sufficient air provided to assure combustion without reducing the oxygen concentration of the atmosphere below 19.5 percent by volume?
Whenever combustion-type equipment is used in a confined space, are provisions made to ensure the exhaust gases are vented outside of the enclosure?
Is each confined space checked for decaying vegetation or animal matter, which may produce methane?
Is the confined space checked for possible industrial waste, which could contain toxic properties?
If the confined space is below the ground and near areas where motor vehicles will be operating, is it possible for vehicle exhaust or carbon monoxide to enter the space?

ELECTRICAL

Do you specify compliance with OSHA for all contract electrical work?
Are all employees required to report as soon as practicable any obvious hazard to life or property observed in connection with electrical equipment or lines?
Are employees instructed to make preliminary inspections and/or appropriate tests to determine what conditions exist before starting work on electrical equipment or lines?
When electrical equipment or lines are to be serviced, maintained or adjusted, are necessary switches opened, locked-out and tagged whenever possible?
Are portable electrical tools and equipment grounded or of the double insulated type?
Are electrical appliances such as vacuum cleaners, polishers, and vending machines grounded?

ELECTRICAL (continued)

Are ground-fault circuit interrupters installed on each temporary 15 or 20 ampere, 120 volt AC circuit at locations where construction, demolition, modifications, alterations or excavations are being performed?
Are multiple plug adapters prohibited?
Are all temporary circuits protected by suitable disconnecting switches or plug connectors at the junction with permanent wiring?
Do you have electrical installations in hazardous dust or vapor areas? If so, do they meet the National Electrical Code (NEC) for hazardous locations?
Is exposed wiring and cords with frayed or deteriorated insulation repaired or replaced promptly?
Are flexible cords and cables free of splices or taps?
Are clamps or other securing means provided on flexible cords or cables at plugs, receptacles, tools, equipment, etc., and is the cord jacket securely held in place?
Are all cord, cable and raceway connections intact and secure?
In wet or damp locations, are electrical tools and equipment appropriate for the use or location or otherwise protected?
Is the location of electrical power lines and cables (overhead, underground, under floor, other side of walls) determined before digging, drilling or similar work is begun?
Are metal measuring tapes, ropes, hand lines or similar devices with metallic thread woven into the fabric prohibited where they could come in contact with energized parts of equipment or circuit conductors?
Is the use of metal ladders prohibited in areas where the ladder or the person using the ladder could come in contact with energized parts of equipment, fixtures or circuit conductors?
Are all disconnecting switches and circuit breakers labeled to indicate their use or equipment served?
Are disconnecting means always opened before fuses are replaced?
Do all interior wiring systems include provisions for grounding metal parts of electrical raceways, equipment and enclosures?
Are all electrical raceways and enclosures securely fastened in place?
Are all energized parts of electrical circuits and equipment guarded against accidental contact by approved cabinets or enclosures?
Is sufficient access and working space provided and maintained about all electrical equipment to permit ready and safe operations and maintenance?
Are all unused openings (including conduit knockouts) in electrical enclosures and fittings closed with appropriate covers, plugs or plates?

ELECTRICAL (continued)

Are electrical enclosures such as switches, receptacles, and junction boxes, provided with tight fitting covers or plates?
Are disconnecting switches for electrical motors in excess of two horsepower, capable of opening the circuit when the motor is in a stalled condition, without exploding? (Switches must be horsepower rated equal to or in excess of the motor hp rating.)
Is low voltage protection provided in the control device of motors driving machines or equipment, which could cause probable injury from inadvertent starting?
Is each motor disconnecting switch or circuit breaker located within sight of the motor control device?
Is each motor located within sight of its controller or the controller disconnecting means capable of being locked in the open position or is a separate disconnecting means installed in the circuit within sight of the motor?
Is the controller for each motor in excess of two horsepower, rated in horsepower equal to or in excess of the rating of the motor it serves?
Are employees who regularly work on or around energized electrical equipment or lines instructed in the cardiopulmonary resuscitation (CPR) methods?
Are employees prohibited from working alone on energized lines or equipment over 600volts?

WALKING-WORKING SURFACES
General Work Environment

Is a documented, functioning housekeeping program in place?
Are all work sites clean, sanitary, and orderly?
Are work surfaces kept dry or is appropriate means taken to assure the surfaces are slip-resistant?
Are all spilled hazardous materials or liquids, including blood and other potentially infectious materials, cleaned up immediately and according to proper procedures?
Is combustible scrap, debris and waste stored safely and removed from the work site properly?
Is all regulated waste, as defined in the OSHA bloodborne pathogens standard (1910.1030), discarded according to federal, state, and local regulations?
Are accumulations of combustible dust routinely removed from elevated surfaces including the overhead structure of buildings, etc.?
Is combustible dust cleaned up with a vacuum system to prevent the dust from going into suspension?
Is metallic or conductive dust prevented from entering or accumulating on or around electrical enclosures or equipment?
Are covered metal waste cans used for oily and paint-soaked waste?

Walkways

Are aisles and passageways kept clear?
Are aisles and walkways marked as appropriate?
Are wet surfaces covered with non-slip materials?
Are holes in the floor, sidewalk or other walking surface repaired properly, covered or otherwise made safe?
Is there safe clearance for walking in aisles where motorized or mechanical handling equipment is operating?
Are materials or equipment stored in such a way that sharp projectives will not interfere with the walkway?
Are stairway handrails located between 30 and 34 inches above the leading edge of stair treads?
Do stairway handrails have at least 3 inches of clearance between the handrails and the wall or surface they are mounted on?
Where doors or gates open directly on a stairway, is there a platform provided so the swing of the door does not reduce the width of the platform to less than 21 inches?
Where stairs or stairways exit directly into any area where vehicles may be operated, are adequate barriers and warnings provided to prevent employees stepping into the path of traffic?
Do stairway landings have a dimension measured in the direction of travel, at least equal to the width of the stairway? Are changes of direction or elevation readily identifiable?
Are aisles or walkways that pass near moving or operating machinery, welding operations or similar operations arranged so employees will not be subjected to potential hazards?
Is adequate headroom provided for the entire length of any aisle or walkway?
Are standard guardrails provided wherever aisle or walkway surfaces are elevated more than 30 inches above any adjacent floor or the ground?
Are bridges provided over conveyors and similar hazards?

Elevated Surfaces

Are signs posted, when appropriate, showing the elevated surface load capacity?
Are surfaces elevated more than 30 inches above the floor or ground provided with standard guardrails?
Are all elevated surfaces (beneath which people or machinery could be exposed to falling objects) provided with standard 4-inch toeboards?
Is a permanent means of access and egress provided to elevated storage and work surfaces?
Is required headroom provided where necessary?

Elevated Surfaces (continued)

Is material on elevated surfaces piled, stacked or racked in a manner to prevent it from tipping, falling, collapsing, rolling or spreading?
Are dock boards or bridge plates used when transferring materials between docks and trucks or rail cars?
Are spilled materials cleaned up immediately?

Floor and Wall Openings

Are floor openings guarded by a cover, a guardrail, or equivalent on all sides (except at entrance to stairways or ladders)?
Are toeboards installed around the edges of permanent floor openings (where persons may pass below the opening)?
Are skylight screens of such construction and mounting that they will withstand a load of at least 200 pounds?
Is the glass in the windows, doors, glass walls, etc., which are subject to human impact, of sufficient thickness and type for the condition of use?
Are grates or similar type covers over floor openings such as floor drains of such design that foot traffic or rolling equipment will not be affected by the grate spacing?
Are unused portions of service pits and pits not actually in use either covered or protected by guardrails or equivalent?
Are manhole covers, trench covers and similar covers, plus their supports designed to carry a truck rear axle load of at least 20,000 pounds when located in roadways and subject to vehicle traffic?
Are floor or wall openings in fire resistive construction provided with doors or covers compatible with the fire rating of the structure and provided with a self-closing feature when appropriate?

Stairs and Stairways

Are standard stair rails or handrails on all stairways having four or more risers?
Are all stairways at least 22 inches wide?
Do stairs have landing platforms not less than 30 inches in the direction of travel and extend 22 inches in width at every 12 feet or less of vertical rise?
Do stairs angle no more than 50 and no less than 30 degrees?
Are step risers on stairs uniform from top to bottom?
Are steps on stairs and stairways designed or provided with a surface that renders them slip resistant?

HAZARD COMMUNICATION

Is there a list of hazardous substances used in your workplace?
Is there a written hazard communication program dealing with Material Safety Data Sheets (MSDS), labeling, and employee training?
Is each container for a hazardous substance (i.e., vats, bottles, storage tanks, etc.) labeled with product identity and a hazard warning (communication of the specific health hazards and physical hazards)?
Is there a Material Safety Data Sheet readily available for each hazardous substance used? Does this program include: An explanation of what an MSDS is and how to use and obtain one? MSDS contents for each hazardous substance or class of substances? Explanation of "Right to Know?" Identification of where an employee can see the employers written hazard communication program and where hazardous substances are present in their work areas? The physical and health hazards of substances in the work area, and specific protective measures to be used? Details of the hazard communication program, including how to use the labeling system and MSDS's?
Are employees trained in the following: How to recognize tasks that might result in occupational exposure? How to use work practice and engineering controls and personal protective equipment and to know their limitations? How to obtain information on the types selection, proper use, location, removal handling, decontamination, and disposal of personal protective equipment? Who to contact and what to do in an emergency?
Is there an employee training program for hazardous substances?

Workplace Violence

Are security cameras and mirrors placed in locations that would deter robbers or provide greater security for employees?
Are there areas in which your employees would be subject to violent acts by customers, uninvited guests or fellow employees?
Is access and freedom of movement within the workplace restricted to only those who have a legitimate reason for being there?
Have employees, supervisors, and managers been trained to recognize warning signs of potential workplace violence?

Vehicles

Do all employees who drive a Company vehicle have their driving records checked on an annual basis?
Are driver and vehicle files maintained, subject to commercial Driver's License regulations?
Is a regular maintenance program in force and documented for all Company-owned or leased vehicles?

Fire and Evacuation

Are all exits marked and operable at all times?
Have employees been trained in proper fire evacuation procedures?
Is your fire department well acquainted with your facilities, their locations and specific hazards?
Are fire extinguishers mounted in readily accessible locations and are they properly maintained?

Managing the Human Hazards

It is estimated that 85-90% of accidents are in some way created by the unsafe actions of people. This emphasizes the importance of managing the actions or behaviors of your employees in order to reduce the potential of injuries and increase safe behavior. The behaviors and lifestyles of employees will greatly influence their safety.

Simple techniques used by business owners to manage their employees' safe behaviors:

-- Observe employees as they work and identify both the safe and unsafe behaviors.

-- Focus on the things employees do that are right or safe and provide immediate and positive feedback. This will help employees recognize what is good about their performance and reinforce their behavior.

-- Those actions that are unsafe or undesired need to be brought to the employees' attention immediately. Tell them what the problem is, what the consequences could be and provide guidance on how to improve. If they fail to correct their behavior, other issues may be responsible that cause them (literacy, language, substance abuse or personal conflict). Be prepared to use outside agencies to assist you.

Managing the Human Hazards (continued)

-- Encourage employees to spot unsafe actions or conditions and to take part in correcting them. If *you* set a good example, they will realize it is important and will contribute.

-- Celebrate good safety performance by individuals and the Company. Include safety as a measure of your Company's success and, at least once a year, communicate how your Company has done in meeting the goals you have set.

What to Do in the Event of an Accident

In spite of your best intentions, an accident may occur. Part of your effort at controlling workers compensation costs should be aimed at "post-accident" cost control. The procedures you establish to handle accidents can be simple and inexpensive, and in many cases, can greatly decrease the cost of workers compensation claims.

-- Emergency numbers. All phones should be posted with emergency phone numbers. Supervisors should be trained in the procedures to follow when an injury occurs.

-- Medical facilities. Know where the nearest emergency room is located, and visit it yourself. If a clinic or doctor's office is available, make sure you have the right to direct your employees to a doctor. In some states, the employee has the right to choose his or her own doctor. Know what your state requires, and post the appropriate doctors as required.

-- First aid. Look at the number of employees, where they work and the type of injuries they might incur. Provide proper first aid supplies, and make sure someone is available who is trained and will volunteer to assist. Ask your Company doctor to recommend what supplies you need.

-- Claim notification. Quick reporting of injuries to your workers compensation carrier is the first step in controlling the cost of an accident. If possible, report the injury by phone or fax to your insurance carrier within the first hour after it occurs. Be prepared to offer the information the claim professional will need (to process the claim) and coordinate the medical services.

-- Communication. Keep in touch with the injured employee and the claim professional. The more you are in touch with both parties, the more you will be able to keep the claim under control and out of the hands of attorneys.

-- Back to work. Try to work with the employees to get them back to work as soon as possible. Work is a good environment, and if you provide a light-duty job for a temporary period of time, it can actually help reduce the time of recovery and reduce the total cost of the injury. Your claim professional and treating physician will help you consider suitable work that is within the limitations specified by the physician.

-- Investigate. If left undetermined, the causes of your injuries will continue to add cost to your operations. After an injury or near miss, take time to ask basic questions and determine the immediate and primary causes of the injury. The rule of thumb is to ask the question, "Why?" at least three times in order to get to the basic cause. Be constructive, and don't look for someone to blame. Focus on finding and removing the causes.

The Role of Management

Your role in creating a safe work environment is critical. Management cannot exclude itself from the safety rules imposed on others. Set aside funds in your budget for safety-related supplies or equipment so you will have them before an injury occurs. Leadership from management on safety issues will go a long way toward encouraging expected behaviors.

The active involvement of your employees is also important, especially in smaller businesses where time and resources are limited. Organize a safety committee or safety inspection teams- OSHA recommends it.

Safety Inspection Checklist

Inspected By: _____ Date: _____

(Mark N/A as appropriate)

1. WORK SITE INFORMATION:
   a. Posting OSHA and other work site warning posters _____
   b. Are Safety Meetings conducted periodically? When was the last meeting? _____
   c. First aid equipment properly stocked _____
   d. Are work site injury records being kept? _____
   e. Are emergency telephone numbers conspicuously posted? _____
   f. Is the EMERGENCY INFORMATION form posted? (Page 8) _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____
_____.

2. HOUSEKEEPING AND SANITATION :
   a. Are emergency lights fully operational? _____
   b. General neatness of working areas _____
   c. Regular disposal of waste and trash _____
   d. Passageways and walkways clear _____
   e. Waste containers provided and used _____
   f. Sanitary facilities adequate and clean _____
   g. Adequate supply of water _____
   h. Adequate lighting _____
   i. Trash receptacle for drinking cups _____
   j. Are handrails and stair treads in good repair? _____
   k. Is smoking restricted to certain locations? _____
   l. Are electrical cords and plugs in good condition? _____
   m. Is a clearance of 3' maintained around hot water heaters electric breaker panels, heating units, and fire sprinkler riser? _____
   n. Are electric circuit breakers free of obstructions? _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____

3. FIRE PREVENTION:
   a. Fire instruction to personnel _____
   b. Fire extinguishers identified, accessible, and fully charged _____
   c. “No Smoking” signs posted and enforced where needed _____
   d. Good housekeeping _____
   e. Storage, use and handling of flammable liquids properly done _____
   f. Fire hazards checked _____
   g. Is gasoline contained only in UL listed containers? _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____
_____.

4. HANDLING AND STORAGE OF MATERIALS:
   a. Are materials properly stored and stacked? _____
   b. Are passageways clear? _____
   c. Shelves in stockrooms in good repair and properly anchored _____
   d. Stacks on firm footing, not too high _____
   e. Are employees lifting loads correctly? _____
   f. Are materials protected from weather conditions? _____
   g. Flammable liquids not stored in areas used for exits or stairways _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____

5. HAND TOOLS:
   a. Proper tool being used for each job _____
   b. Neat storage, safe carrying _____
   c. Inspection and maintenance _____
   d. Electric tools are grounded _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____
_____.

6. PERSONAL PROTECTIVE EQUIPMENT:

a. Eye protection _____
b. Respirators and masks _____
c. Helmets, hoods, head protection _____
d. Gloves, aprons, sleeves _____
e. Hearing protection _____
f. Safety harnesses and lifelines _____
g. Shirts are to be worn _____
h. Back support belts _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____
_____.

7. HAZARDOUS MATERIALS:
   a. Is a binder containing MSDS for supplies containing hazardous chemicals available to employees before using? _____
   b. Are "Material Safety Data Sheets are Available on Request" signs posted in conspicuous locations? _____
   c. Is the hazardous waste inventory log maintained? _____
   d. Are hazardous waste storage areas inspected weekly? _____
   e. Is the hazardous material dispositioning log maintained? _____
   f. All containers clearly identified _____
   g. Proper storage practices observed _____
   h. Proper storage temperatures and protection _____
   i. Proper type and number of extinguishers nearby _____

Describe Violation – Location – Remedy Taken

_____
_____
_____
_____

Unsafe acts and/or practices observed

_____
_____
_____
_____

EMERGENCY INFORMATION

(To Be Posted)

FIRE:

Telephone Fire Department: _____

Nearest Alarm Box: _____

Crime:

Telephone Police: _____

Injury/Illness:

Avoid infection of minor injuries; always get medical attention or skilled first aid

Employees who are First Aid and/or CPR Certified

_____ _____

_____ _____

Doctor _____

Office _____ Phone _____

Residence _____ Phone _____

Hospital _____

Address _____ Phone _____

Ambulance _____

Address _____ Phone _____

In all cases of Fire, Crime, Accident, or Sickness, promptly notify:

1. Name _____ Office Phone _____
Home Phone _____

2. Name _____ Office Phone _____
Home Phone _____

Additional Numbers: _____ _____
(Alarm Company., Office Phone, etc.)
_____ _____

Hazard Identification and Communication

The purpose of this notice is to inform you that Stokes Demolition Inc. is complying with the OSHA HAZARD COMMUNICATION STANDARD, TITLE 29 CODE OF FEDERAL REGULATIONS 1910.1200, by using MSDS's, by compiling a Hazards Chemicals List, by insuring that containers are labeled, and by providing each employee with training.

This program applies to all work operations in Stokes Demolition Inc. where the employee may be exposed to hazardous substances under normal working conditions or during emergency situations.

At each site, the Site Project Manager is the program coordinator, acting as the representative of Stokes Demolition Inc., who has overall responsibility for the program. The Divisional Manager will review and update the program as necessary. Copies of the written program may be obtained from the Divisional Manager.

Under this program, each employee will be informed of the contents of the Hazard Communication Standard, the hazardous properties of chemicals with which they will use, safe handling procedures, and measures to be taken to protect themselves from these chemicals. Employees will also be informed of the hazards associated with chemicals in unlabeled pipes.

List of Hazardous Chemicals

The Divisional Manager will make a list of all hazardous chemicals and related work practices used in Stokes Demolition Inc. and will update the list as necessary. This list of chemicals will be found at all locations Stokes Demolition Inc. conducts business. This list also identifies the corresponding Material Safety Data Sheet (MSDS) for each chemical. Any new hazardous chemicals received by Stokes Demolition Inc. will have an MSDS document available for inspection before any employee uses the chemical. A master list of these chemicals will be maintained by, and is available from the Divisional Manager. The **MSDS Master List** form on page 10 will be used.

Material Safety Data Sheets (MSDS's)

MSDS's provide each employee with specific information on the chemicals used. The Divisional Manager will maintain a binder with an MSDS on every substance on the list of hazardous chemicals. The MSDS will be a fully completed OSHA Form 174 or equivalent (Page 8 and 9). Stokes Demolition Inc. representative, the Divisional Manager, will insure that each site maintains an MSDS for hazardous materials in that area and will be made readily available to any employee at every work site.

MSDS Master List			
Hazardous Chemical	**Where on Site**	**Date on Site**	**Date off Site**

MSDS Responsibility

The Divisional Manager is responsible for acquiring and updating MSDS's. The Divisional Manager will contact the chemical manufacturer or vendor if additional research is necessary or if an MSDS has not been supplied with an initial shipment. The form on page 13 will be used to request hazardous information.

Labels and Other Forms of Warning

The Divisional Manager will insure that all hazardous chemicals in the work place are properly labeled and updated as necessary. Labels should list at least the chemical's identity, appropriate hazard warnings, and the name, and address of the manufacturer, importer, or other responsible party. The Divisional Manager will refer to the corresponding MSDS to assist each employee in verifying label information. Labels are required on portable containers.

Non-Routine Tasks

When employees are required to perform hazardous, non-routine tasks (e.g., cleaning tanks, entering confined spaces, etc.), a special training session will be conducted to inform them of any hazards they may encounter, and the precautions to take to reduce and avoid exposure or danger.

Training

Site Project Manager will verify with sub-contractor about training. Whenever a new chemical or hazard is introduced, additional training will be conducted to address the new hazard and protective measures to be taken.

The training plan will emphasize these components:

- Summary of the standard and this written program.
- Chemical and physical properties of hazardous materials (e.g., flash point, reactivity, etc.) and methods that can be used to detect the presence or release of chemicals (including chemicals in unlabeled pipes).
- Physical hazards of chemicals (e.g., potential for fire, explosion, etc.), health hazards, including signs and symptoms of exposure, associated with exposure to chemicals and any medical condition known to be aggravated by exposure to the chemical.

The training plan will emphasize these components (continued):

- Procedures to protect against hazards (e.g. personal protective equipment required, proper use and maintenance, work practices, methods to assure the proper use and handling techniques, and procedures for emergency response).
- Work procedures to follow to assure protection when cleaning hazardous chemical spills and leaks.
- Where MSDS's are located, how to read and interpret information on both labels and MSDS's and how employees may obtain additional hazard information.

Contractor Employees

The Divisional Manager will advise outside contractors in person of any chemical hazards that may be encountered in the normal course of their work on Stokes Demolition Inc. premises, the labeling system in use, the protective measures to be taken, and the safe handling procedures to be used. In addition, these individuals will be notified of the location of all MSDS's. Each contractor that brings chemicals onto Stokes Demolition Inc. premises must provide Stokes Demolition Inc. with the appropriate hazard information on these substances, including the labels used and the precautionary measures to be taken in working with these chemicals.

Identification of Workplace Hazards:

Periodic, scheduled inspections will occur as a routine part of Stokes Demolition Inc. business. The Divisional Manager will insure these inspections occur. The Safety Inspection Checklist (a copy of which is on pages 15 through 17) will be used for that purpose.

Employees who wish to remain anonymous may report unsafe conditions or hazards by submitting a Safety Suggestion Form (page 6) to the Divisional Manager, or their immediate supervisor, without identifying themselves.

Employees must report immediately any unsafe condition or unsafe practice. No employee will be disciplined or discharged for reporting any workplace hazard or unsafe condition. Failure to report any obvious unsafe situation may result in disciplinary action, up to and including termination.

The Divisional Manager will insure that Material Safety Data Sheets (MSDSs) are present, up to date, and accessible at the appropriate locations. In addition, the Divisional Manager will assure that employees are trained in the Hazard Communication Program before beginning work or changing job functions, and will continuously monitor the work site to assure employees follow safe work practices.

Material Safety Data Sheet Request Form

Please Print!

Company Name: _____

Date of Request: _____ **Phone: _____**

Street Address: _____ **FAX: _____**

City/ State / Zip: _____

Requestor's Name: _____

Product Description:

Full Label Name: _____

Manufacturer: _____

Vendor (if known): _____

Address: _____
_____
_____.

Telephone Number: _____

Container Size: _____

Other: _____

Material Safety Data Sheet

May be used to comply with OSHA's
Hazard Communication Standard
29 CFR 1910.1200. Standard must be consulted
for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-mandatory Form)
Form Approved OMB No. 1218-0072

Manufacturer's Name	Emergency Telephone Number
Address *(Number, Street, City, State, and ZIP Code)*	Telephone Number for Information
	Date Prepared
	Signature of Preparer *(optional)*

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL ACGIH TLV Other Limits Recommended % (optional)

_____
_____
_____
_____
_____

Section III –Physical/Chemical Characteristics

Boiling Point		Specific Gravity (H_2O = 1)	
Vapor Pressure (mm Hg.)		Melting Point	
Vapor Density (AIR = 1)		Evaporation Rate (Butyl Acetate = 1)	
Solubility in Water			
Appearance and Odor			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Extinguish Media			
Special Fire Fighting Procedures			
Unusual Fire Fighting Procedures			

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable		
Incompatability *(Materials to Avoid)*			
Hazardous Decomposition or Byproducts			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will not Occur		

Section VI – Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Injestion?
Health Hazards (Acute and Chronic)			
Carcinogencity:	NTP?	IARC Monographs?	OSHA Regulated?
Signs and Symptoms of Exposure			
Medical Conditions- Generally Aggravated by Exposure			
Emergency and First Aid Procedures			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Waste Disposal Method
Precautions to Be taken in Handling and Storing
Other Precautions

Section VIII – Control Measures

Respiratory Protection *(Specify Type)*		
Ventilation	Local Exhaust	Special
	Mechanical *(General)*	Other
Protective Gloves	Eye Protection	
Other Protective Clothing or Equipment		
Work/Hygienic Practices		

Stokes Demolition Inc.

Employee Safety

Handbook

Safety Handbook Acknowledgement

Name

Date of Hire

Signature **Date**

(Remove and retain this sheet in the Employee's Personnel File)

Table of Contents

Stokes Demolition Inc. Safety Policy

Safety and Health Requirements

Safety Hazard Citation

Accident and Incident Reporting

First Aid and Medical Treatment

Workers' Compensation

Your Safety Rights

Your Safety Responsibilities

Employee Safety Rules

General Safety Rules

Fire Safety

Hand Tool Safety

Protective Equipment

Material Handling Safety Rules

Housekeeping

Employee Safety Handbook

At Stokes Demolition Inc., our most valued resources are our employees, our customers, and the communities we serve. We are dedicated to providing a safe and healthful environment for employees and customers, protecting the public, and preserving Stokes Demolition Inc. properties and assets. Injuries can be prevented. In order to achieve an accident free workplace, an organized and effective Safety Program must be carried out company wide to make this policy work.

The Safety and Health Program will assist management and employees in controlling hazards which will minimize employee and customer injuries, damage to customer's property and damage to Stokes Demolition Inc. property.

All employees will follow this program

Please take the time to study and understand these safety policies and procedures. It is your responsibility (and ours) to make this program work. You are a valued member of the team, and we care about your safety.

Safety and Health Requirements

All employees will comply with the provisions of the OSHA Health Act of 1970. Therefore, any employee who, knowingly commits an unsafe act or creates an unsafe condition, disregards the safety policy, or is a repeated safety or health offender, will be discharged. Grounds for immediate discharge are:

1) Drinking alcohol, and/or drug abuse prior to or during working hours
2) Fighting
3) Theft
4) Willful damage to property
5) Failure to wear eye protection, hearing protection, safety helmets, etc.
6) Not using safety harness and lanyards when there is a potential for falling
7) Removing and/or making inoperative safety guards on tools and equipment
8) Removing barriers and/or guardrails and not replacing them
9) Failure to follow recognized industry practices
10) Engaging in dangerous horseplay
11) Failure to notify Stokes Demolition Inc. of a hazardous situation

<u>The following safety and accident activities will be adhered to:</u>

1) Report all injuries immediately to your supervisor
2) Notify your supervisor should you become ill while on the job
3) Inform you supervisor if you have a disability or physical handicap
4) Never move an injured or ill person, unless to prevent further injury

Minor safety violations will be documented and a copy of the below form will become part of the employee's personnel record:

Safety Hazard Citation **Date: _____**

Name of Violator:

_____

Location of Violation:

_____

Type of Violation:

_____

_____

_____

Violator's Signature:

_____

Accident and Incident Reporting

It is important that you report all accidents and incidents that result in injury, illness, or damage (however slight), to your supervisor immediately. Stokes Demolition Inc. can learn how to prevent them from occurring in the future. It is Stokes Demolition Inc. responsibility to investigate each incident, and your responsibility to report them when they occur.

First Aid and Medical Treatment

Stokes Demolition Inc. provides a First Aid Kit on the premises. It is there for your use in the treatment of minor scratches, burns, headaches, nausea, etc. Ask your supervisor to show you its location. Let your supervisor know if you need to use the First Aid Kit.

If you have a work related injury or illnesses that requires professional medical assistance notify your supervisor and let him/her know before you receive this assistance. If you fail to notify your supervisor, you may be ineligible for Worker's Compensation, benefits to pay for doctor's bills, and/or lost wages.

FIRST AID PROCEDURES AND INSTRUCTIONS

In all cases requiring emergency medical treatment, immediately call, or have a co-worker call, to request emergency medical assistance.

EMERGENCY PHONE NUMBERS

Safety and Health Manager: _____ **Poison Control:** _____

First Aid: _____ **Fire Department:** _____

Ambulance: _____ **Police:** _____

Medical Clinic: _____

Clinic Address: _____

Minor First Aid Treatment

First aid kits are stored in the _____ . If you sustain an injury or are involved in an accident requiring minor first aid treatment:

- Inform your supervisor.
- Administer first aid treatment to the injury or wound.
- If a first aid kit is used, indicate usage on the accident investigation report.
- Access to a first aid kit is not intended to be a substitute for medical attention.
- Provide details for the completion of the accident investigation report.

Non-Emergency Medical Treatment

For non-emergency work-related injuries requiring professional medical assistance, management must first authorize treatment. If you sustain an injury requiring treatment other than first aid:

- Inform your supervisor.
- Proceed to the posted medical facility. Your supervisor will assist with transportation, if necessary.
- Provide details for the completion of the accident investigation report.

Emergency Medical Treatment

If you sustain a severe injury requiring emergency treatment:

- Call for help and seek assistance from a co-worker.
- Use the emergency telephone numbers and instructions posted next to the

telephone in your work area to request assistance and transportation to the local hospital emergency room.

- Provide details for the completion of the accident investigation report.

First Aid Training

Each employee will receive training and instructions from his or her supervisor on our first aid procedures.

WOUNDS:

Minor: Cuts, lacerations, abrasions, or punctures-

- Wash the wound using soap and water; rinse it well.
- Cover the wound using clean dressing.

Major: Large, deep and bleeding

- Stop the bleeding by pressing directly on the wound, using a bandage or cloth.
- Keep pressure on the wound until medical help arrives.

BROKEN BONES:

- Do not move the victim unless it is absolutely necessary.
- If the victim must be moved, "splint" the injured area. Use a board, cardboard, or rolled newspaper as a splint.

BURNS:

Thermal (Heat)

Rinse the burned area, without scrubbing it, and immerse it in cold water; do not use ice water.

Blot dry the area and cover it using sterile gauze or a clean cloth.

Chemical

Flush the exposed area with cool water immediately for 15 to 20 minutes.

EYE INJURY:

Small particles

Do not rub your eyes.

Use the corner of a soft clean cloth to draw particles out, or hold the eyelids open and flush the eyes continuously with water.

Large or stuck particles

If a particle is stuck in the eye, do not attempt to remove it.

Cover both eyes with bandage.

Chemical

Immediately irrigate the eyes and under the eyelids, with water, for 30 minutes.

NECK AND SPINE INJURY:

If the victim appears to have injured his or her neck or spine, or is unable to move his or her arm or leg, do not attempt to move the victim unless it is absolutely necessary.

HEAT EXHAUSTION:

Loosen the victim's tight clothing.
Give the victim "sips" of cool water.
Make the victim lie down in a cooler place with the feet raised.

Workers' Compensation

Every state has a Workers' Compensation Law to provide benefits to employees for lost wages and medical bills resulting from a work related injury or illness. You are covered under Workers' Compensation. You may request Workers' Compensation benefits from your supervisor. Qualification for benefits is determined by the state, not Stokes Demolition Inc. . Your responsibilities are to keep appointments, follow all doctors' instructions on and off the job, maintain good communication with your supervisor, and to fully cooperate with all instructions you are given.

Workers' Compensation provides wages at a <u>lower pay scale</u> than what you may earn by working

Doesn't it make sense to be safe so that you don't have to be out on Workers' Compensation?

Your Safety Rights

You have several important rights concerning safety, which are protected by federal, state and local laws that you should be aware of. They are:

- The right to a safe work-place free from recognized hazards
- The right to request information on safety and health hazards in the workplace, precautions that may be taken, and procedures to be followed if an employee is injured or exposed to toxic substances.
- The right to know about the hazards associated with the chemicals you work with, and the safety procedures you need to follow to protect yourself from those hazards.
- The right to question any instruction which requires you to disobey a safety rule, which puts you or someone else in unnecessary danger of serious injury, or requires you to perform a task which you have not been trained to safely perform.
- The right of freedom from retaliation for demanding your safety rights.

Your Safety Responsibilities

You also have some important responsibilities concerning safety. These are:

- The responsibility of reporting all injuries and illnesses to your supervisor, no matter how small.
- The responsibility of always following the safety rules for every task you perform,
- The responsibility of reporting any hazards you see.
- The responsibility of helping your co-workers recognize unsafe actions or conditions they cause.
- The responsibility of asking about the safety rules you are not sure about.

Employee Safety Rules

It is impossible to list or include all safety rules for all the possible tasks you may have to do. But the following rules have been prepared to help you avoid hazards, which may cause injury while doing some of the more common tasks you may be asked to do. You should study and follow the rules provided in this booklet, and to ask your supervisor for additional rules when asked to do a task you are not familiar with, and this booklet does not cover. Failure to follow safety rules and /or safe practices will result in disciplinary action, up to and including termination.

GENERAL SAFETY RULES:

- Read and follow the safety notices and other information that is posted.
- Observe and follow all safety instructions, signs, and operation procedures.
- Help your fellow employees when they ask for assistance or when needed for their safety.
- Never participate in “horseplay”. Horseplay that results in injury is often not covered by Workers’ Compensation.
- Clean up spills immediately.
- Report all unsafe conditions, hazards, or equipment immediately. Make sure other people are warned of the problem so that they may avoid it.

- Wear personal protective equipment as required to reduce injury potential. Use gloves, safety glasses, back support belts, etc., as necessary.
- Never stand on chairs, furniture, or anything other than an approved ladder or step stool.
- Never use intoxicating beverages or controlled drugs before or during work. Prescription medication should only be used at work with your Doctor's approval.

FIRE SAFETY:

- Report all fire hazards to your supervisor immediately.
- Fire fighting equipment shall be used only for fire fighting purposes.
- Smoking is not permitted at any time in the areas where "No Smoking" signs are posted.

FIRE SAFETY (continued):

- Do not block off access to fire fighting equipment.
- Keep doors, aisles, fire escapes and stairways completely unobstructed at all times.
- In the case of a fire, your first consideration must be the safety of all persons, then attention should be directed to the protection of property.
- Change clothes immediately if they are soaked with oil, gasoline, paint thinner or any other flammable liquid.
- Know how to report a fire and how to turn on a fire alarm.
- Know the location of all fire extinguishers, and how to use them.
- Know the fire exits to be used in an emergency.

HAND TOOL SAFETY:

- Wear protective equipment necessary for the job you are performing. Discuss any required safety equipment with your supervisor as changes occur.
- Defective tools must not be used.
- Do not carry sharp hand tools in clothing.

- Check all wiring on electric hand tools for proper insulation and 3-prong plug grounding.
- **Hammers:** Use eye protection at all times!
- **Screwdrivers:** Use the right size and type of screwdriver for the job. Do not use a screwdriver as a chisel.
- **Wrenches:** In using any wrench, it is better to pull than to push. If you have to push, use your open palm. Use the proper wrench for the job.
- **Handsaws:** Saws that are sharp and rust free are less likely to bind or jump. Insure the object being cut is secured tightly to a flat surface.

PROTECTIVE EQUIPMENT:

- Approved eye protection (safety glasses with side shields, goggles, etc.) must be worn at all times when assigned any certain job classifications. It is important to check with your supervisor to assure compliance.
- Moccasins and shoes with open toes or high heels are not permitted.
- Wear protective clothing and equipment as required by your job classification to protect against hazards at hand. These include, but are not limited to, hard hats, steel toed shoes, gloves, fall safety harnesses, ear plugs, etc.

MATERIAL HANDLING SAFETY RULES:

- When lifting, lift properly. Keep the back straight, stand close to the load, and use your leg muscles to do the lifting, keeping the load close to the body. Never twist your upper body while carrying a load.
- When lifting heavy objects, utilize a two-wheeled dolly, or, ask for assistance from another employee.
- Inspect the object you are going to lift for sharp corners, nails, black widow spiders, or other things that may cause injury.
- Use gloves when handling rough or sharp materials.

HOUSEKEEPING:

- Do not place materials in aisles, stairways, or any designated path of travel.
- Stack material at a safe height so that material will not fall if bumped. Insure heavy loads have proper support, and make sure there is no overhanging or irregular stacking of material.
- Place all trash or scrap in places provided. Clean up all spills immediately.
- Report worn or broken flooring, stair treads, handrails, furniture, or other office equipment.
- Smoking is permitted only in designated areas. Use ashtrays for disposing of butts. Do not throw butts on the floor.

Personal Protective Equipment

Purpose:

To establish the policy for employees to wear Personal Protective Equipment.

Policy:

Stokes Demolition Inc. is dedicated to providing a safe and healthy workplace. All employees are expected to do their part to achieve this goal. Employees can do their part by using the proper Personal Protective Equipment (PPE) provided them.

Personal Protective Equipment will be provided, used and maintained in a sanitary and reliable condition wherever it is necessary to prevent injury. Personal Protective Equipment requirements include, but are not necessarily limited to the items below:

Protective Headwear:

Where there is the exposure of overhead danger from falling objects or from electric shock or burns, protective headwear must be worn. Protective headwear is an approved hard hat that meets the requirements of the American National Standards Institute (ANSI Z889.1-1969).

Protective headwear will be issued to the required employees. Employees are responsible for using their hard hats while working. Also, employees must notify their supervisor about a damaged or lost hardhat immediately.

Protective Eyewear:

When there is an exposure to the eyes from flying objects, glare or liquids, protective eyewear is required. Protective eyewear is an approved safety eye protector or safety goggle, which meets the standards of the American National Standards Institute (ANSI Z87.1-1968).

Protective eyewear will be issued to the required employees.

Disposable Dust Masks:

When there is the potential of exposure to airborne nuisance dust or particles, disposable dust masks are required.

Protective Gloves:

When there is an exposure to the hands, protective gloves are required. Protective gloves are construction type work gloves and chemical resistive gloves.

Construction type work gloves are required for, but not limited to, employees that have an opportunity of cutting, pinching, hitting, or burning their hands.

Chemical resistive gloves are required for, but not limited to, employees that have an opportunity of spilling hazardous chemicals or corrosive material onto their hands.

Machinery Tag Out Program

Purpose:

This policy and procedure establishes the minimum requirements for Stokes Demolition Inc. Machinery Tag Out Program. It governs lock out and/or tag out procedures to be used to verify that equipment or machines are isolated from all potentially hazardous energy. Machinery is to be locked out or tagged out before employees perform any servicing or maintenance activities where the unexpected energizing, start up or release of stored energy could cause injury.

Policy:

Procedures described apply to all electrical equipment and machinery connected to an energy source by either hard wire or other permanent connection (hydraulic lines, electrical, etc.) that is repaired, serviced, or maintained by Stokes Demolition Inc. personnel. The Machinery Tag Out Program applies to all equipment or machinery operated by mechanical, hydraulic, pneumatic, chemical, thermal, or other energy resources where the unexpected energizing could cause injury to employees or customers.

Circuit breakers disconnect switches, and other energy isolating devices used to control the flow of energy to the machine/equipment must be operated in such a manner as to shut off or "isolate" all energy to the machine.

Definitions:

Energy Source- Any source of electrical, mechanical, hydraulic, chemical, thermal, or any other energy source.

Energized- Connected to an energy source or containing residual or stored energy.

Energy Isolating Device- A mechanical device that physically prevents the transmission or release of energy (for example, circuit breaker, disconnect switch, slide gate, line valve, etc.)

Lock out- Placing a lock out device on an energy isolating device to shut down it's flow of energy.

Lock out device- A device such as a lock, either combination or key type, to hold an energy isolating device in the "safe" position and prevent energizing of a machine or equipment.

Tag out- Placing a tag or sign on an energy isolating device indicating that the equipment shall not be operated until the tag out sign is removed.

Tag out device- A prominent warning device or sign that can be attached to the energy isolating device. Tags will state the following:

DANGER-DO NOT OPERATE

Initial Training:

Employees involved in the use of this Machinery Tag Out Program must receive training in the requirements of this program upon initial assignment. The Site Project Manager is responsible for verifying that training is completed as required by this program.

Authorized employees will be trained in the recognition of hazardous energy sources present at the location they work, the type and magnitude of the energy available in the workplace, and the methods/means needed for energy isolation and control.

Employees must be trained to recognize when the Machinery Tag Out Program is being implemented and understand the purpose of the procedure and the importance of not attempting to start up or use machinery or equipment that has been locked or tagged out.

When tags are used, employees must be specifically instructed in the following limitations of tags:

- Tags are warning devices: they do not provide physical restraint that a lock out does.
- When a tag or lock is attached, it is not to be removed by anyone without authorization from the employee who placed it on the machine or equipment. They are never to be bypassed, ignored, or defaced.
- Tags must be legible and understandable to be effective.
- Tags and locks, and their means of attachment must be made of material that will withstand the working environment where the tags will be used.
- Tags and locks must be attached securely so they cannot inadvertently be detached during use.
- Tags evoke a false sense of security. They are only part of the entire Machinery Tagout Program.

Machinery Tag Out Program
Inspection Form

<u>This form will be used when inspecting the Tag Out/ Lock Out Procedure</u>

Inspector's Name _____ Date _____

MACHINERY / EQUIPMENT INSPECTED **COMMENTS**

1. _____
_____.

2. _____
_____.

3. _____
_____.

4. _____
_____.

5. _____
_____.

6. _____
_____.

7. _____
_____.

8. _____
_____.

I hereby certify that I have inspected the Lock Out/Tag Out procedure for the above listed equipment, have interviewed operators of such equipment and determined that compliance with Stokes Demolition Inc. Lock Out/Tag Out procedure is satisfactory.

_____ _____
Inspectors Signature Date

Lock and Tag Check Out / Check In Log

Date	Lock #	Employee	Equipment to be Locked	Check Out	Check In
	Tag #		or Tagged Out	Time	Time

Hazard Prevention and Control

Stokes Demolition Inc. shall undertake efforts as outlined in this section to correct or control potential hazards in a timely manner.

Stokes Demolition Inc. will implement methods to eliminate the hazard, and will implement procedures for safe work. Safe work will be done through training, correction of unsafe performance, and compliance through the disciplinary system.

Identified Safety and Health Concerns:

All identified potential workplace safety and health hazards should be reported to the Divisional Manager, or a member of management. Situations that are unsafe, or posing as a safety and health hazard, will be reviewed and reported to management for corrective action.

Newly Identified Safety and Health Concerns:

Anytime a new substance, procedure, equipment, or process is introduced into the workplace, which creates or is reported to create an unsafe condition or situation, the Divisional Manager will evaluate the substance, procedure, equipment, or process. Employees will have an opportunity to submit their recommendations and suggestions regarding new workplace hazards at any time.

Hazards Which Create a Risk of Imminent Harm:

When a hazard exists which Stokes Demolition Inc. cannot control or abate immediately without endangering employees and /or property, all exposed personnel will be removed from the immediate area of potential exposure, except those employees that are necessary to correct the hazardous condition. All employees involved in correcting the hazardous situation will receive appropriate training and/or instruction in how to do so. They will also be provided with the appropriate personal protective equipment.

Hazards Which Do Not Create a Risk of Imminent Harm:

Unless there are factors beyond Stokes Demolition Inc. reasonable control, such hazards are to be abated within 5 days or less.

Housekeeping:

Good housekeeping is an integral part of any effective safety program. Keeping work areas neat and clean reduces the potential for accidents and injuries. Each employee is responsible for keeping his or her work area neat, orderly, and free of any hazardous condition.

Liability Report Form

Date: _____

Claimant's Name: _____ Age: _____
Phone: _____
Address:_____

Description of Occurrence:
_____
_____
_____
_____
_____

Injuries: _____ Medical Care? YES NO

Ambulance? YES NO Hospital or Doctor: _____

Property Damage? YES NO Describe Same:_____
_____
_____
_____
.
Is a Product Involved? YES NO
Name and Size: _____

Name and Address of Manufacturer:_____
_____
.
Did Claimant Slip, Fall, or Trip? _____
Was Area Inspected? YES NO

Foreign Matter or Debris Found on Floor? YES NO
Describe: _____
_____
.
Witnesses: Name: _____
Phone: _____

Address: _____

Name: _____
Phone: _____

Address: _____

Photos Taken? YES NO Additional Remarks:

_____

_____

Report Prepared By:

_____

Emergency Action Plan

Purpose:

To establish the policy and procedures regarding management's and employee's response to various emergency situations. Examples of an emergency are fire, tornado, earthquake, and bomb threat.

Overview:

The procedures cover the following topics:

1. **Fire Reporting and Response**
2. **Evacuation**
3. **Tornado Preparation and Emergency**
4. **Bomb Threat**
5. **First Aid**
6. **Hazardous Material Spill**
7. **Earthquake**
8. **Robbery**

Policy:

Stokes Demolition Inc. has developed plans that address emergency situations that may arise in Stokes Demolition Inc. locations and which may threaten human health and safety, and damages Stokes Demolition Inc. assets. Management is responsible for implementing the Emergency Action Plans. These Emergency Action Plans will meet the following objectives:

1. Provide a means of notifying employees, customers and local authorities of an emergency situation.
2. Provide for a safe and orderly method of evacuation of employees and customers from Stokes Demolition Inc. premises.
3. Account for all employees who occupied Stokes Demolition Inc. premises at the time of evacuation, should one occur.

Emergency Action Plans will (continued):

4. Provide emergency first aid treatment or summon emergency medical assistance for injured individuals.
5. Provide training and needed information to those employees responsible for taking action in the event of an emergency.

Signs as required by ordinance, regulation, or law will identify emergency exits. Employees are required to be familiar with the location(s) of alarm pull stations and emergency exits.

Training on Emergency Action Plans will take place during new employee orientation, when changes occur in the action plans, and periodically as coordinated by the Site Project Manager.

Smoking is never allowed anywhere on Stokes Demolition Inc. premises during any emergency

If hazardous materials are involved, disposal must be done in compliance with federal, state, and local environmental laws.

Procedure:

I. Fire Reporting and Procedure:

If a fire alarm or alert is sounded or a fire is reported by an employee, regardless of the reason for the alarm or the severity of the fire, the following action must be taken immediately:

Site Management

1. Immediately notifies the Fire Department by dialing 911 (where applicable) or the local fire emergency number: _____ .
2. Gives Stokes Demolition Inc. name, address, and area where the fire is located.
3. Assigns an employee to wait for the fire department outside Stokes Demolition Inc. and direct them to the fire's location.
4. Announces evacuation instructions over the public address system. "Ladies and Gentlemen. Stokes Demolition Inc. is being temporarily closed. We request that you leave by the nearest exit immediately. Thank you."

I. Fire Reporting and Procedure (continued):

Site Management

5. Once outside Stokes Demolition Inc., takes a head count of employees to insure all were safely evacuated. Double checks that all individuals are out of Stokes Demolition Inc. premises.

   Note: When one or more employees are unaccounted for, employees are not to re-enter the building to conduct a search. Notify the ranking fire or other emergency response official on the scene and their approximate location.

6. Immediately after the fire, notify the Divisional Manager of Stokes Demolition Inc. and all other management individuals. Coordinate any salvage and repair operations.

Employee

7. If trained in the use of fire extinguishers, may attempt to suppress a small fire, until relieved by the Fire Department or until it becomes apparent that the fire cannot be controlled by fire extinguishers.

   Note: Employees should never attempt to control a fire, which endangers their health. They must immediately evacuate the area when it becomes apparent that the fire cannot be controlled or when conditions become more hazardous.

II. Evacuation:

Site Management

1. Telephones the local emergency agency (for example, fire, police, hazardous materials team, etc.).

2. Makes the following announcement on the public address system, "Ladies and Gentlemen. Stokes Demolition Inc. is being temporarily closed. Please leave by the nearest exit immediately. Thank you." Make this announcement twice, and repeats it every minute or more frequently if needed.

3. Checks all areas of their respective departments, restrooms, and public areas to verify that employees and individuals are evacuated.

Evacuation (continued):

Site Management

4. Secures all cash, checks, and charge documents in the safe

   if time permits.

5. Designates a safe area outside Stokes Demolition Inc. as a gathering point for all employees. Takes a head count of employees to insure all were safely evacuated.

Note: Employees are not to re-enter the building. Management will notify the ranking fire or other emergency response official on the scene of a potentially trapped person and their approximate whereabouts.

6. Dismisses all non-essential employees.

7. Notify the Divisional Manager of Stokes Demolition Inc.

II. Tornado Preparation and Emergency:

Prior to any tornado emergency, Management will designate safe shelter areas within the building for employees and individuals. There are some general guidelines that may be used to aid in the selection of such spaces. When selecting a safe shelter, consider:

- The lowest floor, preferably a basement
- Interior spaces- rooms with no walls on the exterior
- Areas supported by secure, rigid structural frame members
- Short roof spans

Stokes Demolition Inc. safe shelter area is located _____. It will be stocked with a first aid kit or medical supplies and several flashlights.

Tornado Watch Procedures

Site Management

1. A Tornado Watch means that conditions are right for severe thunderstorms and possible tornadoes to develop.

   When notified of a tornado watch in the area, Senior Management will tune the radio to the National Weather

   Service channel to stay current on the storm progress.

2. Checks to insure that all safe shelter areas are unlocked and accessible.

Tornado Watch Procedures (continued)

Site Management

3. Checks to be sure that medical supplies and flashlights are stored in the safe shelter area.

4. If time permits, "X" the windows with tape or secure plywood to the outside of windows.

Tornado Warning Procedures

Site Management

1. A Tornado Warning means a tornado has been seen or detected by radar. Site Management will inform all employees and individuals to take cover in shelter areas immediately.

2. Makes the following announcement on the P.A. System:
" Ladies and Gentlemen. The National Weather Service has issued a Tornado Warning for this area. Due to this warning, Stokes Demolition Inc. is being temporarily closed**. Please do not leave the building.** We request that you proceed to the shelter area(s) located in the **name of location(s)**"

3. Assigns someone to shut off the main gas and electrical system.

4. Afterwards, coordinates first aid assistance to individuals.

III. Bomb Threat:

When someone calls and says there is a bomb in the building, the following steps will be performed:

Employee
(Receiving Threat)

1. Keeps the caller on the line as long as possible. Asks them to repeat the message. Tries to write down every word spoken by the caller.

2. Asks the caller where the bomb is located and when it will go off.

IV. Bomb Threat (continued):

Employee

3. Tells the caller that the building is occupied and detonation of a bomb could result in the death and injury to innocent people.

4. Pays particular attention to background noises, such as music playing, engine noises, etc.

5. Listens to the voice, male, female, voice quality, accent, and speech impediments.

6. When the caller hangs up, **do not hang up the phone!** Sometimes, phones can be traced back to the source. Immediately notify management and describe the threat.

Site Management

7. Calls the local Police or Fire Department to report the Incident. Follows all recommendations and instructions provided by either department.

8. If the Police or Fire Department declines to give instructions to evacuate the building, search the premises (if time permits) for any suspicious looking device or package. If one is found, follow the Evacuation Plan. **Do not touch any suspicious device or package.**

IV. First Aid:

If an employee / individual is injured, the initial responsibility of management is to provide the needed first aid or arrange for emergency medical response or professional medical care.

Site Management

1. Treats the injured individual using the supplies from Stokes Demolition Inc. first aid kit.

2. In the event an employee is seriously injured and requires professional medical care, drive the employee to a medical provider. If any individual is not mobile or has a life threatening injury or illness, arrange for emergency care and transportation (call 911).

V. Hazardous Material Spill:

Management will respond to incidental releases of hazardous substances when the substance can be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate area or by maintenance personnel. If a large spill or fire occurs that is not controllable, Management will contact the appropriate local authorities, such as the Fire Department.

VI. Earthquake:

All employees must be aware of the potential for earthquakes and the resulting damage to buildings and facilities.

A. <u>During an Earthquake:</u>

Employee entering

1. If indoors, stay indoors; if outdoors, stay outdoors. In earthquakes, most injuries occur as people are or leaving buildings.

   1.a. If indoors:

   1) Take cover beneath a desk, table, bench or in doorways, halls or against an interior wall.

   2) Stay away from glass windows and glass doors, and away from containers having hazardous material stored.

   1.b. If outdoors:

   1) Move away from buildings and all structures, and all overhead electrical wires.

2) If operating a vehicle, stop as soon as possible, but stay inside the vehicle.

B. <u>After an Earthquake:</u>

Site Management

1. Coordinates first aid efforts.

2. Turns on the radio to get emergency information from local authorities.

B. <u>After an Earthquake (continued):</u>

Site Management

3. Check natural gas lines for leaks. If a leak is detected, shuts down the system, and notifies the local gas service company.

4. Shuts off the electrical current at the main breaker box if Power has been interrupted.

5. Directs employees and individuals to a safe assembly area outside the building.

6. Takes a head count to insure all employees were safely Evacuated.

7. Does not permit individuals to enter the building again until cleared by authorities.

8. Assigns duties to clean up damage and resume business as soon as possible.

VII. Robbery:

In the event a robbery occurs, the main objective is to reduce the risk of injury to employees and individuals and to get the robber out of the building as soon as possible.

Employee

1. Be attentive and calm. Listen to the robber and do

exactly what he/she asks you to do.

2. Do give up money as demanded.

3. Remain alert. Try to remember details of the robber's appearance, clothing, speech, etc.

4. If possible, watch the robber's method and direction of escape.

5. Expect foul/strong language. Expect to lie on the floor.

6. Do not make any sudden movements.

VII. **Robbery (continued):**

Employee

7. Don't overreact. Do not grab for the weapon or call for help.

8. Do not argue.

9. After the robbery, write everything down.

Site Management

10. Call the Police

11. Call the Divisional Manager of Stokes Demolition Inc.

12. Have all witnesses write everything they can recall.

Hazardous Material Spill Response

Purpose:

To establish the policy and procedures regarding Management and employee response and actions to a hazardous material spill or leak.

Policy:

Federal, state, and local environmental laws dictate the specific handling and disposal methods of hazardous materials. Failure to comply with these laws can be very costly as well as environmentally negligent. Stokes Demolition Inc. will fully comply with all laws and regulations pertaining to the handling and disposal methods of hazardous materials. Stokes Demolition Inc. will train all employees in the proper procedures to follow and what to do when they encounter a hazardous spill or leak.

Overview:

There are four classifications of hazardous chemicals that employees will likely come into contact with. These are:

IGNITABLES---TOXICS---CAUSTICS---REACTIVES

IGNITABLES- Ignitable products are either flammable or combustible. A spill of this nature creates two problems: one involving the potential for explosion and/or fire, and the other is the pollution of the environment. Examples are gasoline, paint thinners, petroleum solvents, alcohol, and adhesives.

TOXICS- These products are poisonous to the body and can cause illness or death. Examples are anti-freeze, paint, insecticides, fertilizer, and cleaning fluids.

CAUSTICS- A caustic is anything that burns, strongly irritates, corrodes or simply destroys the skin. Examples are acids and drain cleaners.

REACTIVES- These products react violently when mixed with other products. The most common example is dry or liquid chlorine.

Procedure:

Regardless of the nature of the spill, and before starting any cleanup activities, the employee(s) shall always secure the area around the spill. This is to include asking all other unnecessary employees and customers to move a safe distance away from the spill site. The employee(s) shall also barricade or cordon off access to the site with tape or other visual barriers as needed to keep people from wandering into the spill site. Once the area is secure, Management shall be notified of the spill, its location, and when the area is clean. Management shall also notify public officials as necessary.

Procedure:(continued)

Employee(s) that are required and directed to conduct the cleanup shall always check the warning label of an unbroken container or the Material Safety Data Sheet (MSDS) of the product involved in the spill or leak. Either the product label or the MSDS should have cleanup procedures (Section VII of the MSDS form). If not, or if time does not permit, the employee(s) shall consider the product extremely hazardous and use the following cleanup procedure:

1. Immediately shut off or eliminate all possible sources of ignition to include turning off anything that might produce a spark, flame, or friction.
2. A fire extinguisher must accompany all ignitable spill cleanups.
3. Cover the spill or leak with absorbent materials to reduce evaporation.
4. Ventilate the area as well as possible by opening doors and windows.
5. If a spill is large, a fan shall be set up at least ten feet from the person cleaning up the spill. The fan shall be behind the person cleaning up the spill to blow the hazardous vapors away from their breathing area.
6. Wear safety goggles, gloves, disposable overshoes, and respirator (as necessary) prior to cleaning up the substance.
7. Small spills (one pint or less) can be cleaned up with absorbent materials (rags, paper towels, etc.), and placed into a plastic bag. These bags will be labeled as a flammable or combustible. The label on the bag must also have the following information: (1) the name of the product in the bag, (2) the quantity of material in the bag, (3) name of manufacturer, (4) and the date of the spill. The words “Hazardous Waste” must be clearly marked on the bag.
8. After the spill area is thoroughly dry, the spill area shall be scrubbed with a mild detergent using a broom or mop.
9. Disposal shall be in accordance to guidelines of local and state regulations. The bags shall then be placed in properly labeled containers for disposal. The Project Manager shall ensure that storage and disposal shall be in accordance to guidelines of local and state regulations.
10. All efforts shall be taken to prevent hazardous material from entering sewage systems. If infiltration occurs, the fire department shall be notified.

Employee(s) in contact with the hazardous material shall be informed to recognize physical symptoms of accidental exposure (found in MSDS Section VI). They shall be told that if they develop a ***skin rash, shortness of breath, asthma or any abnormal condition, they are to see a doctor immediately for an evaluation!***

BLOODBORNE PATHOGENS

It is imperative that management photocopies these four pages and gives them to all employees during a training session. All employees shall be trained on the risk of bloodborne pathogens and the proper handling of blood and other bodily fluids.

What Everyone Needs to Know

Bloodborne pathogens are microorganisms carried by human blood (and other body fluids) and cannot be seen with the naked eye. They can be spread through contact with infected blood. If they get into the bloodstream, an individual may become infected and sick.

Most personnel cannot reasonably anticipate coming into contact with blood during their day-to-day work duties. That's why it's imperative that all personnel understand the danger of exposure to bloodborne pathogens and ways to minimize their risk.

Bloodborne pathogens may be present in blood and other materials, such as:

- body fluids containing visible blood
- semen and vaginal secretions
- torn or loose skin

Bloodborne pathogens can cause infection by entering the body through:

- open cuts and nicks
- skin abrasions
- dermatitis
- acne
- mucous membranes of the mouth, eyes or nose

WORKPLACE TRANSMISSION

The most common bloodborne pathogens are HIV, Hepatitis B, and Hepatitis C:

HIV (AIDS)

HIV, the human immuno-deficiency virus, attacks the body's immune system causing it to weaken and become vulnerable to infections that can lead to a diagnosis of acquired immune deficiency syndrome or AIDS.

HIV is transmitted mainly through sexual contact and sharing contaminated needles, but also may be spread by contact with infected blood and body fluids. HIV is NOT transmitted indirectly by touching or working around people who are HIV-positive.

WORKPLACE TRANSMISSION (continued)

HIV (AIDS)(continued):

Employees can prevent getting HIV by stopping the passage of the virus from a person who has HIV to them. In many instances, the employee has control over the activities that can transmit HIV. Since HIV is most frequently transmitted by sharing needles or through
sexual intercourse, employees can stop transmission by refusing to engage in these behaviors.

Hepatitis B

Hepatitis is a general term used to describe inflammation (swelling) of the liver. Alcohol, certain chemicals or drugs, and viruses such as hepatitis A, B, C, D, E and G may cause hepatitis.

- Hepatitis B is a serious, sometimes fatal disease, caused by a virus that infects and attacks the liver. The virus is transmitted through direct contact with infected blood, semen, or vaginal fluid. It is primarily spread through sexual contact.
- In studies that examine transmission following injections into the skin, HBV is 100 times more contagious than HIV.
- **HBV can also be transmitted indirectly because it can survive on surfaces dried and at room temperature for at least a week!** That's why contaminated surfaces are a major factor in the spread of HBV.
- Each year there are up to 200,000 new infections and 5,000 hepatitis B related deaths in the U.S. (compared to 40,000 new HIV infections per year).
- One in approximately 20 persons now has, or will one day have, hepatitis B
- Transmission of hepatitis B is preventable:
    - Use latex condoms during sex
    - Do not share needles
    - Use universal precautions in the workplace
    - Get the hepatitis B vaccination

WORKPLACE TRANSMISSION (continued)

Hepatitis C

Hepatitis is a general term used to describe inflammation (swelling) of the liver. Alcohol, certain chemicals or drugs, and viruses such as hepatitis A, B, C, D, E and G may cause hepatitis.

- Hepatitis C is a serious, often fatal disease, caused by a virus that infects and attacks the liver. HCV is more common than hepatitis B and ranks slightly below alcoholism as a cause of liver disease.
- However, HCV is not as infectious as HBV because there are generally lower levels of the hepatitis C virus in the blood than of the hepatitis B virus
- HCV is primarily transmitted through blood-to-blood contact -- most commonly through shared needles. The risk of transmitting HCV through sexual contact appears to be low, but precautions should be taken anyway. HCV cannot be transmitted by casual contact such as shaking hands or sharing bathroom facilities.
- Up to 180,000 people may become infected with HCV each year in the U.S.
- Transmission of hepatitis C is preventable:
  - Use latex condoms during sex
  - Do not share needles
  - Use universal precautions in the workplace
  - HOWEVER, unlike hepatitis B, currently there is NO VACCINE for hepatitis C. And also unlike HBV, there is no drug to prevent HCV infection after an exposure.

Guidelines for Handling Blood and Other Bodily Fluids

Many personnel are concerned that HIV may be spread through contact with blood and other body fluids when an accident occurs at work.

HIV, as noted earlier, has been found in significant concentrations in blood, semen, vaginal secretions, and breast milk. Other body fluids, such as feces, urine, vomit, nasal secretions, tears, sputum, sweat, and saliva do not transmit HIV unless they contain visible blood. However, these body fluids do contain potentially infectious germs from diseases other than AIDS. **If an individual has contact with any of these body fluids, they are at risk of infection from these germs**. It should be remembered that the risk of transmission of these germs depends on many factors, including the type of fluid contacted, the type of contact made, and the duration of the contact.

Very simply, it is good hygiene policy to treat all spills of body fluids as ***infectious*** in order to protect personnel from becoming infected with any germs and viruses. The procedures outlined below offer protection from all types of infection, and should be followed routinely.

How Should Blood and Body Fluid Spills be Handled?

Whenever possible, employees shall wear disposable, waterproof gloves when they expect to come into direct hand contact with body fluids (when treating bloody noses, handling clothes soiled by incontinence, or cleaning small spills by hand). Gloves used for this purpose shall be put in a plastic bag or lined trash can, secured, and disposed of daily. Hands should always be washed after gloves are removed, even if the gloves appear to be intact.

If an employee has unexpected contact with body fluids or if gloves are not available (for example, applying pressure to a bleeding wound), the employee shall wash their hands and other affected skin for at least 30 seconds with soap and water after the direct contact has ended. This precaution is recommended to prevent exposure to other pathogens, not just HIV. As has been discussed, blood, semen, vaginal secretions, and blood-contaminated body fluids transmit HIV. Wiping a runny nose, saliva, or vomit does not pose a risk for HIV transmission.

Handwashing

Proper handwashing requires the use of soap and warm water and vigorous washing under a stream of running water for at least 30 seconds. If hands remain visibly soiled, more washing is required. Scrubbing hands with soap will suspend easily removable soil and microorganisms, allowing them to be washed off. Running water is necessary to carry away dirt and debris. Rinse your hands under running water and dry them thoroughly with paper towels or a blow dryer. When hand-washing facilities are not available, use a waterless antiseptic cleanser, following the manufacturer's directions for use.

Disinfectants

An EPA approved germicide or a solution of 99 parts water to 1 part household bleach (or ¼ cup bleach to one gallon of water) will inactivate HIV, and should be used to clean all body fluid spills. Higher concentrations of bleach can be corrosive, and are unnecessary. Surfaces should be cleaned thoroughly prior to disinfection.

Disinfecting Hard Surfaces and Caring for Equipment

Although hard surfaces have not been found to be a means of transmitting HIV, it is good hygiene policy to clean any soiled hard surfaces thoroughly. To do this, scrub the surface to remove any soil and apply a germicide (like the bleach/water solution described above) to the equipment used. Mops should be soaked in this solution after use and rinsed thoroughly with warm water. The solution should be promptly disposed of down a drainpipe. Remove gloves and discard them in appropriate receptacles, and

wash hands as described above.

Laundry Instructions for Clothing Soiled with Body Fluids

It is important to remember that laundry has never been implicated in the transmission of HIV. To ensure safety from transmission of other germs, contaminated clothes must be laundered with soap and water to eliminate potentially infectious agents. The addition of bleach will further reduce the number of potentially infectious agents. Clothing soaked with body fluids may be washed separately from other items. Pre-soaking may be required for heavily soiled clothing. Otherwise, wash and dry as usual, following the directions provided by the manufacturer of the laundry detergent. If the material can be bleached, add ½ cup of household bleach to the wash cycle. If the material is not colorfast, add ½ cup of non-chlorine bleach to the wash cycle.

It is good hygiene to treat all bodily fluids as infectious.

Fall Protection Plan

Policy:

It is the policy of the Company to take all practical measures possible to prevent employees from being injured by falls from heights. The Company will take all necessary steps to eliminate, prevent, and control fall hazards. The Company will comply fully with the OSHA Fall Protection standard (CFR 1926, Subpart M, Fall Protection).

This policy will follow the OSHA standard for potential falls from heights of 6 feet and mores. First consideration will be given to the elimination of fall hazards. If a fall hazard cannot be eliminated, effective fall protection will be planned, implemented, and monitored to control the risks of injury due to falling.

All personnel exposed to potential falls from heights will be trained to minimize their exposures. Fall protection equipment will be provided and used by all employees. Managers will be responsible for implementation of a fall protection plan for each job site.

Fall Hazard Identification and Evaluation Responsibilities:

The Manager/foreman on each job site will be responsible for identifying fall hazards on their job site. The Manager/foreman will evaluate each situation or work procedure where employees may be exposed to a fall of 6 feet or more. The Manager/foreman will be responsible for developing a plan to eliminate the exposures, if possible, or to select the appropriate fall protection systems and/or equipment.

Examples of Situations Requiring Fall Protection:

The following are examples of situations were fall protection will be required. This listing is by no means complete, and there are many other situations where a fall of 6 feet or more is possible. It should be noted that ladders and scaffolding are not included in this list. They are covered by other OSHA standards and other requirements of our safety program.

- Wall Openings

  Any employee working near a wall opening (including those with chutes attached) where the outside bottom edge of the wall opening is 6 feet or more from a lower level, or the wall opening is less than 39 inches (1.0 meter) above the walking/working surface below, will be protected from falling by the use of a guardrail system, a safety net system, or a personal fall arrest system.

- Holes

  Personal fall arrest systems, covers, or guardrail systems shall be erected around holes (including skylights) that are more than 6 feet above lower levels.

Examples of Situations Requiring Fall Protection: (continued)

- Leading Edges

  Each employee who is constructing a leading edge 6 feet or more above lower levels shall be protected by guardrail systems, safety net systems, or personal fall arrest systems.

- Excavations

  Each employee at the edge of an excavation 6 feet or more deep shall be protected from falling by guardrail systems, fences, barricades, or covers. Where walkways are provided to permit employees to cross over excavations, guardrails are required on the walkway if it is 6 feet or more above the excavation.

- Form-work and Reinforcing Steel

  For employees, while moving vertically and/or horizontally on the vertical face of reinforcing bar (rebar) assemblies built in place, fall protection is not required when employees are moving. OSHA considers the multiple hand holds and foot holds on rebar assemblies as providing similar protection as that provided by a fixed ladder. Consequently, no fall protection is necessary while moving point to point for heights below 24 feet. An employee will be provided with fall protection when climbing or otherwise moving at a height more than 24 feet, the same as for fixed ladders.

- Hoist Areas

  Each employee in a hoist area shall be protected from falling 6 feet or more by guardrail systems or personal fall arrest systems. If guardrail systems (chain gate or guardrail) or portions thereof must be removed to facilitate hoisting operations, as during the landing of materials, and a worker must lean through the access opening or out over the edge of the access opening to receive or guide equipment and materials, that employee must be protected by a personal fall arrest system.

- Overhand Bricklaying and Related Work

  Each employee performing overhand bricklaying and related work 6 feet or more above lower levels shall be protected by guardrail systems, safety net systems, or personal fall arrest systems, or shall work in a controlled access zone. All employees reaching more than 10 inches (25 cm) below the level of a walking/working surface on which they are working shall be protected by

a guardrail system, safety net system, or personal fall arrest system.

Examples of Situations Requiring Fall Protection: (continued)

- Precast Concrete Erection and Residential Construction

  Each employee who is 6 feet or more above lower levels while erecting precast concrete members and related operations such as grouting of precast concrete members and each employee engaged in residential construction, shall be protected by guardrail systems, safety net systems, or personal fall arrest systems.

- Ramps, Runways, and Other Walkways

  Each employee using ramps, runways, and other walkways shall be protected from falling 6 feet or more by guardrail systems.

- Low-slope Roofs

  Each employee engaged in roofing activities on low-slope roofs with unprotected sides and edges 6 feet or more above lower levels shall be protected from falling by guardrail systems, safety net systems, personal fall arrest systems or a combination of a warning line system and guardrail system, warning line system and safety net system, warning line system and personal fall arrest system, or warning line system and safety monitoring system. On roofs 50 feet or less in width, the use of a safety monitoring system without a warning line system is permitted.

- Steep Roofs

  Each employee on a steep roof with unprotected sides and edges 6 feet or more above lower levels shall be protected by guardrail systems with toeboards, safety net systems, or personal fall arrest systems.

- Controlled Access Zones

  A Controlled access zone is a work area designated and clearly marked in which certain types of work (such as overhand bricklaying) may take place without the use of conventional fall protection systems—guardrail, personal arrest or safety net—to protect the employees working in the zone.

  Controlled access zones are used to keep out workers other than those authorized to enter work areas from which guardrails have been removed. Where there are no guardrails, masons are the only workers allowed in controlled access zones.

Controlled access zones, when created to limit entrance to areas where leading edge work and other operations are taking place, must be defined by a control line or by any other means that restrict access.

- Controlled Access Zones (continued)

Control lines shall consist of ropes, wires, tapes or equivalent materials, and supporting stanchions, and each must be:

- Flagged or otherwise clearly marked at not more than 6-foot intervals with a high-visibility material

- Rigged and supported in such a way that the lowest point (including sag) is not less than 39 inches from the walking/working surface and the highest point is not more than 45 inches --nor more than 50 inches when overhand bricklaying operations are being performed—from the walking/working surface

- Strong enough to sustain stress of not less than 200 lbs. Control lines shall extend along the entire length of the unprotected or leading edge and shall be approximately parallel to the unprotected or leading edge.

- Control lines will be connected on each side to a guardrail system or wall.

When control lines are used, they shall be erected not less than 6 feet nor more than 25 feet from the unprotected or leading edge, except when precast concrete members are being erected. In the latter case, the control line is to be erected not less than 6 feet nor more than 60 feet or half the length of the member being erected, whichever is less, from the leading edge.

Controlled access zones when used to determine access to areas where overhand bricklaying and related work are taking place are to be defined by a control line erected not less than 10 feet nor more than 15 feet from the working edge. Additional control lines must be erected at each end to enclose the controlled access zone. Only employees engaged in overhand bricklaying or related work are permitted in the controlled access zones.

On floors and roofs where guardrail systems are not in place prior to the

beginning of overhand bricklaying operations, controlled access zones will be enlarged as necessary to enclose all points of access, material handling areas, and storage areas.

On floors and roofs where guardrail systems are in place, but need to be removed to allow overhand bricklaying work or leading edge work to take place, only that portion of the guardrail necessary to accomplish that day's work shall be removed.

Fall Protection Systems:

When there is a potential fall of 6 feet or more, the Company will utilize one or more of the following means of providing protection:

- Guardrail Systems

  Guardrail systems must meet the following criteria. Toprails and midrails of guardrail systems must be at least one-quarter inch nominal diameter or thickness to prevent cuts and lacerations. If wire rope is used for toprails, it must be flagged at not more 6 feet intervals with a high-visibility material. Steel and plastic banding will not be used as toprails or midrails. Manila, plastic, or synthetic rope used for toprails or midrails must be inspected as frequently as necessary to ensure strength and stability.

  The top edge height of toprails, or (equivalent) guardrails must be 42 inches plus or minus 3 inches, above the walking/working level. When workers are using stilts, the top edge height of the top rail, or equivalent member, must be increased an amount equal to the height of the stilts.

  Screens, midrails, mesh, intermediate vertical members, or equivalent intermediate structural members must be installed between the top edge of the guardrail system and the walking/working surface when there are no walls or parapet walls at least 21 inches high. When midrails are used, they must be installed at a height midway between the top edge of the guardrail system and the walking/working level. When screens and mesh are used, they must extend from the top rail to the walking/working level and along the entire opening between top rail supports. Intermediate members, such as balusters, when used between posts, shall not be more than 19 inches apart.

  Other structural members, such as additional midrails and architectural panels, shall be installed so that there are no openings in the guardrail system more than 19 inches.

  The guardrail system must be capable of withstanding a force of at least 200 pounds applied within 2 inches of the top edge in any outward or downward direction. When the 200 pound test is applied in a downward direction, the top edge of the guardrail

must not deflect to a height less than 39 inches above the walking/working level.

Midrails, screens, mesh, intermediate vertical members, solid panels, and equivalent structural members shall be capable of withstanding a force of at least 150 pounds applied in any downward or outward direction at any point along the midrail or other member.

Guardrail systems shall be surfaced to protect workers from punctures or lacerations and to prevent clothing from snagging.

The ends of top rails and midrails must not overhang terminal posts, except where such overhang does not constitute a projection hazard.

- Guardrail Systems

  When guardrail systems are used at hoisting areas, a chain, gate or removable guardrail section must be placed across the access opening between guardrail sections when hoisting operations are not taking place.

  At holes, guardrail systems must be set up on all unprotected sides or edges. When holes are used for the passage of materials, the hole shall have not more than two sides with removable guardrail sections. When the hole is not in use, it must be covered or provided with guardrails along all unprotected sides or edges.

  If guardrail systems are used around holes that are used as access points (such as ladderways), gates must be used or the point of access must be offset to prevent accidental walking into the hole.

  If guardrails are used at unprotected sides or edges of ramps and runways, they must be erected on each unprotected side or edge.

Personal Fall Arrest Systems:

These consist of an anchorage, connectors, and a body belt or body harness and may include a deceleration device, lifeline, or suitable combinations. If a personal fall arrest system is used for fall protection, it must do the following:

- Limit maximum arresting force on an employee to 900 pounds when used with a body belt
- Limit maximum arresting force on an employee to 1,800 pounds when used with a body harness
- Be rigged so that an employee can neither free fall more than 6 feet nor contact any lower level
- Bring an employee to a complete stop and limit maximum deceleration

distance an employee travels to 3.5 feet

- Have sufficient strength to withstand twice the potential impact energy of an employee free falling a distance of 6 feet or the free fall distance permitted by the system, whichever is less.

The use of body belts for fall arrest is prohibited and a full body harness is be required.

Personal fall arrest systems must be inspected prior to each use for wear damage, and other deterioration. Defective components must be removed from service.

Positioning Device Systems:

These body belt or body harness systems are to be set up so that a worker can free fall no farther than 2 feet. They shall be secured to an anchorage capable of supporting a least twice the potential impact load of an employee's fall or 3,000 pounds, whichever is greater.

Safety Monitoring Systems:

When no other alternative fall protection has been implemented, the Company shall implement a safety monitoring system. The Company will appoint a competent person to monitor the safety of workers and shall ensure that the safety monitor:

- Is competent in the recognition of fall hazards;
- Is capable of warning workers of fall hazard dangers and in detecting unsafe work practices;
- Is operating on the same walking/working surfaces of the workers and can see them;
- Is close enough to work operations to communicate orally with workers and has no other duties to distract from the monitoring function.

Mechanical equipment shall not be used or stored in areas where safety monitoring systems are being used to monitor employees engaged in roofing operations on low-sloped roofs.

No worker, other than one engaged in roofing work (on low-sloped roofs) or one covered by a fall protection plan, shall be allowed in an area where an employee is being protected by a safety monitoring system.

All workers in a controlled access zone shall be instructed to promptly comply

with fall hazard warnings issued by safety monitors.

Safety Net Systems:

Safety nets must be installed as close as practicable under the walking/working surface on which employees are working and never more than 30 feet (9.1 meters) below such levels. Defective nets shall not be used. Safety nets shall be inspected at least once a week for wear, damage, and other deterioration. Safety nets shall be installed with sufficient clearance underneath to prevent contact with the surface or structure below.

Items that have fallen into safety nets including—but not restricted to, materials, scrap, equipment, and tools—must be removed as soon as possible and at least before the next work shift.

Warning Line Systems:

Warning line systems consist of ropes, wires, or chains, and supporting stanchions and are set up as follows:

- Flagged at not more than 6-foot intervals with a high-visibility material;
- Rigged and supported so that the lowest point including sag) is no less than 34 inches from the walking/working surface and its highest point is no more than 39 inches from the walking/working surface.
- Stanchions, after being rigged with warning lines, shall be capable of resisting, without tipping over, a force of at least 16 pounds applied horizontally against the stanchion, 30 inches above the walking/working surface, perpendicular to the warning line and in the direction of the floor, roof, or platform edge;
- The rope, wire, or chain shall have a minimum tensile strength of 500 pounds and after being attached to the stanchions, must support without breaking the load applied to the stanchions as prescribed above.
- Shall be attached to each stanchion in such a way that pulling on one section of the line between stanchions will not result in slack being taken up in the adjacent section before the stanchion tips over.

Warning lines shall be erected around all sides of roof work areas. When mechanical equipment is being used, the warning line shall be erected not less than 6 feet from the roof edge parallel to the direction of mechanical equipment operation, and not less than 10 feet from the roof edge perpendicular to the direction of mechanical equipment operation.

When mechanical equipment is not being used, the warning line must be erected not less than 6 feet from the roof edge.

Covers:

Covers located in roadways and vehicular aisles must be able to support at least twice the maximum axle load of the largest vehicle to which the cover might be subjected. All other covers must be able to support at least twice the weight of employees, equipment, and materials that may be imposed on the cover at any one time. To prevent accidental displacement resulting from wind, equipment, or workers' activities, all covers must be secured. All covers shall be color coded or bear the markings "HOLE" or "COVER."

Protection From Falling Objects:

When guardrail systems are used to prevent materials from falling from one level to another, any openings must be small enough to prevent passage of potential falling objects. No materials or equipment except masonry and mortar shall be stored within 6 feet of working edges. Excess mortar, broken or scattered masonry units, and all other materials and debris shall be kept clear of the working area by removal at regular intervals.

During roofing work, materials and equipment shall not be stored within 6 feet of a roof edge unless guardrails are erected at the edge, and materials piled, grouped, or stacked near a roof edge must be stable and self-supporting.

Training:

Employees will be trained in the following areas:

(a) The nature of fall hazards in the work area;

(b) The correct procedures for erecting, maintaining, disassembling, and inspecting fall protection systems;

(c) The use and operation of controlled access zones and guardrail, personal fall arrest, safety net, warning line, and safety monitoring systems;

(d) The role of each employee in the safety monitoring system when the system is in use;

(e) The limitations on the use of mechanical equipment during the performance of roofing work on low-sloped roofs;

(f) The correct procedures for equipment and materials handling and storage and the erection of overhead protection; and,

(g) The Employees' role in fall protection plans.

Safety Harness Inspection Report

JOBSITE	Date	Inspector's Name

Harness Make/ Model	MFG.'S SERIAL NUMBER	HARNESS WEBBING OR LEATHER	ALL STITCHING	RIVETS & EYELETS	D-RINGS, BUCKLES & TONGUE	BODY PAD (IF APPL.)	LANYARDS	SAFETY LATCH / HOOK	CERTIFICATION OR DATA TAG

0 = YES - OK

X = NO - REPLACE

Ensure Harness is COLOR-CODED with the appropriate tape marker

FORWARD TO SAFETY DIRECTOR AT _____

First Aid and Medical Treatment

The Company provides a First Aid Kit on the premises. It is there for employee's use in the treatment of minor scratches, burns, headaches, nausea, etc. All employees shall know the location of the First Aid Kit and shall notify their supervisor if they need to use the First Aid Kit.

If an employee has a work related injury or illnesses that requires professional medical assistance, they shall notify their supervisor and let him/her know before they receive this assistance. If they fail to notify their supervisor, they may be ineligible for Worker's Compensation, benefits to pay for doctor's bills, and/or lost wages.

_____ has a valid certificate in first aid training, and shall be
(Name of Person)
contacted to render first aid, as necessary.

The Project Manager shall inspect First Aid Kits before the kits are sent out to each job, and on a weekly basis to insure that they are filled and complete

FIRST AID PROCEDURES AND INSTRUCTIONS

In all cases requiring emergency medical treatment, immediately call, or have a co-worker call, to request emergency medical assistance.

EMERGENCY PHONE NUMBERS

Safety and Health Manager: _____ **Poison Control:** _____

First Aid: _____ **Fire Department:** _____

Ambulance: _____ **Police:** _____

Medical Clinic: _____

Clinic Address : _____

Minor First Aid Treatment

First aid kits are stored in the _____ . If an employee sustains an injury or are involved in an accident requiring minor first aid treatment, they shall:

- Inform their supervisor.
- Administer first aid treatment to the injury or wound.
- If a first aid kit is used, indicate usage on the accident investigation report.

- Access to a first aid kit is not intended to be a substitute for medical attention.
- Provide details for the completion of the accident investigation report.

Non-Emergency Medical Treatment

For non-emergency work-related injuries requiring professional medical assistance, management must first authorize treatment. If an employee sustains an injury requiring treatment other than first aid, they shall :

- Inform your supervisor.
- Proceed to the posted medical facility. Your supervisor will assist with transportation, if necessary.
- Provide details for the completion of the accident investigation report.

_____shall be used in the event an employee
(Quick Drenching/ Flushing Facility)
accidentally spills or splashes injurious chemicals or liquids on their clothing or body. Employees shall notify their supervisor if they use the Quick Drenching/Flushing Facility.

Emergency Medical Treatment

If an employee sustains a severe injury requiring emergency treatment:

- Call for help and seek assistance from a co-worker.
- Use the emergency telephone numbers and instructions posted next to the telephone in your work area to request assistance and transportation to the local hospital emergency room.
- Provide details for the completion of the accident investigation report.

First Aid Training

Each employee will receive training and instructions from his or her supervisor on the following Company first aid procedures.

First Aid Procedures

WOUNDS:

Minor: Cuts, lacerations, abrasions, or punctures-

- Wash the wound using soap and water; rinse it well.
- Cover the wound using clean dressing.

Major: Large, deep and bleeding

- Stop the bleeding by pressing directly on the wound, using a bandage or cloth.
- Keep pressure on the wound until medical help arrives.

BROKEN BONES:

- Do not move the victim unless it is absolutely necessary.
- If the victim must be moved, "splint" the injured area. Use a board, cardboard, or rolled newspaper as a splint.

BURNS:

Thermal (Heat)

Rinse the burned area, without scrubbing it, and immerse it in cold water; do not use ice water.

Blot dry the area and cover it using sterile gauze or a clean cloth.

Chemical

Flush the exposed area with cool water immediately for 15 to 20 minutes.

EYE INJURY:

Small particles

Do not rub the eyes.

Use the corner of a soft clean cloth to draw particles out, or hold the eyelids open and flush the eyes continuously with water.

Large or stuck particles

If a particle is stuck in the eye, do not attempt to remove it.

Cover both eyes with bandage.

Chemical

Immediately irrigate the eyes and under the eyelids, with water, for 30 minutes.

NECK AND SPINE INJURY:

If the victim appears to have injured his or her neck or spine, or is unable to move his or her arm or leg, do not attempt to move the victim unless it is absolutely necessary.

HEAT EXHAUSTION:

Loosen the victim's tight clothing.

Give the victim "sips" of cool water.

Make the victim lie down in a cooler place with the feet raised.

CPR (CardioPulmonary Resuscitation)

Alternative names: Rescue breathing, chest compressions - for adults; resuscitation, cardiopulmonary - for adults

Definition: CPR is a combination of rescue breathing (which provides oxygen to the victim's lungs) and chest compressions (which keep the victim's heart circulating oxygenated blood).

Considerations: CPR can be lifesaving, but it is best performed by those who have been trained in a CPR course. The procedures described here are not a substitute for CPR training.

Time is very important when dealing with an unconscious who is not breathing. Death can occur in 8 to 10 minutes and brain death begins after 4 to 6 minutes without oxygen.

Causes: Cardiopulmonary arrest is a combination of 2 life-threatening conditions: absence of breathing and no heartbeat.

Symptoms:
- No Breathing
- No pulse
- Unconsciousness

DO NOT:
- DO NOT give chest compressions if there is a heartbeat; doing so may cause the heart to stop beating.
- DO NOT move the victim's head or neck to check for breathing if a spinal injury is suspected.

Call immediately for emergency medical assistance if:
- you are not alone, have one person call the local emergency number while another person begins CPR.
- you are alone, shout for help and administer CPR.

FIRST AID:
1. Check for consciousness. Shake or tap the victim gently. See if the victim moves or makes a noise. Shout, "Are you OK?"

2. If there is no response, shout for help.

3. Position the victim on his or her back on a hard surface, keeping the back in a straight line, supporting the head and neck. Unfasten the victim's clothing if necessary to gain access to the victim's chest.
4. Kneel next to the victim's chin. Tilt the head back and lift the jaw forward to

move the tongue away from the windpipe. If a spinal injury suspected, pull the jaw forward without moving the head or neck. Don't let the victim's mouth close.

5. Place your ear close to the victim's mouth and watch for chest movement. For 5 seconds, look, listen, and feel for breathing.

6. If the victim is not breathing, begin rescue breathing. Maintain the head position, close the victim's nostrils by pinching them with your thumb and index finger, and cover the victim's mouth tightly with your mouth. Give 2 slow, full breaths, with a pause in between.

7. If the chest does not rise, reposition the head and give 2 more breaths. If the chest still doesn't rise, the victim's airway is blocked. Follow instructions for chocking

Chocking Symptoms:

- unconscious
- lack of breathing
- inability to move air into the lungs with mouth-to-mouth resuscitation

DO NOT:

- DO NOT try to grasp an object that is lodged in the victim's throat. This might push it farther down the airway. If the object is visible in the mouth, it may be removed.
- DO NOT begin the chest compressions of CPR (if heartbeat has stopped) until the airway is cleared.

FIRST AID:

1. Roll the victim onto their back on a hard surface, keeping their back in a straight line, firmly supporting their head and neck. Expose the victim's chest.

2. Open the victim's mouth with your thumb and index finger, placing your thumb over his tongue and your index finger under his chin. If the object is visible and loose, remove it.

3. Lift the victim's chin while tilting the head back to move the tongue away from the windpipe. If a spinal injuyr is suspected, pull the jaw forward without moving the head or neck. Don't let the mouth close.

4. If the victim is not breathing, begin rescue breathing. Maintain the head position, close the victim's nostrils by pinching them with your thumb and index finger, and cover the victim's mouth tightly with your mouth. Give 2 slow, full breaths, with a pause in between.

5. If the victim's chest does not rise, reposition the head and give 2 more breaths.

6. If the victim's chest still doesn't rise, begin abdominal thrusts, as follows. Kneel at the victim's feet or astride the thighs (or to the side if the victim is obese or pregnant). Place the heel of your hand in the middle of the abdomen just above the navel, well below the tip of their breastbone. (If the victim is obese or pregnant, place the heel of your hand in the middle of the victim's breastbone. Do not place your hand on the ribs or on the tip of the breastbone.) Place your other hand on top of the first hand.

7. Give 6 to 10 quick thrusts compressing the victim's chest about 2 inches, pressing your hands inward and upward. Do not press to either side. Each thrust is a separate attempt to clear the victim's airway by forcing air out through the windpipe.

8. Open the victim's mouth with your thumb and index finger. If the object is visible and loose, remove it. Observe the victim's breathing. If the infant stops breathing, begin CPR.

9. If the object is not dislodged, give 2 breaths, 6 to 10 abdominal thrusts, and then check for the object. Repeat this sequence until the object is dislodged or help arrives.

8. If the victim's chest does rise, place 2 fingers on the victim's Adam's apple. Slide your fingers into the groove between the Adam's apple and the muscle on the side of their neck to feel for a pulse for 5 to 10 seconds.

9. If the victim has a pulse, give 1 breath every 5 seconds. Check the pulse after every 12 breaths.

10. Be sure the local emergency number has been called. Have someone else make the call if possible. Continue giving breaths and checking the pulse.

11. If the victim has no pulse, begin chest compressions. Maintain the head position and place the heel of your hand 2 finger-widths above the lowest notch of the victim's breastbone (where the lower edge of the ribcage meets in the middle). Place the heel of your other hand directly over the heel of the first hand. Interlock your fingers; don't let them touch the victim's chest. Lock your elbows straight. Lean your shoulders over your hands, and firmly press down about 2 inches into the victim's chest. Repeat the compressions 15 times. Give the compressions in a smooth, rhythmic manner, keeping your hands on the victim's chest. Don't rock back and forth - push straight down. Don't pause between compressions.

12. Give the victim 2 breaths, followed by 15 chest compressions. Repeat this sequence 4 times. Count aloud as you pump in a regular rhythm. You should pump at a rate of about 80 to 100 times a minute. Count 1 and 2 and 3 and 4 and...15 and (breathe, breathe).

13. Recheck the victim's pulse for 5 to 10 seconds.

14. Repeat steps 12 and 13 until the victim's pulse resumes or help arrives. If the pulse resumes, go to step 9.

15. Once pulse and respiration resume role the person onto his side taking care to move the body as a whole unit. This is called the recovery position, but it should not be used if you suspect there might be a neck or spinal injury. Stay by the person until help arrives.

Prevention:
Be prepared and use good judgment.

CPR for Children Over 8 Years and Adults

1. Look, listen, and feel for breathing and pulse. If breathing or pulse is absent, open the airway.

2. Tilt the head back, close the nose, and give 2 full breaths. Check the pulse. If there is no pulse, or breathing, start CPR.

3. Start chest compressions:
If one person is performing CPR, do 15 chest compressions, then two full breaths. Repeat.
If two people are performing CPR, one person does 5 chest compressions, then the other gives one full breath. Repeat.
See "CPR for person over 8 years" for more detailed information.

Noise and Hearing Conservation Program

Introduction:

Evidence is well established that worker exposure to noise of sufficient intensity and duration can result in hearing damage. Noise-induced hearing loss rarely results from just one exposure; it can progress unnoticed over a period of years. Initial noise-induced hearing loss occurs at the higher frequencies where the consonant portion of speech is found, making communications difficult.

Engineering controls such as mufflers on heavy equipment exhausts or on air release valves are required where possible. If engineering solutions cannot reduce the noise, administrative controls such as increasing the distance between the noise source and the worker or rotation of jobs between workers in the high noise area should be used if possible.

Noise exposure is often not constant and is difficult to control with either engineering or administrative solutions. Hearing protection is often the only choice available.

Employees will be given the opportunity to select hearing protective devices from a variety of suitable ones provided by the Project Manager. In all cases the chosen hearing protectors shall have a Noise Reduction Ratio (NRR) high enough to reduce the noise at the ear drum to 85 dB(A) or lower.

Audiometric testing will be provided by the Company's physician to all employees with exposure to noise levels of 85 dB(A) or greater.

Area noise monitoring will be conducted by the Project Manager using a sound level meter to determine the need for personnel monitoring or engineering controls. If any work areas register levels of 85 dB(A) or greater, personnel monitoring will be conducted. Personnel monitoring is accomplished by using noise dosimeters which are worn by employees for their full work shift. The cumulative noise dose for the employee is then read at the end of their work shift.

Policy:

It is the policy of the Company to provide employees with a safe and healthful working environment. This is accomplished by utilizing facilities and equipment that have all feasible safeguards incorporated into their design. When effective engineering controls are not feasible, or when they are being initiated, administrative controls will be used when and where possible followed by the use of personal protective equipment.

The primary goal of the Company's Hearing Conservation Program is to reduce, and eventually eliminate hearing loss due to workplace noise exposures. The program includes the following elements:

a. Work environments should be surveyed to identify potentially hazardous noise levels and personnel at risk.
b. Environments that contain or equipment that produces potentially hazardous noise should, wherever it is technologically and economically feasible, be modified to reduce the noise level to acceptable levels.
c. Where engineering controls are not feasible, administrative controls and/or the use of hearing protective devices will be employed.
d. Periodic hearing testing will be conducted to monitor the effectiveness of the hearing conservation program. Early detection of temporary threshold shifts will allow further protective action to be taken before permanent hearing loss occurs.
e. Education is vital to the overall success of a hearing conservation program. An understanding by employees of the permanent nature of noise-induced hearing loss, the Company hearing conservation program, and the employee's responsibilities under the program are all essential for program effectiveness.

Responsibilities:

Project Manager-

The Project Manager is responsible for developing, implementing, and administering the Company Hearing Conservation Program. Additional responsibilities include:

1. Identification of work areas and equipment within Company facilities where noise levels equal or exceed 85 dBA.
2. Identification, through personnel monitoring, of Company employees whose noise exposure level equals or exceeds an 8-hour TWA (Time-Weighted Average) of 85 dBA. Notification of employee exposure measurements is sent to the Project Manager to be included in employees' medical files.
3. Annual remonitoring of identified at-risk employees.
4. Resurvey of work areas and equipment where noise levels exceed 85 dBA every 2 years.
5. Training of employees in the need for, proper use and care of hearing protection devices.
6. Identification of noise control measures (including engineering and administrative

controls) and recommendations.

The Project Manager is also responsible for coordinating and scheduling health and safety training courses and seminars. The Project Manager also maintains documentation of the training courses presented in accordance with the Safety Program requirements.

Supervisors-

It is the responsibility of Supervisors to ensure that all of their employees exposed to noise levels equal to or greater than 85 dBA have access to appropriate hearing protective devices in the work area. Supervisors are also responsible for enforcing the use of hearing protective devices and engineering and administrative controls in designated noise hazardous areas.

Employees-

Employees are responsible for wearing and maintaining hearing protective devices as instructed. Employees exposed to excessive levels of noise must also participate in annual training programs and the medical surveillance program which includes audiometric testing.

NOISE EVALUATION AND SURVEILLANCE PROCEDURES

Identification of Hazardous Noise Areas-

The Project Manager will identify work areas within Company facilities where noise levels equal or exceed 85 dBA. Records shall be maintained by the Project Manager and updated at least every two years to determine if any alteration in noise levels has occurred. Those areas where the noise levels are below 85 dBA will not be routinely monitored. Identification of hazardous noise areas and equipment and any subsequent noise monitoring will be conducted by the Project Manager.

Signs will be posted at the entrance to any work area where noise levels exceed 85 dBA, requiring anyone entering the area to wear proper hearing protection. Personnel who work in these areas shall have hearing protection supplied to them, shall be instructed in its proper use, and be required to wear this equipment when in these identified areas. It is the responsibility of the area supervisor to ensure that these precautions are maintained.

Equipment which produces noise levels greater than 85 dBA, or 120 dB peak sound pressure levels shall also be appropriately labeled.

Noise Measurements and Exposure Assessments

In order to effectively control noise it is necessary that the noise be accurately measured according to standard procedures and that the measurements be properly evaluated against accepted criteria. All noise monitoring will be conducted in accordance with established standard operating procedures.

The monitoring of employees for noise exposure is made up of two parts, area and personal monitoring. Area measurements are generally obtained first. If noise levels are at or above 85 dBA, personal monitoring using dosimeters is then performed. Sample data sheets will be used to record monitoring data for both area and personal noise monitoring results.

Area Measurements

In an area survey, measurements of environmental noise levels are recorded using a sound level meter to identify work areas where employees' exposures may be above hazardous levels, and where more thorough exposure monitoring may be needed. Area monitoring is conducted using a calibrated sound level meter set to the A scale, slow response. Within the area of interest, several different locations will be measured. Typical measurement locations would include:

- In the hearing zone at the employee's normal work location.
- Next to the noise source(s).
- At the entrance(s) to the work area.
- At other locations within the area where the employee might spend time working.

A rough sketch of the area will be included with the results showing the locations where the noise readings were obtained.

If the noise levels are below 85 dBA on a time-weighted average basis in the area, no further routine monitoring will be required for that area. Should any of the noise measurements equal or exceed 85 dBA, records shall be maintained as to the noise levels recorded, where they were taken, and the source(s) of the noise. These records shall be updated at least once every two years to determine if any changes have occurred that would warrant remonitoring of exposed personnel. If any of the measurements equal or exceed a noise level of 85 dBA, employees who work in or near the high noise area or equipment shall have their noise exposure determined through personnel monitoring using dosimeters.

Personnel Monitoring

Determination of the noise exposure level will be accomplished using calibrated noise dosimeters. Each employee to be monitored will have a dosimeter placed on him/her at the beginning of his/her normal work shift with the microphone placed in the “hearing zone”. The dosimeter will be worn for the full duration of the work shift while the employee performs his/her normal work routine. At the end of the work shift, the dosimeter will be removed and information printed out as soon as possible. Background information will be collected from each employee detailing job description, unusual job activities, etc., for the time period sampled. Those employees whose noise exposure equals or exceeds 85 dBA on an 8-hour TWA (Time-Weighted Average) will be referred to the Project Manager for inclusion in the Hearing Conservation Medical Surveillance Program.

Remonitoring of Hazardous Noise Areas

All areas where noise levels equal or exceed 85 dBA shall be remonitored at least every two years. Employees who work for extended periods of time (>2 hours) in the high noise areas and where their 8-hour TWA (Time-Weighted Average) equals or exceeds 85 dBA will be monitored every year to determine their personal noise exposure.

Whenever an employee exhibits a standard threshold shift, as determined by the Project Manager, the employee’s work place shall be remonitored to identify and ameliorate the cause.

Remonitoring Due to Changes

Any area with noise levels that equal or exceed 85 dBA shall also be remonitored whenever a change in production process, equipment, or controls increase the noise exposure such that additional employees are exposed to noise levels at or above 85 dBA on a time-weighted average basis. Areas where the noise levels have dropped below 85 dBA due to alterations in equipment, controls or process changes shall be eliminated from the monitoring program.

NOISE CONTROL METHODS

Engineering and Administrative Controls

The primary means of reducing or eliminating personnel exposure to hazardous noise is through the application of engineering controls. Engineering controls are defined as any modification or replacement of equipment, or related physical change at the noise source or along the transmission path that reduces the noise level at the employee’s ear. Engineering controls such as mufflers on heavy equipment exhausts or on air release valves are required where possible.

Engineering and Administrative Controls (continued)

Administrative controls are defined as changes in the work schedule or operations which reduce noise exposure. If engineering solutions cannot reduce the noise, administrative controls such as increasing the distance between the noise source and the worker or rotation of jobs between workers in the high noise area should be used if possible.

The use of engineering and administrative controls should reduce noise exposure to the point where the hazard to hearing is eliminated or at least more manageable.

Personal Protective Equipment

Hearing protective devices (ear plugs, muffs, etc.) shall be the permanent solution only when engineering or administrative controls are considered to be infeasible or cost prohibitive. Hearing protective devices are defined as any device that can be worn to reduce the level of sound entering the ear. Hearing protective devices shall be worn by all personnel when they must enter or work in an area where the operations generate noise levels of:

- Greater than 85 dBA sound levels, or
- 120 dB peak sound pressure level or greater

Types of Hearing Protective Devices Hearing protective devices include the following:

a. Insert Type Earplugs

A device designed to provide an air-tight seal with the ear canal. There are three types of insert earplugs – premolded, formable, and custom earplugs.

1. Premolded Earplugs

Premolded earplugs are pliable devices of fixed proportions. Two standard styles, single flange and triple flange, come in various sizes, and will fit most people. Personnel responsible for fitting and dispensing earplugs will train users on proper insertion, wear, and care. While premolded earplugs are reusable, they may deteriorate and should be replaced periodically.

2. Formable

Formable earplugs come in just one size. Some are made of material which, after being compressed and inserted, expands to form a seal in the ear canal. When properly inserted, they provide noise attenuation values that are similar to those from correctly fitted premolded earplugs. Individual units may procure approved formable earplugs. Supervisors must instruct

users in the proper use of these earplugs as part of the annual education program.

2. Formable Earplugs (continued)

Each earplug must be held in place while it expands enough to remain firmly seated. A set of earplugs with a cord attached is available. These earplugs may be washed and therefore are reusable, but will have to be replaced after two or three weeks or when they no longer form an airtight seal when properly inserted.

3.Custom Molded Earplugs

A small percentage of the population cannot be fitted with standard premolded or formable earplugs. Custom earplugs can be made to fit the exact size and shape of the individual's ear canal. Individuals needing custom earplugs will be referred to an audiologist.

b. Earmuffs

Earmuffs are devices worn around the ear to reduce the level of noise that reaches the ear. Their effectiveness depends on an air tight seal between the cushion and the head.

Selection of Hearing Protective Devices

Employees will be given the opportunity to select hearing protective devices from a variety of suitable ones provided by the Office of Health and Safety. In all cases the chosen hearing protectors shall have a Noise Reduction Ratio (NRR) high enough to reduce the noise at the ear drum to 85 dBA or lower.

Issuance of Hearing Protective Devices

The issuance of hearing protective devices is handled through the Project Manager. The Project Manager will issue and fit the initial hearing protective devices (foam inserts, disposables). Instruction on the proper use and care of earplugs and earmuffs will be provided whenever HPDs (hearing protective devices) are dispensed. Personnel requiring earmuffs in addition to earplugs will be informed of this requirement and educated on the importance of using proper hearing protection. The Project Manager will dispense ear muffs when necessary and will maintain a supply of disposable earplugs.

Use of Hearing Protective Devices

a. Always use and maintain HPDs as originally intended and in accordance with instructions provided.
b. Earmuff performance may be degraded by anything that compromises the cushion-to-circumaural flesh seal. This includes other pieces of personal

protective equipment such as eyewear, masks, faceshields, and helmets.

Maintenance of Hearing Protective Devices

a. Reusable earplugs, such as the triple flange or formable devices should be washed in lukewarm water using hand soap, rinsed in clean water, and dried thoroughly before use. Wet or damp earplugs should not be placed in their containers. Cleaning should be done as needed.
b. Earmuff cushions should be kept clean. The plastic or foam cushions may be cleaned in the same way as earplugs, but the inside of the muff should not get wet. When not n use, ear muffs should be placed in open air to allow moisture that may have been absorbed into the cups to evaporate.

Hearing Protection Performance Information

The maximum of sound attenuation one gets when wearing hearing protection devices is limited by human body and bone conduction mechanisms. Even though a particular device may provide outstanding values of noise attenuation the actual noise reductions may be less because of the noise surrounding the head and body bypasses the hearing protector and is transmitted through tissue and bone pathways to the inner ear.

The term “double hearing protection” is misleading. The attenuation provided from any combination earplug and earmuff is not equal to the sum of their individual attenuation values.

MEDICAL SURVEILLANCE

Notification

Upon identification of employees whose 8-hour TWA (Time-Weighted Average) equals or exceeds 85 dBA, the Project Manager will recommend to the employee’s Supervisor, in writing, of the need to enroll certain employee(s) in the Hearing Conservation Medical Surveillance Program. Information supplied to the Project Manager will include the employee(s) name, supervisor’s name, telephone number, and the noise levels recorded in the employee’s work area, including dosimetry data. It will be the responsibility of the Supervisor to enroll his/her employee in the Hearing Conservation Medical Surveillance Program.

In work locations where either through administrative or engineering controls, noise levels are found to have fallen such that the employee’s 8-hour TWA is below 85 dBA, the Project Manager shall notify the employee’s Supervisor, by memo, that the employees working in that area are no longer required to be enrolled in the Hearing Conservation Program. The final decision as to an employee’s enrollment status will be left with the Company Physician.

The results of area and personal remonitoring shall be forwarded to the Clinic upon completion of the noise surveys.

Any personnel experiencing difficulty in wearing assigned hearing protection (i.e., irritation of the canals, pain) will be advised to immediately report this to their supervisor and make arrangements to go to the Company Physician for evaluation as soon as possible.

Audiometric Testing

The Company Physician has the responsibility for administering the Audiometric Testing Program portion of the Company Hearing Conservation Program. The object of the audiometric testing program is to identify workers who are beginning to lose their hearing and to intervene before the hearing loss becomes worse. Audiometric testing will be provided to all employees with exposure to noise levels of 85 dBA or greater. Annual retesting will be performed for all personnel enrolled in the Hearing Conservation Medical Surveillance Program.

TRAINING

The training and education program will provide information about the adverse effects of noise and how to prevent noise-induced hearing loss. At a minimum, all training will cover the following topics:

a. Noise-induced hearing loss;
b. Recognizing hazardous noise;
c. Symptoms of overexposure to hazardous noise;
d. Hearing protection devices – advantages and limitations.
e. Selection, fitting, use, and maintenance of HPDs.
f. Explanation of noise measurement procedures.
g. Hearing conservation program requirements.

Employees will also be provided with copies of the OSHA noise standard (29 CFR 1910.95) and other handouts describing the Company Hearing Conservation Program.

Company employees shall be encouraged to use hearing protective devices when they are exposed to hazardous noise during activities at home; e.g., from lawn mowers, chain saws, etc.

All personnel identified for inclusion in the hearing conservation program should receive a minimum of one hour of initial instruction in the requirements of the program. Ideally this will be done when hearing protection is dispensed.

Appropriate refresher training annually thereafter and will be provided by the immediate supervisor. Supervisors will be provided annual training by the Office of Health and Safety.

Supervisors must contact the Safety Training Department to schedule training for new personnel assigned to work in noisy environments and for retraining of current personnel.

PROGRAM EVALUATION

Periodic program evaluations will be conducted to assess compliance with federal and state regulations and Company Program requirements. Both the monitoring and audiometric testing portions of the Company Hearing Conservation Program will be reviewed annually to assure its quality and effectiveness.

An evaluation of the Program, including wearer acceptance, appraisal of protection afforded, and field audits of hearing protection use and record keeping will be conducted at least annually. Items to be considered include:

a. Standard operating procedures
b. Training records and course content for supervisors and employees.
c. Maintenance of HPDs (hearing protection devices)
d. Field audits of HPD use
e. Review of recorded threshold shifts on OSHA log.

The findings of the Company Hearing Conservation Program evaluation will be documented, and this documentation will list plans to correct faults in the program and set target dates for the implementation of the plans.

RECORDKEEPING

All non-medical records (ex., work area and equipment surveys) will be maintained for a period of five years. Results of hearing tests and medical evaluations performed for hearing conservation purposes as well as noise exposure documentation shall be recorded and shall be a permanent part of an employee’s health record.

All personnel who routinely work in designated hazardous noise areas shall be identified and a current roster of such personnel shall be maintained and by the Project Manager, and updated periodically.

NOISE

Supervisors and exposed workers must become aware of and understand about the adverse effects of noise and how to prevent noise-induced hearing loss. People exposed to hazardous noise must take positive action, if progressive permanent hearing loss is to be prevented. Each exposed worker and supervisor should know the following.

A. Noise exposure may result in permanent damage to the auditory system and there is no medical or surgical treatment for this type of hearing loss. Though the use of a hearing aid may provide some benefit, normal hearing will not be restored. Many people don't realize loud sounds can cause hearing loss. Furthermore, in its initial stages, the person may not notice a problem since noise-induced hearing loss is invisible, painless, and occurs in the high frequencies. It is dangerous to ignore the temporary characteristics of noise-induced hearing loss (such as ringing or buzzing in the ears, excessive fatigue, etc.).

B. Each person should know how to recognize hazardous noise even if a noise survey has not been conducted an/or warning signs posted. Recognizing and understanding the adverse effects of off-duty noise exposures is also important. The best rule to follow is: "If you have to shout at arms length (approximately three feet) to talk face-to-face, you are probably being exposed to hazardous levels of noise."

C. Preventing noise-induced hearing loss is accomplished by reducing both the time and intensity of exposure. Reducing exposure time is accomplished by avoiding any unnecessary exposure to loud sound. Reducing intensity is usually accomplished by wearing personal hearing protection. Each person must be able to properly wear and care for the particular type of hearing protection selected. Speech communication is difficult in high intensity noise. However, most people don't realize it's easier to understand speech if hearing protection is worn in a hazardous noise environment. Hearing protection reduces the noise and the level of speech, resulting in a more favorable listening level. Hearing protection reduces the intensity of frequencies above the speech range; thus, reducing the noise and accentuating speech. People who claim wearing hearing protection makes it difficult to hear speech are probably in noise levels less than 85 dBA or have already developed a hearing loss.

D. Each person must know how to tell if they have been overexposed to loud sound. Overexposure may occur even while wearing hearing protection. Earplugs and/or earmuffs alone may not be enough protection. Each time a temporary threshold shift (TSS) occurs, a certain degree of permanent loss results. The recognizable symptoms of overexposure are described as "dullness in hearing or ringing in the ears."

Housekeeping & Material Storage

Purpose:

Attention to general cleanliness, storage and housekeeping can prevent numerous accidents. This chapter covers items not discussed in other areas and is not intended to cover all specific housekeeping requirements. Good housekeeping efforts are a part of the company fire prevention and accident prevention program.

Management and Employee Responsibility:

All Employees share the responsibility for maintaining good housekeeping practice and following the established housekeeping procedures. The Manager, Supervisors, Safety Coordinator and Safety Committee will be responsible to monitor housekeeping as part of their facility safety inspection procedures, note any hazards or areas of non-compliance, initiate clean-up procedures and provide follow-up. Management has the additional responsibility to provide disciplinary action when necessary to reinforce compliance with this program.

Smoking Policy:

Smoking is not permitted inside buildings and/or within 50 feet of material storage. This includes all offices, rest rooms, locker rooms, production floor, storage areas, coolers, etc. Smoking is permitted outside in designated areas and in the Smoking Section of authorized break areas before work, after work and during breaks. To prevent fires and keep the grounds neat and orderly, all cigarette/cigar ashes and butts are to be disposed in the provided butt cans or ash-trays only.

Department and Area Housekeeping Procedures:

Office areas are to be kept neat and orderly. The following general rules apply to prevent injuries and maintain a professional appearance.

1. All aisles, emergency exits, fire extinguishers, etc., will be kept clear (a minimum of three feet of either side) of material storage (temporary and permanent) at all times.

2. Storage areas will be maintained orderly at all times. When supplies are received, the supplies will be stored properly.

3. Spills will be cleaned-up immediately and wastes disposed of properly.

4. All waste receptacles will be lined with a plastic trash bag to avoid direct contact while handling. Custodial Employees will use rubber gloves and

compaction bar when handling wastes.

5. Keep file and desk drawers closed when not attended to avoid injuries. Open only one drawer at a time to prevent tipping of file cabinets.

6. At the end of the business day, turn off all office equipment (area heaters, lamps, coffee-maker, PCs, etc.) and lights to save energy and prevent fires. All space heaters be un-plugged at the end of the day to assure they have been turned-off.

Production areas will be kept neat and orderly, during operations and as follows:

1. All aisles, emergency exits, fire extinguishers, eye wash stations, etc., will be kept clear (a minimum of three feet in front of and to either side) of product storage, material storage, fork trucks and pallet jacks at all times.

2. Spills will be cleaned up immediately.

3. All process leaks will be reported to supervision and maintenance for immediate repair and clean-up.

4. Utility Employees will be responsible to keep aisles and work floors clear of excessive debris and waste materials during shift operation, between breaks and at shift change when necessary or directed by supervision; however, all Employees are responsible to communicate slippery floors to supervision for immediate clean-up.

5. All refuse and waste materials will be placed in the recognized waste containers for disposal.

Rest rooms, locker rooms and cafeteria are provided as a convenience for all Employees.

The following rules will apply:

1. Employees are expected to clean-up after themselves as a common courtesy to fellow Employees.

2. Flammable materials (fire works, explosives, gasoline, etc.) may not stored in lockers or brought on company property.

3. Personal food item will not be stored in lockers or cafeteria overnight.

4. All waste receptacles will be lined with a plastic trash bag to avoid direct contact while handling and Custodial Employees will use rubber gloves and compaction bar when handling wastes.

5. All refuse and waste materials will be placed in the recognized waste containers for disposal.

<u>Maintenance Areas:</u>

1. All aisles, emergency exits, fire extinguishers, etc., will be kept clear (a minimum of three feet of either side) of material storage (temporary and permanent) at all times.

2. Storage Areas will be maintained orderly at all times:

a. Pipe stock stored horizontally on racks and sorted by size

b. Metal stock stored horizontally on racks and sorted by size

c. Sheet metal stock stored vertically in racks and sorted by type

d. All fittings, etc., stored in bins on shelves and sorted by type and use

e. All flammables stored in OSHA-approved Fire Cabinets and self-closingcans where necessary

3. Spills will be cleaned-up immediately by the person responsible and wastes disposed properly.

4. All refuse and waste materials will be placed in the recognized waste containers for disposal.

Grounds:

The grounds surrounding the Company are an extension of the work place. Grounds that are kept neat and orderly show pride by the Company for Employees, customers and neighbors to enjoy.

The following general rules will apply:

1. All trash will be discarded only in the waste containers provided.

2. Park only in the designated assigned area.

3. The Maintenance Department will be responsible for grounds keeping (mowing, trimming, etc.) as needed. Maintenance will also establish procedures for ice/snow removal, when necessary, prior to operations each day.

Material Storage :

Proper storage procedures are required for dry, raw materials, finished product flammables and compressed gases storage to prevent fires, keep exits and aisles clear and avoid injuries and illnesses. General rules for material storage are as follows:

Materials and Finished Products Storage

1. Materials may not be stored any closer than 18 inches to walls or sprinkler heads. A minimum of 3 feet side clearance will be maintained around doorways and emergency exits. Passageways and aisle will be properly marked and a minimum of six feet in width. Materials, fork lifts, pallet jacks, etc., may not be stored in aisles or passageways.

2. Aisles and passageways will be kept clear of debris. All spills of materials will be immediately cleaned-up by the person responsible.

3. All platforms and racks will have maximum load capacity displayed. The weight of stored material will not exceed the rated load capacity.

Flammable Storage

1. All flammables will be stored in OSHA-approved flammable storage cabinets or stored outside (at least 50 feet from any structure)

2. Fuels, solvents and other flammables (not stored in original shipping containers) will be stored in OSHA-approved self-closing containers with flame arresters. Flammables may not be stored in open containers (open parts baths, etc.).

3. Flammable storage areas will be kept dry and well ventilated. No storage of combustible materials, open flames or exposed electrical components are permitted in the flammable storage area.

4. Flammable or combustible materials may not be stored in electrical rooms. Electrical rooms must be kept clean and dry at all times.

Compressed Gas Storage Safety

1. Gas Cylinder Shipment Receiving
2. Inspect bottle for defects & proper marking/labels
3. Ensure stamped date on bottle has not expired
4. Inspect valve assembly and adapter thread area
5. Ensure MSDS is on file or with shipment
6. Follow MSDS requirements for storage
7. Gas Cylinder Storage
8. Cylinder cap securely in place when not in use.
9. Marked with contents and if empty/full.
10. Stored up-right and secured to a stationary structure in an shaded and well ventilated area.
11. Cylinders not stored within 50 feet of exposed electrical components or combustible materials.
12. Cylinders are protected from accidental rupture.
13. Chemically reactive gases not stored within 50 feet of each other.
14. Gas Cylinder Movement

    Must be secured to a cart or cylinder trolley

Cap securely fastened

15. Gas Cylinder Usage

Compressed Gas Storage Safety (continued):

16. Inspect valve adapter threads.
17. Inspect all fasteners, hoses & regulators prior to hooking up to cylinder.
18. Use only for approved purposes.
19. Use in up-right position.
20. Fasten cylinder to structure or cart.
21. Regulators must be of same rated pressure as cylinder
22. Keep cylinder valve shut when not in use; don't depend on regulators

Ladder Safety

Purpose

Ladders present unique opportunities for unsafe acts and unsafe conditions. Employees who use ladders must be trained in proper selection, inspection, use and storage. Improper use of ladders has cause a large percentage of accidents in the workplace are of accidents. Use caution on ladders. OSHA reference: (29 CFR 1910.25, 1910.26, and 1910.27).

Hazards

Falls are the primary hazard associated with the use of ladders. Falls result from a number of unsafe acts and conditions such as:

1) Ladders being set on unstable surfaces.
2) Personnel reaching too far out to the sides.
3) Personnel standing too high to maintain balance.
4) Personnel using defective ladders (e.g., broken rails, rungs, missing hardware).

These hazards are minimized if workers adhere to proper ladder safety practices and if supervisors ensure equipment is used, inspected, and maintained in good condition. Tasks which require frequent use of ladders and involve significant climbing effort must be accomplished by workers capable of the physical exertion required under these conditions.

Procurement

Portable ladders procured for the Company shall meet the design and construction specification of OSHA 29 CFR 1910.25 for wood ladders and 29 CFR 1910.26 for metal ladders. Portable ladders constructed of reinforced plastic shall meet the specifications of ANSI A14.5-1974.

Requirements The following requirements apply to all ladders as indicated, including job-made ladders.

(1) Ladders shall be capable of supporting the following loads without failure:

(i) Each self-supporting portable ladder: At least four times the maximum intended load, except that each extra-heavy-duty type 1A metal or plastic ladder shall sustain at least 3.3 times the maximum intended load. The ability of a ladder to sustain the loads indicated in this paragraph shall be determined by applying or transmitting the

requisite load to the ladder in a downward vertical direction.

(ii) Each portable ladder that is not self-supporting: At least four times the maximum intended load, except that each extra-heavy- duty type 1A metal or plastic ladders shall sustain at least 3.3 times the maximum intended load. The ability of a ladder to sustain the loads indicated in this paragraph shall be determined by applying or transmitting the requisite load to the ladder in a downward vertical direction when the ladder is placed at an angle of 75½ degrees from the horizontal.

(iii) Each fixed ladder: At least two loads of 250 pounds (114 kg) each, concentrated between any two consecutive attachments (the number and position of additional concentrated loads of 250 pounds (114 kg) each, determined from anticipated usage of the ladder, shall also be included), plus anticipated loads caused by ice buildup, winds, rigging, and impact loads resulting from the use of ladder safety devices. Each step or rung shall be capable of supporting a single concentrated load of at least 250 pounds (114 kg) applied in the middle of the step or rung.

(2) Ladder rungs, cleats, and steps shall be parallel, level, and uniformly spaced when the ladder is in position for use.

(3)

(i) Rungs, cleats, and steps of portable ladders (except as provided below) and fixed ladders (including individual rung/step ladders) shall be spaced not less than 10 inches (25 cm) apart, nor more than 14 inches (36 cm) apart, as measured between center lines of the rungs, cleats and steps.

(ii) Rungs, cleats, and steps of step stools shall be not less than 8 inches (20 cm) apart, nor more than 12 inches (31 cm) apart, as measured between center lines of the rungs, cleats, and steps.

(iii) Rungs, cleats, and steps of the base section of extension trestle ladders shall be not less than 8 inches (20 cm) nor more than 18 inches (46 cm) apart, as measured between center lines of the rungs, cleats, and steps. The rung spacing on the extension section of the extension trestle ladder shall be not less than 6 inches (15 cm) nor more than 12 inches (31 cm), as measured between center lines of the rungs, cleats and steps.

(4)

(i) The minimum clear distance between the sides of individual-rung/step ladders and the minimum clear distance between the side rails of other fixed ladders shall be 16 inches (41 cm).

(ii) The minimum clear distance between side rails for all portable ladders shall be 11½ inches (29 cm).

(5) The rungs of individual-rung/step ladders shall be shaped such that employees' feet cannot slide off the end of the rungs.

(6)

(i) The rungs and steps of fixed metal ladders manufactured after March 15, 1991, shall be corrugated, knurled, dimpled, coated with skid-resistant material, or otherwise treated to minimize slipping.

(ii) The rungs and steps of portable metal ladders shall be corrugated, knurled, dimpled, coated with skid-resistant material, or other-wise treated to minimize slipping.

(7) Ladders shall not be tied or fastened together to provide longer sections unless they are specifically designed for such use.
(8) A metal spreader or locking device shall be provided on each stepladder to hold the front and back sections in an open position when the ladder is being used.
(9) When splicing is required to obtain a given length of side rail, the resulting side rail must be at least equivalent in strength to a one-piece side rail made of the same material.
(10) Except when portable ladders are used to gain access to fixed ladders (such as those on utility towers, billboards, and other structures where the bottom of the fixed ladder is elevated to limit access), when two or more separate ladders are used to reach an elevated work area, the ladders shall be offset with a platform or landing between the ladders.
(11) Ladder components shall be surfaced so as to prevent injury to an employee from punctures or lacerations, and to prevent snagging of clothing.
(12) Wood ladders shall not be coated with any opaque covering, except for identification or warning labels which may be placed on one face only of a side rail.
(13) The minimum perpendicular clearance between fixed ladder rungs, cleats, and steps, and any obstruction behind the ladder shall be 7 inches (18 cm), except in the case of an elevator pit ladder, for which a minimum perpendicular clearance of 4½ inches (11 cm) is required.
(14) The minimum perpendicular clearance between the center line of fixed ladder rungs, cleats, and steps, and any obstruction on the climbing side of the ladder shall be 30 inches (76 cm), except as provided in paragraph (a)(15) of this section.
(15) When unavoidable obstructions are encountered, the minimum perpendicular clearance between the centerline of fixed ladder rungs, cleats, and steps, and the obstruction on the climbing side of the ladder may be reduced to 24 inches (61 cm), provided that a deflection device is installed to guide employees around the obstruction.
(16) Through fixed ladders at their point of access/egress shall have a step-across distance of not less than 7 inches (18 cm) nor more than 12 inches (30 cm) as measured from the centerline of the steps or rungs to the nearest edge of the landing area. If the normal step-across distance exceeds 12 inches (30 cm), a landing platform shall be provided to reduce the distance to the specified limit.
(17) Fixed ladders without cages or wells shall have a clear width to the nearest permanent object of at least 15 inches (38 cm) on each side of the centerline of the ladder.
(18) Fixed ladders shall be provided with cages, wells, ladder safety devices, or self-retracting lifelines where the length of climb is less than 24 feet (7.3 m) but the top of the ladder is at a distance greater than 24 feet (7.3 m) above lower levels.
(19) Where the total length of a climb equals or exceeds 24 feet (7.3 m), fixed ladders shall be equipped with one of the following:

(i) Ladder safety devices; or

(ii) Self-retracting lifelines, and rest platforms at intervals not to exceed 150 feet (45.7 m); or

(iii) A cage or well, and multiple ladder sections, each ladder section not to exceed 50 feet (15.2 m) in length. Ladder sections shall be offset from adjacent sections, and landing platforms shall be provided at maximum intervals of 50 feet (15.2 m).

(20) Cages for fixed ladders shall conform to all of the following:

(i) Horizontal bands shall be fastened to the side rails of rail ladders, or directly to the structure, building, or equipment for individual- rung ladders;

(ii) Vertical bars shall be on the inside of the horizontal bands and shall be fastened to them;

(iii) Cages shall extend not less than 27 inches (68 cm), or more than 30 inches (76 cm) from the centerline of the step or rung (excluding the flare at the bottom of the cage), and shall not be less than 27 inches (68 cm) in width;

(iv) The inside of the cage shall be clear of projections;

(v) Horizontal bands shall be spaced not more than 4 feet (1.2 m) on center vertically;

(vi) Vertical bars shall be spaced at intervals not more than 9½ inches (24 cm) on center horizontally;

(vii) The bottom of the cage shall be at a level not less than 7 feet (2.1 m) nor more cage shall be flared not less than 4 inches (10 cm) all around within the distance between the bottom horizontal band and the next higher band;

(viii) The top of the cage shall be a minimum of 42 inches (1.1 m) above the top of the platform, or the point of access at the top of the ladder, with provision for access to the platform or other point of access.

(21) Wells for fixed ladders shall conform to all of the following:

(i) They shall completely encircle the ladder;

(ii) They shall be free of projections;

(iii) Their inside face on the climbing side of the ladder shall extend not less than 27 inches (68 cm) nor more than 30 inches (76 cm) from the centerline of the step or rung;

(iv) The inside clear width shall be at least 30 inches (76 cm);

(v) The bottom of the wall on the access side shall start at a level not less than 7 feet (2.1 m) nor more than 8 feet (2.4 m) above the point of access to the bottom of the ladder.

(22) Ladder safety devices, and related support systems, for fixed ladders shall conform to all of the following:

(i) They shall be capable of withstanding without failure a drop test consisting of an 18-inch (41 cm) drop of a 500-pound (226 kg) weight;

(ii) They shall permit the employee using the device to ascend or descend without continually having to hold, push or pull any part of the device, leaving both hands free for climbing;

(iii) They shall be activated within 2 feet (.61 m) after a fall occurs, and limit the descending velocity of an employee to 7 feet/sec. (2.1 m/sec.) or less;

(iv) The connection between the carrier or lifeline and the point of attachment to the body belt or harness shall not exceed 9 inches (23 cm) in length.

(23) The mounting of ladder safety devices for fixed ladders shall conform to the following:

(i) Mountings for rigid carriers shall be attached at each of the carrier, with intermediate mountings, as necessary, spaced along the entire length of the carrier, to provide the strength necessary to stop employees' falls.

(ii) Mountings for flexible carriers shall be attached at each end of the carrier. When the system is exposed to wind, cable guides for flexible carriers shall be installed at a minimum spacing of 25 feet (7.6 m) and maximum spacing of 40 feet (12.2 m) along the entire length of the carrier, to prevent wind damage to the system.

(iii) The design and installation of mountings and cable guides shall not reduce the design strength of the ladder.

(24) The side rails of through or side-step fixed ladders shall extend 42 inches (1.1 m) above the top of the access level or landing platform served by the ladder. For a parapet ladder, the access level shall be the roof if the parapet is cut to permit passage through the parapet; if the parapet is continuous, the access level shall be the top of the parapet.

(25) For through-fixed-ladder extensions, the steps or rungs shall be omitted from the extension and the extension of the side rails shall be flared to provide not less than 24 inches (61 cm) nor more than 30 inches (76 cm) clearance between side rails. Where ladder safety devices are provided, the maximum clearance between side rails of the extensions shall not exceed 36 inches (91 cm).

(26) For side-step fixed ladders, the side rails and the steps or rungs shall be continuous in the extension.

(27) Individual-rung/step ladders, except those used where their access openings are covered with manhole covers or hatches, shall extend at least 42 inches (1.1 m) above an access level or landing platform either by the continuation of the rung spacings as horizontal grab bars or by providing vertical grab bars that shall have the same lateral spacing as the vertical legs of the rungs.

Use of Ladders

The following requirements apply to the use of all ladders, including job-made ladders, except as otherwise indicated. The correct procedures for using ladders are as follows

(1) When portable ladders are used for access to an upper landing surface, the ladder side rails shall extend at least 3 feet (.9 m) above the upper landing surface to which the ladder is used to gain access; or, when such an extension is not possible because of the ladder's length, then the ladder shall be secured at its top to a rigid support that will not deflect, and a grasping device, such as a grabrail, shall be provided to assist employees in mounting and dismounting the ladder. In no case shall the extension be such that ladder deflection
under a load would, by itself, cause the ladder to slip off its support.

(2) Ladders shall be maintained free of oil, grease, and other slipping hazards.

(3) Ladders shall not be loaded beyond the maximum intended load for which they were built, nor beyond their manufacturer's rated capacity.
(4) Ladders shall be used only for the purpose for which they were designed.
(5)

(i) Non-self-supporting ladders shall be used at an angle such that the horizontal distance from the top support to the foot of the ladder is approximately one-quarter of the working length of the ladder (the distance along the ladder between the foot and the top support).

(ii) Wood job-made ladders with spliced side rails shall be used at an angle such that the horizontal distance is one-eighth the working length of the ladder.

(iii) Fixed ladders shall be used at a pitch no greater than 90 degrees from the horizontal, as measured to the back side of the ladder.
(6) Ladders shall be used only on stable and level surfaces unless secured to prevent accidental displacement.
(7) Ladders shall not be used on slippery surfaces unless secured or provided with slip-resistant feet to prevent accidental displacement. Slip-resistant feet shall not be used as a substitute for care in placing, lashing, or holding a ladder that is used upon slippery surfaces including, but not limited to, flat metal or concrete surfaces that are constructed so they cannot be prevented from becoming slippery.
(8) Ladders placed in any location where they can be displaced by workplace activities or traffic, such as in passageways, doorways, or driveways, shall be secured to prevent accidental displacement, or a barricade shall be used to keep the activities or traffic away from the ladder.
(9) The area around the top and bottom of ladders shall be kept clear.
(10) The top of a non-self-supporting ladder shall be placed with the two rails supported equally unless it is equipped with a single support attachment.
(11) Ladders shall not be moved, shifted, or extended while occupied.
(12) Ladders shall have nonconductive siderails if they are used where the employee or the ladder could contact exposed energized electrical equipment.
(13) The top or top step of a stepladder shall not be used as a step.
(14) Cross-bracing on the rear section of stepladders shall not be used for climbing unless
the ladders are designed and provided with steps for climbing on both front and rear sections.
(15) Ladders shall be inspected by a competent person for visible defects on a periodic basis and after any occurrence that could affect their safe use.
(16) Portable ladders with structural defects, such as, but not limited to, broken or missing rungs, cleats, or steps, broken or split rails, corroded components, or other faulty or defective components, shall either be immediately marked in a manner that readily identifies them as defective, or be tagged with "Do Not Use" or similar language, and shall be withdrawn from service until repaired.
(17) Fixed ladders with structural defects, such as, but not limited to, broken or missing rungs, cleats, or steps, broken or split rails, or corroded components, shall be withdrawn

from service until repaired. The requirement to withdraw a defective ladder from service is satisfied if the ladder is either:

(i) Immediately tagged with "Do Not Use" or similar language.

(ii) Marked in a manner that readily identifies it as defective;

(iii) Or blocked (such as with a plywood attachment that spans several rungs).

(18) Ladder repairs shall restore the ladder to a condition meeting its original design criteria, before the ladder is returned to use.

(19) Single-rail ladders shall not be used.

(20) When ascending or descending a ladder, the user shall face the ladder

(21) Employees will always maintain at least three points of contact with the ladder at all times.

(22) An employee shall not carry any object or load that could cause the employee to lose balance and fall.

Care of Ladders:

a) Handle ladders with care. Do not drop, jar or misuse them.

b) Ladders shall be stored in a manner that will provide easy access for inspection and will permit safe withdrawal for use. They shall not be stored in a manner that presents a tripping hazard not where they can fall on someone. They should be stored in a manner that will prevent sagging.

c) Lubricate metal bearings of locks, wheels, pulleys, etc., as required to keep them working.

d) Replace frayed or badly worn rope.

e) Keep safety feet and other parts in good condition to ensure they work.

f) Maintain ladders in good usable condition. Inspect ladders prior to use.

g) Ladders with defects which cannot be immediately repaired, shall be removed from service for repair or destruction, and shall be tagged with a danger tag. Do not attempt to straighten or use a bent ladder made of reinforced plastic.

h) Rungs or steps on metal ladders that are not corrugated, knurled, or dimpled will have skid-resistant materials applied.

Laser Safety

Purpose:

The purpose of this chapter is to insure the safe use of lasers by identifying hazards, providing recommendations for proper use, providing for medical surveillance and for laser safety training for individuals using lasers.

Background:

Lasers present many safety threats, but the most common threat is damage to the eyes. Other common laser concerns include skin damage, electrical hazards from high-energy power sources, chemical exposure, fire/explosion hazards, and exposure to cryogenic materials such as hydrogen and oxygen. Many lasers emit invisible ultraviolet or infrared radiation.

Lasers are classified into four basic categories as indicated below:

- **Class 1:** Lowest power lasers that do not emit hazardous levels
- **Class 2:** Low-power lasers that pose a hazard only if viewed directly for extended periods
- **Class 3:** Medium-power lasers that pose moderate risk and can cause injury
- **Class 4:** High-energy, high-risk lasers that can cause injury to the eyes and skin from direct or diffused reflection

Procedures:

These laser devices require engineering controls to ensure safety. All Class 3 and 4 lasers require a combination of protective housing, area warning signs or remote firing capabilities.

The following information is required for obtaining a laser permit:

- Classification of the laser device
- Wavelength of the laser output
- Power output
- Appropriate eyewear

Personnel shall follow these guidelines when working with Class 3 and 4 lasers:

- Never aim a laser at a person.
- Use extreme caution when working with hand-held laser pointers.
- Do not allow children access to pointers.
- Wear protective clothing such as eyewear and skin protection as appropriate.
- Post warning signs at entrances where lasers are present.

Personnel shall follow these guidelines when working with Class 3 and 4 lasers: (continued)

- When working with power supplies, remove jewelry, stand on a dry surface, and work with only one hand at a time. Observe high voltage precautions (see Electrical Safety chapter).
- Control access to areas where lasers are used (i.e., no spectators).
- If possible, enclose the entire laser beam path on Class 4 lasers.

Responsibilities:

Office/Lab Managers are responsible for:

1. The immediate supervision of lasers in the office/laboratory.
2. Providing, implementing and enforcing the safety recommendations and requirements prescribed in this program.
3. Providing laser operators with training in the administrative, alignment and standard operating procedures.
4. Classifying and labeling all lasers.
5. Completing a Laser Registry Form and sending it to the Safety and Health Office. 6. Attending the Company's Laser Safety Training program.
7. Registering for the Medical Surveillance program.
8. Notifying the Safety and Health Office immediately in the event of an exposure to a Class 3 or Class 4 laser.

Laser Operators are responsible for:

1. Following laboratory administrative, alignment and standard operating procedures while operating lasers.
2. Keeping the Office/Lab Manager fully informed of any departure from established safety procedures. This includes notification of an exposure incident.
3. Attending the Company's Laser Safety Training program.
4. Registering for the Medical Surveillance program.

The Safety and Health Office will:

1. Conduct lab inspections to ensure that safety requirements are followed.
2. Provide assistance in evaluating and controlling hazards.
3. Update this Laser Safety Chapter.
4. Maintain all records of lasers and laser operators.
5. Conduct or coordinate laser safety training for personnel who are assigned to an area where lasers are operated.
6. Participate in accident investigations involving lasers.
7. Coordinate the Medical Surveillance Program.

Personnel Training and Qualification:

All staff and students operating lasers are required to attend the Laser Safety training course presented by the Office of Environmental Health & Radiation Safety.

Only a qualified and authorized person is permitted to operate a laser. The Principal Investigator determines the employee's operational qualification from departmental or technical training or other acceptable learning experience.

Before operating a Class 3 or Class 4 laser, or a Class l laser system that encloses a Class 3 or Class 4 laser a person must:

1. Review this Laser Safety Chapter
2. Receive from the Office/Lab Manager a thorough review of the laser equipment to be used and the administrative, alignment and standard operating procedures.
3. Review the operating and safety instructions furnished by the manufacturer.

Medical Surveillance:

Individuals operating Class 1, 2 and 3a lasers are exempt from eye exams.

Laser operators or individuals who will work in areas where there may be exposure to laser radiation from a Class 3 or Class 4 laser are required to have a baseline eye examination prior to using the laser. This examination will be paid for by the Company.

To schedule a laser eye examination, contact the Safety and Health Office and request a laser eye examination.

An examination is required when an individual terminates his or her work in a laser laboratory.

Exposure Incidents:

If an exposure incident occurs, the Safety and Health Office must be notified by the Office/Lab Manager or the person operating the laser.

If the incident causes an injury or could potentially have caused an injury, the person or persons who have received an exposure should inform their supervisor and be seen immediately by the Company Medical Facility.

The Project Manager will conduct an investigation, and an incident report will be written.

Laser Hazard Analysis:

Before appropriate controls can be selected and implemented, laser radiation hazards must be identified and evaluated. These types of hazards include:

1. Eye ~ Acute exposure of the eye to lasers of certain wavelengths and power can
   cause corneal or retinal burns (or both). Chronic exposure to excessive levels may cause corneal or lenticular opacities (cataracts) or retinal injury
2. Skin ~ Acute exposure to high levels of optical radiation may cause skin burns;
   while carcinogenesis may occur from ultraviolet wavelengths (290-320 nm).
3. Chemical ~ Some lasers require hazardous or toxic substances to operate (i.e., chemical dye, Excimer lasers).
4. Electric shock ~ Most lasers produce high voltages that can be lethal.
5. Fire hazards ~ Solvents used in dye lasers are flammable. High voltage pulse or flash lamps may cause ignition. Flammable materials may be ignited by direct beams or specular reflections from high power continuous wave (CW) infrared lasers.

Lasers and laser systems are grouped according to their capacity to produce injury, and specific controls are then described for each group. Lasers manufactured after August 1, 1976 are classified and labeled by the manufacturer. Information on the label must include class, the maximum output power, the pulsed duration (if pulsed), and the laser medium or emitted wavelengths.

Maximum Permissible Exposure (MPE): The level of laser radiation to which a person may be exposed without hazardous effect or adverse biological changes in the eye or skin. The criteria for MPE for the eye and skin are detailed in Section 8 of ANSI Z136.1-1993.

Laser Classification:

Lasers are generally classified and controlled according to the following criteria:

1. *Class 1* : Low-power lasers and laser systems that cannot emit radiation levels greater than the Maximum Permissible Exposure (MPE). Class 1 lasers and laser systems are incapable of causing eye damage and are therefore exempt from any control measures.

   2. *Class 2:* Visible, low power lasers or laser systems that are incapable of causing eye damage unless they are viewed directly for an extended period (greater than 1000 seconds).

   3. *Class 3* : Medium-power lasers and laser systems capable of causing eye damage with short-duration (<0.25 s) exposures to the direct or specularly

reflected beam. Includes Class 3a and 3b lasers.

Lasers are generally classified and controlled according to the following criteria: (cont.)

4. *Class 3a* : Lasers or lasers systems that normally would not produce a hazard if viewed for only momentary periods with the unaided eye. They may present a hazard if viewed using collecting optics.

5. *Class 3b* : Lasers or lasers systems that can produce a hazard if viewed directly. This includes intrabeam viewing of specular reflections.

6. *Class 4:* High power lasers and laser systems capable of causing severe eye damage with short-duration (<0.25 s) exposures to the direct, specularly reflected, or diffusely reflected beam. Class 4 lasers and laser systems are also capable of causing severe skin damage and igniting flammable and combustible materials.

General Laser Safety Recommendations and Requirements:

Eye Protection: The Office/Lab Manager who supervise the operation of a laser are responsible for determining the need for laser eye protection for each particular laser. If required, eye protection will be provided by the supervisor for staff and visitors to the area.

The minimum laser radiant energy or laser power level required for the application should always be used.

Beam Control : To minimize direct eye exposure, personnel shall observe these precautions:

1. Do not intentionally look directly into the laser beam or at a specular reflection,
   regardless of its power.
2. Terminate the beam at the end of its useful path.
3. Locate the beam path at a point other than eye level when standing or when sitting at a desk.
4. Orient the laser so that the beam is not directed toward entry doors or aisles.
5. Minimize specular reflections.
6. Securely mount the laser system on a stable platform to maintain the beam in a fixed position during operation and limit beam traverse during adjustments.
7. Confine primary beams and dangerous reflections to the optical table.
8. Clearly identify beam paths and ensure that they do not cross populated areas or
   traffic paths.
9. When the beam path is not totally enclosed, locate the laser system so that the beam will be outside the normal eye-level range, which is between 1.2 to 2 meters

from the floor. A beam path that exits from a controlled area must be enclosed where ver the beam irradiance exceeds the MPE.

Additional Beam Controls for Class 1 and Class 2 Lasers

Warning signs : Post at each entrance to the operating area "CAUTION - LOW POWER LASER" signs.

If the laser has not been labeled by the manufacturer, attach a label on the laser with its classification and relevant warning information. Contact the Project Manager for assistance.

Refer to the ANSI Z136.1-1993 and Table 1 of this manual for further guidance on control measures for various classifications of lasers.

Additional Controls for Class 3 and 4 Lasers

All Office/Lab Manager are required to write standard operating procedures for all laser operations involving Class 3 and Class 4 lasers detailing alignment, operation and maintenance procedures. The standard operating procedures should be posted or attached to the inside surface of the lab door.

Standard Operating Procedures must include procedures to address when:

1. Use of eyewear, shields, and access control are necessary.
2. Two or more Class 3 or Class 4 lasers will be used in the same area by different operators without permanent, intervening barriers.
3. An interlock bypass is installed that does not conform to the conditions of the Laser Safety Chapter.
4. A laser installation does not include all the required controls specified in this manual (e.g., temporary operations).
5. Other hazards may be involved that require a Standard Operating Procedure (e.g.., acutely toxic gases, unattended laser operation). For assistance in completing a Standard Operating Procedure, contact the Project Manager.
6. A log must be maintained showing periods of use, service, maintenance and incidents.
7. Labels: A laser classification label must be conspicuously affixed to the laser housing.
8. Warning Signs: Each entrance must be posted with a danger sign in accordance with ANSI Z136.1-1993.
9. Warnings Devices: Entrances to offices/laboratories with a Class 3 or 4 laser shall have a lighted warning sign that is fail-safe interlocked with the laser to activate when the laser is energized. The sign must be tested monthly. A

written record must be kept of each test in the log book (see section 6).

Standard Operating Procedures (regarding Class 3 and 4 Lasers) must include procedures to address when: (continued)

10. Safety Interlocks
    a. Access doors to a controlled laser area in which a Class 3b or a Class 4 laser is being operated must be equipped with safety interlocks to prevent laser operation when the interlock circuit is broken.
    b. All protective enclosures that surround laser devices and high-voltage electrical sources must also be equipped with interlocks to prevent operation of the equipment.
    c. Interlocks should be tested quarterly to ensure that they are operational . A written record must be kept of each test in the log book (see section 6).
    d. Interlocks must be designed so that after they are actuated, the capacitor banks, shutters, or power supplies cannot be re-energized except by manually resetting the system.

11. The responsible individual in a laser area controlled by a warning light is permitted to momentarily override (bypass) door interlocks to allow access of authorized persons if all of the following conditions are met:
    a. There is no laser radiation hazard at the point of entry.
    b. The necessary protective devices are worn by the personnel entering the area.
    c. An interlock bypass circuit is designed into the interlock control system. This bypass circuit must only be operated from inside the interlocked area. It must delay no more than 15 seconds before shutting down the system.

12. If interlocks are not feasible, the Office/Lab Manager may consider the use of alarms or voice warnings. The Safety and Health Office must be consulted.

13. Laser laboratories and controlled areas must be designed so that personnel can enter and leave under emergency conditions.

14. Lasers must have a master switch with a key or coded access that prevents use once the key has been removed or a code has been entered. The key must not be left in the control panel when the laser is not in use.

15. Laser Activation Warning Systems: An alarm, a warning light, or a verbal "countdown" command must be used during activation and start up.

16. Lasers must have a permanently attached beam stop or attenuator and emission delay.

17. Laser controlled areas shall be established which have limited access, covered windows and doors, and only diffuse reflective material. The facility must be a fully enclosed room or laboratory with floor-to-ceiling walls. Access to the area during laser operation requires the permission of the responsible operator.

Standard Operating Procedures (regarding Class 3 and 4 Lasers) must include procedures to address when: (continued)

18. Class 3 and 4 infrared laser beams with a wavelength greater than or equal to 710 nm must be terminated with fire resistant material.

19. Securely fasten all mirrors, prisms, beam stops, etc. in the beam path. Ensure that the laser is also securely fastened.

20. Circuit breakers must be identified for each laser.

21. *Beam Enclosure* : The entire beam path of Class 3 and Class 4 lasers, including the target area, should be surrounded by an enclosure equipped with interlocks that prevents operation of the laser system unless the enclosure is properly secured. When total enclosure of the laser beam path is not practical, both the non-enclosed laser beam and any strong reflections must be terminated at the end of their useful path using such devices as backstops, shields or beam traps.

22. *Reflection Control*

a. Materials that diffusely reflect laser radiation must be used in place of specularly reflective surfaces wherever possible.
b. To minimize personnel exposure, specularly reflecting surfaces that are needed for beam-path control should be enclosed or shielded.

23. *Invisible Beams*

Ultraviolet (UV) and infrared (IR) lasers that emit invisible beams require several additional controls:

a. Visual or audible beam-warning devices must be installed in areas where personnel may be exposed to radiation in excess of the Maximum Permissible Exposure (MPE). These warning devices must be clearly identified and visible from all areas of potential exposure.
b. Shielding must be installed that will attenuate UV radiation to levels below the MPE for the wavelength being used.
c. Hazardous concentrations of by-products formed by the reaction of intense UV radiation with materials in the area must be controlled.
d. IR beam enclosures and backstops must be fabricated of IR-absorbent

material. For Class 4 lasers, the absorbent material must also be fire-resistant.

24 *Beam Mapping*

Controlled laser areas must be surveyed with appropriate measuring devices to locate and identify direct and reflected beams that exceed the MPE; shielding maybe required to limit unwanted radiation.

Standard Operating Procedures (regarding Class 3 and 4 Lasers) must include procedures to address when: (continued)

25. *Direct Viewing*
    a. Personnel must never look directly into any laser beam unless such action is specifically approved by the Safety and Health Office.
    b. The primary beam and specular reflections of Class 3 or Class 4 lasers are particularly hazardous. In those cases where it is necessary to directly view a beam from a Class 3 or Class 4 laser, special provisions, such as filters, are mandatory.
    c. A Standard Operating Procedure must be prepared for operations where the beam of a Class 3 or Class 4 laser must be viewed directly or where it is necessary to work with optical viewers in close proximity to the laser beam.

26. *Alignment*

    a. High-power laser optical systems must never be aligned by direct beam viewing if the radiant exposure or irradiance exceeds the MPE.
    b. Use low-power lasers, diffuse reflectors, image-retaining screens, exposed Polaroid film, and other devices that will minimize eye exposure.

27. *Optical Viewing Aids*

Using optical systems such as cameras, telescopes, microscopes, etc., to view laser beams may increase the eye hazard. Therefore, all collecting optics must incorporate suitable means (such as interlocks, filters, or attenuators) to prevent eye expos ures above the MPE.

28. *Protective Equipment*
    a. Laser protective eye wear shall be worn whenever MPE levels may be exceeded. However, it is good practice to always wear eye protection when lasers are in use. In general, eye wear provides protection over a narrow range of the laser spectrum.
    b. Eye wear designed for protection at one wavelength may afford little or no protection at another wavelength.
    c. Consult eye wear manufacturers and the Safety and Health Office for proper selection of protective eye wear.
    d. Laser protective eye wear must be approved by the American National

Standards Institute (ANSI) and clearly labeled with optical densities and wavelengths for which protection is afforded.

e. Eye wear must be inspected periodically by the user for pitting and cracking of the attenuating material, and for mechanical integrity and light leaks in the frame.
f. Protection for the skin may be afforded through the use of clothing to cover normally exposed skin areas.

Standard Operating Procedures (regarding Class 3 and 4 Lasers) must include procedures to address when: (continued)

29. *Unattended Equipment*
    a. When lasers are to be left unattended, de-energize the power supplies or capacitor banks and remove the keys from power switches or master interlocks to prevent unauthorized activation of the equipment.
    b. The operation of unattended lasers is only allowed when a specific standard operating procedure has been written and approved by the Office/Lab Manager.

30. *Temporary Installations*
    a. Occasionally, it may be necessary to remove protective enclosures or override equipment interlocks or other safety devices for service adjustments, maintenance, special training exercises, etc.
    b. In these instances, a temporary controlled laser area must be set up. Specific methods for handling situations of this type must be described in the SOP.
    c. Because the area will not have all the standard safety features, the SOP must describe provisions for protecting personnel who could potentially be exposed.
    d. When the entire beam path is not fully enclosed, restrict access into the area to persons wearing proper protective equipment. Make sure that all optical paths from the restricted-access area are adequately covered to prevent escape of laser radiation greater than the MPE for the eye.

<u>Converting to a Class l Enclosed Laser:</u>

Any laser or laser system can be converted to a Class 1 enclosed laser by including all of the following controls in the laser system design. These controls will effectively enclose the laser, thus preventing personnel contact with the emitted radiation while permitting unrestricted access into the area.

Protective Housing

a. House the laser system within a protective enclosure to prevent escape of laser radiation above the MPE.

b. The protective housing must prevent personnel access to the laser system during normal operations.

c. Personnel entering the enclosure to perform maintenance or adjustment tasks must be made aware of the higher risks and comply with the control measures for the higher risk laser class.

Safety Interlocks:

a. Install safety interlocks wherever the enclosure can be opened, removed or displaced.

b. When activated, these interlocks must prevent a beam with a radiant energy above the MPE from leaving the laser or laser system .

c. Service adjustments or maintenance work performed on the laser system must not render the interlocks inoperative or cause exposure levels outside the enclosure to exceed the MPE, unless the work is performed in a laser area with limited access and appropriate safeguards, supervision and control.

Fail-Safe Design: The protective enclosure and the laser system must be designed and fabricated so that if a failure occurs, the system will continue to meet the requirements for an enclosed laser operation.

Modifications to commercial laser systems must be evaluated. Contact the Safety and Health Office for an evaluation. If the modifications decrease the safety controls, a SOP will be required.

Attenuated Viewing Windows: Use viewing windows containing a suitable filter material that will attenuate the transmitted laser radiation to levels below the MPE under all conditions of operation.

Warning Signs and Labels

a. Label the enclosure with "CAUTION-ENCLOSED LASER" signs.

b. Attach a label directly to the laser which gives the laser classification in the absence of the enclosure. Make sure that the label can immediately be seen when the enclosure is opened.

<u>Controlling Associated Hazards</u>:

Many chemical and physical hazards other than laser radiation can be found in the laser area that must also be adequately controlled.

1. Electrical Equipment and Systems

a. Always be aware of the high risk of injury and fire in laser operations because of the presence of electrical power sources.

b. The installation, operation, and maintenance of electrical equipment and systems must conform to the standards stated in the National Electric Code.

2. Lighting
   a. Adequate lighting is necessary in controlled areas.
   b. If lights are extinguished during laser operation, provide control switches in convenient locations or install a radio controlled switch.
   c. Luminescent strips should be used to identify table and equipment corners, switch locations, aisles, etc.
   d. When natural light is not sufficient for safe egress from a laser area during an electrical power failure, install emergency lighting.

3. Ionizing and Non-ionizing Radiation
   a. A laser operation may involve ionizing radiation that originates from the presence of radioactive materials or the use of electrical power in excess of 15 kV
   b. Microwave and radio frequency (RF) fields may be generated by laser systems or support equipment.
   c. Contact the Safety and Health Office to obtain an evaluation of these hazards before starting an operation.

4. Hazardous Materials
   a. Bring into the laser area only those hazardous materials that are needed for the operation.
   b. All hazardous materials must be properly used, stored and controlled. Consult Materials Safety Data Sheets, the Chemical Safety Plan and Safety and Health Office for information.
   c. Do not allow laser beams and strong reflections to impinge on combustible materials, explosives, highly flammable liquids or gases or substances that decompose into highly toxic products under elevated temperatures, without providing adequate controls.
   d. Conduct or sponsor tests that establish the effects of beam interactions with hazardous materials. Test results can be used to determine safe parameters for laser operation.

5. Dyes and Solutions
   a. Dye lasers normally use a lasing medium composed of a complex fluorescent
   organic dye dissolved in an organic solvent. These dyes vary greatly in toxicity, mutagenicity, and potential carcinogenicity.
   b. All dyes must be treated as hazardous chemicals. Most solvents suitable for dye solutions are flammable and toxic by inhalation and/or skin absorption. Obtain Material Safety Data Sheets from the Safety and Health Office for all dyes and solvents.
   c. Use and store all dyes and solvents in accordance with the Company's

Chemical Safety Plan.
d. Prepare/handle dye-solutions inside a chemical fume hood.
e. Wear a lab coat, eye protection and gloves. Call the Safety and Health Office for assistance in glove selection.
f. Pressure-test all dye laser components before using dye solutions. Pay particular attention to tubing connections.
g. Install spill pans under pumps and reservoirs.
h. Be alert to contaminated parts.
i. Keep dye-mixing areas clean.

Personal Protective Equipment Program

Policy:

Protective clothing will be provided whenever it is necessary by reason of hazards, processes or environmental conditions. The Company requires that protective clothing be used when chemical hazards, radiological hazards, or mechanical irritants are encountered in a manner capable of causing injury or impairment through absorption, inhalation, or physical contact.

References

20 CFR 1910.134 Subpart I - Personal Protective Equipment

Responsibilities:

The Project Manager will ensure contractors are responsible for assessing the hazards and exposures that may require the use of PPE, determining the type of equipment to be provided, and purchasing the equipment. Input from managers, supervisors, and employees will be obtained and considered in selecting appropriate equipment.

Managers/supervisors will be responsible for training employees in the use and proper care of PPE, ensuring that all employees are assigned appropriate PPE, and ensuring that PPE is worn by employees when and where it is required.

Employees are responsible for following all provisions of this program and related procedures. They are expected to wear PPE when and where it is required.

Purpose:

The purpose of this program is to protect our employees by ensuring that Personal Protective Equipment (PPE) is provided, used, and maintained in a sanitary and reliable condition whenever it is necessary due to hazards from processes or in the work environment. To the extent that it is possible and feasible, the company will remove or eliminate hazards or exposures through engineering means to eliminate the need for PPE.

This program covers eye and face protection, head protection, foot protection, hand protection, and electrical protection. Respiratory hazards and hearing hazards are covered by other programs, but they will also be included in the Hazard Assessment described below. This program covers the responsibilities of managers, supervisors and workers, assessment of hazards, selection and use of personal protective equipment (PPE), and training.

Procedures:

a. Personal protective clothing is to include approved lab coats, surgical caps, masks, gloves, special shirts, trousers, overalls, jumpsuits, safety shoes, hard hats, coats and smocks. As a minimum, Company furnished lab coats should always be worn during laboratory work.

b. Requests for all personal protective clothing not available as Company stock items are generated by the supervisor and are approved by the Divisional Manager. The protective clothing must be worn by the employees and visitors as dictated by Company policy. The clothing will be available only in compromise sizes (i.e. small, medium, and large).

c. Personal protective clothing may not be worn in the cafeteria or other food consumption areas, conference rooms, picnic areas or off campus.

d. Sandals, and open-toed shoes, are prohibited in laboratory, shop, warehouse, and animal housing areas.

e. Safety shoes should be worn by all shop, warehouse and maintenance personnel as dictated by the nature of the work. Safety shoe areas are recommended by the supervisor and approved by the Safety and health Manager. The user will be responsible for the proper cleaning, maintenance and use of the safety shoes.

g. Hard hats should be worn in all posted areas (e.g., locations in warehouses, shops, and building construction or renovation areas) and when performing work in which the supervisor Safety and Health Manager decides such hazards exist.

Hazard Assessment:

The Company will perform an assessment of the workplace to determine if hazards are present, or likely to be present, which necessitate the use of personal protective equipment (PPE). This assessment will consist of a survey of the workplace to identify sources of hazards to workers. Consideration will be given to hazards such as impact, penetration, laceration, compression (dropping heavy objects on foot, roll-over, etc.), chemical exposures, harmful dust, heat, light (optical) radiation, electrical hazards, noise, etc. Where such hazards are present, or likely to be present, the Company will:

- Select, and have each affected employee use, the types of PPE that will protect the employee from the hazards identified in the hazard assessment.
- Communicate equipment selection decisions to each affected employee

Where such hazards are present, or likely to be present, the Company will (continued):

- Select PPE that properly fits each affected employee
- Train employees in the use and care of PPE as described elsewhere in this program

The Company will verify that the workplace hazard assessment has been performed by conducting a written certification. This certification will be dated and signed by the Safety and Health manager or person conducting the assessment. Whenever there is a change in process or in the workplace that might introduce or change an exposure or hazard, the company will perform an assessment to determine if there needs to be additional PPE or a change in the PPE provided. These supplemental hazard assessments will also be documented, signed and dated by the person performing the assessment. The Company will review and update the workplace hazard assessment on an annual basis.

SELECTION OF PERSONAL PROTECTIVE EQUIPMENT (PPE):

Personal protective equipment (PPE) will be selected on the basis of the hazards to which the workers' are exposed or potentially exposed. All selections will be made by with input from managers, supervisors and workers.

Personal protective equipment will meet the following standards:

- Eye & Face Protection devices - ANSI Z87.1-1989 "American National Standard Practice for Occupational and Educational Eye and Face Protection"

- Head Protection devices - ANSI Z89.1-1986 "American National Standard for Personal Protection - Protective Headwear for Industrial Workers"

- Foot Protection devices - ANSI Z41-1991 "American National Standard for Personal Protection - Protective Footwear"

- Hand Protection - No national standard available - Selection will be based on task performed, conditions present, duration of use, and the hazards and potential hazards identified.

- Electrical Protective equipment - No national standard - Equipment will be tested electrically before first use and every 6 months thereafter or upon indication that

insulating value is suspect.

Training:

Each employee who is required to use PPE will be trained in the following:

- Why PPE is necessary
- When PPE is necessary
- What PPE is necessary and any alternative choices of equipment
- How to properly don, doff, adjust, and wear PPE
- The proper care, maintenance, storage, useful life, and disposal of PPE

The training will include an opportunity for employees to handle the PPE and demonstrate that they understand the training and have the ability to use the PPE properly. Training will be provided by the manager or supervisor of the affected employees. Training will be documented in writing with the documentation including the names of each employee trained, the date(s) of the training, and the subject matter covered.

If an employee, who has been trained, demonstrates a lack of knowledge or behavior which leads the supervisor to believe the employee does not have a proper understanding of the PPE involved, that employee will be retrained. If there are changes in the workplace or processes that change the exposures or type of PPE to be used, all affected employees will be retrained.

Care Of Personal Protective Equipment:

Whenever practical, PPE will be assigned to individual workers for their exclusive use. Employees will be responsible for the PPE equipment assigned to them or used by them.

PPE will be regularly cleaned, inspected and stored according to instructions given during the training sessions or as directed by supervisors or managers. Defective or damaged PPE shall not be used. Employees are to report any defective or damaged equipment to their supervisor for repair or replacement.

Personal Protective Equipment:

Engineering controls shall be the primary methods used to eliminate or minimize hazard

exposure in the workplace. When such controls are not practical or applicable, personal protective equipment shall be employed to reduce or eliminate personnel exposure to hazards.

Personal protective equipment (PPE) will be provided, used, and maintained when it has been determined that its use is required and that such use will lessen the likelihood of occupational injuries and/or illnesses. The Divisional Manager will recommend and/or provide necessary protective equipment where there is a reasonable probability that the use of the equipment will prevent or reduce the severity of injuries or illness.

Equipment Specifications and Requirements-

All personal protective clothing and equipment will be of safe design and construction for the work to be performed. Only those items of protective clothing and equipment that meet National Institute of Occupational Safety and Health (NIOSH) or American National Standards Institute (ANSI) standards will be procured or accepted for use.

Eye and Face Protection-

The majority of occupational eye injuries can be prevented by the use of suitable/approved safety spectacles, goggles, or shields. Approved eye and face protection shall be worn when there is a reasonable possibility of personal injury. Supervisors, with assistance from the Safety and Health Manager, determine jobs and work areas that require eye protection and the type of eye and face protection that will be used.

Typical hazards that can cause eye and face injury are:

- Splashes of toxic or corrosive chemicals, hot liquids, and molten metals;
- Flying objects, such as chips of wood, metal, and stone dust;
- Fumes, gases, and mists of toxic or corrosive chemicals; and
- Aerosols of biological substances.

Prevention of eye accidents requires that all persons who may be in eye hazard areas wear protective eyewear. This includes employees, visitors, researchers, contractors, or others passing through an identified eye hazardous area. To provide protection for these personnel, activities shall procure a sufficient quantity of heavy duty goggles and/or plastic eye protectors which afford the maximum amount of protection possible.

If these personnel wear personal glasses, they shall be provided with a

suitable eye protector to wear over them.

Eye and Face Protection- (continued)

Specifications-

Eye and face protectors procured, issued to, and used by Company personnel must conform to the following design and standards:

a) Provide adequate protection against the particular hazards for which they are designed

b) Fit properly and offer the least possible resistance to movement and cause minimal discomfort while in use.

c) Be durable.

d) Be easily cleaned or disinfected for or by the wearer.

e) Be clearly marked to identify the manufacturer.

f) Persons who require corrective lenses for normal vision, and who are required to wear eye protection, must wear goggles or spectacles of one of the following types:

1) Spectacles with protective lenses which provide optical correction.

2) Goggles that can be worn over spectacles without disturbing the adjustment of the spectacles.

3) Goggles that incorporate corrective lenses mounted behind the protective lenses.

Description and Use of Eye/Face Protectors

a) Safety Spectacles. Protective eye glasses are made with safety frames, tempered glass or plastic lenses, temples and side shields which provide eye protection from moderate impact and particles encountered in job tasks such as carpentry, woodworking, grinding, scaling, etc.

b) Single Lens Goggles. Vinyl framed goggles of soft pliable body design provide adequate eye protection from many hazards. These goggles are available with clear or tinted lenses, perforated, port

vented, or non-vented frames.

Single lens goggles provide similar protection to spectacles and may be worn in combination with spectacles or corrective lenses to insure protection along with proper vision.

Description and Use of Eye/Face Protectors (continued)

c) Welders/Chippers Goggles. These goggles are available in rigid and soft frames to accommodate single or two eye piece lenses.

Welders goggles provide protection from sparking, scaling or splashing metals and harmful light rays. Lenses are impact resistant and are available in graduated shades of filtration.

Chippers/grinders goggles provide eye protection from flying particles. The dual protective eye cups house impact resistant clear lenses with individual cover plates.

d) Face Shields. These normally consist of an adjustable headgear and face shield of tinted/transparent acetate or polycarbonate materials, or wire screen. Face shields are available in various sizes, tensile strength, impact/heat resistance and light ray filtering capacity. Face shields will be used in operations when the entire face needs protection and should be worn to protect eyes and face against flying particles, metal sparks, and chemical/ biological splash.

e) Welding Shields. These shield assemblies consist of vulcanized fiber or glass fiber body, a ratchet/button type adjustable headgear or cap attachment and a filter and cover plate holder. These shields will be provided to protect workers' eyes and face from infrared or radiant light burns, flying sparks, metal spatter and slag chips encountered during welding, brazing, soldering, resistance welding, bare or shielded electric arc welding and oxyacetylene welding and cutting operations.

The Project Manager maintains a supply of various eye and face protective devices. Personnel requiring prescription safety glasses must contact the Safety and Health Manager.

Emergency Eyewash Facilities-

Emergency eyewash facilities meeting the requirements of ANSI

Z358.1-1981 shall be provided in all areas where the eyes of any employee may be exposed to corrosive materials. All such emergency facilities shall be located where they are easily accessible to those in need.

Hearing Protection-

Hearing protection devices are the first line of defense against noise in environments where engineering controls have not reduced employee exposure to safe levels. Hearing protective devices can prevent significant hearing loss, but only if they are used properly.

The most popular hearing protection devices are earplugs which are inserted into the ear canal to provide a seal against the canal walls. Earmuffs enclose the entire external ears inside rigid cups. The inside of the muff cup is lined with acoustic foam and the perimeter of the cup is fitted with a cushion that seals against the head around the ear by the force of the headband.

Preformed earplugs and earmuffs should be washed periodically and stored in a clean area, and foam inserts should be discarded after each use. It is important for you to wash hands before handling pre-formed earplugs and foam inserts to prevent contaminants from being placed in the ear which may increase your risk of developing infections.

Also, check hearing protective devices for signs of wear or deterioration.

Replace devices periodically.

The Divisional Manager maintains a supply of a variety of disposable foam ear inserts and earmuffs.

Respiratory Protection-

Respiratory hazards may occur through exposure to harmful dusts, fogs, fumes, mists, gases, smoke, sprays, and vapors. The best means of protecting personnel is through the use of engineering controls, e.g., local exhaust ventilation. Only when engineering controls are not practical or applicable shall respiratory protective equipment be employed to reduce personnel exposure.

Respiratory Protection- (continued)

Adherence to the following guidelines will help ensure the proper and safe use of respiratory equipment:

- Wear only the respirator you have been instructed to use. For example, do not wear a self-containing breathing apparatus if you have been assigned and fitted for a half-mask respirator.
- Wear the correct respirator for the particular hazard. For example, some situations, such as chemical spills or other emergencies, may require a higher level of protection than your respirator can handle. Also, the proper cartridge must be matched to the hazard (a cartridge designed for dusts and mists will not provide protection from vapors)
- Check the respirator for a good fit before each use. Positive and negative fit checks should be conducted.
- Check the respirator for deterioration before and after use. Do not use a defective respirator.
- Recognize indications that cartridges and canisters are at their end of service. If in doubt, change cartridges/ canisters before using respirator.
- Practice moving and working while wearing the respirator so that you can get used to it.
- Clean the respirator after each use, thoroughly dry it and place the cleaned respirator in a sealable plastic bag.
- Store respirators carefully in a protected location away from excessive heat, light, and chemicals.

Head Protection-

Hats and caps have been designed and manufactured to provide workers protection from impact, heat, electrical and fire hazards. These protectors consist of the shell and the suspension combined as a protective system. Safety hats and caps will be of nonconductive, fire and water resistant materials. Bump caps or skull guards are constructed of lightweight materials and are designed to provide minimal protection against hazards when working in congested areas.

Head protection will be furnished to, and used by, all employees and contractors engaged in construction and other miscellaneous work in head-hazard areas. Head protection will also be required to be worn by

engineers, inspectors, and visitors at construction sites. Bump caps/skull guards will be issued to and worn for protection against scalp lacerations from contact with sharp objects. They will not be worn as substitutes for safety caps/hats because they do not afford protection from high impact forces or penetration by falling objects.

Hand Protection-

Skin contact is a potential source of exposure to toxic materials; it is important that the proper steps be taken to prevent such contact. Gloves should be selected on the basis of the material being handled, the particular hazard involved, and their suitability for the operation being conducted. One type of glove will not work in all situations.

Most accidents involving hands and arms can be classified under four main hazard categories: chemicals, abrasions, cutting, and heat. There are gloves available that can protect workers from any of these individual hazards or any combination thereof.

The first consideration in the selection of gloves for use against chemicals is to determine, if possible, the exact nature of the substances to be encountered. Read instructions and warnings on chemical container labels and MSDSs before working with any chemical. Recommended glove types are often listed in the section for personal protective equipment.

All glove materials are eventually permeated by chemicals. However, they can be used safely for limited time periods if specific use and glove characteristics (i.e., thickness and permeation rate and time) are known. The Safety and Health Manager can assist is determining the specific type of glove material that should be worn for a particular chemical.

Gloves should be replaced periodically, depending on frequency of use and permeability to the substance(s) handled. Gloves overtly contaminated should be rinsed and then carefully removed after use.

Gloves should also be worn whenever it is necessary to handle rough or sharp-edged objects, and very hot or very cold materials. The type of glove materials to be used (in these situations) include leather, welder’s gloves, aluminum-backed gloves, and other types of insulated glove materials.

Careful attention must be given to protecting your hands when working with tools and machinery. Power tools and machinery must have guards installed or incorporated into their design that prevent the hands from contacting the point of operation, power train, or other moving parts. To protect the hands from injury due to contact with moving parts, it is important to:

- Ensure that guards are always in place and used.
- Always lock out machines or tools and disconnect the power before making repairs.
- Treat a machine without a guard as inoperative; and
- Do not wear gloves around moving machinery, such as drill presses, mills, lathes, and grinders.

Hand Protection- (continued)

The Project Manager can help the supervisor identify appropriate glove selections for their operations. The Project Manager also maintains a selection of gloves for various tasks.

Safety Shoes-

Safety shoes shall be worn in the shops, warehouses, maintenance, cagewash, glassware, and other areas as determined by the Health and Safety Branch. Recommendations for safety footwear shall be approved by the Health and Safety Branch. All safety footwear shall comply with American National Standards Institute (ANSI) Standard ANSI Z41-1991, "American National Standard for Personal Protection - Protective Footwear. Protective footwear purchased before July 5, 1994, shall comply with ANSI Standard Z41.1-1967.

Permanent full time employees will be initially issued two pairs of safety shoes of approved type. Shoes will be replaced or repaired as necessary based on supervisory approval. Other than permanent employees will be issued one pair of safety shoes with replacement as necessary based on supervisory approval.

Responsibilities-

a. Supervisor - Reviews employees work situation and recommends safety footwear as appropriate in accordance with established Institute policy. Requests safety shoes from the Safety and Health manager for new employees or as indicated for replacement. Ensures that all employees under his supervision use and maintain safety footwear. Makes determination on the need for replacement or repair of safety shoes.

b. Employee - Wears Institute provided or approved safety shoes in all areas
requiring safety footwear as determined by the supervisor and the

Health and Safety Manager.

c. Project Manager - Consults with supervisors concerning safety shoe requirements and approves issuance of all safety shoes. Arranges for local purchase of all safety shoes. Makes arrangements for necessary repairs.

Safety Shoes-

Procedures-

a. Supervisors must review employee's work situation in consultation with the Health and Safety Manager to decide the need for safety footwear and appropriate types. The "Request for Safety Shoes" must be completed, reviewed and signed by the supervisor and approved by the Health and Safety Manager.

b. Any employee desiring to replace his/her safety footwear must complete the "Request for Safety Shoes" and have it signed by their supervisor.

c. If an employee is unable to find appropriate safety footwear at the designated vendors, he or she should check with the Health and Safety Manager for alternate procedures. Alternate procedures involve employees purchasing safety footwear with their own funds and being reimbursed.

f. Employee who want to have their footwear repaired, should be encouraged
to do so. Some footwear is designed to be repaired, and some is not. Repairs would include such items as new soles and heels. The Company will reimburse employees for repairs.

Hearing Personal Protective Equipment

Hearing protective devices (ear plugs, muffs, etc.) shall be the permanent solution only when engineering or administrative controls are considered to be infeasible or cost prohibitive. Hearing protective devices are defined as any device that can be worn to reduce the level of sound entering the ear. Hearing protective devices shall be worn by all personnel when they must enter or work in an area where the operations generate noise levels of:

•Greater than 85 dBA sound levels, or
•120 dB peak sound pressure level or greater

Types of Hearing Protective Devices Hearing protective devices include the following:

a. Insert Type Earplugs

A device designed to provide an air-tight seal with the ear canal. There are three types of insert earplugs – premolded, formable, and custom earplugs.

1. Premolded Earplugs

Premolded earplugs are pliable devices of fixed proportions. Two standard styles, single flange and triple flange, come in various sizes, and will fit most people. Personnel responsible for fitting and dispensing earplugs will train users on proper insertion, wear, and care. While premolded earplugs are reusable, they may deteriorate and should be replaced periodically.

2. Formable

Formable earplugs come in just one size. Some are made of material which, after being compressed and inserted, expands to form a seal in the ear canal. When properly inserted, they provide noise attenuation values that are similar to those from correctly fitted premolded earplugs. Individual units may procure approved formable earplugs. Supervisors must instruct users in the proper use of these earplugs as part of the annual education program. Each earplug must be held in place while it expands enough to remain firmly seated. A set of earplugs with a cord attached is available. These earplugs may be washed and therefore are reusable, but will have to be replaced after two or three weeks or when they no longer form an airtight seal when properly inserted.

3.Custom Molded Earplugs

A small percentage of the population cannot be fitted with standard premolded or formable earplugs. Custom earplugs can be made to fit the exact size and shape of the individual's ear canal. Individuals needing custom earplugs will be referred to an audiologist.

b. Earmuffs

Earmuffs are devices worn around the ear to reduce the level of noise that reaches the ear. Their effectiveness depends on an air tight seal between the cushion and the head.

Selection of Hearing Protective Devices

Employees will be given the opportunity to select hearing protective devices from a variety of suitable ones provided by the Office of Health and Safety. In all cases the chosen hearing protectors shall have a Noise Reduction Ratio (NRR) high enough to reduce the noise at the ear drum to 85 dBA or lower.

Issuance of Hearing Protective Devices

The issuance of hearing protective devices is handled through the Safety and Health Manager. The Project Manager will issue and fit the initial hearing protective devices (foam inserts, disposables). Instruction on the proper use and care of earplugs and earmuffs will be provided whenever HPDs (hearing protective devices) are dispensed. Personnel requiring earmuffs in addition to earplugs will be informed of this requirement and educated on the importance of using proper hearing protection. The Project Manager will dispense ear muffs when necessary and will maintain a supply of disposable earplugs.

Use of Hearing Protective Devices

a. Always use and maintain HPDs as originally intended and in accordance with instructions provided.
b. Earmuff performance may be degraded by anything that compromises the cushion-to-circumaural flesh seal. This includes other pieces of personal protective equipment such as eyewear, masks, faceshields, and helmets.

Maintenance of Hearing Protective Devices

a. Reusable earplugs, such as the triple flange or formable devices should be washed in lukewarm water using hand soap, rinsed in clean water, and dried thoroughly before use. Wet or damp earplugs should not be placed in their containers. Cleaning should be done as needed.
b. Earmuff cushions should be kept clean. The plastic or foam cushions may be
c. cleaned in the same way as earplugs, but the inside of the muff should not get wet. When not n use, ear muffs should be placed in open air to allow moisture

that may have been absorbed into the cups to evaporate.

Hearing Protection Performance Information

The maximum of sound attenuation one gets when wearing hearing protection devices is limited by human body and bone conduction mechanisms. Even though a particular device may provide outstanding values of noise attenuation the actual noise reductions may be less because of the noise surrounding the head and body bypasses the hearing protector and is transmitted through tissue and bone pathways to the inner ear.

The term “double hearing protection” is misleading. The attenuation provided from any combination earplug and earmuff is not equal to the sum of their individual attenuation values.

PERSONAL PROTECTIVE EQUIPMENT

HAZARD ASSESSMENT FORM

Date of Hazard Assessment: _____

Person Performing Hazard Assessment:
_____

Location Job	Task/Position	Hazards	PPE Required
(EXAMPLE)			
(Molding Dept).	*(Press Operator)*	*(Flying particles)*	*(Safety Glasses)*

PERSONAL PROTECTIVE EQUIPMENT

CERTIFICATION OF HAZARD ASSESSMENT

I certify that a hazard assessment of the workplace was performed at our facility located at _____. This assessment consisted of a review of prior injury and illness records and a walk-through inspection of all work areas. The purpose of this assessment was to identify sources of hazards to employees that are present, or are likely to be present, in the workplace which necessitate the use of personal protective equipment (PPE).

Workplace Evaluated:
(Insert address of the facility and a listing of all departments or areas of the facility that were inspected.)
Person Certifying Hazard Assessment:

Name: _____ Title: _____

Date(s) of Hazard Assessment: _____

Attachments: Hazard Assessment Forms

Respiratory Protection Program

Policy:

All employees will be protected from exposure to airborne radioactive, chemical, or biological contamination by installing, implementing, or instituting feasible engineering or administrative controls. If these controls do not prove feasible, or while they are being installed/instituted, appropriate respiratory protection will be provided. For some experiments, respiratory protection may be provided as an additional safeguard against exposure.

It is the Company's policy to provide employees with a safe and healthful working environment. This is accomplished by utilizing facilities and equipment that have all feasible safeguards incorporated into their design. When effective engineering controls are not feasible, or when they are being initiated, protection shall be used to ensure personnel protection.

This program does not apply to contractors as they are responsible for providing their own respiratory protection programs and respiratory protective equipment.

Definitions:

a. Respirator – A device provided to protect the wearer from inhalation of harmful or nuisance atmospheres. Respirators may function by air purifying and/or air supplying techniques.

b. Air Purifying Respirator – A respirator that filters and/or absorbs contaminants from the ambient air being inhaled by the wearer.

c. Supplied Air Respirator – A respirator in which clean air is supplied to the facepiece from an auxiliary source away from the wearer.

d. Self-Contained Breathing Apparatus – A respirator in which the air supply is carried by the wearer.

e. Atmospheric Contamination – The term applies equally to gases such as nitrogen, carbon monoxide, and carbon dioxide; the vapors of volatile substances such as benzene and carbon tetrachloride; toxic dusts and fumes; radioactive materials; and so forth.

f. Respirator Fit Test – A test used to determine a proper match or fit between the facepiece of the respirator and face of the wearer.

Responsibilities:

a. Supervisor

Supervisors will ensure each employee under his or her supervision using a respirator has received appropriate training in its use and an annual medical evaluation. Supervisors will ensure the availability of appropriate respirators and accessories, provide adequate storage facilities, and encourage proper respirator equipment maintenance. Supervisors must be aware of tasks requiring the use of respiratory protection, and ensure all employees engaged in such work use the appropriate respirators at all times. The Supervisors are responsible for the following:

1. Ensures that all employees who wear respiratory protective devices are thoroughly trained in their use.

2. Provides employees with the respiratory protection appropriate for the operation, and ensures the use of such devices.

3. Identifies potentially hazardous conditions and immediately notifies the Safety and Health Manager for corrective action.

The Project Manager shall contact the Divisional Manager prior to non-routine work which may expose workers to hazardous substances or oxygen deficient atmospheres. Examples of work which may require the use of respirators includes, but are not limited to:

- Asbestos abatement activities
- Abrasive blasting
- Cutting or melting lead or stripping lead-based paints from surfaces
- Welding or burning
- Painting, especially with epoxy or organic solvent coatings
- Using solvents, thinners, or degreasers
- Any work which generates large amounts of dust
- Working in a confined space
- Using formaldehyde to decontaminate a space
- Bioaerosols

b. Employee

1. Uses respiratory protective equipment as instructed and required under hazardous agent protocols.

2. Stores respirator properly to prevent damage and inspects prior to each use.

3. Reports any malfunction of respiratory protective equipment to the immediate supervisor.

Responsibilities: (continued)

c. Others

Personnel, such as employees, inspectors, and visitors, who must enter an area where the use of respiratory protective equipment is required, even when their stay time in the area may be 15 minutes or less, shall be provided with and use appropriate equipment, including instructions regarding use and limitations. Personnel shall be fit tested and medically qualified to wear the respirator being issued prior to entry to the site.

Contractors are required to develop and implement a respiratory protection program for their employees who must enter into or work in areas where exposure to hazardous materials can not be controlled or avoided. This program must meet OSHA regulations and include issuance of respirators, medical evaluations, fit testing and training.

d. Divisonal Manager

1. Develops and implements all aspects of the respiratory protection program.

2. Develops training programs and standard operating procedures to fulfill the requirements of existing OSHA regulations and amendments.

3.Purchases, selects, inspects, maintains, cleans, stores, and fit tests respiratory protective equipment.

4. Periodically inspects and replaces all respiratory protective devices stored for emergency use.

Procedures:

a. Selection – Respirators shall be selected on the basis of the potential hazards to which the worker is exposed. The following factors shall be ascertained by the Health and Safety Branch to ensure that the device selected for the employee will provide satisfactory protection when used properly:

1. Chemical, physical, and toxicological properties of the contaminant(s).

2. Review of actual and potential hazards to assess extent of injurious effects produced under all conditions of potential exposure.

3. Evaluation of the duties to be performed by the wearer as they relate to restriction of movement and duration of potential exposure.

4. An understanding of the principles, design, scope of use, limitations, advantages, and disadvantages of the available respirators. Respiratory equipment selected will be approved by the Company or will otherwise be in accordance with existing OSHA regulations.

Procedures: (continued)

b. Medical Evaluations – It is the responsibility of the Health and Safety Branch to review the health status of all employees who may be required to wear respiratory equipment. In the event of prolonged respirator use, the wearer should have a medical examination to determine if he/she is medically able to wear respiratory protective equipment without aggravating a pre-existing medical condition

Medical considerations include, but are not limited to the following:

- History of asthma or emphysema
- Difficulty in breathing
- Previously documented lung problems
- High blood pressure
- Artery diseases
- Documented heart problems
- Missing or arthritic fingers
- Facial scars
- Claustrophobia
- Poor eyesight

c. Fitting – Each individual required to use a respirator of any type will be fitted by the Safety and Health Manager prior to using any such device. The fit test will include a demonstration of proper donning, wearing, and field fit testing techniques, an extensive leak test using a solution of isoamyl acetate as the test vapor and a quantitative fit test using a respirator fit tester. Any individual with a beard or other facial hair that may prevent a proper facepiece-to-face seal will not be fit tested until the hair has been removed. A separate Respirator Fitting and Training Record shall be maintained for each participating individual.

Respirator Fit testing

A fit test shall be used to determine the ability of each individual respirator wearer to obtain a satisfactory fit with any air-purifying respirator. Both quantitative and qualitative fit tests will be performed. Personnel must successfully pass the fit test before being issued an air-purifying respirator.

No Company employee is permitted to wear a negative-pressure respirator in a work situation until he or she has demonstrated that an acceptable fit can be obtained. Respirator fitting is conducted initially upon assignment to a task requiring use of a respirator. Refitting is conducted annually thereafter upon successful completion of the respirator training.

Respirator Fit testing (continued)

Fit testing will be conducted by the Project Manager and the test results will be the determining factor in selecting the type, model, and size of negative-pressure respirator for use by each individual respirator wearer.

Fit Checking-

Each time a respirator is donned, the user will perform positive and negative pressure fit checks. These checks are not a substitute for fit testing. Respirator users must be properly trained in the performance of these checks and understand their limitations.

A. Negative Pressure Check

Applicability/Limitations:This test cannot be carried out on all respirators; however, it can be used on facepieces of air purifying respirators equipped with tight-fitting respirator inlet covers and on atmosphere supplying respirators equipped with breathing tubes which can be squeezed or blocked at the inlet to prevent the passage of air.

Procedure: Close off the inlet opening of the respirator's canister(s), cartridge(s), or filter(s) with the palm of the hand, or squeeze the breathing air tube or block its inlet so that it will not allow the passage of air. Inhale gently and hold for at least 10 seconds. If the facepiece collapses slightly and no inward leakage of air into the facepiece is detected, it can be reasonably assumed that the respirator has been properly positioned and the exhalation valve and facepiece are not leaking.

B. Positive Pressure Check

Applicability/Limitations:This test cannot be carried out on all respirators; however, respirators equipped with exhalation valves can be tested.

Procedure: Close off the exhalation valve or the breathing tube with the palm of the hand. Exhale gently. If the respirator has been properly positioned, a slight positive pressure will build up inside the facepiece without detection of any outward air leak between the sealing surface of the facepiece and the face.

Qualitative Fit Testing

Federal regulations (29 CFR 1910.1001) require qualitative fit tests of respirators and describe step-by-step procedures. This test checks the subject's response to a chemical introduced outside the respirator facepiece. This response is either voluntary or involuntary depending on the chemical used. Several methods may be used. The two most common are the irritant smoke test, and the odorous vapor test.

a. Irritant Smoke

The irritant smoke test is an involuntary response test. Air purifying respirators must be equipped with a high efficiency particulate air (HEPA) filter for this test. An irritant smoke, usually either stannic chloride or titanium tetrachloride, is directed from a smoke tube toward the respirator. If the test subject does not respond to the irritant smoke, a satisfactory fit is assumed to be achieved. Any response to the smoke indicates an unsatisfactory fit.

The irritant smoke is an irritant to the eyes, skin, and mucous membranes. It should not be introduced directly onto the skin. The test subject must keep his or her eyes closed during the testing if a full facepiece mask is not used.

b. Odorous Vapor

The odorous vapor test is a voluntary response test. It relies on the subject's ability to detect an odorous chemical while wearing the respirator. Air purifying respirators must be equipped with an organic cartridge or canister for this test. Isoamyl acetate (banana oil) is the usual test. An isoamyl acetate-saturated gauze pad is placed near the facepiece-to-face seal of the respirator of the test subject's skin. If the test subject is unable to smell the chemical, than a satisfactory fit is assumed to be achieved. If the subject smells the chemical, the fit is unsatisfactory.

If the subject cannot smell the chemical, the respirator will be momentarily pulled away from the subject's face. If the subject is then able to smell the chemical, a satisfactory fit is assumed. If the subject cannot smell the chemical with the respirator pulled away from the face, this test is inappropriate for this subject, and a different test will be used.

This test is limited by the wide variation of odor thresholds among individuals and the possibility of olfactory fatigue. Since it is a voluntary response test it depends upon an honest response.

Quantitative Fit Testing

Quantitative fit testing, using the Portacount Plus fit test system, is generally performed on both full-face and half-face negative pressure respirators. Fit factors are determined by comparing the particle concentration outside the respirator with the concentration inside the respirator facepiece. An acceptable fit is achieved when the respirator wearer successfully completes a series of six programmed exercises (normal breathing, deep breathing, moving head up and down, moving head side to side, reading, and normal breathing) with a fit factor of 100 or more.

Special Problems

A. Facial Hair

No attempt is made to fit a respirator on an employee who has facial hair which comes between the sealing periphery of the facepiece and the face, or if facial hair interferes with normal functioning of the exhalation valve of the respirator.

B. Glasses and Eye/Face Protective Devices

Proper fitting of a respiratory protective device facepiece for individuals wearing corrective eyeglasses or goggles, may not be established if temple bars or straps extend through the sealing edge of the facepiece. If eyeglasses, goggles, face shield or welding helmet must be worn with a respirator, they must be worn so as not to adversely affect the seal of the facepiece. If a full-facepiece respirator is used, special prescription glasses inserts are available if needed.

d. Training – Appropriate training and instructions in the proper use of each type of respirator shall be provided by the Project Manager. Respirator users and their supervisors will receive training on the contents of this Respiratory Protection Program and their responsibilities under it. They will be trained on the proper selection and use, as well as the limitations of the respirator. Training also covers how to ensure a proper fit before use and how to determine when a respirator is no longer providing the protection intended.

The Project Manager provides training of respirator wearers in the use, maintenance, capabilities, and limitations of respirators is initially upon assignment of personnel to tasks requiring the use of respirators. Retraining is given annually thereafter and only upon successful completion of the medical evaluation.

The training program will include the following:

Respirator training will be properly documented (Appendix A) and will include the type and model of respirator for which the individual has been trained and fit-tested.

This training will include, but not be limited to:

1.Nature and degree of respiratory hazard

2.Respirator selection, based on the hazard and respirator capabilities and limitations

3.Donning procedures and fit tests including hand's-on practice to ensure an effective face piece to face seal

4. Actual handling of the respirator and wearing it for a period in a test atmosphere.

5. A discussion of respirators construction, operating principles and limitations.

6.Care of the respirator, e.g., need for cleaning, maintenance, storage, and/or replacement

7. Instruction on the nature of the hazard, including information on its physical properties, possible concentrations, modes of physiological action and means of detection.

8. Use and limitations of respirator

9. Discussions of maintenance and inspection procedures.

e. Inspection – For sanitary and health reasons, respirators will be disposable. Disposable respirators will be discarded properly after use by the individual. Inspection frequency for all unused devices shall be monthly. Units receiving routine use shall be inspected by the employee before and after each use. The inspection shall include the following checks when applicable.

1.Tightness of connections
2. Condition of facepiece, headbands, exhalation and inhalation valves, connecting tube, and canister
3. Pressure in cylinders (do not use if less than 1500 psi)
4. Deterioration of all rubber parts

The inspection shall include the following checks when applicable. (continued)

5. Regulator mechanism
6. Lens of facepieces
7. Warning alarm (self-contained units)
8. Seal on cartridge package

f. Location and Storage of Respirators – Location and storage of all respiratory devices shall be controlled by the Project Manager. When the need for respiratory equipment is anticipated, approval by the Project Manager should be obtained in advance.

After inspection, cleaning, and any necessary minor repairs, store respirators to protect against sunlight, heat, extreme cold, excessive moisture, damaging chemicals or other contaminants. Respirators placed at stations and work areas for emergency use shall be stored in compartments built for that purpose, shall be quickly accessible at all times and will be clearly marked. Routinely used respirators, such as half-mask or full-face air-purifying respirators, shall be placed in sealable plastic bags. Respirators may be stored in such places as lockers or tool boxes only if they are first placed in carrying cases or cartons. Respirators shall be packed or stored so that the facepiece and exhalation valves will rest in a normal position and not be crushed. Emergency use respirators shall be stored in a sturdy compartment that is quickly accessible and clearly marked.

g. Special Requirements for Confined Spaces – In areas immediately hazardous to life or health, self-contained breathing apparatus, air line respirators or hose masks with blowers shall be used. For emergency rescue, a standby person with suitable self-contained breathing apparatus shall be at the nearest fresh air base. Communications (visual, voice or signal line) shall be maintained between all individuals present.

Persons using air line respirators and hose masks with blowers shall be equipped with safety harnesses and safety lines for lifting or removing them from hazardous atmospheres, or other equivalent provisions for rescue from hazardous atmospheres shall be used. More details concerning respiratory protection for confined space entry can be found in the Company’s Confined Space Program.

Types of Respirators-

A. Air-Purifying Respirator

These respirators remove air contaminants by filtering, absorbing, adsorbing, or chemical reaction with the contaminants as they pass through the respirator canister or cartridge. This respirator is to be used only where adequate oxygen (19.5 to 23.5 percent by volume) is available. Air-purifying respirators can be classified as follows:

1. Particulate removing respirators, which filter out dusts, fibers, fumes and mists. These respirators may be single-use disposable respirators or respirators with replaceable filters.

NOTE: Surgical masks do not provide protection against air contaminants. They are never to be used in place of an air-purifying respirator. They are for medical use only.

2. Gas- and vapor-removing respirators, which remove specific individual contaminants or a combination of contaminants by absorption, adsorption or by chemical reaction. Gas masks and chemical-cartridge respirators are examples of gas- and vapor-removing respirators.

3. Combination particulate/gas- and vapor-removing respirators, which combine the respirator characteristics of both kinds of air-purifyingrespirators.

B. Supplied-Air Respirators

These respirators provide breathing air independent of the environment. Such respirators are to be used when the contaminant has insufficient odor, taste or irritating warning properties, or when the contaminant is of such high concentration or toxicity that an air-purifying respirator is inadequate. Supplied-air respirators, also called air-line respirators, are classified as follows:

1. Demand

This respirator supplies air to the user on demand (inhalation) which creates a negative pressure within the facepiece. Leakage into the facepiece may occur if there is a poor seal between the respirator and the user’s face.

2. Pressure-Demand

This respirator maintains a continuous positive pressure within the facepiece, thus preventing leakage into the facepiece.

3. Continuous Flow

This respirator maintains a continuous flow of air through the facepiece and prevents leakage into the facepiece.

C. Self-Contained Breathing Apparatus (SCBA)

This type of respirator allows the user complete independence from a fixed source of air and offers the greatest degree of protection but is also the most complex. Training and practice in its use and maintenance is essential. This type of device will be used in emergency situations only.

Identification of Respirator Cartridges and Gas Mask Canisters

Respirator cartridges and canisters are designed to protect against individual or a combination of potentially hazardous atmospheric contaminants, and are specifically labeled and color coded to indicate the type and nature of protection they provide.

An approved label on the respirator will also specify the maximum concentration of contaminant(s) for which the cartridge or canister is approved. For example, a label may read:

"DO NOT WEAR IN ATMOSPHERES IMMEDIATELY DANGEROUS TO LIFE. MUST BE USED IN AREAS CONTAINING 20.9 PERCENT OXYGEN. DO NOT WEAR IN ATMOSPHERES CONTAINING MORE THAN ONE-TENTH PERCENT ORGANIC VAPORS BY VOLUME. REFER TO COMPLETE LABEL ON RESPIRATOR OR CARTRIDGE CONTAINER FOR ASSEMBLY, MAINTENANCE, AND USE."

Warning Signs of Respirator Failure

A. Particulate Air-Purifying

When breathing difficulty is encountered with a filter respirator (due to partial clogging with increased resistance), the filter(s) must be replaced. Disposable filter respirators must be discarded.

B. Gas or Vapor Air-Purifying

If, when using a gas or vapor respirator (chemical cartridge or canister), any of the warning properties (e.g., odor, taste, eye irritation, or respiratory irritation) occur, promptly leave the area and check the following:

- Proper face seal
- Damaged or missing respirator parts
- Saturated or inappropriate cartridge or canister

If no discrepancies are observed, replace the cartridge or canister. If any of the warning properties appear again, the concentration of the contaminants may have exceeded the cartridge or canister design specification. When this occurs an airline respirator or SCBA is required.

C. Service Life of Air-Purifying Respirator Canisters and Cartridges

The canisters or cartridges of air-purifying respirators are intended to be used until filter resistance precludes further use, or the chemical sorbent is expended as signified by a specific warning property, e.g., odor, taste, etc. New canisters, cartridges or filters shall always be provided when a respirator is reissued. When in doubt about the previous use of the respirator, obtain a replacement canister or cartridge.

D. Supplied Air Respirator

When using an airlines respirator, leave the area immediately when the compressor failure alarm is activated or if an air pressure drop is sensed. When using an SCBA leave the area as soon as the air pressure alarm is activated.

Maintenance and Issuance of Respirators:

Maintenance

The maintenance of respiratory protective devices involves a thorough visual inspection for cleanliness and defects (i.e., cracking rubber, deterioration of straps, defective exhalation and inhalation valves, broken or cracked lenses, etc.). Worn or deteriorated parts will be replaced prior to reissue. No respirator with a known defect is reissued for use. No attempt is made to replace components, make adjustments or make repairs on any respirator beyond those recommended by the manufacturer. Under no circumstances will parts be substituted as such substitutions will invalidate the approval of the respirator. Any repair to reducing or admission valves, regulators, or alarms will be conducted by either the manufacturer or a qualified trained technician.

Cleaning of Respirators

All respirators in routine use shall be cleaned and sanitized on a periodic basis. Respirators used non-routinely shall be cleaned and sanitized after each use and filters and cartridges replaced. Routinely used respirators are maintained individually by the respirator wearer. Replacement cartridges and filters are obtained by contacting the Safety and Health Manager.

Cleaning and disinfection of respirators must be done frequently to ensure that skin-penetrating and dermatitis-causing contaminants are removed from the respirator surface. Respirators maintained for emergency use or those used by more than one person must be cleaned after each use by the user.

The following procedure is recommended for cleaning and disinfecting respirators:

1. Remove and discard all used filters, cartridges, or canisters.
2. Wash facepiece and breathing tube in a cleaner-disinfectant solution. A hand brush may be used to remove dirt. Solvents which can affect rubber and other parts shall not be used.
3. Rinse completely in clean, warm water.
4. Air dry in a clean area in such a way as to prevent distortion.
5. Clean other respirator parts as recommended by the manufacturer.
6. Inspect valves, headstraps, and other parts to ensure proper working condition.
7. Reassemble respirator and replace any defective parts.
8. Place in a clean, dry plastic bag or other suitable container for storage after each cleaning and disinfection.

Issuance of Respirators

Respiratory protective equipment shall not be ordered, purchased, or issued to personnel unless the respirator wearer has received respirator training and a fit test. New employees who require respiratory protective equipment, must be placed into the respirator program before being issued equipment.

APPENDIX A

RESPIRATOR TRAINING CERTIFICATION

I hereby certify that I have been trained in the proper use and limitations of the respirator issued to me. The training included the following:

1. Instruction on putting on, fitting, testing and wearing the respirator.

2. Instruction on inspection, cleaning, and maintaining the respirator.

3. Explanation of dangers related to misuse.

4. Instructions on emergency situations.

I further certify that I understand the use, care, and inspection of the respirator and have tested and worn the unit.

Date: _____

Signed:_____ SSN: _____

Respirator Type Issued: _____

Training Coordinator: _____

APPENDIX B – FIT TEST WORKSHEETS

QUALITATIVE RESPIRATOR FIT TEST

Name: _____ SSN: _____

Clean Shaven? __Yes __No

Spectacle Kit? ___Yes ___No

Manufacturer/Model _____ Size: ___S ___M ___L

Irritant Smoke ___Pass ___Fail

Isoamyl Acetate ___Pass ___Fail

Manufacturer/Model_____ Size: ___S___M___L

Irritant Smoke ___Pass ___Fail

Isoamyl Acetate ___Pass ___Fail

Examiner _____

Date_____

Employee _____

Date _____

APPENDIX B – FIT TEST WORKSHEETS

QUANTITATIVE RESPIRATOR FIT TEST REPORT

LAST NAME _____

FIRST NAME_____

ID NUMBER_____

NEXT TEST DUE_____

OPERATOR NAME_____

RESPIRATOR MODEL_____

•SIZE_____ •MANUFACTURER_____

•APPROVAL NUMBER_____

NOTES_____

TEST DATE_____

TEST TIME_____

TEST DATA

Fit Factor Pass Level: 100

Ex. Ambient
(Part/cc) Mask
(Part/cc) Fit FactorPass/FailNB
DB
SS
UD
R
NB
OVERALL FIT FACTOR = _____

Operator _____ Date _____

Subject_____ Date _____

Roof Labor Safety

Fall Protection Procedures shall be observed when working at heights greater than 6 feet. Refer to the Fall Protection Chapter for guidance.

Roof construction, repair, and other maintenance operations often require manual labor at dangerous heights and on steeply pitched working surfaces. The possibility of lost footing, decreased stability, and objects falling from such heights is great; appropriate employee safeguards shall be present. When employees of the Company are involved in such operations, the following minimum safety guidelines shall be followed to promote a safe and healthful workplace and guard against injury to others below the work area.

Training:

Each department head whose employees are required to perform duties on roofs shall insure that they receive safety training and comply with the minimum standards as specified in this document.

Catch Platforms:

A substantial catch platform shall be installed below the working area of roofs more than 20 feet from ground to eaves without a parapet, or 16 feet from ground to eaves with a slope greater than 4 inches in 12 without a parapet. The platform shall extend 2 feet in width beyond the projection of the eaves and shall be provided with a safety rail, mid-rail, and toeboard. This provision shall not apply where employees engaged in work upon such roofs are protected by a safety belt attached to a lifeline.

Safety Body Harnesses, Lifelines, and Lanyards:

Safety belts are not approved nor will they be worn when working at heights greater than 6 feet.

Where catch platforms are not in place, employees performing duties on a roof more than 20 feet from ground to eaves without a parapet, or 16 feet from ground to eaves with a slope greater than 4 inches in 12 inches without a parapet, shall be secured by an approved safety body harness attached to a lifeline.

The safety body harness lanyard shall be a minimum of 1/2- inch nylon, or equivalent, with a maximum length to provide for a fall of no greater than 2 feet. The rope shall have a nominal breaking strength of 5,400 pounds.

Lifelines shall be secured above the point of operation to an anchorage or structural member capable of supporting a minimum dead weight of 5,400 pounds. One employee acting as anchor for another does not fulfill this requirement.

Lifelines used in areas where they may be subjected to cutting or abrasion, shall be a minimum of 7/8-inch wire core manila rope. For all other lifeline applications, a minimum of 3/4- inch manila or equivalent, with a minimum breaking strength of 5,400

pounds, shall be used.
Lifelines, safety body harnesses, and lanyards shall be used only for employee safeguarding. Ropes used for hoisting lines and other purposes shall not be used as lifelines. Any lifeline, safety belt, or lanyard actually subjected to in-service loading, as distinguished from static testing, shall be immediately removed from employee safeguarding.

Safety Nets:

Where the use of ladders, scaffolds, catch platforms, temporary floors, safety lines, or safety body harnesses is impractical, safety nets shall be provided when workplaces are more than 20 feet above the ground, water, or other surface.

Roofing Brackets:

Roofing brackets shall be constructed to fit the pitch of the roof. In addition to the pointed metal projections, brackets shall be secured by nailing in place. The nails shall be driven full length into the roof. When rope supports are used, they shall consist of first-grade manila of at least 3/4-inch diameter, or equivalent.

Crawling Boards or Chicken Ladders:

Crawling boards shall not be less than 10 inches wide and one inch thick, having cleats 1 x 1-1/2 inches. The cleats shall be equal in length to the width of the board and spaced at equal intervals not to exceed 24 inches. Nails shall be driven through and clinched on the underside. The crawling board shall extend from the ridge pole to the eaves when used in connection with roof construction, repair, or maintenance.

A firmly fastened lifeline of at least 3/4-inch rope shall be strung beside each crawling board for a handhold.

Crawling boards shall be secured to the roof by means of adequate ridge hoods or equivalent effective means.

Use of Hoisting Lines:

When hoisting lines are used to raise tools or materials to a roof greater than 16 feet from ground to eaves without a parapet (or with a parapet less than 30 inches in height), the employee on the roof shall be secured by an approved safety body harness attached to a lifeline.

The safety body harness lanyard shall be a minimum of 1/2- inch nylon, or equivalent, with a maximum length to provide for a fall of no greater than 2 feet. The rope shall

have a nominal breaking strength of 5,400 pounds.

Work Site Isolation:

Prior to the start of roof construction, repair, or maintenance, the crew chief, foreman, or person in charge of the project shall insure that the area below the work site is isolated against entry by the use of barrier tape or other means.
If means of egress are to be blocked by ladders, scaffolds, or other equipment, or to isolate below a work site, prior approval must be obtained from an Environmental Health Services Department representative.

Personal Protective Equipment:

Employees involved in roof construction, repair, or maintenance operations shall use appropriate personal protective equipment including, but not limited to, hard hats, eye protection, and leather gloves.

If Conventional Fall Protection Systems are not used, OSHA Requires the Following:

- All workers who are allowed on the roof must be proficient in the alternate methods of fall protection. Affected employees must also be trained in the specific hazards associated with work on roofs which have rake edges.
- Roof surfaces must be inspected for slipping hazards--either eliminating them or taking measures to ensure that employees avoid them.
- Workers must wear appropriate foot wear to reduce slipping potential.
- Operations must be suspended when weather conditions such as high wind, rain, snow or sleet create a hazardous condition, and must remain suspended until the condition has passed.
- Damaged portions of the roof deck must be repaired as soon as practicable. Any holes (including skylight openings) must be protected either by covers or by installing guardrails.
- Employees must be protected with a safety monitoring system or by roofing slide guards.
- Workers must not ascend or descend the roof slope within 6 feet of the rake edge, except where such a limit on movement would prevent the performance of work.
- Supplies and materials must not be stored within 6 feet of the rake edge, or three feet where tile and metal roof systems are being installed.
- The area below eaves and rakes must be kept clear of materials and other objects which could pose impalement hazards, or they must be guarded properly.

The Company shall, when using roofing slide guards as fall protection, take additional precautions:

- On slopes of 6-in-12 or less, three rows of roofing material must be placed prior to installing slide guards. Guards must be capable of holding a worker's weight should that person slip.
- On roofs with slopes greater than 6-in-12, up to and including 8-in-12, eaves slide guards must be installed for the entire length of the eaves. Additional guards must be installed below the work area at intervals not to exceed 8 feet. While standing on the plank below, the employee must secure roof jacks with nails and add planks, then climb up to the plank and continue to install the roof. Once the roof is installed, the employee will climb down to a lower plank and remove above planking and roof jacks until all jacks and planking have been removed.
- **When a conventional method of fall protection must be provided:**
- On roofs of 8-in-12 or greater, and on roofs with slopes greater than 4-in-12 where the fall potential measured from eaves is greater than 25 feet.
- Conventional methods include safety nets, guardrails or a personal fall arrest system.

REFERENCES

29 CFR 1910.28 (T)	Crawling boards or chicken ladders
29 CFR 1926.451 (U)	Roofing brackets
29 CFR 1926.104	Safety belts, lifelines, and lanyards
29 CFR 1926.105	Safety nets
29 CFR 1910.28 (S)	Roofing brackets
29 CFR 1926.451 (U) (3)	Catch platforms

Scaffold Safety Program

Policy:

It is the policy of the Company to take all practical measures possible to prevent employees from being injured by falls from scaffolds. The Company will take all necessary steps to eliminate, prevent, and control fall hazards. The Company will comply fully with the OSHA Fall Protection standard (CFR 1926, Subpart M, Fall Protection).

Workers may die or be injured if scaffold equipment and fall protection systems are defective or misused.

A "Scaffold" means one or more working platforms suspended by ropes or other means from an overhead structure. Recent investigations by OSHA suggest that fatal falls occur as a result of defective scaffold equipment, improper installation or operation, improper training of workers, or a failure to use appropriate personal fall protection equipment.

Safety regulations of the Occupational Safety and Health Administration (OSHA) establish specific requirements for suspension scaffolds and their operation, including the use of fall protection systems. Our Company will ensure that all supervisors, and worker(s) involved in work from suspension scaffolds will comply with these regulations.

Background:

Falls are a leading cause of traumatic occupational death. The U.S. Department of Labor indicates that falls accounted for 8% of all occupational fatalities from trauma. Personal fall protection equipment was used in several of these incidents, but it was used improperly in each case. In several incidents, workers fell out of their improperly fastened safety belt or in the other incidents, excessively long lanyards broke or separated after victims fell 30 feet.

Responsibilities:

Supervisors of all employees that are required to work from scaffolds will ensure the following procedures are taken:

1. Comply with the current and proposed OSHA regulations for working with scaffolds.

2. Assure that design and construction of scaffolds conform with OSHA requirements.

3. Shield scaffold suspension ropes and body belt or harness system droplines (lifelines) from hot or corrosive processes, and protect them from sharp edges or

abrasion.

<u>Responsibilities</u>: (continued)

4. Inspect all scaffolds, scaffold components, and personal fall protection equipment before each use.

5. Provide personal fall protection equipment and make sure that it is used by all workers on suspension scaffolds.

6. Use structurally sound portions of buildings or other structures to anchor droplines for body belt or harness systems and tiebacks for suspension scaffold support devices. Droplines and tiebacks should be secured to separate anchor points on structural members.

7. Provide proper training for all workers who use any type of suspension scaffold or fall protection equipment.

8. Follow scaffold manufacturers' guidance regarding the assembly, rigging, and use of scaffolds.

Employees shall;

1. Inspect all scaffolds, scaffold components, and personal fall protection equipment before each use. Defective components must be removed from service and replaced.
2. Shield scaffold suspension ropes and body belt or harness system droplines (lifelines) from hot or corrosive processes, and protect them from sharp edges or abrasion.
3. Wear a body belt or body harness which may include a deceleration device, lifeline, or suitable combinations. The body belt or body harness shall be rigged so that an employee can neither free fall more than 6 feet nor contact any lower level and bring an employee to a complete stop and limit the maximum deceleration distance an employee travels to 3.5 feet

The use of body belts for fall arrest is prohibited

General Scaffold Requirements:

Supervisors and employees will insure that the following operating procedures are observed:

Scaffolds must be substantially constructed to carry the loads imposed upon them and to provide a safe work platform. All scaffolds more than 10' high must have approved guardrails on all ends exposed ends and sides.

Guardrails, mid-rails, and toe boards must be installed on all open sides of scaffolds 10' high or more in height.

Only approved scaffolds will be used. Barrels, boxes, rebar. Or other make-shift substitutes for scaffolds will not be used.
Scaffold planks must be cleated together, and must extend over the end supports at least 6 inches, but not more than 12 inches.

All scaffold planks must be visually inspected before each use. Damaged scaffold planks must be destroyed immediately.

All scaffold planks must be at least two planks wide: No employee may work from a single plank.

Adequate mud sills or other rigid footing, capable of withstanding the maximum intended load, must be provided.

Scaffolds must be tied to the building or structure at intervals which do not exceed 30 feet horizontally and 26 feet vertically.

Do not overload scaffolds. Materials should be brought up as needed. Scaffolds must not be loaded in excess of one-fourth of their rated capability.

Where persons are required to work or pass under scaffolds, a screen of 18 guage, ½ inch wire mesh is required between the toe and guard rail.

Overhead protection is required if employees working on scaffolds are exposed to overhead hazards. Such protection must be a 2" thick plank or equivalent.

Diagonal bracing must be used on all support components.

Midrails 1" X 6" or equivalent must be present on all sides.

Ladders will be used as a means of entry onto and exit off of the scaffold.

Rolling Scaffolds- General Requirements:

The height of the rolling scaffold must not exceed four times the minimum base dimension.

The work platform must be planked tight for the full width of the scaffold. Cleat the underside of the planks to prevent their movement.

Caster breaks must be locked when the scaffold is not in motion.

Get help when moving rolling scaffolds. Make certain that the route is clear. Watch for holes and overhead obstructions.

No one shall be permitted to ride on rolling scaffolds.

Two Point Suspended Scaffolds (Swinging Stages) General Requirements:

Each employee working from a two point suspended scaffold must be tied off to an independent safety line.

Suspended scaffolds must be not less than 20 inches nor more than 36 inches wide.

Wire ropes used to suspend such scaffolds must be able to withstand a load that is six times the load it is intended to support.

Non–conductive insulating material must be placed over suspension cables of each scaffold for protection when the chance of contact with an electric arc exists.

Design and Construction of Scaffolds:

The design and construction of scaffolds must conform with OSHA requirements concerning type of equipment, rated capacities, construction methods, and use. Each scaffold and scaffold component must be capable of supporting its own weight plus at least four times the maximum intended load without failure. Each suspension rope must be capable of supporting at least six times the maximum intended load.

Shielding of Ropes

Suspension ropes and droplines for body belt or harness systems should be shielded from:

- heat-producing processes such as welding,
- acids or other corrosive substances, and

• sharp edges or abrasions.

Such ropes should be made from material that is not adversely affected by heat or by acids or other corrosives.

Inspection

Supervisors and Employees will inspect all scaffolds and scaffold components for visible defects before use on each work shift. Scaffolds will be erected, moved, dismantled, or altered only under the supervision of a competent person.

All components of personal fall protection equipment (including body belts or harnesses, lanyards, droplines, trolley lines, and points of anchorage) should be inspected by Supervisors and Employees before use. Any visibly damaged or worn equipment should be removed from service immediately.

Use of Fall Protection Equipment

The Company will provide appropriate fall protection systems and ensure their use by all workers on suspension scaffolds. Generally, these workers will be protected by a Type I guardrail system [see note 2 below] or a combination of body belt or harness system with a Type II guardrail system [see note 3 below].

However, when single-point and two-point adjustable suspension scaffolds are used, workers must be protected by both a body belt or harness system and a Type I or Type II guardrail system. Also, when boatswain chairs, catenary scaffolds, and float scaffolds are used, workers must be protected only by a harness system.

Use of Structural Members as Anchor Points:

Structurally sound portions of buildings or other structures must be used to anchor droplines for body belt or harness systems and tiebacks for suspension scaffold support devices. Droplines and tiebacks should be secured to separate anchor points of structural members. Owners, architects, and engineers planning renovation or designing new facilities should incorporate strategically located anchor points on structural members of buildings for future exterior maintenance and repair work.

Proper Training of Workers

The Company will provide workers with proper training, including the manufacturers' recommendations for installing and operating suspended scaffold systems and for using personal fall protection equipment. Untrained personnel should never be permitted to work from any type of suspension scaffold.

NOTES

1. Fall protection systems consist of harness systems (personal fall arrest systems) used independently or in combination with guardrail systems.

2. Type I guardrail systems are those capable of providing adequate fall protection without the use of body belts.

3. Type II guardrail systems are those that delineate the scaffold edge, restrain

movement, provide handholds, and prevent mis-stepping. Type II systems must be supplemented by body belt or harness systems to provide adequate fall protection

Tool Box Talks/Work Group Safety Meetings Policy

Purpose:

The purpose of Tool Box Talks/Work Group Safety Meetings is to provide a method for the dissemination of information to all employees regarding safety and health issues.

Regular Tool Box Talks/Work Group Safety Meetings demonstrate the Company's concern for the lives and well being of its employees. Tool Box Talks/Work Group Safety Meetings help build a cooperative climate by providing employees with the opportunity to contribute ideas, and to make suggestions that may improve quality, productivity, morale, and safety.

Safety education is required of all employees *at all levels* within the organization. The Company will have a formalized safety training program to prevent accidents and to train employees to do their job safely. Scheduled, Tool Box Talks/Work Group Safety Meetings, will be conducted every Monday morning at 8:00 am. and at times deemed necessary by the Safety and Health Manager or supervisory personnel

Responsibilities:

The Company President will provide the direction and motivation to ensure that all managers conduct regular Tool Box Talks/Work Group Safety Meetings.

Managers and Supervisory Personnel that conduct safety discussions will maintain a log of what was discussed and who attended the meeting. This information shall be turned over to the Safety and Health Manager on a weekly basis.

The Project Manager shall be a resource for safety and health discussion topics, and shall keep all documentation of all training at a central location.

Employees are required to attend all Tool Box Talks/Work Group Safety Meetings. In the event an employee misses a Tool Box Talk/Work Group Safety Meeting, the employee shall be given individual instruction by their supervisor concerning what was discussed/covered. The supervisor shall document this "training session" and will provide the Safety and Health Manager with this documentation.

Procedure:

The Tool Box Talk/Work Group Safety Meeting is a method used by this Company to develop the employees' safety awareness.

Conducting Tool Box Talks/Work Group Safety Meetings

For greatest effectiveness, cover subjects that most interest the employees. These topics might include accidents, inspection results, the safety program, or a work procedure.

These weekly meetings should last no longer than 15-30 minutes. Ideally, the meeting would include time for active participation by employees; at the least, there should be a question and answer session.

Schedule meetings at the beginning of new operations to ensure that all of the employees are familiar with safe job procedures and the requirements of the upcoming work. These meetings save a lot of time in the long run.

Tool Box Talks/Work Group Safety Meetings may be either motivational or instructional. The motivational meeting creates awareness and aims at worker self protection. The instructional meeting covers a particular job task or procedure.

The supervisor is the key management communicator for work groups, because he or she is most familiar with the individual workers and their work requirements.

Welding and Metal Fabrication

Policy:

Welding, cutting and brazing operations present a series of hazardous situations with potential exposure to burns, eye damage, electrical shock, crushed toes and fingers, and the inhalation of vapors and fumes. Many welding, cutting and brazing accidents result from:

- Inadequately trained personnel.
- Poor housekeeping practices.
- Poor shop layout.
- Inadequate lighting and ventilation.
- Improper storage and movement of compressed gas cylinders.
- Exposure of oxygen cylinders and fittings to oil or grease creating a fire or explosive hazard.
- Pointing welding or cutting torches at a concrete surface causing spattering and flying fragments of concrete.
- Electric shock when motors, generators and other electric welding equipment are not grounded.
- Inhalation of toxic fumes or vapors from welding metals or alloys.

Fires, explosions, and injuries can occur resulting from:

- The proximity of combustible solids, liquids, or dusts.
- The presence or development of possible explosive mixtures of flammable gases and air.
- The presence or nature of an oxygen-enriched atmosphere in locations where hot work is performed.

Cutters and welders, and other exposed personnel, are also susceptible to eye injury from infrared light and ultraviolet radiation.

Procedures:

The following provides minimum guidance on procedures and operating precautions:

Provide ventilation in shops or rooms where work is to be performed but avoid strong drafts directed at the welding work.

Do not place work to be welded or heated on a concrete floor. Concrete, when

heated, may splatter and fly, exposing the welder to possible burns (and also throwing hot particles a considerable distance creating a potential fire hazard).

The following provides procedures and operating precautions: (continued)

Provide appropriate protection for welders and helpers when working on elevated surfaces. Welding areas shall be kept neat, clean, and free from tripping hazards.

Provide approved personal protective equipment for welders who must enter confined spaces, manholes or other space restricted areas. Also, provide a means to ensure their quick removal in case of an emergency.

Do not perform cutting and welding operations in sprinklered buildings when the sprinkler system is inoperable; in explosive atmospheres or where explosive atmospheres may develop; or, within 50 feet of storage of large quantities of exposed, readily ignitable materials.

Before lighting the torch for the first time each day, allow enough of each gas to flow through its respective hose to purge any flammable gas mixture.

Purge hoses in open spaces and away from ignition sources. Light the torch with a friction lighter or stationary pilot flame keeping a safe distance between he torch and the welder’s hands. Point the torch away from persons or combustible materials when lighting. Do not attempt to light a torch from hot metal.

When working in a confined space, the fuel gas and oxygen supply shall be located outside the confined space. The torch and hose should be removed from confined spaces when not in use.

Fuel gas and oxygen torch valves shall be closed and the fuel gas and oxygen supply to the torch shall be shut off during lunch or break periods, when not in use for extended periods, and when unattended.

Welding torch hoses must be protected from damage by contact with hot metal, open flames, corrosive agents or sharp edges. Pressure on hoses will be released at the end of each workday. Hoses must be visually inspected for damage at the beginning of each shift. Hose showing leaks, cuts, burns, worn spots or other evidence of deterioration must be repaired or replaced prior to use. Replacement hoses or fittings must be approved for use with acetylene equipment.

Shielding shall be provided to protect personnel from heat, sparks, slag, light, and radiation.

A fire watch will be maintained for at least 30 minutes after completion of cutting or welding operations to detect and extinguish possible smoldering fires.

Personal Protective Equipment:

Key portions of OSHA Standard 1910.252 covering protective equipment are included here. Personnel engaged in or exposed to welding, cutting, or brazing activities will be provided and use personal protective equipment to include eye and face protection, head protection when in a hard hat area, foot protection, and body, arm, and hand protection.

a. Eye Protection

b. Helmets shall be used during all arc welding or arc cutting operations. Goggles should also be worn during arc welding or cutting operations to provide protection from injurious rays from adjacent work, and from flying objects. The goggles may have either clear or colored glass, depending upon the amount of exposure to adjacent welding operations. Helpers or attendants shall be provided with proper eye protection. Helmets shall be arranged to protect the face, neck, and ears from direct radiant energy from the arc.

d. Goggles or other suitable eye protection shall be used during all gas welding or oxygen cutting operations. Spectacles with side shields and suitable filter lenses are permitted for use during gas welding operations on light work, for torch brazing or for inspection. Goggles shall be ventilated to prevent fogging of the lenses as much as practicable.

e. All operators and attendants of resistance welding or resistance brazing equipment shall use transparent face shields or goggles, depending on the particular job, to protect their faces or eyes, as required.

e. Eye protection in the form of suitable goggles shall be provided where needed for brazing operations.

Protective Clothing:

a. All welders should wear flame-resistant gauntlet gloves and shirts with sleeves of sufficient length and construction to protect the arms from heat, UV radiation, and sparks.

b. All welders should wear fire-resistant aprons, coveralls, and leggings.

c. Clothing should be kept reasonably free of oil or grease. Front pockets and upturned

sleeves or cuffs should be prohibited, and sleeves and collars should be kept buttoned to prevent hot metal slag or sparks from contacting the skin.

Respiratory Protection:

The Project Manager shall be responsible for contractors assessing the need to determine appropriate levels of respiratory protection to be worn by personnel performing welding operations.

Fire Prevention and Protection:

1. The welding operation environment shall be free of flammable liquids and vapors. Combustible materials within a radius of 35 feet of the operation will be protected from activity residue (flame, heat, sparks, slag, etc.).

2. Fire watcher procedures shall be implemented whenever welding activities are conducted within 35 feet of combustible materials, regardless of protection provided. A qualified individual proficient in the operation of available fire extinguishing equipment and knowledgeable of fire reporting procedures shall observe welding or cutting activities. His or her duty is to detect and prevent the spread of fire produced by welding or cutting activities.

3. Whenever there are cracks or other floor openings within 35 feet of the welding or cutting that cannot be closed or covered, precautions shall be taken to remove or otherwise protect combustible materials on the floor below that may be exposed to sparks. The same precautions shall be observed with regard to cracks or openings in walls, open doorways, and open or broken windows.

4. Fire extinguishing equipment shall be maintained, ready for use, while welding or cutting operations are being performed. Equipment may consist of pails of water, buckets of sand, hose, or portable extinguishers depending upon the nature and quantity of the combustible material exposed.

5. Where sprinkler protection exists, it shall be in full service while welding or cutting work is being performed. If welding or cutting is to be done within three feet of automatic sprinkler heads, noncombustible sheet material or damp cloth guards will be used to temporarily shield the individual heads.

Welding and Cutting Tanks, Cylinders, or Containers:

The procedures described below apply only to tanks too small to be entered. Compressed gas cylinders are excluded as are pipelines. Cutting and welding on

containers that have held flammable liquids or gases shall be under the direct supervision of knowledgeable personnel.

Inspection-

BEFORE any tank, cylinder, or other container is cut, welded, or other hot work is performed, the item shall be purged or made inert. New containers shall also be made inert as they may contain a flammable preservative which could form explosive vapors when heated. Welders shall also ensure that there are no substances such as grease, tars, or acids which, when subjected to heat, might produce explosive or toxic vapors. Any pipe lines or connections to the drums, cylinders, tanks, or other containers shall be disconnected or blanked.

Purging and Inerting-

Purging with Water

Where the liquid or gas previously contained is known to be readily displaced or easily soluble in water, it can be removed by completely filling the container with water and then draining. When hot work is performed on containers filled with water, extreme care shall be used to eliminate any vapor accumulation by proper venting or positioning of the container during the filling operation.

Purging with Air

Hazardous vapors may be displaced from inside containers by purging with air. A safe atmosphere shall be maintained by continuous ventilation.

Inerting with Gas

Inert gas may be used to displace flammable gas from the container. Adequate ventilation shall be maintained during the operation to ensure gas concentrations remain below hazardous levels.

Examples of inert gases are carbon dioxide and nitrogen.

Venting-

All hollow spaces, cavities, or containers shall be vented to permit the escape of air or gases before and during preheating, cutting, or welding.

Arc Welding:

Arc welding equipment shall conform to the design and installation criteria of OSHA 29 CFR 1910.252, “Welding, Cutting, and Brazing.” The frame or case of the welding machine (except engine-driven machines) shall be grounded under the conditions and according to the methods prescribed in OSHA Standard 1910, Subpart S, “Electrical”, and 1910.252.

Before starting operations, all connections to the arc welding machine shall be checked. The work lead shall be firmly attached to the work; contact surfaces of the magnetic work clamps shall be free of metal splatter particles. Coiled welding cable shall be spread out before use to avoid serious overheating and damage to insulation. Work and electrode lead cables shall be inspected for damage and wear before use. Cables with damaged insulation or exposed conductors shall be replaced. Electrode cables shall be joined and insulated in accordance with approved methods.

Grounding of the welding machine from shall be checked. Special attention shall be given to the ground connections of portable machines.

Electrode holders, when not in use, shall be placed where they cannot make electrical contact with persons, conducting objects, fuel, or compressed gas cylinders.

When it is necessary to splice cables to extend their length, only certified electricians shall make the splices. Cables with splices within 10 feet of the electrode holder shall not be used. The welder shall not coil or loop welding electrode cables around parts of their body.

Welders shall not place welding cable and other equipment where it will obstruct passageways, ladders, and stairways.

Machines which have become wet shall be thoroughly dried and tested before being used.

When welders are working close to one another on one structure where they may touch the exposed parts of more than one electrode holder simultaneously, the machines shall be connected to minimize shock hazard as follows:

All direct current (DC) machines shall be connected with the same polarity.

All alternating current (AC) machines shall be connected to the same phase of the

supply circuit and with the same instantaneous polarity.

Resistance Welding:

Thermal Protection

> Every pair of ignition tubes used in resistance welding equipment shall be equipped with a thermal protection switch. When used in a series-connected water line, a single switch shall be adequate if related to the downstream tube.

Control Safeguards

> Controls, such as push buttons, foot switches, retraction, and dual-schedule switches on portable guns, etc., shall be arranged or guarded to prevent inadvertent activation.

Guarding Welding Machines

> Multi-gun welding machines shall be effectively guarded at the point of operation. Devices such as an electronic eye, latches, blocks, barriers, or two-hand controls shall be installed. All chains, gears, operating bus linkage, and belts shall be protected by adequate guards.

Electrical Hazards:

All external weld-initiating control circuits shall operate on low voltage, not over 120 bolts for stationary equipment and not over 36 volts for portable equipment. All electrical equipment shall be suitably interlocked and insulated to prevent access by unauthorized persons to live portions of the equipment. Only non-ferrous welding clamps should be used to prevent magnetic induction during actuation of the equipment.

Welding in Confined Spaces Procedures-

> Confined space means a relatively small or restricted space such as a tank, boiler, pressure vessel, mixing vat, sump, or pit. Ventilation is a prerequisite to work in confined spaces. All welding and cutting operations carried on in confined spaces shall be adequately ventilated to prevent the accumulation of toxic materials, possible oxygen deficiency, or explosive atmosphere.
>
> This applies not only to the welder but also to helpers and other personnel in the immediate vicinity. All air replacing *that* which is withdrawn shall be clear and breathable. Oxygen shall never be used as makeup air.
>
> In such circumstances where it is impossible to provide such ventilation, respirators or hose masks approved for this purpose by NIOSH/MSHA shall be

used. In areas immediately hazardous to life, hose masks with blowers or self-contained breathing apparatus shall be used.

Welding in Confined Spaces Procedures- (continued)

Where welding operations are carried on in a confined space and where welders and helpers are provided with hose masks, hose masks with blowers, or self-contained breathing apparatus, a worker shall be stationed on the outside of the confined space to ensure the safety of those working within.

When welding or cutting is being performed in any confined space, the gas cylinders and welding machines shall be left on the outside. Before operations are started, heavy portable equipment mounted on wheels shall be securely blocked to prevent accidental movement.

Where a welder must enter a confined space through a manhole or other small opening, a means shall be provided for quick removal of the worker in case of emergency. When safety belts and lifelines are used for this purpose, they shall be attached to the welder's body in a way that ensures his or her body cannot be jammed in a small exit opening. A wrist harness assembly shall be used. An attendant with a preplanned rescue procedure shall be stationed outside to observe the welder at all times and shall be capable of putting rescue operations into effect.

When arc welding is to be stopped for any substantial period of time, such as during lunch or overnight, all electrodes shall be removed from the holders and the holders carefully located so accidental contact cannot occur. The machine shall be disconnected from the power source.

When gas welding or cutting, the torch valves shall be closed and the fuel-gas and oxygen supply to the torch positively shut off at some point outside the confined area whenever the torch is not to be used for a substantial period of time, such as during lunch or overnight. Where practicable, the torch and hose shall also be removed from the confined space.

All confined spaces shall be monitored for oxygen content, combustible vapors, and toxic material prior to entry and periodically throughout the operation. Periodic testing shall depend on the type of space being entered. The Safety and Health Manager shall be consulted for guidance.

Portable Gas Units Procedures-

Portable gas welding, cutting, and brazing equipment must be of a type approved for the use intended.

Cylinders of compressed gas must have pressure reducing regulators installed.

Portable Gas Units Procedures- (continued)

Cylinders in use or in a transport must be stored in an upright position and secured to prevent them from falling.

Pressure hoses shall be secured to prevent whipping.

Oxygen cylinders and fittings shall be kept free of grease and oil at all times.

Cylinders shall be kept away from external sources of heat at all times.

Cylinders shall not be dropped of handled roughly. Cylinders or welding sets in excess of 40 pounds total weight shall be transported to and from work sites by push cart or motorized vehicle.

Portable Electric Unit Procedures-

Circuits shall be de-energized before testing, checking or transporting.

Motor-generator sets and other electrical welding equipment shall be grounded prior to use.

Rotary and polarity switches shall not be operated while the equipment is under an electrical load.

Arc welding equipment shall be inspected periodically and inspected prior to use following relocation. Power cables and electrode holders shall be inspected prior to every use.

Sheet Metal:

1.Machines shall be guarded in accordance with manufacturer's requirements.

2.Supervisors shall ensure sharp metal is stored in an area that will not pose a hazard to machine operators or personnel walking through designated aisles.

3. Work gloves shall always be worn when working with metal and metal scraps.

4. Hearing protection shall be worn when working in designated hazardous noise areas with noise sources operating or when using hand tools labeled hazardous noise producers.

Workplace Violence Policy

PREVENTING ACTS OF AGGRESSION, THREATENING BEHAVIOR, AND VIOLENCE IN THE WORKPLACE

Background:

An average of 20 workers are murdered each week in the United States. The majority of these murders are robbery-related crimes. In addition, an estimated 1 million workers are assaulted annually in U.S. workplaces. Most of these assaults occur in service settings such as hospitals, nursing homes, and social service agencies. Factors that place workers at risk for violence in the workplace include interacting with the public, exchanging money, delivering services or goods, working late at night or during early morning hours, working alone, guarding valuables or property, and dealing with violent people or volatile situations.

The Company recognizes workplace violence as a serious occupational problem. In a June 1996 report, the National Institute for Occupational Safety and Health (NIOSH) published data that revealed homicide has become the second leading overall cause of occupational injury and death, exceeded only by motor-vehicle-related deaths. This report also
identified homicide as the leading cause of occupational injury and death for female workers. The Northwestern National Life notes the seriousness of workplace violence in their 1993 report, which states that of every four full-time workers, one is harassed, threatened, or attacked on the job each year. Many incidents can be avoided by employees who are able to recognize early warning signs of potential violence, know when and how to report concerns, and know how to implement the steps to defuse situations before they become violent.

Purpose and Scope:

The purpose of this policy is to provide a safe workplace free from aggressive, threatening, or violent acts through the development and implementation of an effective program that provides a safe workplace. The provisions of this Policy apply to all work sites owned or controlled by the Company and at which work is performed for the Company.

Policy:

It is the policy of the Company to provide a safe workplace for its employees. To this end, all elements of the Company are expected to implement a program to prevent and respond to violence in the workplace.

For purposes of this policy, violence is defined as the deliberate and wrongful violation, damage, or abuse of other persons, self, or property and includes threats of violence. Acts of violence and threats thereof include, but may not be limited to:

- verbal (such as threats, harassment, abuse, and intimidation),
- non-verbal (such as gestures and intimidation),
- physical (such as hitting, pushing, shoving, kicking, touching, and assault), and
- other (such as arson, sabotage, vandalism, and stalking).

It is important that all threats be taken seriously. The threat should not be ignored in the hope that it will resolve itself or out of fear of triggering an outburst from the person who has lodged the threat. If someone poses a danger to himself or others, appropriate authorities should be notified and action should be taken.

It is Company Policy to notify the police if any employee is threatened by anyone.

In developing this program, all sites shall consider the following:

1) A site-specific workplace violence policy and plan that includes written objectives and requirements for all organizational elements and incorporates the overall company policy in identifying and addressing threatening workplace behavior.

2) A review and approval of each plan by the cognizant manager. Specific protocols to be considered in the approval of such plans include:

a) Establishment of crisis assessment and response teams to include all interested stakeholders;

b) Maintenance of information on incidents of violence for review and analysis;

c) Establishment of a procedure for employees to confidentially report threatening situations and other relevant information to management

3) An awareness program for workplace violence prevention which should include:

a) Initial awareness and response orientation and instruction for management and supervisors;

b) Initial awareness orientation and information for workers, including new employee orientation as necessary;

c) Refresher awareness training on an as needed basis for all employees.

4) Written communication from each site to the responsible office of all incidents of violence and subsequent outcomes as the incidents occur.

5) Written communication from each organizational element to human resources of all incidents of violence involving employees and subsequent outcomes.

6) A written quarterly report from each site of all workplace violence incidents and outcomes submitted to the responsible office with a copy of this report forwarded to the occupational health department.

The cognizant manager should include information on workplace violence incidents and outcomes involving the workforce in this submittal.

Responsibilities:

The Divisional Manager will provide specific guidance for implementation of this program.

Supervisors will develop implementation plans incorporating the program requirements for prevention of, and response to, workplace violence of this program for employees

Implementation:

All departmental elements will modify their responsibilities, organizations, management processes, and missions as needed to ensure implementation of this policy.

POSSIBLE RISK FACTORS AND PREVENTIVE MEASURES

Risk Factors

Researchers have suggested a number of factors that may increase the risk of violence, injury and homicide in the workplace. The following are examples of these factors:

- Exchange of money with the public
- Working alone or in small numbers
- Working late night or early morning hours
- Working in high-crime areas
- Guarding valuable property or possessions
- Working in community settings (e.g., taxicab drivers and police)

Preventive Measures

Immediate preventive measures are needed to reduce the large number of occupational violence and homicides each year. The preventive measures

presented here may provide some protection to workers until research studies can be conducted to evaluate their effectiveness.

A number of environmental and behavioral measures have been proposed for reducing occupational violence and homicides in high-risk establishments and occupations. These measures include the following:

- Make high-risk areas visible to more people.
- Install good external lighting.
- Use drop safes to minimize cash on hand.
- Carry small amounts of cash.
- Post signs stating that limited cash is on hand.
- Install silent alarms.
- Install surveillance cameras.
- Increase the number of staff on duty.
- Provide training in conflict resolution and nonviolent response.
- Avoid resistance during a robbery.
- Provide bullet-proof barriers or enclosures.
- Have police check on workers routinely.
- Close establishments during high-risk hours (late at night and early in the morning).

Conclusions:

Occupational violence and homicide is a serious public health problem, but many employers and workers may be unaware of the risk. No current OSHA regulations apply specifically to occupational violence or homicide, but a great need exists for worker protection from intentional injury in the workplace.

High-risk workplaces include taxicab establishments, liquor stores, gas stations, detective/protective services, justice/public order establishments, grocery stores, jewelry stores, hotels/motels, and eating/drinking places. High-risk occupations are taxicab drivers/chauffeurs, law enforcement officers (police officers/sheriffs), hotel clerks, gas station workers, security guards, stock handlers/baggers, store owners/managers, and bartenders. Employers in these high-risk establishments and occupations need to be aware of the risk for homicide and take steps to ensure a safe workplace.

RECOMMENDATIONS

NIOSH recommends that the following steps be taken to prevent occupational injuries and homicides. The Company will take these steps:

- Evaluate the factors or situations in the workplace that may place workers at risk, and
- Carefully consider intervention efforts that might minimize/remove risk.

Vehicle Operation

Policy:

Vehicles are to be operated in a safe manner consistent with local, state and federal laws. All accidents must be reported promptly according to procedures outlined below. The use of vehicles is limited to necessary Company business.

Personnel permitted to drive vehicles (e.g. Company automobiles, delivery vehicles, trucks, forklifts, tractors, loaders, back hoes, bobcats, mowers, etc.) must demonstrate the knowledge and ability to operate the equipment safely to the satisfaction of a qualified examiner.

Responsibilities:

a. Driver's Supervisor

1. Ensures that employees under his/her supervision who drive vehicles possess a valid state driver's license.

2. Ensures that vehicles are used only for official Company business and carries only Company employees who are authorized passengers.

3. Ensures all operators of powered industrial trucks are properly trained in the operation of the vehicles.

4. Ensures all vehicle drivers have the necessary medical examinations to ensure that the driver is physically qualified to operate the equipment.

5. Regularly inspects vehicles and vehicle systems.

b. Employee

1. Carries the required, valid state driver's license

2. Inspects daily the vehicle before it is used. Items to be checked should include the forks, batteries, wheels, cables, lights, horns, back-up alarm, mirrors, steering, brakes, tires and controls.

3. Reports any defects or malfunctions to the supervisor immediately. Does not use a malfunctioning vehicle if the defect impairs the safe operation or use of the vehicle.

4. Operates equipment safely and in accordance to operating instructions.

5. Wears appropriate protective equipment at all times.

c. Divisional Manager

1. Maintains with the Supervisor, records of employee qualification tests.

2. Assists, when necessary, in selection and designation of jobs which require powered industrial trucks.

3. Periodically and routinely inspects vehicles and vehicle operations.

4. Coordinates with the supervisor, training programs for use and operation of the vehicles.

General Requirement:

a. The examiner will administer a driving test to each prospective operator.

b. The operator is required to:

1. Point to and explain the following controls: lift, tilt, forward and reverse gears.

2. Perform all driving and loading/unloading maneuvers deemed necessary by the examining official.

c. Upon satisfactory completion of the test procedures, a permit card shall be signed by the examiner and motor vehicle licensing official. The permit shall be valid as long as health requirements and safe operating techniques are met.

Operating Rules and Practices:

a. Safeguard pedestrians at all times. Do not drive a truck up to anyone standing in front of a stationary or fixed object (e.g., a bench or parked vehicle).

b. Do not allow anyone to stand or pass under the elevated portion of any truck or lift.

c. Unauthorized personnel shall not be permitted to ride on or operate powered industrial trucks.

d. Never allow anyone to ride the forks, while the vehicle is in motion, or to lift them to a higher level except with a personnel platform.

<u>Operating Rules and Practices</u>: (continued)

e. Do not put arms or legs between the uprights of the mast or outside the running lines of the truck.

f. When leaving a powered industrial truck unattended, lift platform shall be fully lowered, controls shall be neutralized, power shut off, brakes set, key or connector plug removed. Block wheels if truck is parked on an incline.

g. When you park the machine, lower the forks so they are flat on the ground.

h. Maintain a safe distance from edge or ramps or platforms.

i. Be sure of sufficient head room under overhead installations, lights, pipes, sprinkler systems, etc.

j. Use an overhead guard as protection against falling objects.

k. Use a load backrest extension whenever necessary to minimize the possibility of the load or part of it falling rearward.

l. Report to supervisor all accidents involving personnel, building structures, and equipment.

m. Obey all safety signs and markers.

n. Never exceed trucks' rated capacity.

o. Never travel with load above five feet.

p. Avoid sudden stops and starts when loaded.

q. Do not use fork extensions.

<u>Use of Powered Mowers, Tractors, etc.</u>

a. Operation is limited to qualified operators approved for use of specific equipment. Equipment may also be used by supervised individuals who are training for certification.

b. Equipment operators must wear approved safety shoes, and, as appropriate, eye and hearing protection.

Motor Vehicle Accident:

a. In cases of accident:

1. Stop immediately.

2. Take steps to prevent another accident at the scene.

3. Call a doctor or ambulance, if necessary.

4. Notify police.

5. DO NOT sign any paper or make any statement as to who was at fault (except to your supervisor or to a Federal Government investigator).

6. Obtain the name and address of each witness.

7. Provide your name, address, place of employment, name of your supervisor, and upon request, show your operator's permit.

8. Make notes of the following:

a. Registration information for other vehicle(s) (owner's name, tag number and state, serial number, and vehicle description).

b. Information on other driver (name, address, operator's permit number, and expiration date).

c. Name and address of each person involved and extent of injury, if any.

d. Name and address of company insuring other vehicle(s).

e. General information such as location, time, measurements, weather, damage, etc.

9. As soon as possible, notify your supervisor and, if driving an interagency motor pool vehicle, the manager of the pool which issued the vehicle.

10. If the vehicle is unsafe to operate, have it towed to the nearest garage or service station.

11. If you are injured, notify your immediate supervisor.

12. Submit all reports and data to your supervisor within one working day.

13. If you are injured have the police notify your supervisor who will assume

your responsibilities for reporting the accident.

APPENDIX C

Phase I Performed by PSI

Report of
Phase I Environmental Site Assessment

Proposed Self Storage
3075 & 3131 Richmond Terrace
Staten Island, NY 10303

Prepared for

Devon Self Storage Holdings (US), LLC
2000 Powell Street
Emeryville, CA 94608

Prepared by

Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162
Telephone: 708-236-0720

May 25, 2007

PSI Project 046-7E014

TABLE OF CONTENTS

1 FINDINGS AND CONCLUSIONS 2
1.1 PHASE I ESA 2
1.2 RECOMMENDATIONS 2
2 INTRODUCTION 2
2.1 CONTRACT 2
2.2 PURPOSE OF SERVICES 2
2.3 STANDARD OF CARE AND WARRANTIES 2
2.4 USE BY OTHER PARTIES 2
3 SCOPE AND RESOURCES 2
3.1 PHASE I ESA 2
3.2 OTHER ENVIRONMENTAL ISSUES 2
3.3 SIGNIFICANT ASSUMPTIONS 2
3.4 LIMITATIONS, EXCEPTIONS, DEVIATIONS AND DATA GAP 2
4 USER-PROVIDED INFORMATION 2
4.1 USER'S RESPONSIBILITIES 2
4.2 HELPFUL DOCUMENTS 2
4.3 PROCEEDINGS 2
4.4 SUGGESTED INFORMATION 2
4.5 FINDINGS 2
5 SUBJECT PROPERTY USAGE 2
5.1 LOCATION AND LEGAL DESCRIPTION 2
5.2 PHYSICAL SETTING 2
5.3 CURRENT USES 2
5.4 PAST USES 2
6 ADJOINING AND SURROUNDING PROPERTY USAGE 2
7 ENVIRONMENTAL REGULATORY RECORDS REVIEW 2
7.1 DATABASE FINDINGS 2
7.2 OTHER REGULATORY INFORMATION 2
8 INTERVIEWS 2
8.1 INTERVIEW PARTIES 2
8.2 INTERVIEW FINDINGS 2

APPENDICES

FIGURES
PHOTOGRAPHS
ENVIRONMENTAL DATABASE REPORT
USER QUESTIONNAIRE RESPONSES
LIEN/ACTIVITY USE LIMITATION DOCUMENTATION
HISTORICAL RESEARCH DOCUMENTATION
REGULATORY RECORDS DOCUMENTATION
DATA GAP WORKSHEET
PERSONNEL QUALIFICATIONS

1 FINDINGS AND CONCLUSIONS

Professional Service Industries, Inc. (PSI) performed a Phase I Environmental Site Assessment (Phase I ESA) of the property at 3075 & 3131 Richmond Terrace, Staten Island, New York. The assessment included a Phase I ESA only. PSI performed the assessment to comply with the contract between PSI and Devon Self Storage Holdings (US), LLC.

The subject property consists of an approximate 1.7 acre light industrial and storage facility currently utilized for chair manufacturing (injection foam molding, steel fabrication and chair assembly). The subject property is currently improved with two two-story buildings and four associated, adjoining, smaller one-story buildings constructed circa 1900. The buildings cover approximately 70% of the subject property. Concrete–paved driveways, concrete pads, and asphalt-paved parking areas cover the remaining 30% of the subject property. The subject property's use dates back prior to 1900 which historically included shipyard manufacturing and metal plating.

Current use(s) of surrounding property includes ship building and maintenance, boat storage and boat towing services, to the west, north and east. Current and historical address for property surrounding to the north and east also included 3075 Richmond Terrace; therefore, interpretation of some historical and environmental database information to differentiate site use versus surrounding site use is not clear. Richmond Terrace borders the subject property to the south, followed by residential apartments and single family residences.

1.1 PHASE I ESA

PSI performed the Phase I ESA in general conformance with ASTM E 1527-05, modified to comply with the contract between PSI and Devon Self Storage Holdings (US), LLC. Limitations, exceptions and deviations from this protocol are discussed in Section 3.

1.1.1 OPINIONS

Significant Data Gaps

Based on our experience, the information that we gathered and evaluated did not present significant data gaps that affected our ability to identify recognized environmental conditions (RECs) in connection with the subject property.

This assessment revealed no evidence of recognized environmental conditions in connection with the property, except for the following:

On-Site Conditions

Recognized Environmental Conditions

- The subject property's south building was historically used for ship building and maintenance operations including, as indicated on the Sanborn maps, "Mold Loft and Joiner Shop", "paint storage", a "dry kiln", a "boiler house", and a "melting pot". Specific historical chemical use, waste generation and management practices on-site are unknown; however, these industrial operations represent a recognized environmental condition associated with the subject property.

- The subject property's north building was historically used as a "plate shop" with an earth (exposed) floor, as indicated on the Sanborn maps. Specific historical chemical use, waste generation and management practices on-site are unknown; however, these industrial operations represent a recognized environmental condition associated with the subject property.

- During PSI's site reconnaissance of the south building, an interior vented room and an adjacent exterior vented concrete structure were observed. Although no hazardous chemicals or waste storage was observed at the time of the site reconnaissance, the construction features associated with this room and adjacent structure, based upon our experience, are typical of hazardous chemical or waste storage use. Evidence of this historical on-site use represents a recognized environmental condition associated with the subject property.

- During PSI's site reconnaissance of the south building, grease and/or oil staining was observed in the areas of two man-lifts and several machines. There appeared to be a small area of exposed earth beneath the interior man-lift, which was stained. The concrete in the area of the exterior man-lift and the interior machinery appeared to be in good condition; however, the staining appeared to be the result of prolonged use and repeated spillage. Historically, these lifts and machines could have used oil containing polychlorinated byphenyls (PCBs). Evidence of this on-site condition represents a recognized environmental condition associated with the subject property.

- According to the site contact, the subject property and surrounding property to the west, north and east were filled in 100+ years ago to support its construction (i.e., the Staten Island shoreline was expanded to the north into Newark Bay using Fill materials). The type of Fill materials and their source are unknown at this time. Based on the observations made at the time of the on-site reconnaissance (i.e., entire surface of the subject property was covered with buildings and concrete pavement), the suspect fill materials appear to represent evidence of a potential recognized environmental condition in connection with the subject property at this time.

Historical RECs (i.e., prior RECs that have been resolved)

- None

Off-Site Conditions

Recognized Environmental Conditions

- Historical surrounding property use has included ship building and maintenance related operations for 100+ years, associated with companies including Staten Island Shipbuilding Co., United Shipyards, Inc., and Bethlehem Steel. Industrial activities associated with these operations use petroleum and hazardous substances and produce petroleum and hazardous wastes. This historical use is considered evidence of a recognized environmental condition in connection with the subject property.

- The review of the environmental database prepared for this project indicated that the address of the subject property (3075 Richmond Terrace) was associated with several listings of environmental concern, including landfill and spills sites. Several adjoining properties were listed under the same address of 3075 Richmond Terrace. The subject property was recently subdivided regarding Lots/Block numbers, and it is unclear whether some of the environmental database listings apply to the subject property or the adjoining properties and, unknown if these conditions and spills have impacted the subject property. The regulatory listings are considered evidence of a recognized environmental condition in connection with the subject property.

Historical RECs (i.e., prior RECs that have been resolved)

- None

1.1.2 ENVIRONMENTAL PROFESSIONAL DECLARATIONS

Mr. Michael Marsaglia gathered and compiled information contained in this report.

for:
Michael Marsaglia
Assessor

Mr. David Russian, the supervising Environmental Professional, gathered and compiled information contained in this report, performed the site and area reconnaissance, supervised planning the site reconnaissance and interviews, reviewed the information and interpreted the information.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

David H. Russian
Environmental Professional
Principal Consultant

1.2 RECOMMENDATIONS

Based on the information that PSI gathered and our experience, PSI recommends the following:

- Phase II Environmental Site Assessment work is recommended to address the potential presence of subsurface environmental impacts from the on-site and off-site recognized environmental conditions identified.

This summary does not contain all the information presented in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

2 INTRODUCTION

2.1 CONTRACT

The contract between PSI and Client is summarized below:

Summary	
Client	Devon Self Storage Holdings (US), LLC
Authorizing Party	Ms. Kim Johnson
Engagement ID, Date	PSI Proposal No. PO-046-7E0020 March 29, 2007

PSI considers the client to be the 'User' of our assessment, defined in the Practice as:

> "The party seeking to use Practice E 1527-05 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of a property, a potential tenant of property, an owner of property, a lender or a property manager. The user has specific obligations for completing a successful application of this practice…."

2.2 PURPOSE OF SERVICES

Based on the information provided, PSI understands that your purpose for having the Phase I ESA performed is to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (hereinafter landowner liability protections or LLPs). The scope of services presented below is intended to satisfy this purpose.

PSI performed the Phase I ESA in general conformance with ASTM E 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (the Practice). The purpose of the Practice was to define good commercial practice for conducting an environmental site assessment and as such, the Practice is intended to permit the user to satisfy one of the requirements to qualify for the LLPs. The goal of the processes established by the Practice is to identify recognized environmental conditions (RECs) in connection with the property.

2.3 STANDARD OF CARE AND WARRANTIES

Our services were not intended to be technically exhaustive. There is a possibility that with the proper application of methodologies, conditions may exist on the property that could not be identified within the scope of the assessment(s) or that were not reasonably identifiable from the available information.

No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with the property. The ESA was intended to reduce, but not eliminate uncertainty regarding the potential for RECs in connection with a property.

Our report is based on commonly known and reasonably ascertainable information, including limited, ground-level visual inspection of the property except where otherwise explicitly indicated, in conformance with ASTM E 1527-05. Findings and conclusions derived from the methodologies described in the Practice contain all of the inherent limitations in the methodologies that are referred to in the Practice.

PSI did not perform any exploratory probing or discovery, perform tests, operate any specific equipment, or take measurements or samples to perform the ESA scope. The ESA was not a building code, safety, regulatory or environmental compliance inspection. The ESA is not intended to reduce the risk of the presence of mold and physical deficiencies conducive to mold nor the risk that mold or physical deficiencies conducive to mold may pose to the buildings and building occupants.

The methodologies include reviewing information provided by other sources. PSI treats information obtained from the record reviews and interviews concerning the property as reliable and the ASTM protocol does not require PSI to independently verify the information. Therefore, PSI cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. No other warranties are implied or expressed.

PSI warrants that the findings contained in this report have been prepared in general conformance with accepted professional practices at the time of report preparation as applied by similar professionals. Future changes in standards, practices, or regulations cannot be anticipated and have not been addressed.

The observations and recommendations presented in this report are time dependent, and conditions will change. This report speaks only as of its date.

2.4 USE BY OTHER PARTIES

This report was prepared pursuant to a contract between PSI and its client. That contractual relationship included an exchange of information about the property that was unique and serves as the basis upon which this report was prepared. Because of the importance of these understandings, our assessment may not be sufficient for the intended purposes of another party.

Reliance or any use of this report by anyone other than Devon Self Storage Holdings (US), LLC, for whom it was prepared is prohibited and therefore not foreseeable to PSI. Any unauthorized reliance on or use of this report, including any of the information or conclusions contained herein, will be at the third party's risk. No warranties or representations expressed or implied in this report are made to any such third party.

Third party reliance letters may be issued upon timely request and payment of the then-current fee for such letters. All third parties relying on our report, by such reliance, agree that such reliance is limited by our proposal and General Conditions.

3 SCOPE AND RESOURCES

3.1 PHASE I ESA

PSI performed a Phase I ESA of the subject property that generally conforms to the scope and limitations of the Practice. The assessment included four components:

- Records review;
- Reconnaissance;
- Interviews; and,
- Preparation of this report, including our evaluation.

The scope of our services and the information resources accessed are detailed below.

3.1.1 STAFF

Mr. David Russian, an Environmental Professional, gathered and compiled information for this assessment, supervised planning the site reconnaissance and interviews, reviewed and interpreted the information and performed the site and area reconnaissance on April 17, 2007. Credentials and qualifications of persons responsible for preparation of this report are appended.

3.1.2 RECORDS REVIEW

Physical Setting Sources

PSI reviewed United States Geological Survey (USGS) Topographic (Topo) Maps and other information regarding the physical setting of the site to assist with the interpretation of subsurface water movement near the property.

Summary	
Source Name	**Year Published/Issued**
USGS 30 Minute Topo Map	PASSIAC Quadrangle, 1900, 1905
USGS 15 Minute Topo Map	STATEN ISLAND Quadrangle, 1900
USGS 7.5 Minute Topo Maps	ELIZABETH Quadrangle, 1947, 1967, 1981, 1995
Notes: SWCD = Soil and Water Conservation District	

Environmental Regulatory Database Information

PSI retained Environmental Data Resources, Inc. (EDR) to provide environmental database information attributed to the site and its surroundings. EDR obtains environmental databases published by local, state, tribal, and federal agencies and geocodes the information for electronic searches. EDR's service includes reporting Standard Environmental Records Sources and, in most cases, some Additional

Environmental Records Sources.

The search extended to Approximate Minimum Search Distances (AMSD) listed in ASTM E 1527-05 plus 0.25 mile.

Unmappable (orphan) sites listed with insufficient address or geocoding information for EDR to map were evaluated for potential location within the AMSD. PSI used information provided about the city, county and Zip Code attributed to these sites to determine if they are located in the vicinity of the subject property.

Historical Use Information

PSI used USGS Topo maps and retained EDR to provide information about the history of the subject property and its surroundings. PSI also referenced other historical sources.

Summary			
Source Type	**Years Reviewed**	**Source**	**Note**
USGS Topo Maps	See Section 3.1.2	USGS, through EDR	
Aerial Photograph(s)	1954, 1966, 1972, 1984, 1995	EDR	
Aerial Photograph(s)	1995	Microsoft TerraServer-USA©	
Fire Insurance Maps	1898, 1917, 1937, 1950, 1962, 1977, 1981, 1983, 1986, 1987, 1988, 1990, 1992, 1993, 1995, 1996	EDR	
Street Directories	1928, 1934, 1960, 1965, 1970, 1975, 1979, 1984, 1990, 1995, 2000	EDR	
Property Records	FOIA Pending	City of New York Department of Finance	NR
Environmental Agency Records	FOIA Pending	New York City Department of Environmental Conservation	NR
Zoning Records	NR		NLU
Tax File Records	NR		NLU
NA = None Available (Not Readily Ascertainable). NR = Not Reviewed. NPR = Not Practically Reviewable. NLU = Not Likely Useful. Topographic Maps reviewed are previously listed.			

Recorded Land Title Records

PSI did not review land title records to obtain information about the current and past owners of the subject property and prior uses and tenancies.

User-Provided Information

The Practice describes information to be provided by the user, owner and key site manager. This information is detailed on appended questionnaires that PSI sent to the user and the key site manager.

3.1.3 RECONNAISSANCE

Ms. Kim Johnson with Devon Self Storage Holdings (US), LLC, granted PSI access to the subject property. Mr. Hector Deffer, Manager for e.k.i. (Manufacturer of Premium Seating) escorted PSI during the on-site reconnaissance.

The ground reconnaissance consisted of observing the periphery of the subject property and viewing the subject property from accessible adjacent public access areas. Visual reconnaissance of adjoining properties was limited to areas and facilities that were readily observable from the subject property or from public access areas.

PSI systematically toured interior portions of the property to provide an overlapping field of view. The periphery of structures, where present on the property, was observed along with accessible interior common areas, maintenance/repair areas and a representative number of occupant spaces.

PSI took photographs to document selected features.

3.1.4 INTERVIEWS

PSI made reasonable attempts to interview selected persons having knowledge of the uses and conditions of the subject property, past and present. A list of the persons that PSI interviewed and attempted to interview, along with our interpretations is presented in Section 8.

3.1.5 REFERENCES

The information sources that PSI used, including published material, material obtained from commercial sources, from other sources, or provided to us through questionnaires is cited as that information is presented in the report. Some of this information or excerpts thereof are also appended.

3.2 OTHER ENVIRONMENTAL ISSUES

Our services did not include effort outside the scope of the Practice to evaluate issues related to business environmental risk associated with the property.

3.3 SIGNIFICANT ASSUMPTIONS

PSI made the following assumptions in developing our Phase I ESA findings and conclusions:

- Groundwater Flow Direction - PSI interpreted and inferred the direction of the shallow groundwater movement based on the information we obtained and our experience. Actual groundwater flow may be locally influenced by many factors beyond the scope of this study. Subsurface investigation would be necessary to determine site-specific groundwater flow direction.
- Regulatory Agency Information - PSI considers all information provided by EDR regarding regulatory status of facilities to be complete, accurate, and current.
- Other Regulatory Information - PSI considers all other information obtained from regulatory or enforcement agencies to be complete, accurate, and current.
- Title, Lien and Activity and Use Limitation (AUL) Information – PSI considers all information provided by EDR, its subcontractors, or other real estate title records review firms regarding property ownership or encumbrances to be complete, accurate and current.
- Interviews - PSI considers all information provided through interviews to be complete, unbiased and provided in good faith.

3.4 LIMITATIONS, EXCEPTIONS, DEVIATIONS AND DATA GAP

PSI considers that limitations, exceptions and deviations from the Practice manifest as a lack of or inability to obtain information required by the Practice. This represents the definition of the 'data gap' contained in the Practice.

PSI tracked the components for this assessment on the Data Gap Worksheet which is appended. Therefore the limitations, exceptions and deviations are identified in the Data Gap Worksheet.

In general, when required information was incomplete, not provided, otherwise not obtained or indicated a need for additional information, PSI attempted to use information from other sources to meet the Practices' performance objectives. When the data gaps affected the Environmental Professional's ability to identify RECs, PSI considered the data gap(s) to be significant. PSI identified significant data gaps (if any) in the Data Gap Worksheet and reported them in Section 1.1.

4 USER-PROVIDED INFORMATION

PSI provided the client and the key site manager with standard questionnaires. The response statuses are tabulated below. The questionnaires are appended and selected portions are discussed in the following sections.

Summary				
Questionnaire Returned? (See Notes)				
User	**Owner**	**KSM**	**Other**	**Questionnaire Name**
Y	N	N	N	Appendix X3 "User's Responsibilities"
Y	N	N	N	Section 10.8 "Helpful Documents"
Y	N	N	N	Section 10.9 "Proceedings"
Y	N	N	N	Appendix X3.1 "Suggested Background"
Notes: Y (Yes) /P (Partial) /N (No) /NS (Not Sent by PSI e.g. Party Not Identified) KSM = Key Site Manager				

4.1 USER'S RESPONSIBILITIES

4.1.1 LIENS

The user and the Key Site Manager did not provide PSI with supporting documentation about liens recorded against the Subject Property. The User's Questionnaire was provided to the user and the owner, and returned completed to PSI.

PSI was engaged to subcontract the search for environmental liens against the subject property. The User provided PSI with tax-ID number information for the subject property: Block 1208, Lot 9; and, Block 1208, Lot 10. PSI subcontracted EDR to perform the Environmental Lien Search. The findings indicated that no environmental liens were found against the subject property. Supporting documentation is appended.

4.1.2 ACTIVITY AND LAND USE LIMITATIONS (AULS)

The user and the owner did not provide PSI with supporting documentation about AULs recorded against the Subject Property. The User's Questionnaire was provided to the user and the owner, and returned completed to PSI.

PSI was engaged to subcontract the search for environmental liens against the subject property. The User provided PSI with tax-ID number information for the subject property: Block 1208, Lot 9; and, Block 1208, Lot 10. PSI subcontracted EDR to perform the AUL Search. The findings indicated that no environmental liens were found against the subject property. Supporting documentation is appended.

4.2 HELPFUL DOCUMENTS

The client provided PSI with prior reports of prior assessments of the site. The reports are tabulated below:

Summary	
Report Title:	Environmental Inspection and Database Review for the property Infanti Chair Manufacturing Company, located at 3075 Richmond Terrace in Staten Island, New York.
Prepared For:	Amboy National Bank
Prepared By:	MAK International Group Services, Inc.
Report Date:	September 30, 1998

Pertinent portions of the report are summarized below and the report or excerpts thereof may be appended to this report.

- The letter report indicated that MAK conducted a site inspection and conducted an environmental database review, only. MAK concluded from the site inspection that there was a low risk of subsurface contamination and associated liability due to current onsite activities.

- MAK's environmental database review found that several regulatory listings were identified associated with nearby sites with the same address (3075 Richmond Terrace), such as Resource Conservation and Recovery Act (RCRA) generators and Emergency Response Notification System (ERNS) listings, but concluded that due to their relative downgradient position, these properties were unlikely to impact the site.

- MAK concluded: "MAK has not identified any major environmental concerns at the site that would require further action."

Summary	
Report Title:	Draft Phase I Environmental Site Assessment – Proposed Devon Self Storage, 3075 & 3131 Richmond Terrace, Staten Island, New York 10303
Prepared For:	J.P. Morgan Investment Management
Prepared By:	Property Solutions Incorporated
Report Date:	November 22, 2006 (text only)

Pertinent portions of the report are summarized below and the report or excerpts thereof may be appended to this report.

- According to interview information collected during the preparation of the previous Draft Phase I ESA, past operations at the subject property consisted of

chair manufacturing and metal fabrication. Areas of staining associated with spilled hydraulic oil were observed in the area where the metal fabrication was historically performed. As these fabrication activities were reportedly performed over a time period of approximately 60 years, the potential exists for the hydraulic oil to have contained Polychlorinated Biphenyls (PCBs).

- According to environmental database information within the previous Draft Phase I ESA, 3075 Richmond Terrace is listed as a Solid Waste Landfill site and several NY Spills sites. It was not clear whether the listings were associated with the subject property or with other surrounding properties which also have the same address.

- According to Sanborn Fire Insurance map information reviewed during the preparation of the previous Draft Phase I ESA, the northernmost building located on the subject property was previously operated as a metal plating facility with an (exposed) earth floor. As these metal plating activities were reportedly performed without a "confining" floor material, a "greater" potential for environmental impact was identified in this area.

- According to visual observations made during the 2006 on-site reconnaissance, several areas of petroleum staining were identified at the subject property. "Significant staining" of the expansion joints and damaged concrete floor in the immediate vicinity of an aboveground hydraulic lift was observed on the western side of the "subject building". Oil stained soil was identified beneath a mechanical lift located inside the "subject building". "Significant staining" of the expansion joints and damaged concrete floor near the western property boundary was observed on the western side of the "subject building". The source of this staining was identified as a spill of approximately 200 gallons of hydraulic oil that occurred during the removal of a plastic injection molding machine.

  [According to interview information received from Mr. Hector Deffer, Key Site Manager, and Mr. Peter Cohen, Director of Government Services for NAI James E. Hanson (real estate brokers), a plastic injection molding machine had tipped over while being loaded onto a truck in 2006. Approximately 200 gallons of hydraulic oil had been recovered from the injection molding machine prior to its removal and no hydraulic oil was spilled during removal activities.]

4.3 PROCEEDINGS

The client did provide PSI with documentation about legal proceedings or litigation involving the subject property. The information indicated that there are no proceedings known to be associated with the subject property.

4.4 SUGGESTED INFORMATION

PSI requested certain information about the property to assist with our assessment. Most of this information, such as the nature of the property and its legal description, are presented in the corresponding section of this report.

4.5 FINDINGS

PSI did identify evidence of RECs in the user-provided information. Based upon the environmental concerns identified in the previous reports provided, PSI does not agree with the conclusions made in MAK's letter report, but does agree with the findings and conclusions made within Property Solutions, Inc.'s Draft Phase I ESA regarding RECs associated with the subject property.

5 SUBJECT PROPERTY USAGE

5.1 LOCATION AND LEGAL DESCRIPTION

Summary	
Project Name	Proposed Devon Self Storage
Property Address	3075 & 3131 Richmond Terrace
City, County, State, ZIP Code	Staten Island, New York 10303
Site Area (acres)	Approximately 1.7
No. Buildings/Units/Stories	Two buildings; both have 2-story portions and 1-story portions
Area (sf)	Approx. 78,000
Occupied Subgrade Spaces?	No
Year(s), First Developed for Current Use	Prior to 1900
Year(s), Additional Phases	Unknown
Year Significant Renovations	Unknown

The legal description of the property if it was provided to PSI, is appended.

The subject property is located along the north side of Richmond Terrace, at the northeast corner of the intersection of Richmond Terrace and Mersereau Avenue in Staten Island, New York.

5.2 PHYSICAL SETTING

Summary	
Nominal Elevations, (ft, MSL)	Approximately 5-10
Surface Topo Characteristics	The surface of the subject property slopes downward from the southern boundary towards the north.
General Soil Type, Slopes	According to observations recorded during the Limited Phase II ESA, the soil at the subject property consists of fill materials over sand.
Does EDR Map a Floodplain On-Site?	No
On-Site Water Bodies	None Observed
Off-Site Water Bodies	Newark Bay to the north, Kill Van Kull waterway to the northeast, Hudson River and Upper Bay to the northeast, Lower Hudson River Bay to the southeast, and Arthur Kill waterway to the west.
Note: MSL means Mean Sea Level	

The ground surface in the vicinity of the subject property flows downward from the south to north, towards Newark Bay.

Based on our interpretation of the physical setting sources and our experience, PSI infers that the shallowest regional groundwater:

- Occurs at about 4 feet below the ground surface;
- Exists under unconfined conditions; and,
- Moves towards the north

5.3 CURRENT USES

Improvements to the property consisted of two two-story light industrial/warehouse buildings of concrete, masonry and steel construction. The structures contain a total of about 78,000 square feet, which were constructed circa 1900. Current tenants include e.k.i. (Manufacturer of Premium Seating). Concrete-paved parking areas and driveways are located on the sides and between the structures. Surface drainage flows from the south towards the north into storm water drains. No storm water structures or ponds are present on-site.

PSI understands that two easements cross the subject property. One easement is a utility easement. The other easement is an access easement for the US Coastguard.

5.3.1 INTERIOR AND EXTERIOR OBSERVATIONS

A summary of uses and conditions is tabulated below. Detailed information is discussed following the summary along with an opinion about the significance of the listing.

Summary		
Identified?		
Yes	**No**	
☒	☐	Hazardous Substances
☒	☐	Petroleum Products
☐	☒	Aboveground or Underground Storage Tanks (ASTs/USTs)
☒	☐	Drums
☐	☒	Suspect Containers
☒	☐	Electrical or Mechanical Equip. Suspected to Contain PCBs
☒	☐	Interior Stains or Corrosion
☒	☐	Drains or Sumps
☒	☐	Wastewater Discharges

Summary		
Identified?		
Yes	**No**	
☐	☒	Septic or Sewage Tanks
☐	☒	Pits, Ponds or Lagoons
☐	☒	Pools of Liquid or Standing Water
☒	☐	Solid Waste Dumping/Landfills/Suspect Fill Material
☒	☐	Stained Soil or Pavement
☐	☒	Stressed Vegetation
☐	☒	Drinking Water Wells
☐	☒	Irrigation Wells
☐	☒	Monitoring Wells
☐	☒	Odors
☐	☒	Other Uses or Conditions of Concern

Hazardous Substances

PSI observed hazardous materials in the form of stored chemicals (household cleaning and painting supplies) at the subject property. These materials were present in quantities typical of on-site cleaning and maintenance. In the southwest portion of the south building, PSI observed one plastic tote of Isocyanate and one plastic tote of Resin, which are materials used in the machine which makes the foam cushions for seats. A second tote of resin was observed in this area, but appeared to be empty. One 55-gallon drum of hardened Isocyanate, several apparent empty 55-gallon drums and, one drum of epoxy resin (glue) were also observed in this area. PSI observed several gas cylinders (Argon, Oxygen, Carbon Dioxide) in the metal fabrication area used for occasional welding. No other hazardous materials were identified in significant quantities. The materials observed were identified in areas away from water supplies, drains, and other pathways that could contaminate the environment. No questionable handling practices, staining or stressed vegetation were observed at the time of the on-site reconnaissance associated with these chemicals. The observed hazardous materials do not appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

PSI observed a small room on the first floor west side of the south building which was vented to the outside on its west exterior wall. According to the site contact, this room was currently used by e.k.i. for washing metal chair parts with water to remove small metal shavings. This room appeared to be slightly built-up (newer tile floor) and was sloped to the west toward a small trench drain. The trench drain flowed south to a small sump. The sump contained a pump which pumped the water up to the west exterior of the building to an exterior drain. Metal shavings and lubrication oil were observed on

the floor in this room. A cardboard box of metal shavings and pieces was observed to the south of this room. The site contact indicated that the metal scrap was collected for recycling. The vent in this room led to a small concrete block structure on the west exterior of the south building. This structure was also vented and had a locked wood access door. One small plastic container of absorbent was observed in this structure. PSI is of the opinion that the vented interior room and adjacent small concrete structure appeared to have been historically used for some other purpose – possibly for the storage of chemicals and/or waste. The observed interior vented room and exterior vented structure do appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

Petroleum Products

PSI observed petroleum products in the form of small amounts of stored paints and thinners and, several 55-gallon drums of oils for on-site machinery. PSI observed several 55-gallon drums of lubrication oil and forming compound w/ emulsifier and, several apparent empty drums formerly containing the same. There drums were observed in various locations near punch press, drill press and injection molding machines located on the first floor of the southern building which support the chair manufacturing. The materials observed were identified in areas away from water supplies, drains, and other pathways that could contaminate the environment. No questionable handling practices, staining or stressed vegetation were observed at the time of the on-site reconnaissance associated with these drum locations. The observed petroleum products do not appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

Drums

In addition to the above-mentioned drums, PSI observed several drums on the west exterior of the south building. These drums appeared to be somewhat worn and empty. No labels or other form of identification were observed on this drum at the time of the on-site reconnaissance. No significant staining or stressed vegetation was observed specifically around these drums at the time of the on-site reconnaissance. The observed drums do not appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

Electrical Or Mechanical Equipment Suspected To Contain PCBs

PSI observed one pad-mounted electric transformer, one pole-mounted transformer and two hydraulic lifts on the subject property. The electric transformers appeared to be in good condition, with no apparent signs of leakage or corrosion. These transformers are believed to be owned by ConEd. Based on visual observations made at the time of the site reconnaissance, these transformers do not appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

The hydraulic man-lifts appeared to be in fair condition, with apparent signs of leakage and corrosion. One man-lift was observed on the west exterior of the south building.

The second man-lift was located in the south-center interior of the south building. Some apparent exposed soil appeared to be beneath the interior lift. Oil and grease staining was apparent beneath both lifts. Based on their observed condition and inferred age, these hydraulic units do appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

Interior Stains or Corrosion

Evidence of some oil and grease staining was observed beneath various machinery located on the first floor interior of the south building. The machinery consisted of plastic injection molders, an air compressor, punch presses and drill presses and other machinery in the metal fabrication room located on the southwest interior of the south building. The concrete floor appeared to be in good condition with no significant cracks or damage. Although the concrete appeared to be in good condition, based on the length of time the staining appeared to have been occurring, it does appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

Evidence of corrosion/etching was observed in the southwest-most room of the first floor of the south building on its concrete floor. This room appeared to have the lowest elevation within the south building. No significant cracking was observed in the concrete floor. The concrete corrosion appeared to have been due to historical operations in this room, rather than current operations. Although the concrete appeared to be in good condition, based on the unknown manufacturing operations that produced the corrosion/etching, it does appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

Drains Or Sumps

No floor drains were observed on the first floor of the south building, although given the amount of material, chair parts, supplies, boxes and debris throughout the first floor of the south building, it was not practical to observe most of the floor space. One sump was observed on the southeast side of the first floor of the south building. No staining was observed in this area. According to the site contact, this sump pumps to the sanitary sewer. No odors or staining were observed in connection with this sump. Based on visual observations at the time of the on site reconnaissance, this sump does not appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

PSI observed a trench drain and sump located in a small room located on the west interior of the south building (mentioned above), which was pumped to the west exterior of the building. According to the site contact, this sump pumps to the sanitary sewer. No odors or staining were observed in connection with this sump. Based on visual observations at the time of the on site reconnaissance, this sump does not appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

Storm sewer drains were observed in the concrete-paved exterior areas of the subject property. No odors or staining were observed in connection with these drains.

Wastewater Discharges

PSI observed a trench drain and sump located in a small room located on the west interior of the south building (mentioned above), which was pumped to the west exterior of the building. According to the site contact, this sump pumps to the sanitary sewer. The wastewater from this sump likely contains residual lubrication oil and metal shavings. No odors or staining were observed in connection with this sump. Based on visual observations at the time of the on site reconnaissance, this sump does not appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

Suspect Fill Materials

According to the site contact, the subject property and northern industrial and boat dock vicinity were filled in many years ago to support their construction (i.e., the Staten Island shoreline was expanded to the north into Newark Bay using Fill materials). The type of Fill materials and their source are unknown at this time. Based on the observations made at the time of the on-site reconnaissance (i.e., entire surface of the subject property was covered with buildings and concrete pavement), the suspect fill materials appear to represent evidence of a potential recognized environmental condition in connection with the subject property at this time.

Stained Soil Or Pavement

PSI observed areas of apparent oil staining on the concrete paved access areas on the west and northwest sides of the subject property. The site contact was not aware of the source of this staining. The concrete expansion joints within this area appeared to be in fair condition. Observations of the adjacent properties to the west and north indicated that these areas were not paved and the surface of their properties appeared also to have evidence of staining and fill materials. The staining appears to be “de minimis” in amount and does not appear to represent evidence of a recognized environmental condition in connection with the subject property at this time.

5.3.2 UTILITIES

Utility systems identified at the property are summarized below:

- The facility has no heating, ventilating and air conditioning (HVAC) systems. The building, however, is heated in select areas by natural gas ceiling-mounted space heaters. The office area is heated by electric heat. The systems are fueled by electricity and natural gas, supplied by Consolidated Edison (ConEd).
- Sewage disposal at the property is provided through New York City.
- Potable water at the property is obtained through New York City.
- Solid waste disposal is provided by FLAG.

5.4 PAST USES

Our interpretation of the past uses of the property is tabulated below. [Note: The address of 3075 Richmond Terrace was historically and is currently utilized for the subject property and several properties along Richmond Terrace to the north, and east. Therefore, it was not discernable which historical operators/tenants with that address were associated with adjoining or nearby properties.]

Summary	
Year(s)	**Interpreted Property Use**
1898	The Sanborn map did not depict any structures on the subject property. Property use could not be determined.
1900, 1905	The topo maps did not depict any structures on the subject property. Property use could not be determined.
1917	The Sanborn map indicates three structures on the subject property associated with Staten Island Shipbuilding. The westernmost small building appears to be associated with lumber storage. The south building appears to be associated with mould lofts. The north building states that it is associated with a plate shop. The Sanborn map also indicates local rail spurs on the subject property.
1928	The City Directory search did not identify a listing associated with the subject property address.
1934	The City Directory search did not identify a listing associated with the subject property address.
1937	The Sanborn map indicates structures on the subject property are associated with United Shipyards, Inc. – Staten Island Plant – Boat Builders & Repair Shop. The Sanborn map indicated that the south building was occupied by a Mold Loft and Joiner Shop with woodworking machinery, “paint storage”, a “dry kiln”, a “boiler house” and a “melting pot”. The north building was occupied by a plate shop with “concrete and earth floor”.
1947	The topo map indicated two buildings on the subject property.
1950	According to the Sanborn map, the site use was similar to the 1937 Sanborn map; however, the property was noted as being operated by Bethlehem Steel Co, Inc – Ship Building Division – Staten Island Yard – Boat Builders & Repair Yard.
1954	According to the Aerial photograph, two buildings were evident on the subject property similar to those depicted on the Sanborn maps.
1960	The City Directory search did not identify a listing associated with the subject property address.
1962	The Sanborn map depicts site use similar to that of the 1950 Sanborn map.
1965	The City Directory search did identify a listing associated with the 3075 Richmond Terrace address (Liquid Concentrates, Inc.); however, it is not known whether this was a subject property tenant.
1966	The Aerial photograph depicted site use to be similar to the 1954 aerial photo.
1967	According to the topo map, one building was noted on the subject property.

Summary	
Year(s)	**Interpreted Property Use**
1970	The City Directory search did identify four listings associated with the 3075 Richmond Terrace address; however, it is not known whether these were subject property tenants.
1972	The Aerial photo depicted site use to be similar to the 1966 aerial photo.
1975	The City Directory search did identify a listing associated with the 3075 Richmond Terrace address (O&M Propeller Service); however, it is not known whether this was a subject property tenant.
1977	The Sanborn map depicts site use similar to that of the 1950 Sanborn map, except that the former boiler house located on the south building's east side is no longer shown.
1979	The City Directory search did identify 25 listings associated with the 3075 Richmond Terrace address; however, it is not known whether these were subject property tenants. Infanti Metal Furniture was one of the listings, which is known to be associated with the current chair manufacturing tenant.
1981	According to the topo map, one building was noted on the subject property.
1981	The subject property buildings appeared the same as the previous Sanborn map, except that the south building was noted as "Vacant" and the north building was noted as being used for "Boat Storage". The vicinity use was noted as Mariners Harbor Marina.
1983	The subject property buildings appeared the same as the previous Sanborn map.
1984	The City Directory search did identify 22 listings associated with the 3075 Richmond Terrace address; however, it is not known whether these were subject property tenants. Infanti Metal Fabricators was one of the listings, which is known to be associated with the current chair manufacturing tenant.
1984	The Aerial photo depicted site use to be similar to the prior aerial photo.
1986	The subject property buildings appeared the same as the previous Sanborn map.
1987	The subject property buildings appeared the same as the previous Sanborn map.
1988	The subject property buildings appeared the same as the previous Sanborn map.
1989	According to interview information provided by Mr. Peter Cohen, the North Building was improved with concrete floor and a second floor in about 1989.
1989	The subject property buildings appeared the same as the previous Sanborn map.
1990	The City Directory search did identify 23 listings associated with the 3075 Richmond Terrace address; however, it is not known whether these were subject property tenants. Infanti Metal Fabricators was one of the listings, which is known to be associated with the current chair manufacturing tenant.
1990	The subject property buildings appeared the same as the previous Sanborn map.
1992	The subject property buildings appeared the same as the previous Sanborn map.

Summary	
Year(s)	**Interpreted Property Use**
1993	The subject property buildings appeared the same as the previous Sanborn map.
1995	The City Directory search did identify 16 listings associated with the 3075 Richmond Terrace address; however, it is not known whether these were subject property tenants. Infanti Chair Manufacturing was one of the listings, which is known to be associated with the current chair manufacturing tenant.
1995	The topographic map indicates two buildings upon the subject property.
1995	The subject property buildings appeared the same as the previous Sanborn map.
1995	The subject property appeared as it did on the previous aerial photograph.
1996	The subject property buildings appeared the same as the previous Sanborn map.
2000	The City Directory search did identify 12 listings associated with the 3075 Richmond Terrace address; however, it is not known whether these were subject property tenants. Infanti Istrad was one of the listings, which is known to be associated with the current chair manufacturing tenant.
2006	The aerial photographs indicate that the subject property was developed with similar features as observed during the site reconnaissance.
2007 (site reconnaissance)	The subject property was occupied by EKI, LLC at 3075 Richmond Terrace, Building A, which is the tenant for Infanti chair manufacturing. The site contact stated that the north building was recently given an address of 3131 Richmond Terrace.

5.5 FINDINGS

PSI identified evidence of RECs associated with the subject property, specifically regarding:

- The above-described vented interior room and exterior concrete structure, due to the apparent possibility that they were historically used for storage of chemicals and/or waste.

- The above-described oil and grease staining associated with the two man-lifts and machinery.

- The suspect Fill materials installed on the entire subject property.

- The historical use of the south building for ship building and maintenance, as indicated on the Sanborn maps. Mold Loft and Joiner Shop with woodworking machinery, “paint storage”, a “dry kiln”, a “boiler house” and a “melting pot”, were noted and, the historical use and management practices associated with chemicals and waste conducted on-site are unknown at this time.

- The historical use of the north building as a “plate shop” with an earth (exposed) floor. The historical use and management practices associated with chemicals and waste conducted on-site are unknown at this time.

6 ADJOINING AND SURROUNDING PROPERTY USAGE

A summary of our interpretation of the current and past uses and conditions of adjoining and surrounding property based on historical records and observations is provided below.

Adjoining North	
Year(s)	**Interpreted Property Use**
1898, 1917, 1937, 1950, 1962, 1977, 1981, 1983, 1986, 1987, 1988, 1990, 1992, 1993, 1995, 1996	Sanborn Maps. The 1898 map indicates that Newark Bay was north of the subject property. The 1917 map indicates dry docks associated with Staten Island Shipbuilding Co. The footprint of the property to the north appears to have been expanded since the 1898 Sanborn, which suggests that Fill was brought in to create the expanded ship-building operations. The 1937 map indicates that the property to the north was associated with United Shipyards, Inc., with dry docks and shipways, and a building noted as "Assembly Room" was attached to the north of the subject property's north (plate shop) building. The 1950 map indicates that the property to the north was associated with Bethlehem Steel, with dry docks and shipways, and a building noted as "Assembly Room" was attached to the north of the subject property's north (plate shop) building. The 1962 map indicates use similar to the prior map year. The 1977 map indicates use similar to the prior map year, associated with Mariners Harbor Marina. The 1981, 1983, 1986, 1987, 1988, 1990, 1992, 1993, 1995 and 1996 maps indicate use similar to the prior map year.
1928, 1934, 1960, 1965, 1970, 1975, 1979, 1984, 1990, 1995, 2000	City Directories. The 1928, 1934 and 1960 city directories appear not to list tenants associated with the property to the north. The 1965, 1970 and 1975 city directories list tenants at 3075 Richmond Terrace, but based on the fact that that address applies to a long stretch of land to the north and east of the subject property, it is unknown if those listed tenants exist to the north of the subject property. The 1979, 1984, 1990, 1995 and 2000 city directories list tenants at 3075 Richmond Terrace, but based on the fact that that address applies to a long stretch of land to the north and east of the subject property, it is unknown if those listed tenants exist to the north of the subject property.
1954, 1966, 1972, 1984, 1995	Aerial Photographs. Each aerial photograph year shows various buildings and development features to the north of the subject property, presumably associated with ship building and docking usage.
2007 (Site Reconnaissance)	The operator to the north of the subject property appeared to part of Mayfair Shipping, performing ship maintenance and repair.

Adjoining East	
Year(s)	**Interpreted Property Use**
1898, 1917, 1937, 1950, 1962, 1977, 1981, 1983, 1986, 1987, 1988, 1990, 1992, 1993, 1995, 1996	Sanborn Maps. The 1898 map indicates no apparent development or structures adjoining to the east of the subject property. The 1917 map indicates dry docks associated with Staten Island Shipbuilding Co., and Brewer Dry Dock Company. Also, a maintenance shop was situated adjacent to the east of the subject property's north building. The 1937 map indicates that the property to the east was associated with United Shipyards, Inc., with dry docks and shipways, and a "maintenance shop" and other small buildings adjacent to the east of the subject property's north (plate shop) building. The 1950 map indicates that the property to the east was associated with Bethlehem Steel, with similar features as shown on the prior Sanborn map. The 1962 map indicates use similar to the prior map year, except that the adjacent prior "machine shop" was noted as a "tin shop". The 1977 map indicates use similar to the prior map year, associated with Mariners Harbor Marina, except that the prior adjacent small buildings are no longer present. The 1981, 1983, 1986, 1987, 1988, 1990, 1992, 1993, 1995 and 1996 maps indicate use similar to the prior map year.
1928, 1934, 1960, 1965, 1970, 1975, 1979, 1984, 1990, 1995, 2000	City Directories. The historical city directories appear to present listings associated with industrial and commercial tenants along Richmond Terrace. For the list of property operators/tenants likely adjoining or nearby to the east (i.e., with the address of 3075 Richmond Terrace), please refer to the appended City Directory abstract.
1954, 1966, 1972, 1984, 1995	Aerial Photographs. Each aerial photograph year shows various buildings and development features to the east of the subject property, presumably associated with ship building, maintenance, docking usage and warehousing.
2007 (Site Reconnaissance)	The tenant to the east of the subject property observed during the site reconnaissance appeared to be associated with May Ship Repair.

Adjoining South	
Year(s)	**Interpreted Property Use**
1898, 1917, 1937, 1950, 1962, 1977, 1981, 1983, 1986, 1987, 1988, 1990, 1992, 1993, 1995, 1996	Sanborn Maps. The 1898 and 1917 maps indicate a couple dwelling structures adjoining to the south of the subject property across Richmond Terrace. The 1937 map indicates that the property adjoining to the south was open land with three dwelling structures. The 1950 and 1962 maps indicate that the property adjoining to the south was open land with several dwelling structures. The 1977 map indicates use similar to the prior map year, except that a parking area was added to prior open land. The 1981, 1983, 1986, 1987, 1988, 1990, 1992, 1993, 1995 and 1996 maps indicate use similar to the prior map year.
1928, 1934, 1960, 1965, 1970, 1975, 1979, 1984, 1990, 1995, 2000	City Directories. The historical city directories appear to present listings associated with commercial and residential tenants along Richmond Terrace and nearby streets including Mersereau Avenue, Andros Avenue and Lockman Avenue.
1954, 1966, 1972, 1984, 1995	Aerial Photographs. Each aerial photograph year shows various buildings and development features to the south of the subject property, similar to the vacant use and residential structures.
2007 (Site Reconnaissance)	The property use to the south of the subject property observed during the site reconnaissance was associated with residential apartments. Further south were residential dwellings.

Adjoining West	
Year(s)	**Interpreted Property Use**
1898, 1917, 1937, 1950, 1962, 1977, 1981, 1983, 1986, 1987, 1988, 1990, 1992, 1993, 1995, 1996	Sanborn Maps. The 1898 map indicates no apparent development or structures adjacent to the west of the subject property, but did show some small storage structures and a dwelling nearby to the west . The 1917 map indicates dry docks associated with Staten Island Shipbuilding Co. Also, a lumber storage area was situated adjacent to the west of the subject property. The 1937 map indicates that the property to the west was associated with United Shipyards, Inc., with dry docks and shipways, and a “Bending Shop” and other small buildings adjacent to the west of the subject property. The 1950 map indicates that the property to the west was associated with Bethlehem Steel, with similar features as shown on the prior Sanborn map. The 1962 map indicates use similar to the prior map year. The 1977 map indicates use similar to the prior map year, associated with Mariners Harbor Marina, except that the adjacent use also includes an “iron platform”. The 1981, 1983, 1986, 1987, 1988, 1990, 1992, 1993, 1995 and 1996 maps indicate use similar to the prior map year.

Adjoining West	
Year(s)	**Interpreted Property Use**
1928, 1934, 1960, 1965, 1970, 1975, 1979, 1984, 1990, 1995, 2000	City Directories. The historical city directories appear to present listings associated with industrial and commercial tenants along Richmond Terrace. For the list of property operators/tenants likely adjoining or nearby to the west (i.e., with the address of 3075 Richmond Terrace), please refer to the appended City Directory abstract. The 1965 city directory indicates a Mariners Harbour Industrial Park at 3080 Richmond Terrace, which is likely adjacent to the west of the subject property. Other commercial establishments are listed west of the subject property including a restaurant, throughout the years listed.
1954, 1966, 1972, 1984, 1995	Aerial Photographs. Each aerial photograph year shows various buildings and development features to the west of the subject property, presumably associated with ship building, maintenance and docking usage.
2007 (Site Reconnaissance)	The tenant to the west of the subject property observed during the site reconnaissance was listed as McAllister Towing & Transport (Established 1848), which provides marine towing and transportation services.

PSI identified the following as evidence of a REC in the current and past uses of adjoining and surrounding property:

- Environmental impact to the subject property is likely from historical ship building and maintenance operations associated with surrounding property use for more than 100 years, which has the potential for historical petroleum and hazardous chemical use and petroleum and hazardous waste production of which the housekeeping practices of that time period is unknown.

- The suspect Fill materials on the property surrounding properties which were historically installed to expand the footprint of the surrounding shipyard areas.

7 ENVIRONMENTAL REGULATORY RECORDS REVIEW

7.1 DATABASE FINDINGS

The distribution of listed sites with respect to the property is tabulated and mapped in EDR's report, which is appended. PSI did not image EDR's results table into the body of this report to reduce the chance for transcription errors. The reader is referred to this table which can be found near the front of EDR's report.

EDR reported unmappable (orphan) listed sites. PSI reviewed the information EDR provided about these sites, and those that could be field-verified within the AMSD are discussed in the appropriate section below.

According to information provided in the previous "Draft" Phase I ESA performed by Property Solutions, Inc. and historical city directories provided by EDR, the address of 3075 Richmond Terrace has historically been applied to the subject property as well as adjoining properties to the north and east. Therefore, it is unclear whether certain ambiguous database listings associated with this address are linked to the subject or adjoining properties.

7.1.1 SUBJECT PROPERTY

The subject property was identified in EDR's report as discussed below.

Facility Name Address	Infanti Chair Mfg 3075 Richmond Ter Bldg 1 Staten Island, New York 10303	Map ID No. Distance (mile) Direction	A6 Target Property N/A
According to the EDR report, Infanti Chair Mfg was listed on the Resource Conservation and Recovery Act – Small Quantity Generator (RCRA – SQG) and Facility Index System/Facility Registry System (FINDS) databases. The FINDS database is a list of facilities that are listed on other databases that contain additional information or more detailed information. The RCRA database indicated that Infanti Chair Mfg was a conditionally exempt SQG with no reported violations. Based upon its regulatory status, Infanti Chair Mfg does not constitute evidence of a recognized environmental condition associated with the subject property.			

7.1.2 ADJOINING AND SURROUNDING PROPERTY

The EDR report did identify properties adjoining the subject property and properties surrounding the subject property.

PSI considered most of the listed sites unlikely to impact the subject property, based upon factors including (but not limited to):

- The nature of the listing
- The use of the site
- When the site was listed and its current listed status
- The developmental density of the setting
- The distance between the listed and subject sites as related to the distance that

releases are likely to migrate based on local surface and subsurface drainage conditions
- The presence of intervening drainage divides
- The inferred groundwater movement.

PSI's discussion of the remaining sites follows.

Facility Name Address	3075 Richmond Terrace 3075 Richmond Terrace Staten Island, NY 10303	Map ID No. Distance (mile) Direction	A1, A2, A12, A17 Target Property N/A
According to the EDR report, 3075 Richmond Terrace was listed on the Emergency Response Notification System (ERNS) database. This database provides information on reported releases of oil and hazardous substances and indicated that 3075 Richmond Terrace was the site of four separate reported releases of oil and/or hazardous substances. Site Reports, provided by EDR, indicated that these four incidents were associated with releases into the water and ship building activities on adjoining properties. Based upon their potential close proximity to the subject property, these ERNS listings are considered evidence of a potential recognized environmental condition associated with the subject property.			

Facility Name Address	3075 Richmond Terrace Pier No: 2 3075 Richmond Terrace Pier No: 2 Staten Island, NY 10303	Map ID No. Distance (mile) Direction	A3 Target Property N/A
According to the EDR report, 3075 Richmond Terrace Pier No: 2 was listed on the ERNS database. This database provides information on reported releases of oil and hazardous substances. The Site Report, provided by EDR, indicated that this incident was associated with a surface release of gasoline at the May Shipyard facility. Based upon its potential close proximity to the subject property, this ERNS listing is considered evidence of a potential recognized environmental condition associated with the subject property.			

Facility Name Address	Mariners Harbor 3075 Richmond Terrace Mariners Harbor 3075 Richmond Terrace Staten Island, NY 10303	Map ID No. Distance (mile) Direction	A14 Target Property N/A
According to the EDR report, Mariners Harbor 3075 Richmond Terrace was listed on the ERNS database. This database provides information on reported releases of oil and hazardous substances. Based on reviewed historical information indicating that the address of 3075 Richmond Terrace has historically been applied to the subject property as well as adjoining properties to the north and east, it is unclear where this reported release occurred and whether or not this reported release has impacted the subject property. Based upon its potential close proximity to the subject property, this ERNS listing is considered evidence of a potential recognized environmental condition associated with the subject property.			

Facility Name Address	ABCO Sewers & Septic 3075 Richmond Terrace Staten Island, NY 10303	Map ID No. Distance (mile) Direction	A4 Target Property N/A
According to the EDR report, ABCO Sewers & Septic was listed on the NY Manifest database. The NY Manifest database tracks facilities that generate hazardous waste and the associated waste disposal manifest data. No manifest records were provided by EDR. This business operation was not identified on the subject or adjoining properties at the time of the site reconnaissance. Based upon its regulatory listing and no evidence of this business on the subject property or adjoining properties observed during the site reconnaissance, this NY Manifest listing does not appear to constitute evidence of a recognized environmental condition associated with the subject property at this time.			

Facility Name Address	Waste Management (Village Carting Co.) 3075 Richmond Terrace Staten Island, NY 10303	Map ID No. Distance (mile) Direction	A5 Target Property N/A
According to the EDR report, Waste Management (Village Carting Co.) was listed on the NY Solid Waste Facilities/Landfill Sites (SWF/LF) database. The NY SWF/LF records contain an inventory of solid waste facilities and landfills located in the state of New York. Database information indicated that this facility is inactive and was formerly used to process construction and demolition materials. This business operation was not identified on the subject or adjoining properties at the time of the site reconnaissance. Based upon its regulatory listing and no evidence of this business on the subject property or adjoining properties observed during the site reconnaissance, this NY SWF/LF listing does not appear to constitute evidence of a recognized environmental condition associated with the subject property at this time.			

Facility Name Address	Reinauer Transportation Co. Inc. 3075 Richmond Ter Staten Island, New York 10302	Map ID No. Distance (mile) Direction	A7 Target Property N/A
According to the EDR report, Reinauer Transportation Co. Inc. was listed on the RCRA – SQG, FINDS and NY Manifest databases. The FINDS database is a list of facilities that are listed on other databases that contain additional information or more detailed information. The RCRA database indicated that this facility was a conditionally exempt SQG with no reported violations. The NY Manifest database tracks facilities that generate hazardous waste and the associated waste disposal manifest data. Manifest records provided by EDR indicate that this facility generated 55 gallons of "Non-Listed Ignitable Wastes, waste code D001 for disposal in 1989. This business operation was not identified on the subject or adjoining properties at the time of the site reconnaissance. Based upon its regulatory listing and no evidence of this business on the subject property or adjoining properties observed during the site reconnaissance, this facility does not appear to constitute evidence of a recognized environmental condition associated with the subject property at this time.			

Facility Name Address	May Ship Repair Contracting Corp. Mayship Repair - 3075 Richmond Terrace Mayship Shipyard 3075 Richmond Terrace Staten Island, NY 10303	Map ID No. Distance (mile) Directions	A8, A9, A10, A16 Target Property North and East
According to the EDR report, this adjoining property was listed on the NY above ground storage tank (AST), RCRA-SQG, FINDS, NY Manifest and NY Spills databases. The NY AST database is a listing of registered ASTs in the state of New York. According to the EDR report this facility operates one registered AST to store waste oil. The RCRA database indicated that this facility was a conditionally exempt SQG with no reported violations. The FINDS database is a list of facilities that are listed on other databases that contain additional information or more detailed information. This facility was listed on the RCRA, New York – Facility Information System (FIS), and the Aerometric Information Retrieval System (AIRS) Facility Subsystem (AFS) databases. The FIS database is used by the NYDEC to track environmental facility information, and the AFS database is used to track emissions and compliance data for industrial operations. The NY Manifest database tracks facilities that generate hazardous waste and the associated waste disposal manifest data. Manifest records provided by EDR indicate that this facility has generated; five cubic yards of lead waste, waste code D008; 130 gallons of "Non-Listed Ignitable Wastes, waste code D001; 5,304 pounds of (acetone) waste code F003; 350 gallons of "Non-Listed Corrosive Wastes, waste code D002; 200 pounds of "Non-Listed Corrosive Wastes, waste code D002; 905 gallons of non-coded wastes; and 1,158 pounds of non-coded wastes for disposal in 1996. The NY Spills database is a listing of spills that have been reported to the NYDEC. NY Spills database records provided by EDR indicate that this incident is related to a gasoline spill that has not been closed by the DEC due to the presence of elevated levels of polynuclear aromatic hydrocarbons (PAHs) in the soil and groundwater. Based upon the open status of the spill incident and location of this facility relative to the subject property, this facility constitutes evidence of a recognized environmental condition associated with the subject property.			

Facility Name Address	LCABH – ABCO Garage 3075 Richmond Terrace Staten Island, New York 10303	Map ID No. Distance (mile) Direction	A11 Target Property N/A
According to the EDR report, LCABH – ABCO Garage was listed on the FINDS database. The FINDS database is a list of facilities that are listed on other databases that contain additional information or more detailed information. This facility was listed on the FIS database which is used by the NYDEC to track environmental facility information throughout the state of New York. This business operation was not identified on the subject or adjoining properties at the time of the site reconnaissance. Based upon its regulatory listing and no evidence of this business on the subject property or adjoining properties observed during the site reconnaissance, this facility does not appear to constitute evidence of a recognized environmental condition associated with the subject property at this time.			

Facility Name Address	3075 Richmond Terrace 3075 Richmond Terrace Staten Island, NY 10303	Map ID No. Distance (mile) Direction	A13 Target Property N/A
According to the EDR report, 3075 Richmond Terrace was listed on the NY Spills and NY Historical Spills databases. The NY Spills and Historical Spills databases provide information on chemical and petroleum spills that have been reported to the NYDEC. These records, provided by EDR, indicate that two releases were reported at this adjoining facility. It was reported that an equipment failure led to the sinking of a dry dock in 1994. An oil sheen was observed around the sunken dry dock and the US Coast Guard responded. It was determined that no spill had occurred and no cleanup was performed. Based upon the reported final determination of the spill, this facility does not constitute evidence of a recognized environmental condition associated with the subject property at this time.			

Facility Name Address	Waste Management – Richmond Ter 3075 Richmond Terrace Staten Island, New York 10303	Map ID No. Distance (mile) Direction	A15 Target Property N/A
According to the EDR report, this facility was listed on the FINDS database. The FINDS database is a list of facilities that are listed on other databases that contain additional information or more detailed information. This facility was listed on the FIS database which is used by the NYDEC to track environmental facility information throughout the state of New York. This business operation was not identified on the subject or adjoining properties at the time of the site reconnaissance. Based upon its regulatory listing and no evidence of this business on the subject property or adjoining properties observed during the site reconnaissance, this facility does not appear to constitute evidence of a recognized environmental condition associated with the subject property at this time.			

7.2 OTHER REGULATORY INFORMATION

7.2.1 FREEDOM OF INFORMATION REQUESTS

PSI submitted Freedom of Information requests to the agencies tabulated below. Response status is also tabulated.

Summary		
Response?		
Yes	**No**	
☒	☐	New York City of Department of Finance
☐	☒	New York City Department of Environmental Conservation

Summary		
Response?		
Yes	**No**	
☐	☒	New York City of Department of Planning
☐	☒	New York City Fire Department
Note: Response status based on date of report.		

As of the date of this report, no information indicating evidence of RECs has been received from the sources listed above, or no response has been received to date. Pertinent information will be reviewed upon receipt and forwarded as an addendum to this report. Supporting correspondence is appended.

8 INTERVIEWS

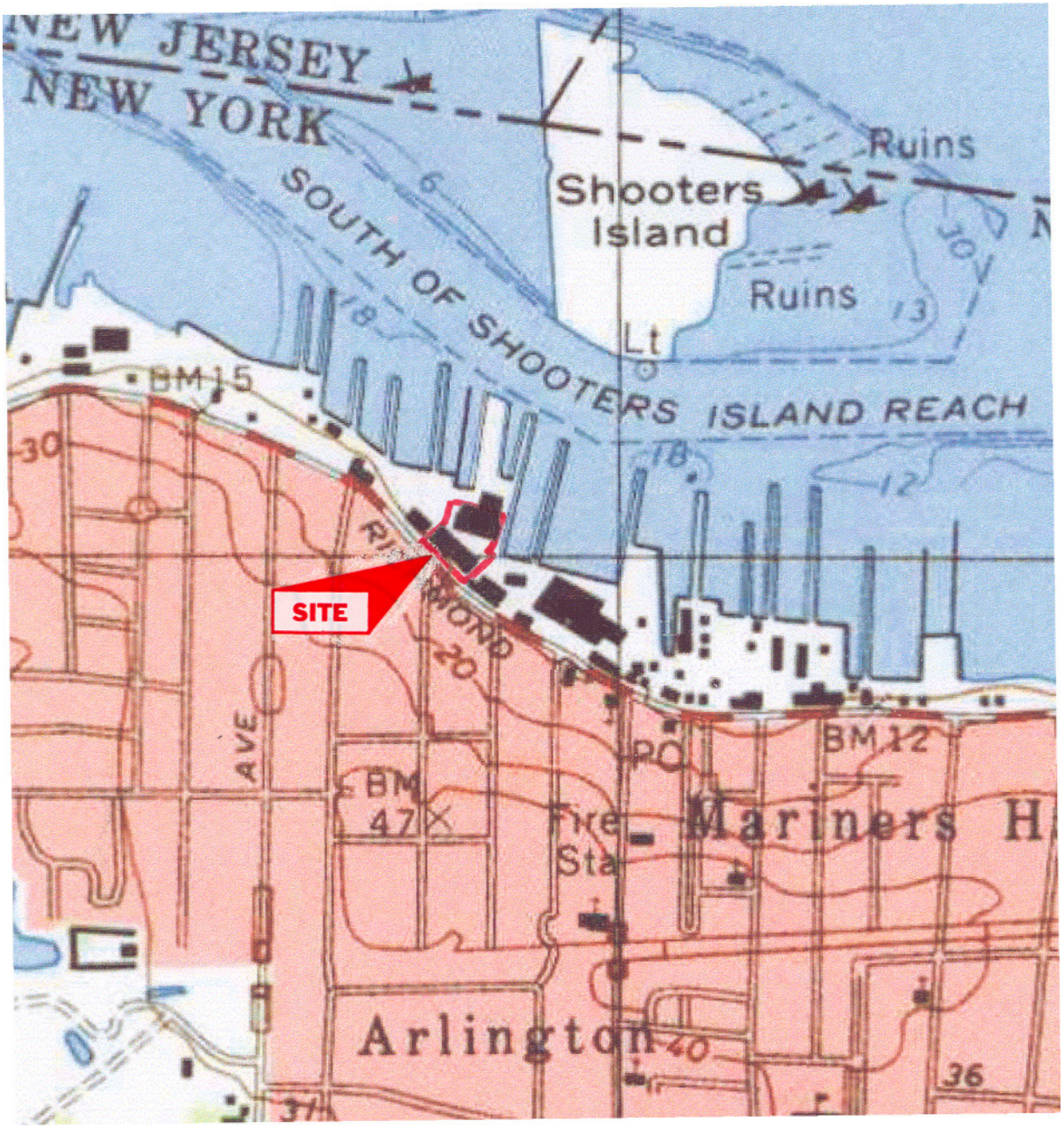
8.1 INTERVIEW PARTIES

Summary		
Name	**Affiliation**	**Role**
Ms. Kim Johnson	Devon Self Storage Holdings (US), LLC	User
Mr. Hector Deffer	e.k.i. (Manufacturer of Premium Seating)	Key Site Manager
Mr. Peter Cohen	NAI James E. Hansen	Real Estate Broker

8.2 INTERVIEW FINDINGS

PSI identified no evidence of RECs in the information obtained from the interviews beyond which was identified during the Phase I ESA as described in other sections of this report.

FIGURES



NORTH

Source: USGS 7.5 Minute Topographic Map;
Elizabeth, New York 1995

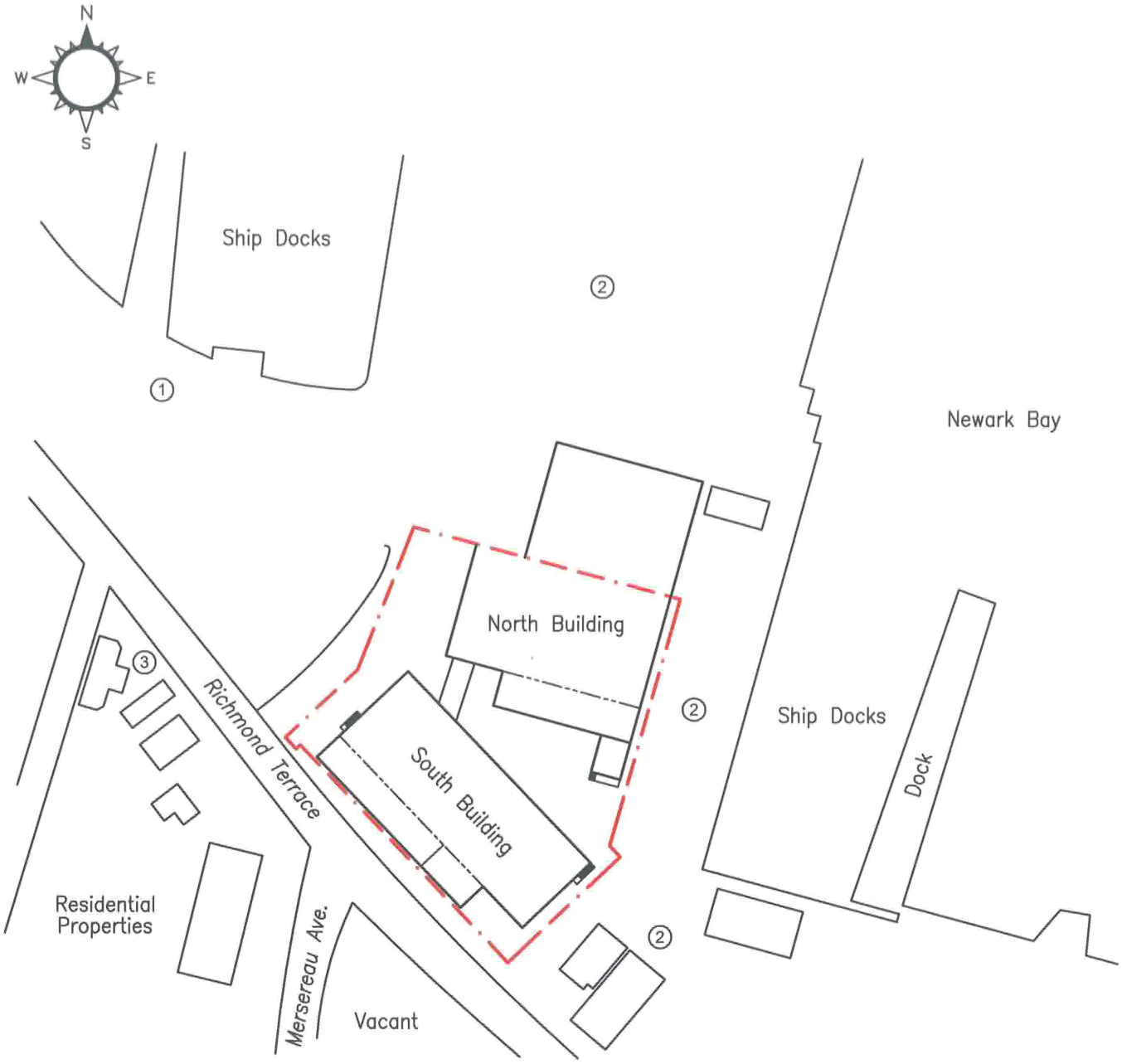
Figure 1: Topographic Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

PSI Project #: 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



LEGEND

SUBJECT PROPERTY BOUNDARY

① McAllister Towing & Transportation - 3165 Richmond Terrace

② May Ship Repair - 3075 Richmond Terrace

③ Residential Apartment Buildings

NOTE: All locations are approximate and must be field verified.

psi Information To Build On
Engineering • Consulting • Testing
Environmental Services
4421 Harrison Street Hillside, Illinois 60162
PHONE: (708) 236-0720 FAX: (708) 236-0721

Figure 2 - Site Location Map

Devon Self Storage Holdings (US), LLC
Proposed Devon Self Storage Facility
3075 & 3131 Richmond Terrace
Staten Island, NY 10303

Scale:	NO SCALE
Date:	5–14–07
File Name:	014–001
Project Number:	046-7E014

PHOTOGRAPHS

Photo 1: East side of South Building facing north.

Photo 2: West side of subject property facing north, showing South Building in foreground and North Building in background.

Photo 3: West side of South Building facing northeast, showing empty drums, vented small bunker and exterior man-lift in background.

Photo 4: Vented exterior bunker on west side of South Building.

Photo 5: South Building, facing southeast, showing miscellaneous junk and a roll-off box for solid waste / trash staged on the concrete pavement.

Photo 6: View of west side of North Building, overhead walkway and northwest corner of South Building.

Photo 7: View of man-lift on northwest corner of the South Building.

Photo 8: Second floor office entrance to the South Building.

Photo 9: View of southeast corner of South Building, facing west.

Photo 10: East side of South Building facing northwest.

Photo 11: View of south side of North Building, facing east.

Photo 12: View of west side of North Building, showing abandoned empty waste bin. [Note: PSI's temporary monitoring well TM-1 is also shown in the foreground pavement.]

Photo 13: View of chairs in production on second floor of the South Building.

Photo 14: View of broken concrete area beneath the interior man-lift. Some oil/grease staining was observed.

Photo 15: Tote storage for resin and isocyanate used in foam seat forming. Photograph taken in southwest corner of the first floor of the South Building.

Photo 16: Photograph of southwest corner of southwest room of the first floor of the South Building, showing box of metal chair leg shavings and tote.

Photo 17: Northeast corner of first floor of South Building showing gas welding cylinders and miscellaneous machinery and parts.

Photo 18: Southwest area of first floor of South Building, showing metal cutting machinery and floor staining and metal shavings.

Photo 19: Empty drums on first floor of the South Building.

Photo 20: Interior of North Building facing north, showing stored chairs and furniture.

Photo 21: Metal cutting and drilling machinery on first floor of South Building.

Photo 22: Adjacent property to the north.

Photo 23: Adjacent property to the west, showing 55-gallon drums of apparent soil boring cuttings, and ship docking area.

Photo 24: Adjacent to the west, showing inactive transformer, empty drums and old tires.

Photo 25: Adjacent property to the east, facing northeast.

Photo 26: Adjacent property to the east, facing east.

Photo 27: Richmond Terrace adjoining the south of the subject property, facing west.

Photo 28: Apartment buildings on the south side of Richmond Terrace, facing southeast.

Photo 29: Apartment buildings on the south side of Richmond Terrace, facing southwest.

Photo 30: Richmond Terrace, facing east, showing commercial establishment, further to the east.

ENVIRONMENTAL DATABASE REPORT

The EDR Radius Map
with GeoCheck®

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace
Staten Island, NY 10303

Inquiry Number: 1899735.2s

April 11, 2007

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	6
Orphan Summary	178
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	A-11

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2007 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

3075 & 3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

COORDINATES

Latitude (North):	40.639000 - 40˚ 38' 20.4''
Longitude (West):	74.162900 - 74˚ 9' 46.4''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	570786.4
UTM Y (Meters):	4498809.5
Elevation:	11 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40074-F2 ELIZABETH, NJ
Most Recent Revision:	1995

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
3075 RICHMOND TERRACE 3075 RICHMOND TERRACE STATEN ISLAND, NY 10303	ERNS	N/A
3075 RICHMOND TERRACE 3075 RICHMOND TERRACE NEW YORK, NY 10004	ERNS	N/A
3075 RICHMOND TERRACE PIER NO: 2 3075 RICHMOND TERRACE PIER NO: 2 STATEN ISLAND, NY 10303	ERNS	N/A
ABCO SEWERS & SEPTIC 3075 RICHMOND TERRACE NEW YORK, NY 10303	NY MANIFEST	N/A
WASTE MANAGEMENT (VILLAGE CARTING 3075 RICHMOND TERRACE STATEN ISLAND, NY 10303	NY SWF/LF	N/A

EXECUTIVE SUMMARY

INFANTI CHAIR MFG 3075 RICHMOND TER BLDG 1 STATEN ISLAND, NY 10303	RCRA-SQG FINDS	NYR000062620
REINAUER TRANSPORTATION CO INC 3075 RICHMOND TER STATEN ISLAND, NY 10302	RCRA-SQG FINDS NY MANIFEST	NYD982793150
MAY SHIP REPAIR CONTRACTING CORP. 3075 RICHMOND TERRACE NEW YORK CITY, NY 10303	NY AST	N/A
MAY SHIP REPAIR CONTRACTING CORP 3075 RICHMOND TER IND PARK STATEN ISLAND, NY 10303	RCRA-SQG NY MANIFEST	NYR000031732
MAYSHIP REPAIR-3075 RICHMOND TERR 3075 RICHMOND TERRACE STATEN ISLAND, NY 10303	FINDS	110019435280
LCABH - ABCO GARAGE 3075 RICHMOND TERRACE STATEN ISLAND, NY 10303	FINDS	110019565521
3075 RICHMOND TERRACE 3075 RICHMOND TERRACE STATEN ISLAND, NY 10303	ERNS	N/A
3075 RICHMOND TERR. 3075 RICHMOND TERR. STATEN ISLAND, NY	NY Spills Date Closed: 01/13/94 NY Hist Spills	N/A
MARINERS HARBOR 3075 RICHMOND TER MARINERS HARBOR 3075 RICHMOND TERRACE STATEN ISLAND, NY	ERNS	N/A
WASTE MANAGEMENT-RICHMOND TERR 3075 RICHMOND TERRACE STATEN ISLAND, NY 10303	FINDS	110019138100
MAYSHIP SHIPYARD 3075 RICHMOND TERR STATEN ISLAND, NY	NY Spills Date Closed: / /	N/A
3075 RICHMOND TERRACE 3075 RICHMOND TERRACE STATEN ISLAND, NY	ERNS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL RECOVERY	Federal Superfund Liens
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
RADINFO	Radiation Information Database
US CDL	Clandestine Drug Labs
LUCIS	Land Use Control Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

NY HSWDS	Hazardous Substance Waste Disposal Site Inventory
NY SHWS	Inactive Hazardous Waste Disposal Sites in New York State
NJ SHWS	Known Contaminated Sites in New Jersey
NJ CHROME	Chromate Chemical Production Waste Sites
NJ PF	Publicly Funded Cleanups Site Status Report
NY DEL SHWS	Delisted Registry Sites
NJ SWF/LF	Solid Waste Facility Directory
NY SWTIRE	Registered Waste Tire Storage & Facility List
NJ HIST LF	Solid Waste Facility Directory
NJ SWRCY	Approved Class B Recycling Facilities
NJ LUST	UST Active Remediation Sites Listing
NJ HIST LUST	Regulated UST Contamination Sites Listing

EXECUTIVE SUMMARY

NJ UST Underground Storage Tank Data
NY CBS UST Chemical Bulk Storage Database
NY MOSF UST Major Oil Storage Facilities Database
NJ LIENS Environmental LIENS
NY CBS AST Chemical Bulk Storage Database
NJ MAJOR FACILITIES List of Major Facilities
NY MOSF AST Major Oil Storage Facilities Database
NJ HIST MAJOR FACILITIES List of Major Facilities
NJ MANIFEST Hazardous Waste Manifest Data
NJ Release Hazardous Material Incident Database
NJ Spills Spills
NY ENG CONTROLS Registry of Engineering Controls
NJ ENG CONTROLS Declaration Environmental Restriction/Deed Notice Sites
NY INST CONTROL Registry of Institutional Controls
NJ INST CONTROL Classification Exception Area Sites
NY VCP Voluntary Cleanup Agreements
NJ VCP Voluntary Cleanup Program Sites
NY DRYCLEANERS Registered Drycleaners
NJ DRYCLEANERS Drycleaner List
NY BROWNFIELDS Brownfields Site List
NJ BROWNFIELDS Brownfields Database
NJ ISRA ISRA Database
NY SPDES State Pollutant Discharge Elimination System
NJ NJPDES New Jersey Pollutant Discharge Elimination System Dischargers
NY AIRS Air Emissions Data
NJ HWS RE-EVAL Site Re-Evaluation Report

TRIBAL RECORDS

INDIAN RESERV Indian Reservations
INDIAN LUST Leaking Underground Storage Tanks on Indian Land
INDIAN UST Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

FEDERAL RECORDS

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 11/28/2006 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MARINERS MARSH	3418 RICHMOND TERRACE	1/4 - 1/2 WNW	J63	171

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 01/04/2007 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
STANDARD T CHEMICAL	***2600 RICHMOND TER***	***1/2 - 1 E***	***67***	***176***

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store , treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/13/2006 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
EKLOF MARINE CORP	***3245 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***F45***	***103***
CLEAN WATER OF NY INCORPORATED	***3245 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***F48***	***137***
TERRACE TRANSPORTATION	***3249 RICHMOND TER***	***1/8 - 1/4 NW***	***G51***	***148***
NEW YORK FIRE DEPT ENGINE 158	***65 HARBOR RD***	***1/8 - 1/4 SE***	***I56***	***155***

Lower Elevation	Address	Dist / Dir	Map ID	Page
US COAST GUARD - BARGE NATHAN	***3165 RICHMOND TER***	***0 - 1/8 NW***	***D28***	***45***
POLING TRANSPORTATION CORP	***3165 RICHMOND TER***	***0 - 1/8 NW***	***D32***	***64***

EXECUTIVE SUMMARY

US BROWNFIELDS: The EPA's listing of Brownfields properites addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessments

A review of the US BROWNFIELDS list, as provided by EDR, and dated 01/29/2007 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MARINERS MARSH PROPERTY	3418 RICHMOND TERRACE,	1/4 - 1/2 WNW	J64	171

STATE AND LOCAL RECORDS

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 01/30/2007 has revealed that there are 4 NY SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CLEAN WATER OF NEW YORK; INC.	***3249 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***G50***	***145***
SOTS LEASING CORP	***60 DAVIDSON STREET***	***1/8 - 1/4 S***	***H54***	***151***
BAYVIEW AUTO WRECKERS INC	3333 RICHMOND TERRACE	1/4 - 1/2 WNW	60	165

Lower Elevation	Address	Dist / Dir	Map ID	Page
STAR SAND & GRAVEL CORP.	RICHMOND TERRACE / HA	1/8 - 1/4 SE	43	101

Registered Recycling Facility List from the Department of Environmental Conservation.

A review of the NY SWRCY list, as provided by EDR, and dated 02/12/2007 has revealed that there is 1 NY SWRCY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SOTS LEASING CORP	***60 DAVIDSON STREET***	***1/8 - 1/4 S***	***H54***	***151***

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 01/17/2007 has revealed that there are 14 NY LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
22 GRANDVIEW AVE. Date Closed: 10/29/92	***22 GRAND VIEW AVE.***	***0 - 1/8 W***	***21***	***27***
23 ANDROS AVE. Date Closed: 02/04/94	***23 ANDROS AVE.***	***0 - 1/8 SSE***	***B22***	***29***
FIRST MARINE Date Closed: 09/02/03	***RICHMOND TERR***	***1/8 - 1/4 NW***	***F42***	***97***
3245 RICHMOND TERR Date Closed: 07/03/96	3245 RICHMOND TERR	1/8 - 1/4 NW	F44	102

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
EKLOF MARINE CORP Date Closed: 03/20/96	***3245 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***F45***	***103***
3245 RICHMOND TERRACE Date Closed: 09/05/93 Date Closed: 07/11/95	***3245 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***F47***	***122***
Not reported Date Closed: / /	***2901 / 2945 RICHMOND***	***1/8 - 1/4 SE***	***52***	***149***
3280 RICHMOND TERRACE Date Closed: 11/25/03	***3280 RICHMOND TERRACE***	***1/8 - 1/4 WNW***	***55***	***153***
187 ARLINGTON AVE/BKLYN Date Closed: 12/08/90	***187 ARLINGTON AVENUE***	***1/4 - 1/2 SW***	***59***	***163***
7TH DAY ADVENTIST CHURCH Date Closed: 01/17/95	***72-76 UNION AVENUE***	***1/4 - 1/2 SE***	***61***	***166***
SHAPIRO RESIDENCE Date Closed: 10/21/88	***172-40 HYLAND AV***	***1/4 - 1/2 W***	***62***	***169***
A & A LANDFILL Date Closed: 10/10/03	278-280 SOUTH AVENUE	1/4 - 1/2 SSW	65	172
MARINER'S HARBOR Date Closed: / /	***139 BRABANT ST***	***1/4 - 1/2 S***	***66***	***173***

Lower Elevation	Address	Dist / Dir	Map ID	Page
1ST MARINE SHIP YARD/S.I. Date Closed: 09/02/03	***2945 RICHMOND TERRACE***	***1/4 - 1/2 ESE***	***58***	***161***

NY HIST LTANKS: A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database.

A review of the NY HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there are 11 NY HIST LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
22 GRANDVIEW AVE.	***22 GRAND VIEW AVE.***	***0 - 1/8 W***	***21***	***27***
23 ANDROS AVE.	***23 ANDROS AVE.***	***0 - 1/8 SSE***	***B22***	***29***
FIRST MARINE	***RICHMOND TERR***	***1/8 - 1/4 NW***	***F42***	***97***
EKLOF MARINE CORP	***3245 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***F45***	***103***
3245 RICHMOND TERRACE	***3245 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***F47***	***122***
Not reported	***2901 / 2945 RICHMOND***	***1/8 - 1/4 SE***	***52***	***149***
3280 RICHMOND TERRACE	***3280 RICHMOND TERRACE***	***1/8 - 1/4 WNW***	***55***	***153***
187 ARLINGTON AVE/BKLYN	***187 ARLINGTON AVENUE***	***1/4 - 1/2 SW***	***59***	***163***
7TH DAY ADVENTIST CHURCH	***72-76 UNION AVENUE***	***1/4 - 1/2 SE***	***61***	***166***
SHAPIRO RESIDENCE	***172-40 HYLAND AV***	***1/4 - 1/2 W***	***62***	***169***
MARINER'S HARBOR	***139 BRABANT ST***	***1/4 - 1/2 S***	***66***	***173***

EXECUTIVE SUMMARY

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, and dated 12/22/2006 has revealed that there are 3 NY UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SOUTH AUE AUTO INC	***3228 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***F41***	***90***
EGRET REALTY CORPORATION	***3247 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***G49***	***144***

Lower Elevation	Address	Dist / Dir	Map ID	Page
3I/NEW YORK MARINE	3165 RICHMOND TERRACE	0 - 1/8 NW	D30	62

NY HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 3 NY HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SOUTH AUE AUTO INC	***3228 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***F41***	***90***
EGRET REALTY CORPORATION	***3247 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***G49***	***144***
ENGINE COMPANY 158	***65 HARBOR ROAD***	***1/8 - 1/4 SSE***	***I57***	***156***

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, and dated 12/22/2006 has revealed that there is 1 NY AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ENGINE COMPANY 158	***65 HARBOR ROAD***	***1/8 - 1/4 SSE***	***I57***	***156***

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 10/26/2006 has revealed that there are 7 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
EKLOF MARINE CORP	***3245 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***F45***	***103***
CLEAN WATER OF NY INC	3245 RICHMOND TER	1/8 - 1/4 NW	F46	122
CLEAN WATER OF NY INCORPORATED	***3245 RICHMOND TERRACE***	***1/8 - 1/4 NW***	***F48***	***137***
EAST WEST NORTH & SOUTH TRANSP	60 DAVIDSON ST	1/8 - 1/4 S	H53	151
NEW YORK FIRE DEPT ENGINE 158	***65 HARBOR RD***	***1/8 - 1/4 SE***	***I56***	***155***

Lower Elevation	Address	Dist / Dir	Map ID	Page
US COAST GUARD - BARGE NATHAN	***3165 RICHMOND TER***	***0 - 1/8 NW***	***D28***	***45***
POLING TRANSPORTATION CORP	***3165 RICHMOND TER***	***0 - 1/8 NW***	***D32***	***64***

EXECUTIVE SUMMARY

NY SPILLS: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 01/17/2007 has revealed that there are 18 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
20 ANDROS AVENUE Date Closed: 02/17/94	***20 ANDROS AVENUE***	***0 - 1/8 SSE***	***B20***	***25***
41 ANDROS AVE/S.I. Date Closed: 02/12/03	***41 ANDROS AVENUE***	***0 - 1/8 SSE***	***35***	***76***
72 MERSEREAU AVENUE Date Closed: 04/24/96	***72 MERSEREAU AVENUE***	***0 - 1/8 SSW***	***36***	***79***
NEWARK BAY Date Closed: 06/25/98	***RICHMOND TERRACE***	***0 - 1/8 WNW***	***E37***	***81***
NEW YORK CITY HARBOUR Date Closed: 03/18/03	***RICHMOND TERRACE***	***0 - 1/8 WNW***	***E38***	***83***
CSX ST. GEORGE RAIL YARD Date Closed: 07/11/03	***RICHMOND TERRACE***	***0 - 1/8 WNW***	***E39***	***85***
SUNKEN YARD TUG BOAT Date Closed: 04/08/98	***RICHMOND TERRACE***	***0 - 1/8 WNW***	***E40***	***88***

Lower Elevation	Address	Dist / Dir	Map ID	Page
22 MERSEREAU AVE Date Closed: 12/27/96	***22 MERSEREAU AVE***	***0 - 1/8 SW***	***18***	***20***
77 POST LANE Date Closed: 02/11/03	***77 POST LANE***	***0 - 1/8 NW***	***19***	***22***
MANERS HARBOR Date Closed: 09/14/00	***3249 RICHMOND TR***	***0 - 1/8 NNE***	***C23***	***32***
MARINERS HARBOR Date Closed: 07/31/94 Date Closed: 04/07/95	***MARINERS HARBOR***	***0 - 1/8 NNE***	***C24***	***34***
MARINERS HARBORS Date Closed: 02/03/94	***MARINERS HARBORS***	***0 - 1/8 NNE***	***C25***	***38***
SHOOTERS ISLAND Date Closed: 03/18/03	***MARRINERS HARBOR***	***0 - 1/8 NNE***	***C26***	***41***
MARRINERS HARBOR Date Closed: 02/20/98	***RICHMOND TERRACE RD***	***0 - 1/8 NNE***	***C27***	***43***
Not reported Date Closed: 03/21/03	***3165 RICHMOND TERR***	***0 - 1/8 NW***	***D29***	***60***
3165 RICHMOND TERRACE Date Closed: 01/23/92	***3165 RICHMOND TERRACE***	***0 - 1/8 NW***	***D31***	***62***
MARINERS HARBOUR Date Closed: 06/21/05 Date Closed: 10/27/03	***3165 RICHMOND TERRACE***	***0 - 1/8 NW***	***D33***	***67***
3165 RICHMOND TERR Date Closed: 07/12/93 Date Closed: 12/08/03	***3165 RICHMOND TERR***	***0 - 1/8 NW***	***D34***	***71***

EXECUTIVE SUMMARY

NY HIST SPILLS: This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database.

A review of the NY Hist Spills list, as provided by EDR, and dated 01/01/2002 has revealed that there are 18 NY Hist Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
20 ANDROS AVENUE	*20 ANDROS AVENUE*	*0 - 1/8*	*SSE*	*B20*	*25*
41 ANDROS AVE/S.I.	*41 ANDROS AVENUE*	*0 - 1/8*	*SSE*	*35*	*76*
72 MERSEREAU AVENUE	*72 MERSEREAU AVENUE*	*0 - 1/8*	*SSW*	*36*	*79*
NEWARK BAY	*RICHMOND TERRACE*	*0 - 1/8*	*WNW*	*E37*	*81*
NEW YORK CITY HARBOUR	*RICHMOND TERRACE*	*0 - 1/8*	*WNW*	*E38*	*83*
CSX ST. GEORGE RAIL YARD	*RICHMOND TERRACE*	*0 - 1/8*	*WNW*	*E39*	*85*
SUNKEN YARD TUG BOAT	*RICHMOND TERRACE*	*0 - 1/8*	*WNW*	*E40*	*88*

Lower Elevation	Address	Dist / Dir		Map ID	Page
22 MERSEREAU AVE	*22 MERSEREAU AVE*	*0 - 1/8*	*SW*	*18*	*20*
77 POST LANE	*77 POST LANE*	*0 - 1/8*	*NW*	*19*	*22*
MANERS HARBOR	*3249 RICHMOND TR*	*0 - 1/8*	*NNE*	*C23*	*32*
MARINERS HARBOR	*MARINERS HARBOR*	*0 - 1/8*	*NNE*	*C24*	*34*
MARINERS HARBORS	*MARINERS HARBORS*	*0 - 1/8*	*NNE*	*C25*	*38*
SHOOTERS ISLAND	*MARRINERS HARBOR*	*0 - 1/8*	*NNE*	*C26*	*41*
MARRINERS HARBOR	*RICHMOND TERRACE RD*	*0 - 1/8*	*NNE*	*C27*	*43*
Not reported	*3165 RICHMOND TERR*	*0 - 1/8*	*NW*	*D29*	*60*
3165 RICHMOND TERRACE	*3165 RICHMOND TERRACE*	*0 - 1/8*	*NW*	*D31*	*62*
MARINERS HARBOUR	*3165 RICHMOND TERRACE*	*0 - 1/8*	*NW*	*D33*	*67*
3165 RICHMOND TERR	*3165 RICHMOND TERR*	*0 - 1/8*	*NW*	*D34*	*71*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
LJ & M LAPLACE	NY MANIFEST
COASTAL PIPELINE @ PORT IVORY	NY MANIFEST
PROCTER & GAMBLE LF	CERC-NFRAP
EXPERT RECYCLING SERVICE; LLC	NY SWF/LF
RICHIE FUEL OIL	NY LTANKS, NY HIST LTANKS
FRESHKILLS LANDFILL	NY Spills, NY Hist Spills
CRANE SPILL	NY Spills
BEEMAN AVE & RICHMOND TER	NY Spills, NY Hist Spills
LAKE AVE	NY Spills
KILLVAN CULL	NY Spills, NY Hist Spills
END OF HARBOR RD	NY Spills, NY Hist Spills
MERSEREAU AVE STATION	NY Spills, NY Hist Spills
PADMOUNT # 10286	NY Spills
BODINE CREEK	NY Spills, NY Hist Spills
POLE #10342	NY Spills, NY Hist Spills
MCALLISTER YARD	NY Spills
KILL VAN KULL	NY Spills
CADELL DRY DOCKS	NY Spills, NY Hist Spills
RICHMOND TERR @ ELM ST	NY Spills
ONE PINT CABLE OIL IN MANHOLE 37	NY Spills
CADDELLS SHIPYARD	NY Spills, NY Hist Spills
MANHOLES 80 & 81 & 79	NY Spills
NEW BRIGHTON # 1 SUBSTATION	NY Spills
1388 RICHMOND TERRACE	NY Spills
STREET SPILL	NY Spills
NYDEP	NY Spills
MAN HOLE 331	NY Spills, NY Hist Spills
TRAVIS AVE BETWEEN	NY Spills, NY Hist Spills
MANHOLE 7115	NY Spills
2901 & 2945 RICHMOND TERRACE (BLOC	NY VCP
EXPERT RECYCLING SERVICE; LLC	NY SWRCY

OVERVIEW MAP - 1899735.2s

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Landfill Sites

Dept. Defense Sites

Indian Reservations BIA

County Boundary

Oil & Gas pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

0 1/4 1/2 1 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Proposed Devon Self Storage	CLIENT: PSI, Inc.
ADDRESS: 3075 & 3131 Richmond Terrace Staten Island NY 10303	CONTACT: David H. Russian
LAT/LONG: 40.6390 / 74.1629	INQUIRY #: 1899735.2s
	DATE: April 11, 2007 7:47 am

Copyright © 2007 EDR, Inc. © 2007 Tele Atlas Rel. 07/2006.

DETAIL MAP - 1899735.2s

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Landfill Sites

Dept. Defense Sites

Indian Reservations BIA

Oil & Gas pipelines

National Wetland Inventory

State Wetlands

0 1/16 1/8 1/4 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Proposed Devon Self Storage	CLIENT: PSI, Inc.
ADDRESS: 3075 & 3131 Richmond Terrace Staten Island NY 10303	CONTACT: David H. Russian INQUIRY #: 1899735.2s
LAT/LONG: 40.6390 / 74.1629	DATE: April 11, 2007 7:47 am

Copyright © 2007 EDR, Inc. © 2007 Tele Atlas Rel. 07/2006.

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	1	NR	NR	1
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	1	NR	1
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.	X	0.250	2	4	NR	NR	NR	6
ERNS	X	TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	1	NR	NR	1
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
NY HSWDS		0.500	0	0	0	NR	NR	0
NY State Haz. Waste		1.000	0	0	0	0	NR	0
NJ State Haz. Waste		1.000	0	0	0	0	NR	0
NJ CHROME		0.500	0	0	0	NR	NR	0
NJ PF		1.000	0	0	0	0	NR	0
NY DEL SHWS		1.000	0	0	0	0	NR	0
NY State Landfill	X	0.500	0	3	1	NR	NR	4
NJ State Landfill		0.500	0	0	0	NR	NR	0
NY SWRCY		0.500	0	1	0	NR	NR	1
NY SWTIRE		0.500	0	0	0	NR	NR	0
NJ HIST LF		0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NJ SWRCY		0.500	0	0	0	NR	NR	0
NJ LUST		0.500	0	0	0	NR	NR	0
NY LTANKS		0.500	2	6	6	NR	NR	14
NY HIST LTANKS		0.500	2	5	4	NR	NR	11
NJ HIST LUST		0.500	0	0	0	NR	NR	0
NY UST		0.250	1	2	NR	NR	NR	3
NJ UST		0.250	0	0	NR	NR	NR	0
NY CBS UST		0.250	0	0	NR	NR	NR	0
NY MOSF UST		0.500	0	0	0	NR	NR	0
NY HIST UST		0.250	0	3	NR	NR	NR	3
NY AST	X	0.250	0	1	NR	NR	NR	1
NJ LIENS		TP	NR	NR	NR	NR	NR	0
NY CBS AST		0.250	0	0	NR	NR	NR	0
NY HIST AST		TP	NR	NR	NR	NR	NR	0
NJ MAJOR FACILITIES		0.500	0	0	0	NR	NR	0
NY MOSF AST		0.500	0	0	0	NR	NR	0
NJ HIST MAJOR FACILITIES		0.500	0	0	0	NR	NR	0
NY MANIFEST	X	0.250	2	5	NR	NR	NR	7
NJ MANIFEST		0.250	0	0	NR	NR	NR	0
NY Spills	X	0.125	18	NR	NR	NR	NR	18
NJ Release		TP	NR	NR	NR	NR	NR	0
NJ Spills		TP	NR	NR	NR	NR	NR	0
NY Hist Spills	X	0.125	18	NR	NR	NR	NR	18
NY ENG CONTROLS		0.500	0	0	0	NR	NR	0
NJ ENG CONTROLS		0.500	0	0	0	NR	NR	0
NY INST CONTROL		0.500	0	0	0	NR	NR	0
NJ INST CONTROL		0.500	0	0	0	NR	NR	0
NY VCP		0.500	0	0	0	NR	NR	0
NJ VCP		0.500	0	0	0	NR	NR	0
NY DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NJ DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NY BROWNFIELDS		0.500	0	0	0	NR	NR	0
NJ BROWNFIELDS		0.500	0	0	0	NR	NR	0
NJ ISRA		0.500	0	0	0	NR	NR	0
NY SPDES		TP	NR	NR	NR	NR	NR	0
NJ NJPDES		TP	NR	NR	NR	NR	NR	0
NY AIRS		TP	NR	NR	NR	NR	NR	0
NJ HWS RE-EVAL		1.000	0	0	0	0	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
A1 **Target Property** **Actual: 11 ft.**	**3075 RICHMOND TERRACE** **3075 RICHMOND TERRACE** **STATEN ISLAND, NY 10303**	**ERNS**	**2002629295** **N/A**

Site 1 of 17 in cluster A

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A2 **Target Property** **Actual: 11 ft.**	**3075 RICHMOND TERRACE** **3075 RICHMOND TERRACE** **NEW YORK, NY 10004**	**ERNS**	**94354569** **N/A**

Site 2 of 17 in cluster A

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A3 **Target Property** **Actual: 11 ft.**	**3075 RICHMOND TERRACE PIER NO: 2** **3075 RICHMOND TERRACE PIER NO: 2** **STATEN ISLAND, NY 10303**	**ERNS**	**98433123** **N/A**

Site 3 of 17 in cluster A

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A4 **Target Property** **Actual: 11 ft.**	**ABCO SEWERS & SEPTIC** **3075 RICHMOND TERRACE** **NEW YORK, NY 10303**	**NY MANIFEST**	**1009228827** **N/A**

Site 4 of 17 in cluster A

NY MANIFEST:

No Manifest Records Available

A5 **Target Property** **Actual: 11 ft.**	**WASTE MANAGEMENT (VILLAGE CARTING CO.)** **3075 RICHMOND TERRACE** **STATEN ISLAND, NY 10303**	**NY SWF/LF**	**S105841965** **N/A**

Site 5 of 17 in cluster A

SWF/LF:

Flag:	INACTIVE
Secondary Addr:	Not reported
Region Code:	2
Phone Number:	7188156000
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	DENISE PETRIZZO; PRESIDENT
Contact Address:	Not reported
Contact Addr2:	Not reported

WASTE MANAGEMENT (VILLAGE CARTING CO.) (Continued) **S105841965**

Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	43W01
Active:	No
East Coordinate:	570862
North Coordinate:	4498919
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	INACTIVE
Secondary Addr:	Not reported
Region Code:	2
Phone Number:	7187201051
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	PATSY SERRA; PRESIDENT
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	43W09
Active:	No
East Coordinate:	571000
North Coordinate:	4498800
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Not reported
Authorization #:	2-6401-00014
Authorization Date:	12/22/1995
Expiration Date:	12/22/2000

A6 **INFANTI CHAIR MFG** **RCRA-SQG** **1004760852**
Target **3075 RICHMOND TER BLDG 1** **FINDS** **NYR000062620**
Property **STATEN ISLAND, NY 10303**

Site 6 of 17 in cluster A

Actual:
11 ft.

INFANTI CHAIR MFG (Continued) **1004760852**

RCRAInfo:
Owner: INFANTI CHAIR MGR
(718) 447-5632
EPA ID: NYR000062620

Contact: RICH RUGGERI
(718) 447-5632

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A7 Target Property | **REINAUER TRANSPORTATION CO INC** | **RCRA-SQG** | **1000307690**
3075 RICHMOND TER | **FINDS** | **NYD982793150**
STATEN ISLAND, NY 10302 | **NY MANIFEST**

Site 7 of 17 in cluster A

Actual: 11 ft.

RCRAInfo:
Owner: REINAUER TRANSPORTATION
(212) 555-1212
EPA ID: NYD982793150

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
Document ID: NJA0632816
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: S58112066

REINAUER TRANSPORTATION CO INC (Continued) **1000307690**

Trans2 State ID:	Not reported
Generator Ship Date:	890921
Trans1 Recv Date:	890921
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890922
Part A Recv Date:	891116
Part B Recv Date:	891017
Generator EPA ID:	NYD982793150
Trans1 EPA ID:	NJD982281016
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	89
Facility Type:	Generator
EPA ID:	NYD982793150
Facility Name:	REINAUER TRANSPORTATION
Facility Address:	3075 RICHMOND TERRACE
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	REINAUER TRANSPORTATION
Mailing Contact:	Not reported
Mailing Address:	3075 RICHMOND TERRACE
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-816-8167

A8 Target Property **MAY SHIP REPAIR CONTRACTING CORP.** **NY AST** **A100295000**
3075 RICHMOND TERRACE **N/A**
NEW YORK CITY, NY 10303

Site 8 of 17 in cluster A

Actual: 11 ft.

AST:

Facility ID:	2-610156
Program Type:	PBS
Facility Addr2:	Not reported
Locality:	STATEN ISLAND
SWIS Code:	4301
DEC Region:	2
Registered:	1
Expiration Date:	3/20/2011 1:44:00 PM
Site Status:	Waste Oil Storer
Site Type:	Other
Above Ground Tanks:	Yes
Under Ground Tanks:	No

A9 Target Property — **MAY SHIP REPAIR CONTRACTING CORP**, **3075 RICHMOND TER IND PARK**, **STATEN ISLAND, NY 10303** — **RCRA-SQG** / **NY MANIFEST** — **1001124847** / **NYR000031732**

Site 9 of 17 in cluster A

Actual: 11 ft.

RCRAInfo:

Owner:	MOHAMED ADAM MAY SHIP REPAIR (718) 442-9700
EPA ID:	NYR000031732
Contact:	Not reported
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

NY MANIFEST:

Document ID:	NYB4350582
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	JA334
Trans2 State ID:	Not reported
Generator Ship Date:	961115
Trans1 Recv Date:	961115
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	961119
Part A Recv Date:	970122
Part B Recv Date:	961213
Generator EPA ID:	NYR000031732
Trans1 EPA ID:	NJD986607380
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00600
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00050
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96
Facility Type:	Generator
EPA ID:	NYR000031732
Facility Name:	MAY SHIP REPAIR
Facility Address:	3075 RICHMOND TERR BLOCK 1208
Facility City:	STATEN ISLAND

MAY SHIP REPAIR CONTRACTING CORP (Continued) **1001124847**

Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	MAY SHIP REPAIR
Mailing Contact:	M ADAM
Mailing Address:	3075 RICHMOND TR
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-442-9700
Document ID:	NYB5156658
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	JA334
Trans2 State ID:	Not reported
Generator Ship Date:	961115
Trans1 Recv Date:	961115
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	961119
Part A Recv Date:	970122
Part B Recv Date:	961213
Generator EPA ID:	NYR000031732
Trans1 EPA ID:	NJD986607380
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96
Facility Type:	Generator

MAY SHIP REPAIR CONTRACTING CORP (Continued) **1001124847**

EPA ID:	NYR000031732
Facility Name:	MAY SHIP REPAIR
Facility Address:	3075 RICHMOND TERR BLOCK 1208
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	MAY SHIP REPAIR
Mailing Contact:	M ADAM
Mailing Address:	3075 RICHMOND TR
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-442-9700

Document ID:	MIA4562755
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	JA334
Trans2 State ID:	Not reported
Generator Ship Date:	961115
Trans1 Recv Date:	961115
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970108
Part A Recv Date:	970122
Part B Recv Date:	970129
Generator EPA ID:	NYR000031732
Trans1 EPA ID:	NJD986607380
Trans2 EPA ID:	Not reported
TSDF ID:	MID096963194
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00350
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	96
Facility Type:	Generator
EPA ID:	NYR000031732
Facility Name:	MAY SHIP REPAIR
Facility Address:	3075 RICHMOND TERR BLOCK 1208
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	MAY SHIP REPAIR
Mailing Contact:	M ADAM
Mailing Address:	3075 RICHMOND TR
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-442-9700

MAY SHIP REPAIR CONTRACTING CORP (Continued) **1001124847**

Document ID:	SCB1115960
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	JA334
Trans2 State ID:	Not reported
Generator Ship Date:	961115
Trans1 Recv Date:	961115
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	961203
Part A Recv Date:	970122
Part B Recv Date:	970214
Generator EPA ID:	NYR000031732
Trans1 EPA ID:	NJD986607380
Trans2 EPA ID:	Not reported
TSDF ID:	SCD036275626
Waste Code:	F003 - UNKNOWN
Quantity:	05304
Units:	P - Pounds
Number of Containers:	020
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00758
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96
Facility Type:	Generator
EPA ID:	NYR000031732
Facility Name:	MAY SHIP REPAIR
Facility Address:	3075 RICHMOND TERR BLOCK 1208
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	MAY SHIP REPAIR
Mailing Contact:	M ADAM
Mailing Address:	3075 RICHMOND TR
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-442-9700

Document ID:	NYB5156613
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	JA334
Trans2 State ID:	Not reported
Generator Ship Date:	961115
Trans1 Recv Date:	961115
Trans2 Recv Date:	961220
TSD Site Recv Date:	961223
Part A Recv Date:	970122
Part B Recv Date:	970115

MAY SHIP REPAIR CONTRACTING CORP (Continued) **1001124847**

Generator EPA ID:	NYR000031732
Trans1 EPA ID:	NJD986607380
Trans2 EPA ID:	Not reported
TSDF ID:	OHD004178612
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00030
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00155
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	96
Facility Type:	Generator
EPA ID:	NYR000031732
Facility Name:	MAY SHIP REPAIR
Facility Address:	3075 RICHMOND TERR BLOCK 1208
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	MAY SHIP REPAIR
Mailing Contact:	M ADAM
Mailing Address:	3075 RICHMOND TR
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-442-9700
Document ID:	NJA2579503
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	S10376
Trans2 State ID:	Not reported
Generator Ship Date:	970829
Trans1 Recv Date:	970829
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970829
Part A Recv Date:	Not reported
Part B Recv Date:	970919
Generator EPA ID:	NYR000031732
Trans1 EPA ID:	NJD003812047
Trans2 EPA ID:	Not reported

MAY SHIP REPAIR CONTRACTING CORP (Continued) **1001124847**

TSDF ID:	NJD991291105
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00005
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	97
Facility Type:	Generator
EPA ID:	NYR000031732
Facility Name:	MAY SHIP REPAIR
Facility Address:	3075 RICHMOND TERR BLOCK 1208
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	MAY SHIP REPAIR
Mailing Contact:	M ADAM
Mailing Address:	3075 RICHMOND TR
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-442-9700

A10 **MAYSHIP REPAIR-3075 RICHMOND TERR** **FINDS** **1007781064**
Target **3075 RICHMOND TERRACE** **110019435280**
Property **STATEN ISLAND, NY 10303**

Site 10 of 17 in cluster A

Actual:
11 ft.

FINDS:

Other Pertinent Environmental Activity Identified at Site

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A11 Target Property — **LCABH - ABCO GARAGE**, **3075 RICHMOND TERRACE**, **STATEN ISLAND, NY 10303** — **FINDS** — **1007794047**, **110019565521**

Site 11 of 17 in cluster A

Actual: 11 ft.

FINDS:

Other Pertinent Environmental Activity Identified at Site

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

A12 Target Property — **3075 RICHMOND TERRACE**, **3075 RICHMOND TERRACE**, **STATEN ISLAND, NY 10303** — **ERNS** — **93325732**, **N/A**

Site 12 of 17 in cluster A

Actual: 11 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A13 Target Property — **3075 RICHMOND TERR.**, **3075 RICHMOND TERR.**, **STATEN ISLAND, NY** — **NY Spills**, **NY Hist Spills** — **S102147544**, **N/A**

Site 13 of 17 in cluster A

Actual: 11 ft.

NY Spills:

Site ID:	173848
Facility Addr2:	Not reported
Facility ID:	9311988
Spill Number:	9311988
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	SULLIVAN
Referred To:	Not reported
Spill Date:	01/11/94
Reported to Dept:	01/11/94
CID:	13
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Federal Government
Cleanup Ceased:	01/13/94
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	01/13/94
Remediation Phase:	0
Date Entered In Computer:	01/12/94
Spill Record Last Update:	02/04/94
Spiller Name:	Not reported

3075 RICHMOND TERR. (Continued) **S102147544**

Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Spiller Phone:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	9311988
DER Facility ID:	146231
Site ID:	173848
Operable Unit ID:	990614
Operable Unit:	01
Material ID:	390994
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9311988 DRY DOCK SUNK SHEEN AROUND IT. COAST GUARD GUARD SENDING SOMEONE - MITRRY WENT TO SITE - NO SPILLAGE - CLEANED UP NO SPILL. END CallerRemark - 9311988

NY Hist Spills:

Region of Spill:	2
Spill Number:	9311988
Investigator:	SULLIVAN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	01/11/1994 12:00
Reported to Dept Date/Time:	01/11/94 12:09
SWIS:	64
Spiller Name:	Not reported
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Equipment Failure
Reported to Dept:	Surface Water
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	01/13/94
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /

3075 RICHMOND TERR. (Continued) **S102147544**

Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 01/13/94
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 01/12/94
Date Spill Entered In Computer Data File: Not reported
Update Date: 02/04/94
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: DRY DOCK SUNK SHEEN AROUND IT. COAST GUARD GUARD SENDING SOMEONE - MITRRY WENT TO SITE - NO SPILLAGE - CLEANED UP NO SPILL.

A14 Target Property **MARINERS HARBOR 3075 RICHMOND TERRACE** **ERNS** **96515387**
MARINERS HARBOR 3075 RICHMOND TERRACE **N/A**
STATEN ISLAND, NY

Site 14 of 17 in cluster A

Actual: 11 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A15 Target Property **WASTE MANAGEMENT-RICHMOND TERR** **FINDS** **1007751416**
3075 RICHMOND TERRACE **110019138100**
STATEN ISLAND, NY 10303

Site 15 of 17 in cluster A

Actual: 11 ft.

FINDS:
Other Pertinent Environmental Activity Identified at Site

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

A16 **MAYSHIP SHIPYARD** **NY Spills** **S106000887**
Target **3075 RICHMOND TERR** **N/A**
Property **STATEN ISLAND, NY**

Site 16 of 17 in cluster A

Actual:
11 ft.

NY Spills:

Site ID:	101987
Facility Addr2:	Not reported
Facility ID:	0110543
Spill Number:	0110543
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	Needs Reassignment
Referred To:	Not reported
Spill Date:	02/04/02
Reported to Dept:	02/04/02
CID:	13
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Remediation Phase:	1
Date Entered In Computer:	02/04/02
Spill Record Last Update:	12/01/05
Spiller Name:	ADAM MOHAMMAD
Spiller Company:	ADAM MOHAMMAD
Spiller Address:	3075 RICHMOND TERR
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller Company:	001
Spiller Phone:	Not reported
Contact Name:	ADAM MOHAMMAD
Contact Phone:	Not reported
DEC Region:	2
Program Number:	0110543
DER Facility ID:	90343
Site ID:	101987
Operable Unit ID:	849021
Operable Unit:	01
Material ID:	528167
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
DEC Remarks:	Start DECRemark - 0110543 Prior to Sept, 2004 data translation this spill Lead

MAYSHIP SHIPYARD (Continued) **S106000887**

DEC Field was "ROMMEL" 6/24/2002 - Sangesland spoke with a consultant associated with this site who would like to close out the spill number. Apparently most of the problem here is elevated PAH's. Sangesland said a complete audit should be made of the site, including soil borings and water samples (approx 5 ft to water). If these come back reasonably clean, collect off site samples to confirm the background levels, and then the owner can try to make an arguement that the problem is within "background levels" 8/5/2002 - Vance Mathews of Eco Sciences called back again saying he took soil samples which showed elevated PAH's on the site. What more did he need to do? Sangesland asked for soil & water samples from the site and surrounding neighborhood to prove "Background". DEC also requested a "Site history" with Sanborn maps to show the area was swamp with a bulkhead and fill. 12/2/2003 Transferred from Sangesland to Rommel 03/30/04 Spoke to Insurance Broker and added that the investigation must also include a discussion of petroleum storage (past/present) and if there were tanks, the investigation must focus around the tank systems. Rommel END DECRemark - 0110543

Remarks: Start CallerRemark - 0110543 contaminated soil discovered from samples END CallerRemark - 0110543

A17 **3075 RICHMOND TERRACE** **ERNS** **94364429**
Target **3075 RICHMOND TERRACE** **N/A**
Property **STATEN ISLAND, NY**

Site 17 of 17 in cluster A

Actual:
11 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

---

18 **22 MERSEREAU AVE** **NY Spills** **S102446708**
SW **22 MERSEREAU AVE** **NY Hist Spills** **N/A**
< 1/8 **MARINERS HARBOR, NY**
160 ft.

Relative:
Lower

Actual:
8 ft.

NY Spills:

Site ID:	214157
Facility Addr2:	Not reported
Facility ID:	9611088
Spill Number:	9611088
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	O'DOWD
Referred To:	Not reported
Spill Date:	12/08/96
Reported to Dept:	12/09/96
CID:	322
Spill Cause:	Deliberate
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)

22 MERSEREAU AVE (Continued) **S102446708**

Spill Closed Dt:	12/27/96
Remediation Phase:	0
Date Entered In Computer:	12/09/96
Spill Record Last Update:	12/27/96
Spiller Name:	Not reported
Spiller Company:	SCHIOPPO WRECKING
Spiller Address:	MERSEREAU AVE
Spiller City,St,Zip:	MARINERS HARBOR, NY
Spiller Company:	001
Spiller Phone:	Not reported
Contact Name:	MRS HEALD
Contact Phone:	(718) 442-8638
DEC Region:	2
Program Number:	9611088
DER Facility ID:	177428
Site ID:	214157
Operable Unit ID:	1042624
Operable Unit:	01
Material ID:	343296
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Sewer
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9611088 CALLER HAS PETROLIUM SMELL IN HOUSE - BELIEVES IT IS COMING FROM THE GARAGE UP THE STREET - THEY DUMP IN SEWER FROM ENGINES END CallerRemark - 9611088

NY Hist Spills:

Region of Spill:	2
Spill Number:	9611088
Investigator:	O'DOWD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	12/08/1996 19:00
Reported to Dept Date/Time:	12/09/96 09:17
SWIS:	64
Spiller Name:	SCHIOPPO WRECKING
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Contact:	MRS HEALD
Spiller Phone:	(718) 442-8638
Spiller Address:	MERSEREAU AVE
Spiller City,St,Zip:	MARINERS HARBOR, NY
Spill Cause:	Deliberate
Reported to Dept:	In Sewer
Water Affected:	Not reported
Spill Source:	01

22 MERSEREAU AVE (Continued) **S102446708**

Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: 12/27/96
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 12/09/96
Date Spill Entered In Computer Data File: Not reported
Update Date: 12/27/96
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 12/13/96 MULQUEEN CHECKED OUT NEIGHBORHOOD. GAVE WARNINGS TO SCHIOPPO CORP AND ADJACENT INDUSTRIAL PROPERTIES FOR DISCHARGING PETROLEUM ONTO LAND SURFACE.
Remark: CALLER HAS PETROLIUM SMELL IN HOUSE - BELIEVES IT IS COMING FROM THE GARAGE UP THE STREET - THEY DUMP IN SEWER FROM ENGINES

---

19 **77 POST LANE** **NY Spills** **S104496044**
NW **77 POST LANE** **NY Hist Spills** **N/A**
< 1/8 **STATEN ISLAND, NY**
201 ft.

Relative:
Lower

Actual:
10 ft.

NY Spills:
Site ID: 224501
Facility Addr2: Not reported
Facility ID: 9501633
Spill Number: 9501633
Facility Type: ER
SWIS: 4301
Region of Spill: 2
Investigator: TOMASELLO
Referred To: Not reported
Spill Date: 05/09/95
Reported to Dept: 05/09/95

77 POST LANE (Continued) **S104496044**

CID:	13
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	02/11/03
Remediation Phase:	0
Date Entered In Computer:	05/19/95
Spill Record Last Update:	02/11/03
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	STATEN ISLAND, NY 10303
Spiller Company:	001
Spiller Phone:	(718) 816-0048
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	9501633
DER Facility ID:	185549
Site ID:	224501
Operable Unit ID:	1016035
Operable Unit:	01
Material ID:	366704
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3.00
Units:	Gallons
Recovered:	3.00
Resource Affected:	Soil
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9501633 1ST & 2ND FLOOR UNITS. 1ST FLOOR UNIT. OIL PUMP GASKET LEAKED ON FLOOR - 2 GAL CLEANED UP - 2ND FLOOR UNIT, LEAK IN OIL TANK ON FLOOR 1 GAL CLEANED UP. END CallerRemark - 9501633

NY Hist Spills:

Region of Spill:	2
Spill Number:	9501633
Investigator:	TOMASELLO
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	05/09/1995 10:30
Reported to Dept Date/Time:	05/09/95 11:38

77 POST LANE (Continued) **S104496044**

SWIS:	64
Spiller Name:	SAME
Spiller Contact:	Not reported
Spiller Phone:	(718) 816-0048
Spiller Address:	Not reported
Spiller City,St,Zip:	STATEN ISLAND, NY 10303
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	09
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	05/19/95
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	3
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	3
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	Not reported
Remark:	1ST 2ND FLOOR UNITS. 1ST FLOOR UNIT. OIL PUMP GASKET LEAKED ON FLOOR - 2 GAL CLEANED UP - 2ND FLOOR UNIT, LEAK IN OIL TANK ON FLOOR 1 GAL CLEANED UP.

B20 **20 ANDROS AVENUE** **NY Spills** **S102147763**
SSE **20 ANDROS AVENUE** **NY Hist Spills** **N/A**
< 1/8 **STATEN ISLAND, NY**
333 ft.

Site 1 of 2 in cluster B

Relative:
Higher

Actual:
12 ft.

NY Spills:

Site ID:	69614
Facility Addr2:	Not reported
Facility ID:	9313516
Spill Number:	9313516
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	SMMARTIN
Referred To:	Not reported
Spill Date:	02/17/94
Reported to Dept:	02/17/94
CID:	13
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	02/17/94
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	02/17/94
Remediation Phase:	0
Date Entered In Computer:	02/22/94
Spill Record Last Update:	09/30/04
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Spiller Phone:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	9313516
DER Facility ID:	66175
Site ID:	69614
Operable Unit ID:	995554
Operable Unit:	01
Material ID:	388891
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-2.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
DEC Remarks:	Start DECRemark - 9313516 Prior to Sept, 2004 data translation this spill Lead

20 ANDROS AVENUE (Continued) **S102147763**

DEC Field was "MARTINKAT" END DECRemark - 9313516
Remarks: Start CallerRemark - 9313516 STEAL PIPE OIL LINE - USED SPEEDY DRY - SITCO IS REPLACING PIPE. END CallerRemark - 9313516

NY Hist Spills:

Region of Spill:	2
Spill Number:	9313516
Investigator:	MARTINKAT
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	02/17/1994 11:30
Reported to Dept Date/Time:	02/17/94 12:13
SWIS:	64
Spiller Name:	Not reported
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	09
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	02/17/94
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	02/17/94
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	02/22/94
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	-2
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False

20 ANDROS AVENUE (Continued) **S102147763**

Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Remark: STEAL PIPE OIL LINE - USED SPEEDY DRY - SITCO IS REPLACING PIPE.

21
West
< 1/8
361 ft.

22 GRANDVIEW AVE. **NY LTANKS** **S102671972**
22 GRAND VIEW AVE. **NY HIST LTANKS** **N/A**
STATEN ISLAND, NY

Relative:
Higher

Actual:
16 ft.

LTANKS:
Site ID: 119980
Spill Date: 10/29/92
Facility Addr2: Not reported
Facility ID: 9208767
Program Number: 9208767
SWIS: 4301
Region of Spill: 2
Investigator: WILSON
Referred To: Not reported
Reported to Dept: 10/29/92
CID: 13
Spill Cause: Tank Overfill
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Other
Cleanup Ceased: 10/29/92
Cleanup Meets Standard: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/29/92
Remediation Phase: 0
Date Entered In Computer: 10/30/92
Spill Record Last Update: 09/30/04
Spille Namer: Not reported
Spiller Company: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: ***Update***, ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
Program Number: 9208767
DER Facility ID: 104201
Site ID: 119980
Operable Unit ID: 972293
Operable Unit: 01
Material ID: 405847
Material Code: 0001

22 GRANDVIEW AVE. (Continued) **S102671972**

Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Start DECRemark - 9208767 Prior to Sept, 2004 data translation this spill Lead DEC Field was "R. WILSON" END DECRemark - 9208767
Remarks:	Start CallerRemark - 9208767 CUST. OVER-ORDERED FUEL QUANTITY-DRAIN PLUG NIPPLE LEAK(MINOR)TO CONCRETE BASEMENT FLOOR-REPAIRED,SPEEDI-DRI,P/U & DISPOSED.OIL OUT FILL-PIPE TO CONCRETE AREA-SPEEDI-DRI APPLIED,P/U & DIPOSED END CallerRemark - 9208767

HIST LTANKS:

Region of Spill:	2
Spill Number:	9208767
Investigator:	R. WILSON
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	10/29/1992
Spill Time:	13:15
Reported to Department Date:	10/29/92
Reported to Department Time:	15:05
SWIS:	64
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
PBS Number:	Not reported

22 GRANDVIEW AVE. (Continued) **S102671972**

Cleanup Ceased: 10/29/92
Cleanup Meets Standard: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/29/92
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 10/30/92
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 2
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: CUST. OVER-ORDERED FUEL QUANTITY-DRAIN PLUG NIPPLE LEAK MINOR)TO CONCRETE BASEMENT FLOOR-REPAIRED,SPEEDI-DRI,P/U DISPOSED.OIL OUT FILL-PIPE TO CONCRETE AREA-SPEEDI-DRI APPLIED,P/U DIPOSED

B22 **23 ANDROS AVE.** **NY LTANKS** **S102672381**
SSE **23 ANDROS AVE.** **NY HIST LTANKS** **N/A**
< 1/8 **STATEN ISLAND, NY**
380 ft.

Site 2 of 2 in cluster B

Relative:
Higher

Actual:
13 ft.

LTANKS:
Site ID: 234417
Spill Date: 02/04/94
Facility Addr2: Not reported
Facility ID: 9313072
Program Number: 9313072
SWIS: 4301
Region of Spill: 2
Investigator: KSTANG
Referred To: Not reported
Reported to Dept: 02/04/94
CID: 13
Spill Cause: Tank Overfill

23 ANDROS AVE. (Continued) **S102672381**

Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	02/04/94
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	02/04/94
Remediation Phase:	0
Date Entered In Computer:	02/07/94
Spill Record Last Update:	09/30/04
Spille Namer:	Not reported
Spiller Company:	SIPCO
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9313072
DER Facility ID:	193117
Site ID:	234417
Operable Unit ID:	991540
Operable Unit:	01
Material ID:	388465
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-4.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Start DECRemark - 9313072 Prior to Sept, 2004 data translation this spill Lead DEC Field was "TANG" END DECRemark - 9313072
Remarks:	Start CallerRemark - 9313072 CONTAINED ON PAVEMENT & POSSIBLE SOIL - SORBENT APPLIED & PICKING UP. END CallerRemark - 9313072

HIST LTANKS:

Region of Spill:	2

23 ANDROS AVE. (Continued) **S102672381**

Spill Number:	9313072
Investigator:	TANG
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	02/04/1994
Spill Time:	10:30
Reported to Department Date:	02/04/94
Reported to Department Time:	11:47
SWIS:	64
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	SIPCO
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	02/04/94
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	02/04/94
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	02/07/94
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	/ /
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	-4
Unkonwn Quantity Spilled:	False
Units:	Gallons

23 ANDROS AVE. (Continued) **S102672381**

Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: CONTAINED ON PAVEMENT POSSIBLE SOIL - SORBENT APPLIED PICKING UP.

C23
NNE
< 1/8
426 ft.

Relative:
Lower

Actual:
1 ft.

MANERS HARBOR **NY Spills** **S104788562**
3249 RICHMOND TR **NY Hist Spills** **N/A**
STATEN ISLAND, NY

Site 1 of 5 in cluster C

NY Spills:
Site ID: 203016
Facility Addr2: Not reported
Facility ID: 0005973
Spill Number: 0005973
Facility Type: ER
SWIS: 4301
Region of Spill: 2
Investigator: SIGONA
Referred To: Not reported
Spill Date: 08/18/00
Reported to Dept: 08/18/00
CID: 13
Spill Cause: Equipment Failure
Water Affected: MANERS HARBOR
Spill Source: Vessel
Spill Notifier: Responsible Party
Cleanup Ceased: / /
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 09/14/00
Remediation Phase: 0
Date Entered In Computer: 08/18/00
Spill Record Last Update: 05/04/04
Spiller Name: Not reported
Spiller Company: CLEAN WATER
Spiller Address: 3249 RICHMOND TR
Spiller City,St,Zip: STATEN ISLAND, NY
Spiller Company: 001
Spiller Phone: Not reported
Contact Name: BOB SALERNO
Contact Phone: (718) 981-4600 12
DEC Region: 2
Program Number: 0005973
DER Facility ID: 168856
Site ID: 203016
Operable Unit ID: 826870
Operable Unit: 01

MANERS HARBOR (Continued) **S104788562**

Material ID: 547106
Material Code: 0001
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 50.00
Units: Gallons
Recovered: 0.00
Resource Affected: Surface Water
Oxygenate: False
DEC Remarks: Not reported
Remarks: Start CallerRemark - 0005973 PORTABLE PUMP HOSE CAME DETATCHED FROM THE PORTABLE PUMP - CLEAN UP IN PROGRESS W/ ABSORBANT PADS & SAUSAGE BOOMS END CallerRemark - 0005973

NY Hist Spills:
Region of Spill: 2
Spill Number: 0005973
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 08/18/2000 13:00
Reported to Dept Date/Time: 08/18/00 13:54
SWIS: 64
Spiller Name: CLEAN WATER
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Contact: BOB SALERNO
Spiller Phone: (718) 981-4600 12
Spiller Address: 3249 RICHMOND TR
Spiller City,St,Zip: STATEN ISLAND, NY
Spill Cause: Equipment Failure
Reported to Dept: Surface Water
Water Affected: MANERS HARBOR
Spill Source: 10
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 09/14/00
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 08/18/00
Date Spill Entered In Computer Data File: Not reported
Update Date: 09/14/00

MANERS HARBOR (Continued) **S104788562**

Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	50
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	True
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	On August 18th, DEC Sigona responded to 50 gallon spill from the Maneers Harbor vessel. The spill occurred during a transfer of product during a routine barge cleaning project. Clean Waters crew cleaned up the deck and waters with aborbants. DECSigona obtained copies of documents issued by USCG confirming they responded.
Remark:	PORTABLE PUMP HOSE CAME DETATCHED FROM THE PORTABLE PUMP - CLEAN UP IN PROGRESS W/ ABSORBANT PADS SAUSAGE BOOMS

C24 **MARINERS HARBOR** **NY Spills** **S102148559**
NNE **MARINERS HARBOR** **NY Hist Spills** **N/A**
< 1/8 **STATEN ISLAND, NY**
426 ft.

Site 2 of 5 in cluster C

Relative:
Lower

Actual:
1 ft.

NY Spills:

Site ID:	181819
Facility Addr2:	Not reported
Facility ID:	9405896
Spill Number:	9405896
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	CAENGELH
Referred To:	Not reported
Spill Date:	07/31/94
Reported to Dept:	07/31/94
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Federal Government
Cleanup Ceased:	07/31/94
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	07/31/94
Remediation Phase:	0
Date Entered In Computer:	10/18/94

MARINERS HARBOR (Continued) **S102148559**

Spill Record Last Update:	09/30/04
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Spiller Phone:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	9405896
DER Facility ID:	152452
Site ID:	181819
Operable Unit ID:	1003269
Operable Unit:	01
Material ID:	382468
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Start DECRemark - 9405896 Prior to Sept, 2004 data translation this spill Lead DEC Field was "ENGLEHARDT" 10/10/95: This is additional information about material spilled from the translation of the old spill file: UNK-500' DHEEN. END DECRemark - 9405896
Remarks:	Start CallerRemark - 9405896 TUGBOAT REPORTED SHEEN ON RIVER. NO ACTION TAKEN-U.S.C.G. TEAM TO INVESTIGATE-FOUND NOTHING. END CallerRemark - 9405896

Site ID:	181820
Facility Addr2:	Not reported
Facility ID:	9500286
Spill Number:	9500286
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	O'DOWD
Referred To:	Not reported
Spill Date:	04/07/95
Reported to Dept:	04/07/95
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	04/07/95
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	04/07/95
Remediation Phase:	0

MARINERS HARBOR (Continued) **S102148559**

Date Entered In Computer:	05/08/95
Spill Record Last Update:	09/30/04
Spiller Name:	Not reported
Spiller Company:	EKLOF MARINE
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Spiller Phone:	(718) 720-7207
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	9500286
DER Facility ID:	152452
Site ID:	181820
Operable Unit ID:	1014388
Operable Unit:	01
Material ID:	368891
Material Code:	0012
Material Name:	Kerosene
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9500286 PRESSURE TESTING HOSE WITH WATER / HOSE FALED, RELEASED INTO WATER. CONTAINED. END CallerRemark - 9500286

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number:	9405896
Investigator:	ENGLEHARDT
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	07/31/1994 18:30
Reported to Dept Date/Time:	07/31/94 18:42
SWIS:	64
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	Surface Water
Water Affected:	Not reported
Spill Source:	12
Spill Notifier:	Federal Government
PBS Number:	Not reported

MARINERS HARBOR (Continued) **S102148559**

Cleanup Ceased:	07/31/94
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	07/31/94
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	10/18/94
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	True
Material:	DIESEL
Class Type:	DIESEL
Times Material Entry In File:	10625
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	10/10/95: This is additional information about material spilled from the translation of the old spill file: UNK-500 DHEEN.
Remark:	TUGBOAT REPORTED SHEEN ON RIVER. NO ACTION TAKEN-U.S.C.G. TEAM TO INVESTIGATE-FOUND NOTHING.

Region of Spill:	2
Spill Number:	9500286
Investigator:	O'DOWD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	04/07/1995 11:45
Reported to Dept Date/Time:	04/07/95 12:22
SWIS:	64
Spiller Name:	EKLOF MARINE
Spiller Contact:	Not reported
Spiller Phone:	(718) 720-7207
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Equipment Failure
Reported to Dept:	Surface Water

MARINERS HARBOR (Continued) **S102148559**

Water Affected: KILL VAN KULL
Spill Source: 10
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: 04/07/95
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 04/07/95
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 05/08/95
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 1
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: KEROSENE
Class Type: KEROSENE
Times Material Entry In File: 2052
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: PRESSURE TESTING HOSE WITH WATER / HOSE FALED, RELEASED INTO WATER. CONTAINED.

C25
NNE
< 1/8
426 ft.

Relative:
Lower

Actual:
1 ft.

MARINERS HARBORS **NY Spills** **S102147744**
MARINERS HARBORS **NY Hist Spills** **N/A**
STATEN ISLAND, NY

Site 3 of 5 in cluster C

NY Spills:
Site ID: 147527
Facility Addr2: Not reported
Facility ID: 9313364
Spill Number: 9313364
Facility Type: ER
SWIS: 4301
Region of Spill: 2
Investigator: TOMASELLO
Referred To: Not reported
Spill Date: 02/12/94

MARINERS HARBORS (Continued) **S102147744**

Reported to Dept:	02/12/94
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	02/03/94
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	02/03/94
Remediation Phase:	0
Date Entered In Computer:	03/22/94
Spill Record Last Update:	09/30/04
Spiller Name:	Not reported
Spiller Company:	TUG "GEARO PURE COMO"
Spiller Address:	30-75 RICHMOND TERR.
Spiller City,St,Zip:	STATEN ISLAND, ZZ
Spiller Company:	001
Spiller Phone:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	9313364
DER Facility ID:	125591
Site ID:	147527
Operable Unit ID:	991828
Operable Unit:	01
Material ID:	388748
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9313364 TUG TAKING OUT FUEL & SOME CAME OUT OF VENT USCG ON SCENE - NY MARINE P.D. NOTIFIED PADS PLACED ON DECK / BOOMS AROUND GAUGE - WANT A CALL BACK. END CallerRemark - 9313364

NY Hist Spills:

Region of Spill:	2
Spill Number:	9313364
Investigator:	TOMASELLO
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	02/12/1994 16:00

MARINERS HARBORS (Continued) **S102147744**

Reported to Dept Date/Time:	02/12/94 16:54
SWIS:	64
Spiller Name:	TUG "GEARO PURE COMO"
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	30-75 RICHMOND TERR.
Spiller City,St,Zip:	STATEN ISLAND
Spill Cause:	Unknown
Reported to Dept:	Surface Water
Water Affected:	Not reported
Spill Source:	10
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	02/03/94
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	02/03/94
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	03/22/94
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	10
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	Not reported
Remark:	TUG TAKING OUT FUEL SOME CAME OUT OF VENT USCG ON SCENE - NY MARINE P.D. NOTIFIED PADS PLACED ON DECK / BOOMS AROUND GAUGE - WANT A CALL BACK.

C26 NNE < 1/8 426 ft. | **SHOOTERS ISLAND MARRINERS HARBOR STATEN ISLAND, NY** | **NY Spills** / **NY Hist Spills** | **S103274648** / **N/A**

Site 4 of 5 in cluster C

Relative: Lower

Actual: 1 ft.

NY Spills:

Site ID:	68082
Facility Addr2:	Not reported
Facility ID:	9802382
Spill Number:	9802382
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	KGHALE
Referred To:	Not reported
Spill Date:	05/23/98
Reported to Dept:	05/23/98
CID:	211
Spill Cause:	Equipment Failure
Water Affected:	SHOOTERS ISLAND REAC
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	03/18/03
Remediation Phase:	0
Date Entered In Computer:	05/23/98
Spill Record Last Update:	03/18/03
Spiller Name:	Not reported
Spiller Company:	TURECAMO
Spiller Address:	3 STANFORD LANDING
Spiller City,St,Zip:	STAMFORD, CT 06902-7263
Spiller Company:	001
Spiller Phone:	Not reported
Contact Name:	DOUGLAS BLASIUS
Contact Phone:	(718) 753-2207
DEC Region:	2
Program Number:	9802382
DER Facility ID:	64965
Site ID:	68082
Operable Unit ID:	1062921
Operable Unit:	01
Material ID:	320713
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Start DECRemark - 9802382 Prior to Sept, 2004 data translation this spill Lead

SHOOTERS ISLAND (Continued) **S103274648**

DEC Field was "HALE" 3-18-03: Austin (Ad) - Closed Due To The Nature / Extent Of The Spill Report. END DECRemark - 9802382

Remarks: Start CallerRemark - 9802382 WHILE TRANSFERRING FUEL BLOW BACK THROUGH VENT CAUSED LESS THAN A GALLON TO SPILL ON DECK / SOME PRODUCT DID ENTER WATER - ABSORBANT PADS WERE TO DECK END CallerRemark - 9802382

NY Hist Spills:

Region of Spill:	2
Spill Number:	9802382
Investigator:	HALE
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	05/23/1998 12:10
Reported to Dept Date/Time:	05/23/98 12:26
SWIS:	64
Spiller Name:	TURECAMO
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Contact:	DOUGLAS BLASIUS
Spiller Phone:	(718) 753-2207
Spiller Address:	3 STANFORD LANDING
Spiller City,St,Zip:	STAMFORD, CT 06902-7263
Spill Cause:	Equipment Failure
Reported to Dept:	Surface Water
Water Affected:	SHOOTERS ISLAND REAC
Spill Source:	10
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	05/23/98
Date Spill Entered In Computer Data File:	Not reported
Update Date:	05/26/98
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	1

SHOOTERS ISLAND (Continued) **S103274648**

Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Remark: WHILE TRANSFERRING FUEL BLOW BACK THROUGH VENT CAUSED LESS THAN A GALLON TO SPILL ON DECK / SOME PRODUCT DID ENTER WATER - ABSORBANT PADS WERE TO DECK

C27
NNE
< 1/8
426 ft.

Relative:
Lower

Actual:
1 ft.

MARRINERS HARBOR **NY Spills** **S103036130**
RICHMOND TERRACE RD **NY Hist Spills** **N/A**
STATEN ISLAND, NY

Site 5 of 5 in cluster C

NY Spills:
Site ID: 314206
Facility Addr2: Not reported
Facility ID: 9712972
Spill Number: 9712972
Facility Type: ER
SWIS: 4301
Region of Spill: 2
Investigator: SMMARTIN
Referred To: Not reported
Spill Date: 02/20/98
Reported to Dept: 02/20/98
CID: 370
Spill Cause: Unknown
Water Affected: MARRINERS HARBOR
Spill Source: Unknown
Spill Notifier: Federal Government
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 02/20/98
Remediation Phase: 0
Date Entered In Computer: 02/20/98
Spill Record Last Update: 07/08/05
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Spiller Phone: Not reported
Contact Name: ABOVE CALLER
Contact Phone: Not reported
DEC Region: 2
Program Number: 9712972
DER Facility ID: 253348

MARRINERS HARBOR (Continued) **S103036130**

Site ID: 314206
Operable Unit ID: 1055845
Operable Unit: 01
Material ID: 327551
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 0.00
Units: Gallons
Recovered: 0.00
Resource Affected: Surface Water
Oxygenate: False
DEC Remarks: Start DECRemark - 9712972 Prior to Sept, 2004 data translation this spill Lead DEC Field was "MARTINKAT" 230-TEAM DIDIN'T CALL IN YET>420PM NO SHEEN OBSERVED-CURRENT WAS COOKING. END DECRemark - 9712972
Remarks: Start CallerRemark - 9712972 300 RFT X 100 FT SHEEN ON WATER - USCG ON WAY NOW END CallerRemark - 9712972

NY Hist Spills:
Region of Spill: 2
Spill Number: 9712972
Investigator: MARTINKAT
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 02/20/1998 12:00
Reported to Dept Date/Time: 02/20/98 13:29
SWIS: 64
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Contact: ABOVE CALLER
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: MARRINERS HARBOR
Spill Source: 12
Spill Notifier: Federal Government
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 02/20/98
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /

MARRINERS HARBOR (Continued) **S103036130**

Date Spill Entered In Computer Data File: 02/20/98
Date Spill Entered In Computer Data File: Not reported
Update Date: 02/23/98
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 230-TEAM DIDIN T CALL IN YET>420PM NO SHEEN OBSERVED-CURRENT WAS COOKING.
Remark: 300 RFT X 100 FT SHEEN ON WATER - USCG ON WAY NOW

D28 **US COAST GUARD - BARGE NATHAN B** **RCRA-SQG** **1000872552**
NW **3165 RICHMOND TER** **FINDS** **NYD987037660**
< 1/8 **STATEN ISLAND, NY 10303** **NY MANIFEST**
431 ft.

Site 1 of 7 in cluster D

Relative:
Lower

Actual:
10 ft.

RCRAInfo:
Owner: MARINE MOVEMENTS
(718) 447-2800
EPA ID: NYD987037660

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
Document ID: NYB4350141
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 439T862UW

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Trans2 State ID:	Not reported
Generator Ship Date:	930823
Trans1 Recv Date:	930823
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930824
Part A Recv Date:	931019
Part B Recv Date:	930901
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	08201
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632012
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	T294ENNJ
Trans2 State ID:	Not reported
Generator Ship Date:	930825
Trans1 Recv Date:	930825
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930826
Part A Recv Date:	931019
Part B Recv Date:	930923
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	15241
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632102
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	T850GJNJ
Trans2 State ID:	Not reported
Generator Ship Date:	930825
Trans1 Recv Date:	930825
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930826
Part A Recv Date:	931019
Part B Recv Date:	930923
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	12102
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632966
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	431T294EN
Trans2 State ID:	Not reported
Generator Ship Date:	930823
Trans1 Recv Date:	930823
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930824
Part A Recv Date:	931019
Part B Recv Date:	930901
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	12837
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632246
Manifest Status:	Completed copy
Trans1 State ID:	DT501T655
Trans2 State ID:	Not reported
Generator Ship Date:	930908
Trans1 Recv Date:	930908
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930909
Part A Recv Date:	931025
Part B Recv Date:	930929
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	19614
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632291
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE103
Trans2 State ID:	Not reported
Generator Ship Date:	930915
Trans1 Recv Date:	930915
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930916
Part A Recv Date:	931028
Part B Recv Date:	931001
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	12728
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4350285
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	409T244NK
Trans2 State ID:	Not reported
Generator Ship Date:	930816
Trans1 Recv Date:	930816
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930817
Part A Recv Date:	Not reported
Part B Recv Date:	930927
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	11630
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4350312
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	555T581DG
Trans2 State ID:	Not reported
Generator Ship Date:	930901
Trans1 Recv Date:	930901
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930902

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Part A Recv Date:	931019
Part B Recv Date:	930928
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	11930
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4350816
Manifest Status:	Completed copy
Trans1 State ID:	T294ENNJ
Trans2 State ID:	Not reported
Generator Ship Date:	931013
Trans1 Recv Date:	931013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	931014
Part A Recv Date:	931109
Part B Recv Date:	931025
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	04518
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4350384
Manifest Status:	Completed copy
Trans1 State ID:	555T581DG
Trans2 State ID:	Not reported
Generator Ship Date:	930920
Trans1 Recv Date:	930920
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930921
Part A Recv Date:	931019
Part B Recv Date:	930930
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	10142
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632975
Manifest Status:	Completed copy

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Trans1 State ID:	T581DGNJ
Trans2 State ID:	Not reported
Generator Ship Date:	930915
Trans1 Recv Date:	930915
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930916
Part A Recv Date:	Not reported
Part B Recv Date:	931001
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	13644
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4350393
Manifest Status:	Completed copy
Trans1 State ID:	589T793PX
Trans2 State ID:	Not reported
Generator Ship Date:	930920
Trans1 Recv Date:	930920
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930921
Part A Recv Date:	931019
Part B Recv Date:	930930
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	09272
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632498
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	T475T850G
Trans2 State ID:	Not reported
Generator Ship Date:	930830
Trans1 Recv Date:	930830
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930831
Part A Recv Date:	931019
Part B Recv Date:	930929
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	11195
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632264
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	265T2CNJN
Trans2 State ID:	Not reported
Generator Ship Date:	930903
Trans1 Recv Date:	930903
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930908
Part A Recv Date:	931025
Part B Recv Date:	931006
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	UTD981552177
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	04960
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4350204
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	589T581DJ
Trans2 State ID:	Not reported
Generator Ship Date:	930811
Trans1 Recv Date:	930811
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930812
Part A Recv Date:	Not reported
Part B Recv Date:	930927
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	13544
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632039
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	246TSBNJ
Trans2 State ID:	Not reported
Generator Ship Date:	930903
Trans1 Recv Date:	930903
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930908
Part A Recv Date:	931025
Part B Recv Date:	931006
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	UTD981552177
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	04925
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB6331455
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	T850GJ
Trans2 State ID:	Not reported
Generator Ship Date:	930802
Trans1 Recv Date:	930802
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930803
Part A Recv Date:	930813
Part B Recv Date:	930927
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	09780
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632021
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	507T581DG
Trans2 State ID:	Not reported
Generator Ship Date:	930825
Trans1 Recv Date:	930825
Trans2 Recv Date:	Not reported

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

TSD Site Recv Date:	930826
Part A Recv Date:	931019
Part B Recv Date:	930923
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	11839
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920
Document ID:	NYB4632471
Manifest Status:	Completed copy
Trans1 State ID:	443T793PX
Trans2 State ID:	Not reported
Generator Ship Date:	930929
Trans1 Recv Date:	930929
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930930
Part A Recv Date:	Not reported
Part B Recv Date:	931007
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	11512
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

Document ID:	NYB4632111
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	589T793PX
Trans2 State ID:	Not reported
Generator Ship Date:	930901
Trans1 Recv Date:	930901
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930902
Part A Recv Date:	931019
Part B Recv Date:	930929
Generator EPA ID:	NYD987037660
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	11340
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD987037660
Facility Name:	UNITED STATES COAST GUARD
Facility Address:	BARGE NATHAN B 3165 RICHMOND T
Facility City:	ERRACESTATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	UNITED STATES COAST GUARD
Mailing Contact:	JOHN C WOLF
Mailing Address:	COTP BLDG109
Mailing City:	GOVERNORS ISLAND
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	212-668-7920

US COAST GUARD - BARGE NATHAN B (Continued) **1000872552**

Click this hyperlink while viewing on your computer to access
76 additional NY_MANIFEST: record(s) in the EDR Site Report.

D29 **NY Spills** **S104650915**
NW **3165 RICHMOND TERR** **NY Hist Spills** **N/A**
< 1/8 **STATIN ISLAND, NY**
431 ft.

Site 2 of 7 in cluster D

Relative:
Lower

Actual:
10 ft.

NY Spills:

Site ID:	280988
Facility Addr2:	Not reported
Facility ID:	0003206
Spill Number:	0003206
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	SACCACIO
Referred To:	Not reported
Spill Date:	06/14/00
Reported to Dept:	06/14/00
CID:	396
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	03/21/03
Remediation Phase:	0
Date Entered In Computer:	06/14/00
Spill Record Last Update:	03/21/03
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Spiller Phone:	Not reported
Contact Name:	TONY RONDINONE
Contact Phone:	Not reported
DEC Region:	2
Program Number:	0003206
DER Facility ID:	277790
Site ID:	280988
Operable Unit ID:	825408
Operable Unit:	01
Material ID:	551532
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0.00

(Continued) **S104650915**

Units: Gallons
Recovered: 0.00
Resource Affected: Groundwater
Oxygenate: False
DEC Remarks: Not reported
Remarks: Start CallerRemark - 0003206 caller is doing an investigation for a possible buyer of the property...there is no active petrolium storage on site and they are unaware of any undderground tanks. END CallerRemark - 0003206

NY Hist Spills:
Region of Spill: 2
Spill Number: 0003206
Investigator: SACCACIO
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 06/14/2000 13:00
Reported to Dept Date/Time: 06/14/00 15:13
SWIS: 64
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: ( ) -
Spiller Contact: TONY RONDINONE
Spiller Address: Not reported
Spiller City,St,Zip: -
Spill Cause: Unknown
Reported to Dept: Groundwater
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 06/14/00
Date Spill Entered In Computer Data File: Not reported
Update Date: 06/14/00
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

(Continued) **S104650915**

Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: WASTE OIL
Class Type: WASTE OIL
Times Material Entry In File: 9509
CAS Number: Not reported
Last Date: 19940927
DEC Remarks: Not reported
Remark: caller is doing an investigation for a possible buyer of the property...there is no active petrolium storage on site and they are unaware of any undderground tanks.

D30 **3I/NEW YORK MARINE** **NY UST** **U004045499**
NW **3165 RICHMOND TERRACE** **N/A**
< 1/8 **NEW YORK CITY, NY 10303**
431 ft.

Site 3 of 7 in cluster D

Relative: Lower

Actual: 10 ft.

UST:
Facility ID: 2-602895
Program Type: PBS
Facility Addr2: Not reported
Locality: STATEN ISLAND
SWIS Code: 4301
DEC Region: 2
Registered: 1
Expiration Date: 12/30/2001
Site Status: Administratively Closed
Site Type: Other
Above Ground Tanks: No
Under Ground Tanks: No

D31 **3165 RICHMOND TERRACE** **NY Spills** **S102142538**
NW **3165 RICHMOND TERRACE** **NY Hist Spills** **N/A**
< 1/8 **S I, NY**
431 ft.

Site 4 of 7 in cluster D

Relative: Lower

Actual: 10 ft.

NY Spills:
Site ID: 218344
Facility Addr2: Not reported
Facility ID: 9110919
Spill Number: 9110919
Facility Type: ER
SWIS: 4301
Region of Spill: 2
Investigator: GELLER
Referred To: Not reported
Spill Date: 01/22/92
Reported to Dept: 01/22/92
CID: Not reported
Spill Cause: Unknown

3165 RICHMOND TERRACE (Continued) **S102142538**

Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Federal Government
Cleanup Ceased:	01/23/92
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	01/23/92
Remediation Phase:	0
Date Entered In Computer:	02/06/92
Spill Record Last Update:	09/30/04
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Spiller Phone:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	9110919
DER Facility ID:	277198
Site ID:	218344
Operable Unit ID:	964728
Operable Unit:	01
Material ID:	415991
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	0.00
Resource Affected:	Air
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9110919 STRONG DIESEL-LIKE; REFERRED TO LAW ENFORCEMENT. END CallerRemark - 9110919

NY Hist Spills:

Region of Spill:	2
Spill Number:	9110919
Investigator:	GELLER
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	01/22/1992 11:43
Reported to Dept Date/Time:	01/22/92 11:50
SWIS:	64
Spiller Name:	Not reported
Spiller Contact:	Not reported
Spiller Phone:	Not reported

3165 RICHMOND TERRACE (Continued) **S102142538**

Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	Air
Water Affected:	Not reported
Spill Source:	12
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	01/23/92
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	01/23/92
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	02/06/92
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	DIESEL
Class Type:	DIESEL
Times Material Entry In File:	10625
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	10/10/95: This is additional information about material spilled from the translation of the old spill file: ODOR.
Remark:	STRONG DIESEL-LIKE; REFERRED TO LAW ENFORCEMENT.

D32 **POLING TRANSPORTATION CORP** **RCRA-SQG** **1000552576**
NW **3165 RICHMOND TER** **FINDS** **NYD986949758**
< 1/8 **STATEN ISLAND, NY 10303** **NY MANIFEST**
431 ft.

Site 5 of 7 in cluster D

Relative:
Lower

Actual:
10 ft.

POLING TRANSPORTATION CORP (Continued) **1000552576**

RCRAInfo:

Owner:	POLING TRANSPORATION CORP (718) 727-1000
EPA ID:	NYD986949758
Contact:	Not reported
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

Document ID:	NJA1770847
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS103
Trans2 State ID:	Not reported
Generator Ship Date:	930929
Trans1 Recv Date:	930929
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930929
Part A Recv Date:	931108
Part B Recv Date:	931026
Generator EPA ID:	NYD986949758
Trans1 EPA ID:	NJD000813477
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02000
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93
Facility Type:	Generator
EPA ID:	NYD986949758
Facility Name:	POLING TRANSPORTATION
Facility Address:	3165 RICHMOND TERRACE
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	POLING TRANSPORTATION
Mailing Contact:	WARREN E DAVIS

POLING TRANSPORTATION CORP (Continued) **1000552576**

Mailing Address:	3165 RICHMOND TERRACE
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-727-1000

Document ID:	NJA1904221
Manifest Status:	Completed copy
Trans1 State ID:	6623JA117
Trans2 State ID:	Not reported
Generator Ship Date:	940512
Trans1 Recv Date:	940512
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940512
Part A Recv Date:	940601
Part B Recv Date:	940602
Generator EPA ID:	NYD986949758
Trans1 EPA ID:	NJD038480349
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	05000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94
Facility Type:	Generator
EPA ID:	NYD986949758
Facility Name:	POLING TRANSPORTATION
Facility Address:	3165 RICHMOND TERRACE
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	POLING TRANSPORTATION
Mailing Contact:	WARREN E DAVIS
Mailing Address:	3165 RICHMOND TERRACE
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-727-1000

Document ID:	PAC5771150
Manifest Status:	Completed copy
Trans1 State ID:	PAAH0317
Trans2 State ID:	Not reported
Generator Ship Date:	920615
Trans1 Recv Date:	920615
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920618
Part A Recv Date:	Not reported

POLING TRANSPORTATION CORP (Continued) **1000552576**

Part B Recv Date:	920708
Generator EPA ID:	NYD986949758
Trans1 EPA ID:	PAD982661381
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00165
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	16000
Units:	P - Pounds
Number of Containers:	032
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	92
Facility Type:	Generator
EPA ID:	NYD986949758
Facility Name:	POLING TRANSPORTATION
Facility Address:	3165 RICHMOND TERRACE
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	POLING TRANSPORTATION
Mailing Contact:	WARREN E DAVIS
Mailing Address:	3165 RICHMOND TERRACE
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-727-1000

D33 **MARINERS HARBOUR** **NY Spills** **S102150635**
NW **3165 RICHMOND TERRACE** **NY Hist Spills** **N/A**
< 1/8 **STATE ISLAND, NY**
431 ft.

Site 6 of 7 in cluster D

Relative:
Lower

Actual:
10 ft.

NY Spills:

Site ID:	218345
Facility Addr2:	Not reported
Facility ID:	9506182
Spill Number:	9506182
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	ADZHITOM
Referred To:	Not reported
Spill Date:	08/18/95
Reported to Dept:	08/18/95
CID:	13
Spill Cause:	Unknown

MARINERS HARBOUR (Continued) **S102150635**

Water Affected:	KILL VAN KULL
Spill Source:	Tank Truck
Spill Notifier:	Federal Government
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	10/27/03
Remediation Phase:	0
Date Entered In Computer:	09/11/95
Spill Record Last Update:	02/03/04
Spiller Name:	Not reported
Spiller Company:	CLARA P-BARGE
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Spiller Phone:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	9506182
DER Facility ID:	279342
Site ID:	218345
Operable Unit ID:	1020998
Operable Unit:	01
Material ID:	364159
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Start DECRemark - 9506182 Prior to Sept, 2004 data translation this spill Lead DEC Field was "ZHITOMIRSKY" Closed 10/27/03 by A. Zhitomirsky END DECRemark - 9506182
Remarks:	Start CallerRemark - 9506182 GAS BARGE CAUGHT FIRE - 2 SERIOUSLY BURNED - FIRE OUT - NEED CALL BACK END CallerRemark - 9506182

Site ID:	344573
Facility Addr2:	Not reported
Facility ID:	0501366
Spill Number:	0501366
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	RWAUSTIN
Referred To:	Not reported
Spill Date:	05/03/05
Reported to Dept:	05/03/05
CID:	13
Spill Cause:	Unknown

MARINERS HARBOUR (Continued) **S102150635**

Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	06/21/05
Remediation Phase:	0
Date Entered In Computer:	05/03/05
Spill Record Last Update:	06/21/05
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Spiller Phone:	Not reported
Contact Name:	PAT KINNER
Contact Phone:	(718) 273-6300
DEC Region:	2
Program Number:	0501366
DER Facility ID:	180638
Site ID:	344573
Operable Unit ID:	1103213
Operable Unit:	01
Material ID:	583418
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	0.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Groundwater
Oxygenate:	False

DEC Remarks: Start DECRemark - 0501366 05/05/05 - Sawyer - McAllister Towing (MT) has a permit for replacing bulkhead from NYSDEC permits. George Stadnik is the permit manager and since MT has violated some special conditions of the permit and therefore discharging to the Kill Van Kull, the permit has been suspended until the contamination is delineated, removed and end point samples that are clean sent to the Department. 5/17/05 - Austin - Did inspection of this site on 5/10/05 with George Stadnik ofDNR. Met with reps from McAllister and their consultant, Roux Associates. The area behind the old bulkhead had been excavated for installing the new bulkhead tieback system, revealing a series of concrete beams formerly used for a shipyard track crane (the previous use of the property, before McAllister took it over). They discovered a pocket of petroleum contaminated soil in the southeast corner of their inlet, as they were doing the excavation. They contained and removed the floating product, but will need to excavate and properly dispose of the remaing contaminated soil. Today, I spoke with Craig Werle of Roux, and we discussed what had been done to date. The contaminated soil has been removed, and post-ex samples taken, according to Werle. He wanted to know if the hole could be filled in. After discussing this with him, I indicated that since such an action was not imperative for the bulkhead project to proceed, and that any lab results may indicate that further remdiation work is required, he may wish to hold off on

MARINERS HARBOUR (Continued) **S102150635**

backfiling the excavtion in that area. - end 6/21/05 - Austin - Reviewed soil sampling report dated 6/15/05, submitted by Roux Associates. Report shows satisfactory removal of pet. hot spot thatled to the oil sheens. NFA letter issued this date - end END DECRemark - 0501366

Remarks: Start CallerRemark - 0501366 Callers cell# 347-538-0897. Caller was digging for a pier replacement and noticed oily material coming from the soil seeping ionto the water in the basin on site. The restoration of the pier is an ongoing project not sure of clean up. END CallerRemark - 0501366

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number:	9506182
Investigator:	ZHITOMIRSKY
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	08/18/1995 18:50
Reported to Dept Date/Time:	08/18/95 19:25
SWIS:	64
Spiller Name:	CLARA P-BARGE
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	Surface Water
Water Affected:	KILL VAN KULL
Spill Source:	08
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	09/11/95
Date Spill Entered In Computer Data File:	Not reported
Update Date:	09/28/95
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported

MARINERS HARBOUR (Continued) **S102150635**

Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	20
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	GASOLINE
Class Type:	GASOLINE
Times Material Entry In File:	21329
CAS Number:	Not reported
Last Date:	19940929
DEC Remarks:	Not reported
Remark:	GAS BARGE CAUGHT FIRE - 2 SERIOUSLY BURNED - FIRE OUT - NEED CALL BACK

D34 **3165 RICHMOND TERR** **NY Spills** **S102146700**
NW **3165 RICHMOND TERR** **NY Hist Spills** **N/A**
< 1/8 **STATEN ISLAND, NY**
431 ft.

Site 7 of 7 in cluster D

Relative:
Lower

Actual:
10 ft.

NY Spills:

Site ID:	280989
Facility Addr2:	Not reported
Facility ID:	9304131
Spill Number:	9304131
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	MCTIBBE
Referred To:	Not reported
Spill Date:	07/01/93
Reported to Dept:	07/01/93
CID:	13
Spill Cause:	Unknown
Water Affected:	KILL VAN KULL
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	07/12/93
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	07/12/93
Remediation Phase:	0
Date Entered In Computer:	07/02/93
Spill Record Last Update:	07/16/93
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	***UPDATE***, ZZ
Spiller Company:	999
Spiller Phone:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported

3165 RICHMOND TERR (Continued) **S102146700**

DEC Region:	2
Program Number:	9304131
DER Facility ID:	228177
Site ID:	280989
Operable Unit ID:	982573
Operable Unit:	01
Material ID:	397651
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0.00
Units:	Not reported
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Start DECRemark - 9304131 Prior to Sept, 2004 data translation this spill Lead DEC Field was "TIBBE" 10/10/95: This is additional information about material spilled from the translation of the old spill file: WASTE OIL SLOP. END DECRemark - 9304131
Remarks:	Start CallerRemark - 9304131 SPILL IN WATER 100 YDS BY 100 YDS - NRC NOTIFIED #183189 - FEDERALIZED AND TO BE CLEANED BY USCG. END CallerRemark - 9304131

Site ID:	218346
Facility Addr2:	Not reported
Facility ID:	9702293
Spill Number:	9702293
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	RWAUSTIN
Referred To:	Not reported
Spill Date:	05/08/97
Reported to Dept:	05/22/97
CID:	13
Spill Cause:	Housekeeping
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	DEC
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/08/03
Remediation Phase:	0
Date Entered In Computer:	05/22/97
Spill Record Last Update:	12/08/03
Spiller Name:	MICHAEL GALLAGER
Spiller Company:	NEW YORK MARINE
Spiller Address:	3165 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, ZZ
Spiller Company:	001
Spiller Phone:	(718) 237-4040
Contact Name:	MICHAEL GALLAGER

3165 RICHMOND TERR (Continued) **S102146700**

Contact Phone:	(718) 237-4040
DEC Region:	2
Program Number:	9702293
DER Facility ID:	180638
Site ID:	218346
Operable Unit ID:	1045022
Operable Unit:	01
Material ID:	335231
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	0.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
DEC Remarks:	Start DECRemark - 9702293 Prior to Sept, 2004 data translation this spill Lead DEC Field was "AUSTIN" 12/8/03 - AUSTIN - NO OTHER INFO AVAIL. - CLOSED - ORIG. ASSIGNED TO SIGONA - END END DECRemark - 9702293
Remarks:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number:	9304131
Investigator:	TIBBE
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	07/01/1993 10:15
Reported to Dept Date/Time:	07/01/93 10:35
SWIS:	64
Spiller Name:	UNK
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	Surface Water
Water Affected:	KILL VAN KULL
Spill Source:	12
Spill Notifier:	Affected Persons
PBS Number:	Not reported
Cleanup Ceased:	07/12/93
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False

3165 RICHMOND TERR (Continued) **S102146700**

Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 07/12/93
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 07/02/93
Date Spill Entered In Computer Data File: Not reported
Update Date: 07/16/93
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: WASTE OIL
Class Type: WASTE OIL
Times Material Entry In File: 9509
CAS Number: Not reported
Last Date: 19940927
DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: WASTE OIL SLOP.
Remark: SPILL IN WATER 100 YDS BY 100 YDS - NRC NOTIFIED 183189 - FEDERALIZED AND TO BE CLEANED BY USCG.

Region of Spill: 2
Spill Number: 9702293
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 05/08/1997 12:00
Reported to Dept Date/Time: 05/22/97 15:12
SWIS: 64
Spiller Name: NEW YORK MARINE
Spiller Contact: MICHAEL GALLAGER
Spiller Phone: (718) 237-4040
Spiller Contact: MICHAEL GALLAGER
Spiller Phone: (718) 237-4040
Spiller Address: 3165 RICHMOND TERRACE
Spiller City,St,Zip: STATEN ISLAND
Spill Cause: Housekeeping
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: DEC
PBS Number: Not reported
Cleanup Ceased: / /

3165 RICHMOND TERR (Continued) **S102146700**

Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 05/22/97
Date Spill Entered In Computer Data File: Not reported
Update Date: 06/12/97
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Raw Sewage
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN MATERIAL
Class Type: UNKNOWN MATERIAL
Times Material Entry In File: 9140
CAS Number: Not reported
Last Date: 19941109
DEC Remarks: Not reported
Remark: Not reported

Region of Spill: 2
Spill Number: 9711915
Investigator: TOMASELLO
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 01/23/1998 22:00
Reported to Dept Date/Time: 01/24/98 11:51
SWIS: 64
Spiller Name: M/V BONNIE BEE (OLD SHIP)
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Contact: PO WILLIAMMEE
Spiller Phone: (718) 354-4136
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Deliberate
Reported to Dept: Surface Water

3165 RICHMOND TERR (Continued) **S102146700**

Water Affected:	KILLVANKULL
Spill Source:	10
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	01/24/98
Date Spill Entered In Computer Data File:	Not reported
Update Date:	01/26/98
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	True
Material:	WASTE OIL
Class Type:	WASTE OIL
Times Material Entry In File:	9509
CAS Number:	Not reported
Last Date:	19940927
DEC Remarks:	Not reported
Remark:	Annom caller stated the m/v was pumping its bildge sluge into Killvankull - USCG went to check it this morning and found nothing they will follow up monday with an inspection of the vessel - caller did state it was occuring last night which is why the uscg could not even notice a sheen on the water this morning - vessel is owner by motor vessel poling brothers - 3165 richmond terr staten island

---

35 **41 ANDROS AVE/S.I.** **NY Spills** **S102142031**
SSE **41 ANDROS AVENUE** **NY Hist Spills** **N/A**
< 1/8 **NEW YORK CITY, NY**
537 ft.

Relative:
Higher

Actual:
19 ft.

NY Spills:

Site ID:	284810
Facility Addr2:	Not reported
Facility ID:	8907528
Spill Number:	8907528
Facility Type:	ER

41 ANDROS AVE/S.I. (Continued) **S102142031**

SWIS:	4301
Region of Spill:	2
Investigator:	SULLIVAN
Referred To:	Not reported
Spill Date:	10/30/89
Reported to Dept:	10/30/89
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Affected Persons
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. (Highly Improbable)
Spill Closed Dt:	02/12/03
Remediation Phase:	0
Date Entered In Computer:	11/01/89
Spill Record Last Update:	02/12/03
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Spiller Phone:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	8907528
DER Facility ID:	230946
Site ID:	284810
Operable Unit ID:	935142
Operable Unit:	01
Material ID:	554632
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Pounds
Recovered:	0.00
Resource Affected:	Air
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 8907528 DIESEL ODOR COULD BE COMING FROM VEHICLE REPAIR BUSINESS NEARBY, ODOR IS COMING FROM MS. OLIVER'S SEWER TRAPS. END CallerRemark - 8907528

NY Hist Spills:

Region of Spill:	2
Spill Number:	8907528
Investigator:	SULLIVAN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported

41 ANDROS AVE/S.I. (Continued) **S102142031**

Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	10/30/1989 08:00
Reported to Dept Date/Time:	10/30/89 09:17
SWIS:	64
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	Air
Water Affected:	Not reported
Spill Source:	09
Spill Notifier:	Affected Persons
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates a file or hazard. (Highly Improbable)
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	11/01/89
Date Spill Entered In Computer Data File:	Not reported
Update Date:	11/13/92
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	DIESEL
Class Type:	DIESEL
Times Material Entry In File:	10625
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	Not reported
Remark:	DIESEL ODOR COULD BE COMING FROM VEHICLE REPAIR BUSINESS NEARBY, ODOR IS COMING FROM MS. OLIVER S SEWER TRAPS.

36 SSW < 1/8 558 ft. | **72 MERSEREAU AVENUE**
72 MERSEREAU AVENUE
STATEN ISLAND, NY | **NY Spills** | **S102239799**
NY Hist Spills | **N/A**

Relative: Higher

Actual: 27 ft.

NY Spills:

Site ID:	73974
Facility Addr2:	Not reported
Facility ID:	9601193
Spill Number:	9601193
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	JMKRIMGO
Referred To:	Not reported
Spill Date:	04/24/96
Reported to Dept:	04/24/96
CID:	13
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	04/24/96
Remediation Phase:	0
Date Entered In Computer:	04/24/96
Spill Record Last Update:	05/06/96
Spiller Name:	ROSS CARLISLE
Spiller Company:	CITGO OIL
Spiller Address:	2541 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller Company:	001
Spiller Phone:	(718) 448-3750
Contact Name:	ROSS CARLISLE
Contact Phone:	(718) 448-3750
DEC Region:	2
Program Number:	9601193
DER Facility ID:	69520
Site ID:	73974
Operable Unit ID:	1032753
Operable Unit:	01
Material ID:	351010
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	1.00
Resource Affected:	Soil
Oxygenate:	False
DEC Remarks:	Start DECRemark - 9601193 Prior to Sept, 2004 data translation this spill Lead DEC Field was "KRIMGOLD" END DECRemark - 9601193

72 MERSEREAU AVENUE (Continued) **S102239799**

Remarks: Start CallerRemark - 9601193 LEAK FROM METER ON TRUCK END CallerRemark - 9601193

NY Hist Spills:

Region of Spill:	2
Spill Number:	9601193
Investigator:	KRIMGOLD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	04/24/1996 09:00
Reported to Dept Date/Time:	04/24/96 09:48
SWIS:	64
Spiller Name:	CITGO OIL
Spiller Contact:	ROSS CARLISLE
Spiller Phone:	(718) 448-3750
Spiller Contact:	ROSS CARLISLE
Spiller Phone:	(718) 448-3750
Spiller Address:	2541 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	09
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	04/24/96
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	04/24/96
Date Spill Entered In Computer Data File:	Not reported
Update Date:	05/06/96
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	1
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	1
Unkonwn Quantity Recovered:	False

72 MERSEREAU AVENUE (Continued) **S102239799**

Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Remark: LEAK FROM METER ON TRUCK

E37
WNW
< 1/8
625 ft.

Relative:
Higher

Actual:
15 ft.

NEWARK BAY **NY Spills** **S103275458**
RICHMOND TERRACE **NY Hist Spills** **N/A**
STATEN ISLAND, NY

Site 1 of 4 in cluster E

NY Spills:
Site ID: 274059
Facility Addr2: Not reported
Facility ID: 9803793
Spill Number: 9803793
Facility Type: ER
SWIS: 3101
Region of Spill: 2
Investigator: SMMARTIN
Referred To: Not reported
Spill Date: 06/25/98
Reported to Dept: 06/25/98
CID: 205
Spill Cause: Equipment Failure
Water Affected: NEWARK BAY
Spill Source: Commercial/Industrial
Spill Notifier: Responsible Party
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt: 06/25/98
Remediation Phase: 0
Date Entered In Computer: 06/25/98
Spill Record Last Update: 06/29/98
Spiller Name: CALLER
Spiller Company: COSTAL PIPELINE COMPANY
Spiller Address: FT OF EAST 5TH STREET
Spiller City,St,Zip: BAYONE, NJ 07002-
Spiller Company: 001
Spiller Phone: (201) 437-2125
Contact Name: CALLER
Contact Phone: (201) 437-2125
DEC Region: 2
Program Number: 9803793
DER Facility ID: 222901
Site ID: 274059
Operable Unit ID: 1064573
Operable Unit: 01
Material ID: 322113
Material Code: 0001
Material Name: #2 Fuel Oil

NEWARK BAY (Continued) **S103275458**

Case No.: Not reported
Material FA: Petroleum
Quantity: 1680.00
Units: Gallons
Recovered: 0.00
Resource Affected: Surface Water
Oxygenate: False
DEC Remarks: Start DECRemark - 9803793 Prior to Sept, 2004 data translation this spill Lead DEC Field was "MARTINKAT" END DECRemark - 9803793
Remarks: Start CallerRemark - 9803793 * * * DRILL * * * * * * DRILL * * * *
PIPELINE BREAK AT RICHMOND TERRACE BLOCK VALVE. SPILL CONTRACTOR ENROUTE.PIPLINE OPERATIONS HAVE STOPPED. END CallerRemark - 9803793

NY Hist Spills:
Region of Spill: 2
Spill Number: 9803793
Investigator: MARTINKAT
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 06/25/1998 09:00
Reported to Dept Date/Time: 06/25/98 09:43
SWIS: 62
Spiller Name: COSTAL PIPELINE COMPANY
Spiller Contact: CALLER
Spiller Phone: (201) 437-2125
Spiller Contact: CALLER
Spiller Phone: (201) 437-2125
Spiller Address: FT OF EAST 5TH STREET
Spiller City,St,Zip: BAYONE, NJ 07002-
Spill Cause: Equipment Failure
Reported to Dept: Surface Water
Water Affected: NEWARK BAY
Spill Source: 01
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt: 06/25/98
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 06/25/98
Date Spill Entered In Computer Data File: Not reported
Update Date: 06/29/98
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported

NEWARK BAY (Continued) **S103275458**

Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	1680
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207

DEC Remarks: Not reported

Remark: * * * DRILL * * * * * * DRILL * * * * PIPELINE BREAK AT RICHMOND TERRACE BLOCK VALVE. SPILL CONTRACTOR ENROUTE.PIPLINE OPERATIONS HAVE STOPPED.

E38
WNW
< 1/8
625 ft.

Relative:
Higher

Actual:
15 ft.

NEW YORK CITY HARBOUR **NY Spills** **S104787167**
RICHMOND TERRACE **NY Hist Spills** **N/A**
STATEN ISLAND, NY

Site 2 of 4 in cluster E

NY Spills:

Site ID:	94041
Facility Addr2:	Not reported
Facility ID:	0004417
Spill Number:	0004417
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	SACCACIO
Referred To:	Not reported
Spill Date:	07/13/00
Reported to Dept:	07/13/00
CID:	266
Spill Cause:	Other
Water Affected:	KILL VAN KULL CHANNE
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	03/18/03
Remediation Phase:	0
Date Entered In Computer:	07/13/00
Spill Record Last Update:	03/18/03
Spiller Name:	JOHN NUTE
Spiller Company:	GREAT LAKES DREDGE & DOCK
Spiller Address:	2747 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY 10303-
Spiller Company:	001

NEW YORK CITY HARBOUR (Continued) **S104787167**

Spiller Phone: (718) 981-2700
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 2
Program Number: 0004417
DER Facility ID: 275637
Site ID: 94041
Operable Unit ID: 825642
Operable Unit: 01
Material ID: 549154
Material Code: 0010A
Material Name: HYDRAULIC OIL
Case No.: Not reported
Material FA: Other
Quantity: 0.00
Units: Gallons
Recovered: 0.00
Resource Affected: Surface Water
Oxygenate: False
DEC Remarks: Not reported
Remarks: Start CallerRemark - 0004417 FIRE ON THE DREDGE "NEW YORK." FIRE STARTED AT 0230. SPILLED ITSELF WASN'T DISCOVERED UNTIL 0445. UNKNOWN HOW MUCH SPILLED. OIL PADS AND BOOMS PLACED IN WATER. NEW YORK CITY FIRE DEPARTMENT AND UNITED STATES COAST GUARD RESPONDED FOR FIRE. NATIONAL RESPONSE CENTER NOTIFIED. CLEAN VENTURE (CONTRACTOR) WAS CONTACTED AT TIME OF FIRE, AND WAS ON SCENE WHEN SPILL WAS DISCOVERED. CLEAN VENTURES PERFORMING NECESSARY CLEAN UP. END CallerRemark - 0004417

NY Hist Spills:
Region of Spill: 2
Spill Number: 0004417
Investigator: SACCACIO
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 07/13/2000 04:30
Reported to Dept Date/Time: 07/13/00 05:41
SWIS: 64
Spiller Name: GREAT LAKES DREDGE & DOCK
Spiller Contact: JOHN NUTE
Spiller Phone: (718) 981-2700
Spiller Address: 2747 RICHMOND TERRACE
Spiller City,St,Zip: STATEN ISLAND, NY 10303-
Spill Cause: Other
Reported to Dept: Surface Water
Water Affected: KILL VAN KULL CHANNE
Spill Source: 10
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /

NEW YORK CITY HARBOUR (Continued) **S104787167**

Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 07/13/00
Date Spill Entered In Computer Data File: Not reported
Update Date: 07/13/00
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: HYDRAULIC OIL
Class Type: HYDRAULIC OIL
Times Material Entry In File: 1846
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: FIRE ON THE DREDGE NEW YORK. FIRE STARTED AT 0230. SPILLED ITSELF WASN T DISCOVERED UNTIL 0445. UNKNOWN HOW MUCH SPILLED. OIL PADS AND BOOMS PLACED IN WATER. NEW YORK CITY FIRE DEPARTMENT AND UNITED STATES COAST GUARD RESPONDED FOR FIRE. NATIONAL RESPONSE CENTER NOTIFIED. CLEAN VENTURE CONTRACTOR) WAS CONTACTED AT TIME OF FIRE, AND WAS ON SCENE WHEN SPILL WAS DISCOVERED. CLEAN VENTURES PERFORMING NECESSARY CLEAN UP.

E39
WNW
< 1/8
625 ft.

Relative:
Higher

Actual:
15 ft.

CSX ST. GEORGE RAIL YARD
RICHMOND TERRACE
STATEN ISLAND, NY

NY Spills **S103828224**
NY Hist Spills **N/A**

Site 3 of 4 in cluster E

NY Spills:
Site ID: 94056
Facility Addr2: Not reported
Facility ID: 9813883
Spill Number: 9813883
Facility Type: ER
SWIS: 4301
Region of Spill: 2
Investigator: SIGONA
Referred To: Not reported
Spill Date: 02/05/99
Reported to Dept: 02/16/99
CID: 366
Spill Cause: Housekeeping
Water Affected: Not reported

CSX ST. GEORGE RAIL YARD (Continued) **S103828224**

Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	DEC
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	07/11/03
Remediation Phase:	0
Date Entered In Computer:	02/16/99
Spill Record Last Update:	07/11/03
Spiller Name:	JAMES PERONTO
Spiller Company:	CSX ST. GEORGE RAIL YARD
Spiller Address:	RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller Company:	001
Spiller Phone:	(860) 289-8631
Contact Name:	JAMES PERONTO
Contact Phone:	(860) 289-8631
DEC Region:	2
Program Number:	9813883
DER Facility ID:	275637
Site ID:	94056
Operable Unit ID:	1071405
Operable Unit:	01
Material ID:	310595
Material Code:	0063A
Material Name:	UNKNOWN HAZARDOUS MATERIAL
Case No.:	Not reported
Material FA:	Hazardous Material
Quantity:	0.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Groundwater
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9813883 PROPERTY FOUND TO HAVE MULTIPLE TYPES OF HAZARDOUS MATERIALS. SITE IS BEING REVIEWED FOR CONSTRUCTION OF STADIUM. END CallerRemark - 9813883

NY Hist Spills:

Region of Spill:	2
Spill Number:	9813883
Investigator:	SIGONA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	02/05/1999 09:00
Reported to Dept Date/Time:	02/16/99 11:54
SWIS:	64
Spiller Name:	CSX ST. GEORGE RAIL YARD
Spiller Contact:	JAMES PERONTO

CSX ST. GEORGE RAIL YARD (Continued) **S103828224**

Spiller Phone:	(860) 289-8631
Spiller Contact:	JAMES PERONTO
Spiller Phone:	(860) 289-8631
Spiller Address:	RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY
Spill Cause:	Housekeeping
Reported to Dept:	Groundwater
Water Affected:	Not reported
Spill Source:	04
Spill Notifier:	DEC
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	02/16/99
Date Spill Entered In Computer Data File:	Not reported
Update Date:	03/17/99
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Nonpetroleum/Nonhazardous
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	True
Material:	UNKNOWN HAZARDOUS MATERIAL
Class Type:	UNKNOWN HAZARDOUS MATERIAL
Times Material Entry In File:	2093
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	DEC SIGONA) RECEIVED REPORTS FROM DEC Brevdo) dated December 1998 prepared by TRC Enviornmental Corp. DEC Sigona) submitted comments on March 11, 1999. This site will require further investigation remediation. There were former fueling operations on the site and saturated soil and groundwater with some free product over large area.
Remark:	PROPERTY FOUND TO HAVE MULTIPLE TYPES OF HAZARDOUS MATERIALS. SITE IS BEING REVIEWED FOR CONSTRUCTION OF STADIUM.

E40
WNW
< 1/8
625 ft.

Relative:
Higher

Actual:
15 ft.

SUNKEN YARD TUG BOAT
RICHMOND TERRACE
STATEN ISLAND, NY

NY Spills **S103571369**
NY Hist Spills **N/A**

Site 4 of 4 in cluster E

NY Spills:

Site ID:	94054
Facility Addr2:	Not reported
Facility ID:	9709577
Spill Number:	9709577
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	O'DOWD
Referred To:	Not reported
Spill Date:	11/18/97
Reported to Dept:	11/18/97
CID:	369
Spill Cause:	Other
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Local Agency
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt:	04/08/98
Remediation Phase:	0
Date Entered In Computer:	11/18/97
Spill Record Last Update:	04/08/98
Spiller Name:	STEVE KALIO
Spiller Company:	CADDELLS DRY DOCK
Spiller Address:	RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, ZZ
Spiller Company:	001
Spiller Phone:	(718) 442-2112
Contact Name:	STEVE KALIO
Contact Phone:	(718) 442-2112
DEC Region:	2
Program Number:	9709577
DER Facility ID:	275637
Site ID:	94054
Operable Unit ID:	1055942
Operable Unit:	01
Material ID:	563751
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9709577 sunken tug boat at the yard up to 1500 gal in

SUNKEN YARD TUG BOAT (Continued) **S103571369**

boat-none spilled as of yet. may when boat is raised. END CallerRemark - 9709577

NY Hist Spills:

Region of Spill:	2
Spill Number:	9709577
Investigator:	O'DOWD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	11/18/1997 10:00
Reported to Dept Date/Time:	11/18/97 11:10
SWIS:	64
Spiller Name:	CADDELLS DRY DOCK
Spiller Contact:	STEVE KALIO
Spiller Phone:	(718) 442-2112
Spiller Contact:	STEVE KALIO
Spiller Phone:	(718) 442-2112
Spiller Address:	RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND
Spill Cause:	Other
Reported to Dept:	Surface Water
Water Affected:	KILL VAN KULL
Spill Source:	10
Spill Notifier:	Local Agency
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt:	04/08/98
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	11/18/97
Date Spill Entered In Computer Data File:	Not reported
Update Date:	04/08/98
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	DIESEL

SUNKEN YARD TUG BOAT (Continued) **S103571369**

Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 11-18-97/11:29 EVERYONE IS DOWN AT THE BOAT. P.O. HOBSON - REQUESTS DEC RESPONSE WILL BE RAISING BOAT APPROX. 12:00. 11/18/97 12:00 PM SPOKE TO P.O. HOBSON/USCG. TUG BOAT MAXIMUM CAPACITY IS 1500 GAL DIESEL. NOT SURE OF CAPACITY ACTUALLY ON BOARD. BOAT HAS HARD BOOM DEPLOYED AROUND IT WITH SORBENT BOOM AROUND IT. THERE IS A VAC TRUCK ON STAND BY. CADDELS HAS ACCEPTED RESPONSIBILITY FOR SITUATION AND IS DOING AN IN-HOUSE CLEAN UP IF NEED BE. WILL MONITOR SITUATION. TUG IS BEING STRAPPED UP TO BE LIFTED OUT. USCG ON SCENE. 1:50 PM SPOKE TO PETE/USCG. FROM HIS GUYS AT THE SCENE. THERE IS A SMALL SHEENING THAT HAS COME OUT BUT IS CONTAINED WITHIN THE BOOMS. IT WAS NOTICED WHEN THE DIVERS WERE PLUGGING UP THE VENTS. THE VESSEL HAS APPROX. 2,400 GAL OF FUEL, IT WAS TOPPED OFF. 1:55 PM SPOKE TO TIM GROSS/COMPLIANCE OFFICER FOR KADDEL DRYDOCK. HE SAID THERE IS A SMALL SHEENING ABOUT 20 GAL, ALL CONTAINED AND A VAC TRUCK AT THE PIER. SPILL NOT BIG ENOUGH TO WARRANT AN OUTSIDE CONTRACTOR YET. GAVE HIM MY BEEPER WHEN HE KNOWS MORE. CABLES ARE BEING PUT AROUND VESSEL, ITS EXPECTED TO BE OUT IN 1 HOUR. PADS WERE ALSO PUT DOWN. 11/18/97 3:15 SPOKE TO P.O. BRAY/USCG. TUGBOAT HAS BEEN LIFTED UP AND IS OUT OF THE WATER. NO FURTHER SPILLAGE, EXCEPT WHAT WAS RELEASED EARLIER. BOAT BROUGHT TO SHIPYARD TO BE OFF-LOADED. 11/19/97 8:35 AM SPOKE TO P.O. DEASON/USCG. HE SAID INCIDENT OVER, TUGBOAT WAS LIFTED AND EVERYTHING TAKEN CARE OF.
Remark: sunken tug boat at the yard up to 1500 gal in boat-none spilled as of yet. may when boat is raised.

F41 **SOUTH AUE AUTO INC** **NY UST** **U001831690**
NW **3228 RICHMOND TERRACE** **NY HIST UST** **N/A**
1/8-1/4 **NEW YORK CITY, NY 10303**
754 ft.

Site 1 of 7 in cluster F

Relative: Higher

Actual: 12 ft.

UST:
Facility ID: 2-062561
Program Type: PBS
Facility Addr2: 3228 RICHMOND TERRACE
Locality: STATEN ISLAND
SWIS Code: 4301
DEC Region: 2
Registered: 1
Expiration Date: 1/14/1992
Site Status: Unregulated (<1101 gallons)
Site Type: Unknown
Above Ground Tanks: No
Under Ground Tanks: No

HIST UST:
PBS Number: 2-062561
SPDES Number: Not reported
Emergency Contact: ANN ADAMS
Emergency Telephone: (718) 981-2015
Operator: STEVEN G BROWN
Operator Telephone: (718) 981-1498
Owner Name: STEVEN G BROWN
Owner Address: 25 SOUTH AVE
Owner City,St,Zip: STATEN ISLAND, NY 10303

SOUTH AUE AUTO INC (Continued) **U001831690**

Owner Telephone:	(718) 981-4068
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	SOUTH AVE AUTO
Mailing Address:	3228 RICHMOND TERRACE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NY, NY 10303
Mailing Contact:	Not reported
Mailing Telephone:	(718) 981-1498
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	3228 RICHMOND TERRACE
Tank Id:	004
Tank Location:	UNDERGROUND
Install Date:	19651201
Capacity (gals):	550
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	04/01/1990
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Lat/long:	Not reported
SWIS ID:	6401
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	01/14/1987
Expiration Date:	01/14/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	True
CBS Number:	Not reported

SOUTH AUE AUTO INC (Continued) **U001831690**

Town or City:	NEW YORK CITY
County Code:	64
Town or City:	01
Region:	2
PBS Number:	2-062561
SPDES Number:	Not reported
Emergency Contact:	ANN ADAMS
Emergency Telephone:	(718) 981-2015
Operator:	STEVEN G BROWN
Operator Telephone:	(718) 981-1498
Owner Name:	STEVEN G BROWN
Owner Address:	25 SOUTH AVE
Owner City,St,Zip:	STATEN ISLAND, NY 10303
Owner Telephone:	(718) 981-4068
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	SOUTH AVE AUTO
Mailing Address:	3228 RICHMOND TERRACE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NY, NY 10303
Mailing Contact:	Not reported
Mailing Telephone:	(718) 981-1498
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	3228 RICHMOND TERRACE
Tank Id:	005
Tank Location:	UNDERGROUND
Install Date:	19651201
Capacity (gals):	550
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	04/01/1990
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Lat/long:	Not reported
SWIS ID:	6401
Old PBS Number:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported

SOUTH AUE AUTO INC (Continued) **U001831690**

Federal ID:	Not reported
Certification Flag:	False
Certification Date:	01/14/1987
Expiration Date:	01/14/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	True
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	64
Town or City:	01
Region:	2
PBS Number:	2-062561
SPDES Number:	Not reported
Emergency Contact:	ANN ADAMS
Emergency Telephone:	(718) 981-2015
Operator:	STEVEN G BROWN
Operator Telephone:	(718) 981-1498
Owner Name:	STEVEN G BROWN
Owner Address:	25 SOUTH AVE
Owner City,St,Zip:	STATEN ISLAND, NY 10303
Owner Telephone:	(718) 981-4068
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	SOUTH AVE AUTO
Mailing Address:	3228 RICHMOND TERRACE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NY, NY 10303
Mailing Contact:	Not reported
Mailing Telephone:	(718) 981-1498
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	3228 RICHMOND TERRACE
Tank Id:	001
Tank Location:	UNDERGROUND
Install Date:	19651201
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported

SOUTH AUE AUTO INC (Continued) **U001831690**

Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	04/01/1990
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Lat/long:	Not reported
SWIS ID:	6401
Old PBS Number:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	01/14/1987
Expiration Date:	01/14/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	True
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	64
Town or City:	01
Region:	2

PBS Number:	2-062561
SPDES Number:	Not reported
Emergency Contact:	ANN ADAMS
Emergency Telephone:	(718) 981-2015
Operator:	STEVEN G BROWN
Operator Telephone:	(718) 981-1498
Owner Name:	STEVEN G BROWN
Owner Address:	25 SOUTH AVE
Owner City,St,Zip:	STATEN ISLAND, NY 10303
Owner Telephone:	(718) 981-4068
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	SOUTH AVE AUTO
Mailing Address:	3228 RICHMOND TERRACE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NY, NY 10303
Mailing Contact:	Not reported
Mailing Telephone:	(718) 981-1498
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	3228 RICHMOND TERRACE
Tank Id:	002
Tank Location:	UNDERGROUND
Install Date:	19651201
Capacity (gals):	550

SOUTH AUE AUTO INC (Continued) **U001831690**

Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	04/01/1990
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Lat/long:	Not reported
SWIS ID:	6401
Old PBS Number:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	01/14/1987
Expiration Date:	01/14/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	True
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	64
Town or City:	01
Region:	2

PBS Number:	2-062561
SPDES Number:	Not reported
Emergency Contact:	ANN ADAMS
Emergency Telephone:	(718) 981-2015
Operator:	STEVEN G BROWN
Operator Telephone:	(718) 981-1498
Owner Name:	STEVEN G BROWN
Owner Address:	25 SOUTH AVE
Owner City,St,Zip:	STATEN ISLAND, NY 10303
Owner Telephone:	(718) 981-4068
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	SOUTH AVE AUTO

SOUTH AUE AUTO INC (Continued) **U001831690**

Mailing Address:	3228 RICHMOND TERRACE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NY, NY 10303
Mailing Contact:	Not reported
Mailing Telephone:	(718) 981-1498
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	3228 RICHMOND TERRACE
Tank Id:	003
Tank Location:	UNDERGROUND
Install Date:	19651201
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	04/01/1990
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Lat/long:	Not reported
SWIS ID:	6401
Old PBS Number:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	01/14/1987
Expiration Date:	01/14/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	True
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	64
Town or City:	01
Region:	2

F42
NW
1/8-1/4
828 ft.

Relative:
Higher

Actual:
13 ft.

FIRST MARINE
RICHMOND TERR
STATEN ISLAND, NY

Site 2 of 7 in cluster F

NY LTANKS
NY Spills
NY Hist Spills
NY HIST LTANKS

S102239119
N/A

LTANKS:

Site ID:	307982
Spill Date:	02/15/96
Facility Addr2:	Not reported
Facility ID:	9514627
Program Number:	9514627
SWIS:	4301
Region of Spill:	2
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	02/15/96
CID:	13
Spill Cause:	Tank Failure
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Federal Government
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	09/02/03
Remediation Phase:	0
Date Entered In Computer:	02/15/96
Spill Record Last Update:	09/02/03
Spille Namer:	UNKNOWN
Spiller Company:	FIRST MARINE SHIPYARD
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Address:	2945 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller County:	001
Spiller Contact:	STEVE DOOLEY
Spiller Phone:	(212) 668-7920
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9514627
DER Facility ID:	248728
Site ID:	307982
Operable Unit ID:	1029175
Operable Unit:	01
Material ID:	354754
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False

FIRST MARINE (Continued) **S102239119**

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9514627 Oil is being discharged from a sunken sludge ship. END CallerRemark - 9514627

NY Spills:

Site ID:	77457
Facility Addr2:	Not reported
Facility ID:	0305407
Spill Number:	0305407
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	SMSANGES
Referred To:	Not reported
Spill Date:	08/21/03
Reported to Dept:	08/21/03
CID:	257
Spill Cause:	Equipment Failure
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	08/21/03
Remediation Phase:	0
Date Entered In Computer:	08/21/03
Spill Record Last Update:	08/21/03
Spiller Name:	Not reported
Spiller Company:	BOUCHARD TRANS
Spiller Address:	77 NEWBRIDGE
Spiller City,St,Zip:	HICKSVILLE, NY
Spiller Company:	001
Spiller Phone:	Not reported
Contact Name:	VICTOR CORSO
Contact Phone:	(516) 681-4900
DEC Region:	2
Program Number:	0305407
DER Facility ID:	72278
Site ID:	77457
Operable Unit ID:	872010
Operable Unit:	01
Material ID:	502662

FIRST MARINE (Continued) **S102239119**

Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: 1.00
Resource Affected: Surface Water
Oxygenate: False
DEC Remarks: Start DECRemark - 0305407 Prior to Sept, 2004 data translation this spill Lead DEC Field was "SANGESLAND" Coast Guard sent a crew out to the site. Confirmed 1 gal spill closed END DECRemark - 0305407
Remarks: Start CallerRemark - 0305407 while trans fering fuel from one boat to another about 1 gal came out through the vent END CallerRemark - 0305407

NY Hist Spills:
Region of Spill: 2
Spill Number: 9514627
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 02/15/1996 10:00
Reported to Dept Date/Time: 02/15/96 11:53
SWIS: 64
Spiller Name: UNKNOWN
Spiller Contact: UNKNOWN
Spiller Phone: Not reported
Spiller Contact: STEVE DOOLEY
Spiller Phone: (212) 668-7920
Spiller Address: UNKNOWN
Spiller City,St,Zip: UNKNOWN
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: KILL VAN KULL
Spill Source: 10
Spill Notifier: Federal Government
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 02/15/96
Date Spill Entered In Computer Data File: Not reported
Update Date: 03/04/96

FIRST MARINE (Continued) **S102239119**

Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	UNKNOWN PETROLEUM
Class Type:	UNKNOWN PETROLEUM
Times Material Entry In File:	16414
CAS Number:	Not reported
Last Date:	19940929
DEC Remarks:	Not reported
Remark:	unknown oil is coming from a sunk sludge ship

HIST LTANKS:

Region of Spill:	2
Spill Number:	9603869
Investigator:	ENGELHARDT
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	06/20/1996
Spill Time:	16:40
Reported to Department Date:	06/20/96
Reported to Department Time:	17:21
SWIS:	64
Spiller Contact:	KEN PETERSON
Spiller Phone:	(718) 720-7207
Spiller Extention:	Not reported
Spiller Name:	EKLOF MARINE CORP
Spiller Address:	3245 RICHMOND TER
Spiller City,St,Zip:	STATEN ISLAND, NY
Facility Contact:	KEN PETERSON
Facility Phone:	(718) 720-7207
Facility Extention:	Not reported
Spill Cause:	Tank Overfill
Resource Affectd:	Surface Water
Water Affected:	KILVANCOE
Spill Source:	Vessel
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended

FIRST MARINE (Continued) **S102239119**

Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 07/03/96
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 06/20/96
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 07/03/96
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 2
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: #6 FUEL OIL
Class Type: #6 FUEL OIL
Times Material Entry In File: 2190
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Tank was filled too high and during heating expanded causing overflow through valve stem. Oil was gravimetricly transferred to anothe tank. Total spill 10 gal, about 2 in water. Crew cleaning barge deck and water.
Spill Cause: OVER FIL ON BARGE E-14) ABOUT 2 GALS OF NUMBER 6 FUEL SPILLED INTO WATER. CLEANING CREW ON SCENE AT PRESENT TIME. CALLER CALLED RESPONCE CENTER AND WAS GEVEN REF NUMBER 348-219.

43
SE
1/8-1/4
854 ft.

STAR SAND & GRAVEL CORP. **NY SWF/LF** **S105841806**
RICHMOND TERRACE / HARBOR RD **N/A**
STATEN ISLAND, NY 10303

Relative:
Lower

Actual:
9 ft.

SWF/LF:
Flag: INACTIVE
Secondary Addr: Not reported
Region Code: 2
Phone Number: 0
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: THOMAS GESUALE; SITE SUPERVISO
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported

STAR SAND & GRAVEL CORP. (Continued) **S105841806**

Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - regulated
Activity Number:	43T28
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

F44 **3245 RICHMOND TERR** **NY LTANKS** **S107417368**
NW **3245 RICHMOND TERR** **N/A**
1/8-1/4 **STATEN ISLAND, NY**
870 ft.

Site 3 of 7 in cluster F

Relative:
Higher

Actual:
13 ft.

LTANKS:

Site ID:	191571
Spill Date:	06/20/96
Facility Addr2:	Not reported
Facility ID:	9603869
Program Number:	9603869
SWIS:	4301
Region of Spill:	2
Investigator:	CAENGELH
Referred To:	Not reported
Reported to Dept:	06/20/96
CID:	13
Spill Cause:	Tank Overfill
Water Affected:	KILVANCOE
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	07/03/96
Remediation Phase:	0
Date Entered In Computer:	06/20/96
Spill Record Last Update:	01/27/03
Spille Namer:	KEN PETERSON
Spiller Company:	EKLOF MARINE CORP
Spiller Phone:	(718) 720-7207
Spiller Extention:	Not reported
Spiller Address:	3245 RICHMOND TER
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller County:	001
Spiller Contact:	KEN PETERSON
Spiller Phone:	(718) 720-7207
Spiller Extention:	Not reported
DEC Region:	2

3245 RICHMOND TERR (Continued) **S107417368**

Program Number:	9603869
DER Facility ID:	283458
Site ID:	191571
Operable Unit ID:	1035005
Operable Unit:	01
Material ID:	350144
Material Code:	0003
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Start DECRemark - 9603869 Prior to Sept, 2004 data translation this spill Lead DEC Field was "ENGELHARDT" Tank was filled too high and during heating expanded causing overflow through valve stem. Oil was gravimetricly transferred to anothe tank. Total spill 10 gal, about 2 in water. Crew cleaning barge deck and water. END DECRemark - 9603869
Remarks:	Start CallerRemark - 9603869 OVER FIL ON BARGE (E-14) ABOUT 2 GALS OF NUMBER 6 FUEL SPILLED INTO WATER. CLEANING CREW ON SCENE AT PRESENT TIME. CALLER CALLED RESPONCE CENTER AND WAS GEVEN REF NUMBER 348-219. END CallerRemark - 9603869

F45
NW
1/8-1/4
870 ft.

Relative:
Higher

Actual:
13 ft.

EKLOF MARINE CORP
3245 RICHMOND TERRACE
STATEN ISLAND, NY 10303

Site 4 of 7 in cluster F

RCRA-SQG **1000981331**
FINDS **NY0000968552**
NY LTANKS
NY Spills
NY MANIFEST
NY Hist Spills
NY HIST LTANKS

RCRAInfo:

Owner:	EGRET REALTY CORP (718) 720-7207
EPA ID:	NY0000968552
Contact:	CARL EKLOF JR (718) 720-7207
Classification:	Small Quantity Generator
TSDF Activities:	Not reported

EKLOF MARINE CORP (Continued) **1000981331**

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 11/04/1997
Actual Date Achieved Compliance: 10/04/2002

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/01/2001
Penalty Type: Final SEP Cost

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 10/04/2002
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 11/04/1997
Actual Date Achieved Compliance: 10/04/2002

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/01/2001
Penalty Type: Final SEP Cost

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 10/04/2002
Penalty Type: Final SEP Cost

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency
Final SEP Cost	10/4/2002	45000	STATE

There are 2 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	20021004
	GENERATOR-LAND BAN REQUIREMENTS	20021004

FINDS:
Other Pertinent Environmental Activity Identified at Site

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

NJ-NJEMS (New Jersey - New Jersey Environmental Management System). The Department of Environmental Protection (NJDEP) manages large databases of environmental information in this integrated system.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

EKLOF MARINE CORP (Continued) **1000981331**

LTANKS:

Site ID:	320928
Spill Date:	03/20/96
Facility Addr2:	Not reported
Facility ID:	9516334
Program Number:	9516334
SWIS:	4301
Region of Spill:	2
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	03/20/96
CID:	13
Spill Cause:	Tank Overfill
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	03/20/96
Remediation Phase:	0
Date Entered In Computer:	03/20/96
Spill Record Last Update:	04/01/96
Spille Namer:	KEN PETERSON
Spiller Company:	EKLOF MARINE CORP
Spiller Phone:	(718) 720-7207
Spiller Extention:	Not reported
Spiller Address:	3245 RICHMOND TER
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller County:	001
Spiller Contact:	KEN PETERSON
Spiller Phone:	(718) 720-7207
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9516334
DER Facility ID:	258546
Site ID:	320928
Operable Unit ID:	1027300
Operable Unit:	01
Material ID:	564033
Material Code:	0003
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported

EKLOF MARINE CORP (Continued) **1000981331**

Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Start DECRemark - 9516334 Prior to Sept, 2004 data translation this spill Lead DEC Field was "MARTINKAT" SPOKE TO DOOLEY - SPILL CLEANED, SENDING CREW OUT. END DECRemark - 9516334
Remarks:	Start CallerRemark - 9516334 overflow of tank - contained END CallerRemark - 9516334

NY Spills:

Site ID:	191573
Facility Addr2:	Not reported
Facility ID:	9609968
Spill Number:	9609968
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	TOMASELLO
Referred To:	Not reported
Spill Date:	11/09/96
Reported to Dept:	11/09/96
CID:	13
Spill Cause:	Unknown
Water Affected:	KILL VAN KULL
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	02/24/03
Remediation Phase:	0
Date Entered In Computer:	11/09/96
Spill Record Last Update:	05/03/04
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Spiller Phone:	Not reported
Contact Name:	DRAGUTIN NIKOLIC
Contact Phone:	(718) 987-2269
DEC Region:	2
Program Number:	9609968
DER Facility ID:	283458
Site ID:	191573
Operable Unit ID:	1037897
Operable Unit:	01
Material ID:	342181
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM

EKLOF MARINE CORP (Continued) **1000981331**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9609968 west of pier #8 - cleanup company states to small to recover END CallerRemark - 9609968

Site ID:	271481
Facility Addr2:	Not reported
Facility ID:	9606749
Spill Number:	9606749
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	SMMARTIN
Referred To:	Not reported
Spill Date:	08/27/96
Reported to Dept:	08/27/96
CID:	13
Spill Cause:	Equipment Failure
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Federal Government
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	08/27/96
Remediation Phase:	0
Date Entered In Computer:	08/27/96
Spill Record Last Update:	09/23/96
Spiller Name:	THOMAS SULLIVAN
Spiller Company:	GOWANUS TRAAER - TANKER
Spiller Address:	3245 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY 10303-
Spiller Company:	001
Spiller Phone:	(718) 720-7207
Contact Name:	THOMAS SULLIVAN
Contact Phone:	(718) 720-7207
DEC Region:	2
Program Number:	9606749
DER Facility ID:	220946
Site ID:	271481
Operable Unit ID:	1037890
Operable Unit:	01
Material ID:	346018
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum

EKLOF MARINE CORP (Continued) **1000981331**

Quantity: 1.00
Units: Gallons
Recovered: 0.00
Resource Affected: Surface Water
Oxygenate: False
DEC Remarks: Start DECRemark - 9606749 Prior to Sept, 2004 data translation this spill Lead DEC Field was "MARTINKAT" 10:20 - TEAM ENROUTE AFTER PUMPING OUT CONTENTS TO BELOW PINHOLE, SHEENING STOPPED END DECRemark - 9606749
Remarks: Start CallerRemark - 9606749 THERE IS A PINHOLE LEAK IN THE #2 STORAGE TANK - CLEAN UP CREWS ARE ON SCENE AND THE LEAK IS APPROX 1 QUART OF DIESEL END CallerRemark - 9606749

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY MANIFEST:

Document ID: NYG1205352
Manifest Status: Not reported
Trans1 State ID: NYR000080549
Trans2 State ID: Not reported
Generator Ship Date: 04/09/2003
Trans1 Recv Date: 04/09/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 04/17/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0000968552
Trans1 EPA ID: NYD077444263
Trans2 EPA ID: Not reported
TSDF ID: 4A219
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00150
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 010
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03
Facility Type: Generator
EPA ID: NY0000968552
Facility Name: K SEA
Facility Address: 3245 RICHMOND TER
Facility City: STATEN ISLAND
Facility Zip 4: Not reported
Country: Not reported
County: RICHMOND
Mailing Name: K SEA TRANSPORTATION
Mailing Contact: CARL EKLOF JR
Mailing Address: 3245 RICHMOND TERR-POB 030316
Mailing City: STATEN ISLAND
Mailing State: NY
Mailing Zip: 10303
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-720-7207

Document ID: NJA3015764

EKLOF MARINE CORP (Continued) **1000981331**

Manifest Status:	Not reported
Trans1 State ID:	NJD986607380
Trans2 State ID:	Not reported
Generator Ship Date:	02/04/2000
Trans1 Recv Date:	02/04/2000
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/04/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968552
Trans1 EPA ID:	NJD002200046
Trans2 EPA ID:	Not reported
TSDF ID:	S50059
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00315
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	008
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00100
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	00150
Units:	P - Pounds
Number of Containers:	004
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	00
Facility Type:	Generator
EPA ID:	NY0000968552
Facility Name:	K SEA
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	K SEA TRANSPORTATION
Mailing Contact:	CARL EKLOF JR
Mailing Address:	3245 RICHMOND TERR-POB 030316
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-720-7207
Document ID:	NJA2762362
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	S5811
Trans2 State ID:	Not reported

EKLOF MARINE CORP (Continued) **1000981331**

Generator Ship Date:	971204
Trans1 Recv Date:	971204
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	971204
Part A Recv Date:	971223
Part B Recv Date:	980120
Generator EPA ID:	NY0000968552
Trans1 EPA ID:	NJ0000027193
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97
Facility Type:	Generator
EPA ID:	NY0000968552
Facility Name:	K SEA
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	K SEA TRANSPORTATION
Mailing Contact:	CARL EKLOF JR
Mailing Address:	3245 RICHMOND TERR-POB 030316
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-720-7207
Document ID:	NJA5074793
Manifest Status:	Not reported
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	06/22/2004
Trans1 Recv Date:	06/22/2004
Trans2 Recv Date:	06/29/2004
TSD Site Recv Date:	06/29/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968552
Trans1 EPA ID:	NYD000080549
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200

EKLOF MARINE CORP (Continued) **1000981331**

Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02000
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	04
Facility Type:	Generator
EPA ID:	NY0000968552
Facility Name:	K SEA
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	K SEA TRANSPORTATION
Mailing Contact:	CARL EKLOF JR
Mailing Address:	3245 RICHMOND TERR-POB 030316
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-720-7207

Document ID:	NJA5074808
Manifest Status:	Not reported
Trans1 State ID:	S10342
Trans2 State ID:	15499
Generator Ship Date:	05/26/2004
Trans1 Recv Date:	05/26/2004
Trans2 Recv Date:	06/02/2004
TSD Site Recv Date:	06/02/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968552
Trans1 EPA ID:	NYD000080549
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00200
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	04
Facility Type:	Generator
EPA ID:	NY0000968552
Facility Name:	K SEA
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	K SEA TRANSPORTATION

EKLOF MARINE CORP (Continued) **1000981331**

Mailing Contact:	CARL EKLOF JR
Mailing Address:	3245 RICHMOND TERR-POB 030316
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-720-7207

Document ID:	NJA5008595
Manifest Status:	Not reported
Trans1 State ID:	Not reported
Trans2 State ID:	50059
Generator Ship Date:	02/24/2004
Trans1 Recv Date:	02/24/2004
Trans2 Recv Date:	02/24/2004
TSD Site Recv Date:	02/24/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968552
Trans1 EPA ID:	NYD000080549
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	04
Facility Type:	Generator
EPA ID:	NY0000968552
Facility Name:	K SEA
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	K SEA TRANSPORTATION
Mailing Contact:	CARL EKLOF JR
Mailing Address:	3245 RICHMOND TERR-POB 030316
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-720-7207

Document ID:	NJA5086015
Manifest Status:	Not reported
Trans1 State ID:	Not reported
Trans2 State ID:	50059
Generator Ship Date:	04/01/2004
Trans1 Recv Date:	04/02/2004
Trans2 Recv Date:	04/02/2004
TSD Site Recv Date:	04/02/2004

EKLOF MARINE CORP (Continued) **1000981331**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968552
Trans1 EPA ID:	NJD986607380
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00300
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	04
Facility Type:	Generator
EPA ID:	NY0000968552
Facility Name:	K SEA
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	K SEA TRANSPORTATION
Mailing Contact:	CARL EKLOF JR
Mailing Address:	3245 RICHMOND TERR-POB 030316
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-720-7207

Document ID:	MAK7303980
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	11/13/1998
Trans1 Recv Date:	11/13/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/08/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968552
Trans1 EPA ID:	MA5000004713
Trans2 EPA ID:	Not reported
TSDF ID:	S5811
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00080
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	98
Facility Type:	Generator
EPA ID:	NY0000968552
Facility Name:	K SEA

EKLOF MARINE CORP (Continued) **1000981331**

Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	K SEA TRANSPORTATION
Mailing Contact:	CARL EKLOF JR
Mailing Address:	3245 RICHMOND TERR-POB 030316
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-720-7207
Document ID:	NJA2786153
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	04/30/1998
Trans1 Recv Date:	04/30/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/30/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968552
Trans1 EPA ID:	NJD002200046
Trans2 EPA ID:	Not reported
TSDF ID:	S5811
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00200
Units:	P - Pounds
Number of Containers:	002
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	98
Facility Type:	Generator
EPA ID:	NY0000968552
Facility Name:	K SEA
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	K SEA TRANSPORTATION
Mailing Contact:	CARL EKLOF JR
Mailing Address:	3245 RICHMOND TERR-POB 030316
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-720-7207
Document ID:	NJA2784560
Manifest Status:	Not reported

EKLOF MARINE CORP (Continued) **1000981331**

Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	01/29/1999
Trans1 Recv Date:	01/29/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/29/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968552
Trans1 EPA ID:	NJD002200046
Trans2 EPA ID:	Not reported
TSDF ID:	S5811
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99
Facility Type:	Generator
EPA ID:	NY0000968552
Facility Name:	K SEA
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	K SEA TRANSPORTATION
Mailing Contact:	CARL EKLOF JR
Mailing Address:	3245 RICHMOND TERR-POB 030316
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-720-7207

NY Hist Spills:

Region of Spill:	2
Spill Number:	9609968
Investigator:	TOMASELLO
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	11/09/1996 08:15
Reported to Dept Date/Time:	11/09/96 08:57
SWIS:	64
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Contact:	DRAGUTIN NIKOLIC
Spiller Phone:	(718) 987-2269
Spiller Address:	Not reported

EKLOF MARINE CORP (Continued) **1000981331**

Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: KILL VAN KULL
Spill Source: 12
Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 11/09/96
Date Spill Entered In Computer Data File: Not reported
Update Date: 11/18/96
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: west of pier 8 - cleanup company states to small to recover

Region of Spill: 2
Spill Number: 9606749
Investigator: MARTINKAT
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 08/27/1996 08:35
Reported to Dept Date/Time: 08/27/96 09:27
SWIS: 64
Spiller Name: GOWANUS TRAAER - TANKER

EKLOF MARINE CORP (Continued) **1000981331**

Spiller Contact:	THOMAS SULLIVAN
Spiller Phone:	(718) 720-7207
Spiller Contact:	THOMAS SULLIVAN
Spiller Phone:	(718) 720-7207
Spiller Address:	3245 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY 10303-
Spill Cause:	Equipment Failure
Reported to Dept:	Surface Water
Water Affected:	KILL VAN KULL
Spill Source:	10
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	08/27/96
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	08/27/96
Date Spill Entered In Computer Data File:	Not reported
Update Date:	09/23/96
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	1
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	DIESEL
Class Type:	DIESEL
Times Material Entry In File:	10625
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	10:20 - TEAM ENROUTE AFTER PUMPING OUT CONTENTS TO BELOW PINHOLE, SHEENING STOPPED
Remark:	THERE IS A PINHOLE LEAK IN THE 2 STORAGE TANK - CLEAN UP CREWS ARE ON SCENE AND THE LEAK IS APPROX 1 QUART OF DIESEL
Region of Spill:	2
Spill Number:	9606751
Investigator:	MARTINKAT
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported

EKLOF MARINE CORP (Continued) **1000981331**

Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	08/27/1996 08:35
Reported to Dept Date/Time:	08/27/96 10:07
SWIS:	64
Spiller Name:	EKLOF -VESSEL
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	3245 RICHMOND TERR
Spiller City,St,Zip:	STATTEN ISLAND, NY 13207-
Spill Cause:	Equipment Failure
Reported to Dept:	Surface Water
Water Affected:	KILLVAN KULL
Spill Source:	10
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	08/27/96
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	08/27/96
Date Spill Entered In Computer Data File:	Not reported
Update Date:	09/23/96
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	1
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	1
Unkonwn Quantity Recovered:	False
Material:	UNKNOWN PETROLEUM
Class Type:	UNKNOWN PETROLEUM
Times Material Entry In File:	16414
CAS Number:	Not reported
Last Date:	19940929
DEC Remarks:	Not reported
Remark:	vessel had pin hole leak in cargo hold
Region of Spill:	2
Spill Number:	9806084
Investigator:	SIGONA

EKLOF MARINE CORP (Continued) **1000981331**

Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	08/17/1998 08:45
Reported to Dept Date/Time:	08/17/98 09:47
SWIS:	64
Spiller Name:	EKLOF MARINE
Spiller Contact:	TOM SULLIVAN
Spiller Phone:	(718) 720-7202
Spiller Contact:	TOM SULLIVAN
Spiller Phone:	(718) 720-7207
Spiller Address:	3245 RICHMOND TERRANCE
Spiller City,St,Zip:	STATEN ISLAND, NY
Spill Cause:	Equipment Failure
Reported to Dept:	Surface Water
Water Affected:	KILL VAN KULL
Spill Source:	10
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	08/18/98
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	08/17/98
Date Spill Entered In Computer Data File:	Not reported
Update Date:	08/19/98
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	True
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207

DEC Remarks: DEC Sigona) responded and arrived at 11:15 A.M. on 8/17/98. Met with Tom

EKLOF MARINE CORP (Continued) **1000981331**

Sullivan and inspected Chem Trader docked at Clean Harbors, Inc. The engineer reported water bottoms in the vessel s fuel tank while performing daily inventory. The stick hole is 3-5 from the bottom. Found clear water and reported to USCG marine inspection unit. There was no evidence of a release or leak form the tank. The tank is 3267 gallons inside the hull of small tanker. Eklof removed all the fuel inside thetank 2300 gallons) including the water. Could not locate leak by internal inspection. Eklof will pressure teste with soapy water inaccordance with USCG guidance. USCG also required they deploy an absorbant sweep around the tanker until leak isrepaired. DEC Sigona) observed clean sweep in water. left site at 12:00 noon. - P.O. GLASS @ 10:03 RPTS- UNKNOWN HOW MUCH PRODUCT IS SPILLED TEAM STILL INROUTE. VESSEL IS DOCKED @ MARINE

Remark: VESSEL CHEM TRADER. HOLE IN BUNKER TANK. VESSEL TAKING ON WATER. 3000 GALLONS OF PRODUCT ON VESSEL. UNKNOWN HOW MUCH HAS SPILLED IF ANY. US COAST GAURD TEAM ENROUTE.

Region of Spill:	2
Spill Number:	9504814
Investigator:	TANG
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	07/20/1995 12:15
Reported to Dept Date/Time:	07/20/95 12:56
SWIS:	64
Spiller Name:	CLEAN WATERS
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	SAME
Spiller City,St,Zip:	Not reported
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	Affected Persons
PBS Number:	Not reported
Cleanup Ceased:	07/20/95
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	07/20/95
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	08/16/95
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False
PBS Number:	Not reported

EKLOF MARINE CORP (Continued) **1000981331**

Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	1
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	1
Unkonwn Quantity Recovered:	False
Material:	#6 FUEL OIL
Class Type:	#6 FUEL OIL
Times Material Entry In File:	2190
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	Not reported
Remark:	SPILL ABOUT 1 QUART - CLEANED UP -CALLED DENNIS LUBA, CONFIRMED THAT IT WAS A MINOR SPILL BEING CLEAN UP. CALLED USCG, CONFIRMED THAT THEY ARE RESPONDING - NO ACTION FROM DEC

HIST LTANKS:

Region of Spill:	2
Spill Number:	9516334
Investigator:	MARTINKAT
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	03/20/1996
Spill Time:	08:30
Reported to Department Date:	03/20/96
Reported to Department Time:	09:06
SWIS:	64
Spiller Contact:	KEN PETERSON
Spiller Phone:	(718) 720-7207
Spiller Extention:	Not reported
Spiller Name:	EKLOF MARINE CORP
Spiller Address:	3245 RICHMOND TER
Spiller City,St,Zip:	STATEN ISLAND, NY
Facility Contact:	KEN PETERSON
Facility Phone:	(718) 720-7207
Facility Extention:	Not reported
Spill Cause:	Tank Overfill
Resource Affectd:	Surface Water
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended

EKLOF MARINE CORP (Continued) **1000981331**

Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 03/20/96
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 03/20/96
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 04/01/96
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: #6 FUEL OIL
Class Type: #6 FUEL OIL
Times Material Entry In File: 2190
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: SPOKE TO DOOLEY - SPILL CLEANED, SENDING CREW OUT.
Spill Cause: overflow of tank - contained

F46
NW
1/8-1/4
870 ft.

CLEAN WATER OF NY INC **NY MANIFEST** **1009228804**
3245 RICHMOND TER **N/A**
NEW YORK, NY 10303

Site 5 of 7 in cluster F

Relative:
Higher

NY MANIFEST:
No Manifest Records Available

Actual:
13 ft.

F47
NW
1/8-1/4
870 ft.

3245 RICHMOND TERRACE **NY LTANKS** **S100560642**
3245 RICHMOND TERRACE **NY Spills** **N/A**
STATEN ISLAND, NY **NY Hist Spills**
NY HIST LTANKS

Site 6 of 7 in cluster F

Relative:
Higher

LTANKS:
Site ID: 271468
Spill Date: 09/05/93
Facility Addr2: Not reported
Facility ID: 9306891
Program Number: 9306891
SWIS: 4301
Region of Spill: 2

Actual:
13 ft.

3245 RICHMOND TERRACE (Continued) **S100560642**

Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	09/05/93
CID:	13
Spill Cause:	Tank Overfill
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	09/05/93
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	09/05/93
Remediation Phase:	0
Date Entered In Computer:	09/09/93
Spill Record Last Update:	09/30/04
Spille Namer:	Not reported
Spiller Company:	SAME
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9306891
DER Facility ID:	220946
Site ID:	271468
Operable Unit ID:	988053
Operable Unit:	01
Material ID:	393176
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9306891 OVERFILLED TANK - GASOLINE/WATER MIXTURE ON DECK

3245 RICHMOND TERRACE (Continued) **S100560642**

LITTLE GOT IN WATER VACUMMED UP - NO CALL BACK END CallerRemark - 9306891

Site ID:	271473
Spill Date:	07/11/95
Facility Addr2:	Not reported
Facility ID:	9504323
Program Number:	9504323
SWIS:	4301
Region of Spill:	2
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	07/11/95
CID:	13
Spill Cause:	Tank Overfill
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Affected Persons
Cleanup Ceased:	07/11/95
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	07/11/95
Remediation Phase:	0
Date Entered In Computer:	08/07/95
Spill Record Last Update:	09/30/04
Spille Namer:	Not reported
Spiller Company:	UNKNOWN
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9504323
DER Facility ID:	220946
Site ID:	271473
Operable Unit ID:	1018800
Operable Unit:	01
Material ID:	365829
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30.00
Units:	Gallons
Recovered:	15.00
Resource Affected:	Surface Water
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported

3245 RICHMOND TERRACE (Continued) **S100560642**

Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Start DECRemark - 9504323 Prior to Sept, 2004 data translation this spill Lead DEC Field was "MARTINKAT" END DECRemark - 9504323
Remarks:	Start CallerRemark - 9504323 LEAK FROM AN UNMANNED BARGE, "CASABLANCA", FOR UNKNOWN REASON -REFERED TO COAST GUARD - PO ARMSTRONG TOOK INFORMATION - CG IS SENDING OUT TEAM. END CallerRemark - 9504323
Site ID:	271478
Spill Date:	11/07/95
Facility Addr2:	Not reported
Facility ID:	9509773
Program Number:	9509773
SWIS:	4301
Region of Spill:	2
Investigator:	NIEVES
Referred To:	Not reported
Reported to Dept:	11/07/95
CID:	13
Spill Cause:	Tank Failure
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/07/95
Remediation Phase:	0
Date Entered In Computer:	11/07/95
Spill Record Last Update:	12/04/95
Spille Namer:	KEN PETERSON
Spiller Company:	EKLOF MARINE CORPORATION
Spiller Phone:	(718) 720-7207
Spiller Extention:	Not reported
Spiller Address:	3245 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY 10303-
Spiller County:	001
Spiller Contact:	KEN PETERSON
Spiller Phone:	(718) 720-7207
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9509773
DER Facility ID:	220946
Site ID:	271478
Operable Unit ID:	1020194
Operable Unit:	01
Material ID:	360709
Material Code:	0008

3245 RICHMOND TERRACE (Continued) **S100560642**

Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	Gallons
Recovered:	2.00
Resource Affected:	Surface Water
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9509773 SPILLER WAS DISCHARGING WATER FROM BALLAST TANK TO PERFORM AN INSPECTION, AND OIL WAS FOUND IN WATER. DISCHARGED INTO KILL VAN KULL. SPILL CONTAINED BY BOOMS. CLEAN UP IN PROGRESS. NRC & USCG ALSO NOTIFIED. END CallerRemark - 9509773

NY Spills:

Site ID:	271464
Facility Addr2:	Not reported
Facility ID:	9210488
Spill Number:	9210488
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	CAMMISA
Referred To:	Not reported
Spill Date:	12/11/92
Reported to Dept:	12/11/92
CID:	13
Spill Cause:	Unknown
Water Affected:	KILL VAN KULL
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	12/11/92
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/11/92
Remediation Phase:	0
Date Entered In Computer:	12/15/92
Spill Record Last Update:	09/30/04
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001

3245 RICHMOND TERRACE (Continued) **S100560642**

Spiller Phone:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	9210488
DER Facility ID:	220946
Site ID:	271464
Operable Unit ID:	974738
Operable Unit:	01
Material ID:	403947
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9210488 WEATHER ,SEEM TO BE COLLECTORS OILY SHEEN AT AREA NRC WAS NOTIFIED USCG PLANS NO RESPONSE END CallerRemark - 9210488

Site ID:	271469
Facility Addr2:	Not reported
Facility ID:	9310946
Spill Number:	9310946
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	KSTANG
Referred To:	Not reported
Spill Date:	12/09/93
Reported to Dept:	12/09/93
CID:	13
Spill Cause:	Unknown
Water Affected:	KILL VAN KULL
Spill Source:	Unknown
Spill Notifier:	Federal Government
Cleanup Ceased:	12/09/93
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/09/93
Remediation Phase:	0
Date Entered In Computer:	12/10/93
Spill Record Last Update:	09/30/04
Spiller Name:	Not reported
Spiller Company:	SUSPECT BAY VIEW AUTO
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Spiller Phone:	Not reported

3245 RICHMOND TERRACE (Continued) **S100560642**

Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
Program Number:	9310946
DER Facility ID:	220946
Site ID:	271469
Operable Unit ID:	992820
Operable Unit:	01
Material ID:	390008
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Start DECRemark - 9310946 Prior to Sept, 2004 data translation this spill Lead DEC Field was "TANG" 10/10/95: This is additional information about material spilled from the translation of the old spill file: SHEEN. END DECRemark - 9310946
Remarks:	Start CallerRemark - 9310946 USCG TO SEND TEAM - CALLED CRISCIONE & USCG BACK, SAID THAT IT IS OIL SHEEN OF UNKNOWN ORIGINAL, NO BIG SPILL - CLOSE. END CallerRemark - 9310946

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number:	9210488
Investigator:	CAMMISA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	12/11/1992 10:00
Reported to Dept Date/Time:	12/11/92 10:21
SWIS:	64
Spiller Name:	Not reported
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	Surface Water
Water Affected:	KILL VAN KULL
Spill Source:	12
Spill Notifier:	Affected Persons
PBS Number:	Not reported
Cleanup Ceased:	12/11/92
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended

3245 RICHMOND TERRACE (Continued) **S100560642**

Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 12/11/92
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 12/15/92
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: WEATHER ,SEEM TO BE COLLECTORS OILY SHEEN AT AREA NRC WAS NOTIFIED USCG PLANS NO RESPONSE

Region of Spill: 2
Spill Number: 9310946
Investigator: TANG
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 12/09/1993 09:20
Reported to Dept Date/Time: 12/09/93 10:06
SWIS: 64
Spiller Name: SUSPECT BAY VIEW AUTO
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: KILL VAN KULL
Spill Source: 12
Spill Notifier: Federal Government
PBS Number: Not reported

3245 RICHMOND TERRACE (Continued) **S100560642**

Cleanup Ceased: 12/09/93
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 12/09/93
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 12/10/93
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: SHEEN.
Remark: USCG TO SEND TEAM - CALLED CRISCIONE USCG BACK, SAID THAT IT IS OIL SHEEN OF UNKNOWN ORIGINAL, NO BIG SPILL - CLOSE.

Region of Spill: 2
Spill Number: 9508505
Investigator: MULQUEEN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 10/11/1995 15:15
Reported to Dept Date/Time: 10/11/95 15:45
SWIS: 64
Spiller Name: EKLOF MARINE BARGE DBL151
Spiller Contact: KEN PETERSON
Spiller Phone: Not reported
Spiller Contact: KEN PETERSON
Spiller Phone: (718) 720-7207

3245 RICHMOND TERRACE (Continued) **S100560642**

Spiller Address: 3245 RICHMOND TERRACE
Spiller City,St,Zip: STATEN ISLAND, NY
Spill Cause: Equipment Failure
Reported to Dept: Surface Water
Water Affected: KILL VAN KULL RIVER
Spill Source: 10
Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: 10/11/95
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/12/95
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 10/11/95
Date Spill Entered In Computer Data File: Not reported
Update Date: 11/08/95
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 2
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: OTHER PETROLEUM
Class Type: OTHER PETROLEUM
Times Material Entry In File: 996
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: abandoned vessel in the kill van kull river on north side of staten island unk petro produce is leaking from the vessel - causing a sheen on the water req a call from a dec rep

Region of Spill: 2
Spill Number: 9508510
Investigator: MULQUEEN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 10/11/1995 15:15

3245 RICHMOND TERRACE (Continued) **S100560642**

Reported to Dept Date/Time:	10/11/95 16:11
SWIS:	64
Spiller Name:	EKLOF MARINE BARGE DBL151
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Contact:	KEN PETERSON
Spiller Phone:	(718) 720-7207
Spiller Address:	3245 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY
Spill Cause:	Other
Reported to Dept:	Surface Water
Water Affected:	KILLVAN KULL
Spill Source:	10
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	10/11/95
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/12/95
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	10/11/95
Date Spill Entered In Computer Data File:	Not reported
Update Date:	11/08/95
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	3
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	True
Material:	DIESEL
Class Type:	DIESEL
Times Material Entry In File:	10625
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	Not reported
Remark:	BARGE LEAKED PRODUCT

Region of Spill:	2
Spill Number:	9605770
Investigator:	MARTINKAT
Caller Name:	Not reported
Caller Agency:	Not reported

3245 RICHMOND TERRACE (Continued) **S100560642**

Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	08/05/1996 08:45
Reported to Dept Date/Time:	08/05/96 09:41
SWIS:	64
Spiller Name:	CLEAN WATER OF NY
Spiller Contact:	ROBERT PROBST
Spiller Phone:	(718) 981-4600
Spiller Contact:	SR CHIEF ALHEIM
Spiller Phone:	(212) 668-7920
Spiller Address:	3245 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY 10303-
Spill Cause:	Housekeeping
Reported to Dept:	Surface Water
Water Affected:	NEWARK BAY
Spill Source:	01
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	08/05/96
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	08/05/96
Date Spill Entered In Computer Data File:	Not reported
Update Date:	09/03/96
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	1
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#6 FUEL OIL
Class Type:	#6 FUEL OIL
Times Material Entry In File:	2190
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	Not reported
Remark:	FUEL OIL GOT WASHED OFF THE PIER AND THE SPILL IS NOW BEING CLEANED UP

3245 RICHMOND TERRACE (Continued) **S100560642**

HIST LTANKS:

Region of Spill:	2
Spill Number:	9306891
Investigator:	O'DOWD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	09/05/1993
Spill Time:	15:00
Reported to Department Date:	09/05/93
Reported to Department Time:	15:15
SWIS:	64
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Cause:	Tank Overfill
Resource Affectd:	Surface Water
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	09/05/93
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	09/05/93
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	09/09/93
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	/ /
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	10

3245 RICHMOND TERRACE (Continued) **S100560642**

Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: GASOLINE/WATER MIXTU.
Spill Cause: OVERFILLED TANK - GASOLINE/WATER MIXTURE ON DECK LITTLE GOT IN WATER VACUMMED UP - NO CALL BACK

Region of Spill: 2
Spill Number: 9504323
Investigator: MARTINKAT
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Spill Date: 07/11/1995
Spill Time: 09:35
Reported to Department Date: 07/11/95
Reported to Department Time: 10:34
SWIS: 64
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Cause: Tank Overfill
Resource Affectd: Surface Water
Water Affected: KILL VAN KULL
Spill Source: Vessel
Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: 07/11/95
Cleanup Meets Standard: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 07/11/95
Date Region Sent Summary to Central Office: / /

3245 RICHMOND TERRACE (Continued) **S100560642**

Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	08/07/95
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	/ /
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	30
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	15
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	Not reported
Spill Cause:	LEAK FROM AN UNMANNED BARGE, CASABLANCA , FOR UNKNOWN REASON -REFERED TO COAST GUARD - PO ARMSTRONG TOOK INFORMATION - CG IS SENDING OUT TEAM.

Region of Spill:	2
Spill Number:	9509773
Investigator:	NIEVES
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	11/07/1995
Spill Time:	07:50
Reported to Department Date:	11/07/95
Reported to Department Time:	08:26
SWIS:	64
Spiller Contact:	KEN PETERSON
Spiller Phone:	(718) 720-7207
Spiller Extention:	Not reported
Spiller Name:	EKLOF MARINE CORPORATION
Spiller Address:	3245 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY 10303-
Facility Contact:	KEN PETERSON
Facility Phone:	(718) 720-7207
Facility Extention:	Not reported
Spill Cause:	Tank Failure
Resource Affectd:	Surface Water
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Responsible Party
PBS Number:	Not reported

3245 RICHMOND TERRACE (Continued) **S100560642**

Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/07/95
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	11/07/95
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	12/04/95
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	2
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	2
Unkonwn Quantity Recovered:	False
Material:	DIESEL
Class Type:	DIESEL
Times Material Entry In File:	10625
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	1/2 gall spilled - coast guard arrived at 10:00 when the cleanup was taking place
Spill Cause:	SPILLER WAS DISCHARGING WATER FROM BALLAST TANK TO PERFORM AN INSPECTION, AND OIL WAS FOUND IN WATER. DISCHARGED INTO KILL VAN KULL. SPILL CONTAINED BY BOOMS. CLEAN UP IN PROGRESS. NRC USCG ALSO NOTIFIED.

F48 **CLEAN WATER OF NY INCORPORATED** **RCRA-SQG** **1000981330**
NW **3245 RICHMOND TERRACE** **FINDS** **NY0000968545**
1/8-1/4 **STATEN ISLAND, NY 10303** **NY MANIFEST**
870 ft.

Site 7 of 7 in cluster F

Relative:
Higher

Actual:
13 ft.

CLEAN WATER OF NY INCORPORATED (Continued) **1000981330**

RCRAInfo:
Owner: EGRET REALTY INC
(718) 720-7207
EPA ID: NY0000968545

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

Document ID:	ILA1448787
Manifest Status:	Not reported
Trans1 State ID:	UPW151288
Trans2 State ID:	Not reported
Generator Ship Date:	03/30/2004
Trans1 Recv Date:	03/30/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/15/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968545
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported

CLEAN WATER OF NY INCORPORATED (Continued) **1000981330**

TSDF ID:	ILD980613
Waste Code:	F005 - UNKNOWN
Quantity:	00036
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	04
Facility Type:	Both Generator and TSD
EPA ID:	NY0000968545
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	Not reported
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported
Facility Type:	TSD
EPA ID:	NYN200000037
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600
Facility Type:	TSD
EPA ID:	NYN200000073
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND

CLEAN WATER OF NY INCORPORATED (Continued) **1000981330**

Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600
Facility Type:	TSD
EPA ID:	NYN000968545
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600

Document ID:	NYC7376771
Manifest Status:	Not reported
Trans1 State ID:	NYMT9390
Trans2 State ID:	Not reported
Generator Ship Date:	04/27/2004
Trans1 Recv Date:	04/27/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/28/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968545
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000708
Waste Code:	D039 - TETRACHLOROETHYLENE 0.73 MG/L TCLP
Quantity:	00024
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	04
Facility Type:	Both Generator and TSD
EPA ID:	NY0000968545
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND

CLEAN WATER OF NY INCORPORATED (Continued) **1000981330**

Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	Not reported
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported
Facility Type:	TSD
EPA ID:	NYN200000037
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600
Facility Type:	TSD
EPA ID:	NYN200000073
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600
Facility Type:	TSD
EPA ID:	NYN000968545

CLEAN WATER OF NY INCORPORATED (Continued) **1000981330**

Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600
Document ID:	NYC7376782
Manifest Status:	Not reported
Trans1 State ID:	NYMT9390
Trans2 State ID:	Not reported
Generator Ship Date:	04/27/2004
Trans1 Recv Date:	04/27/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/28/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000968545
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000708
Waste Code:	D039 - TETRACHLOROETHYLENE 0.73 MG/L TCLP
Quantity:	00015
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Waste Code:	D039 - TETRACHLOROETHYLENE 0.73 MG/L TCLP
Quantity:	00005
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	04
Facility Type:	Both Generator and TSD
EPA ID:	NY0000968545
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND

CLEAN WATER OF NY INCORPORATED (Continued) **1000981330**

Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	Not reported
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported
Facility Type:	TSD
EPA ID:	NYN200000037
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600
Facility Type:	TSD
EPA ID:	NYN200000073
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC
Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600
Facility Type:	TSD
EPA ID:	NYN000968545
Facility Name:	CLEAN WATER OF NEW YORK INC
Facility Address:	3245 RICHMOND TER
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	RICHMOND
Mailing Name:	CLEAN WATER OF NEW YORK INC

CLEAN WATER OF NY INCORPORATED (Continued) **1000981330**

Mailing Contact:	ED ELZER
Mailing Address:	3245 RICHMOND TER
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10303
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-981-4600

G49 **EGRET REALTY CORPORATION** **NY UST** **U003297819**
NW **3247 RICHMOND TERRACE** **NY HIST UST** **N/A**
1/8-1/4 **NEW YORK CITY, NY 10303**
898 ft.

Site 1 of 3 in cluster G

Relative: Higher

Actual: 13 ft.

UST:

Facility ID:	2-603360
Program Type:	PBS
Facility Addr2:	Not reported
Locality:	STATEN ISLAND
SWIS Code:	4101
DEC Region:	2
Registered:	1
Expiration Date:	3/6/2003
Site Status:	Unregulated (<1101 gallons)
Site Type:	Unknown
Above Ground Tanks:	No
Under Ground Tanks:	No

HIST UST:

PBS Number:	2-603360
SPDES Number:	Not reported
Emergency Contact:	ROBERT A. PROBST
Emergency Telephone:	(718) 981-4600
Operator:	ROBERT A. PROBST
Operator Telephone:	(718) 981-4600
Owner Name:	EGRET REALTY CORPORATION
Owner Address:	P. O. BOX 030316- 3245 RICHMOND TERRACE
Owner City,St,Zip:	STATEN ISLAND, NY 10303-0316
Owner Telephone:	(000) 000-0000
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	CLEAN WATER ON N.Y. INC.
Mailing Address:	P. O. BOX 030312
Mailing Address 2:	3249 RICHMOND TERRACE
Mailing City,St,Zip:	STATEN ISLAND, NY 10303-0312
Mailing Contact:	ROBERT A. PROBST
Mailing Telephone:	(718) 981-4600
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
Tank Id:	001
Tank Location:	UNDERGROUND
Install Date:	Not reported
Capacity (gals):	4000
Product Stored:	DIESEL

EGRET REALTY CORPORATION (Continued) **U003297819**

Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	0
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Lat/long:	Not reported
SWIS ID:	6301
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	Not reported
Expiration Date:	03/06/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	No Missing Data
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	63
Town or City:	01
Region:	2

G50 **CLEAN WATER OF NEW YORK; INC.** **NY SWF/LF** **S105912841**
NW **3249 RICHMOND TERRACE** **NY Spills** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10303**
931 ft.

Site 2 of 3 in cluster G

Relative:
Higher

Actual:
13 ft.

SWF/LF:

Flag:	ACTIVE
Secondary Addr:	P.O. BOX 030316
Region Code:	2
Phone Number:	7189814600
Owner Name:	Clean Water of New York Inc
Owner Type:	Private
Owner Address:	3249 Richmond Terrace

CLEAN WATER OF NEW YORK; INC. (Continued) **S105912841**

Owner Addr2:	P.O. Box 030312
Owner City,St,Zip:	Staten Island, NY 10303-0312
Owner Email:	Not reported
Owner Phone:	7189814600
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	0
Contact Email:	Not reported
Contact Phone:	0
Activity Desc:	Waste oil storage; reprocessing or rerefining facility
Activity Number:	43O07
Active:	Yes
East Coordinate:	570256
North Coordinate:	4499293
Accuracy Code:	Not reported
Regulatory Status:	SAPA
Waste Type:	Not reported
Authorization #:	2-6401-00065/00001
Authorization Date:	12/17/1997
Expiration Date:	12/17/2000

NY Spills:

Site ID:	334942
Facility Addr2:	Not reported
Facility ID:	0410062
Spill Number:	0410062
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	CESAWYER
Referred To:	Not reported
Spill Date:	12/09/04
Reported to Dept:	12/09/04
CID:	77
Spill Cause:	Equipment Failure
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Local Agency
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	12/20/04
Remediation Phase:	0
Date Entered In Computer:	12/10/04
Spill Record Last Update:	12/20/04
Spiller Name:	BOB SALERNO
Spiller Company:	CLEAN WATER OF NEW YORK
Spiller Address:	3249 RICHMOND TERRAC
Spiller City,St,Zip:	STATEN ISLAND, NY 10303
Spiller Company:	001
Spiller Phone:	(718) 981-4600
Contact Name:	BOB SALERNO
Contact Phone:	(718) 981-4600

CLEAN WATER OF NEW YORK; INC. (Continued) **S105912841**

DEC Region:	2
Program Number:	0410062
DER Facility ID:	270175
Site ID:	334942
Operable Unit ID:	1097052
Operable Unit:	01
Material ID:	576962
Material Code:	0016A
Material Name:	NON PCB OIL
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	200.00
Units:	Gallons
Recovered:	180.00
Resource Affected:	Surface Water
Oxygenate:	False
DEC Remarks:	Start DECRemark - 0410062 12/20/04 - Sawyer - Received manifest and disposal ticket for cleanup debris. No further action needed. Closed. END DECRemark - 0410062
Remarks:	Not reported

Site ID:	352332
Facility Addr2:	Not reported
Facility ID:	0507013
Spill Number:	0507013
Facility Type:	ER
SWIS:	4301
Region of Spill:	2
Investigator:	SMSANGES
Referred To:	Not reported
Spill Date:	09/09/05
Reported to Dept:	09/09/05
CID:	13
Spill Cause:	Equipment Failure
Water Affected:	KILL-VAN-KULL
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	09/09/05
Remediation Phase:	0
Date Entered In Computer:	09/09/05
Spill Record Last Update:	09/09/05
Spiller Name:	BOB SALERNO
Spiller Company:	CLEAR WATER
Spiller Address:	3249 RICHMOND TERRACE
Spiller City,St,Zip:	STATEN ISLAND, NY 10303
Spiller Company:	001
Spiller Phone:	(718) 981-4600
Contact Name:	BOB SALERNO
Contact Phone:	(718) 981-4600
DEC Region:	2

CLEAN WATER OF NEW YORK; INC. (Continued) **S105912841**

Program Number: 0507013
DER Facility ID: 168856
Site ID: 352332
Operable Unit ID: 1109836
Operable Unit: 01
Material ID: 2099854
Material Code: 0003
Material Name: #6 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0.00
Units: Gallons
Recovered: 1.00
Resource Affected: Surface Water
Oxygenate: False
DEC Remarks: Not reported
Remarks: Start CallerRemark - 0507013 LESS THAN ONE GALLON HOWEVER IT HAS BEEN CLEANED UP END CallerRemark - 0507013

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

G51 **TERRACE TRANSPORTATION** **RCRA-SQG** **1001968875**
NW **3249 RICHMOND TER** **FINDS** **NYR000080549**
1/8-1/4 **STATEN ISLAND, NY 10303**
931 ft.

Site 3 of 3 in cluster G

Relative: Higher

Actual: 13 ft.

RCRAInfo:
Owner: TERRACE TRANSPORTATION
(718) 981-4600
EPA ID: NYR000080549

Contact: MIKE RENZI
(718) 981-4600

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site

MD-EPSC (Maryland - Environmental Permit Service Center) promotes multi-media pollution prevention and provides permit assistance to business and industries. An online permit guide is available and lists all permits, licenses and approvals that are issued by MDE.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

52
SE
1/8-1/4
1057 ft.

2901 / 2945 RICHMOND TERR
STATEN ISLAND, NY

NY LTANKS **S105054549**
NY HIST LTANKS **N/A**

Relative:
Higher

Actual:
12 ft.

LTANKS:

Site ID:	125041
Spill Date:	12/15/00
Facility Addr2:	Not reported
Facility ID:	0010565
Program Number:	0010565
SWIS:	4301
Region of Spill:	2
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	12/20/00
CID:	233
Spill Cause:	Tank Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Remediation Phase:	1
Date Entered In Computer:	12/20/00
Spill Record Last Update:	04/19/04
Spille Namer:	PAUL STEWART
Spiller Company:	STORAGE BIN INC.
Spiller Phone:	(631) 293-4992
Spiller Extention:	Not reported
Spiller Address:	2541 RICHMOND TERR
Spiller City,St,Zip:	STATEN ISLAND, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	0010565
DER Facility ID:	108195
Site ID:	125041
Operable Unit ID:	831705
Operable Unit:	01
Material ID:	544462
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
Site ID:	Not reported

(Continued) **S105054549**

Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Start DECRemark - 0010565 Prior to Sept, 2004 data translation this spill Lead DEC Field was "MARTINKAT" 01/26/04 Transferred from Rommel to Austin 02/17/04: Reassigned from AUSTIN to KRIMGOLD. 04/19/04 REASSIGNED TO MARTINKAT END DECRemark -0010565
Remarks:	Start CallerRemark - 0010565 tanks were removed and soil found to be contaminated tanks were found to be to have holes the delay in reporting was due to each party thinking the other would report it to dec this site is already involved in aclean up project w/ dec END CallerRemark - 0010565

HIST LTANKS:

Region of Spill:	2
Spill Number:	0010565
Investigator:	ROMMEL
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	12/15/2000
Spill Time:	12:00
Reported to Department Date:	12/20/00
Reported to Department Time:	12:18
SWIS:	64
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	STORAGE BIN INC.
Spiller Address:	2541 RICHMOND TERR
Spiller City,St,Zip:	STATEN ISLAND
Facility Contact:	PAUL STEWART
Facility Phone:	(631) 293-4992
Facility Extention:	Not reported
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /

(Continued) **S105054549**

UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 12/20/00
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 12/20/00
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: tanks were removed and soil found to be contaminated tanks were found to be to have holes the delay in reporting was due to each party thinking the other would report it to dec this site is already involved in a clean up project w/ dec

---

H53
South
1/8-1/4
1141 ft.

Relative:
Higher

Actual:
41 ft.

EAST WEST NORTH & SOUTH TRANSPORT INC **NY MANIFEST** **1009228786**
60 DAVIDSON ST **N/A**
STATEN ISLAND, NY 10303

Site 1 of 2 in cluster H

NY MANIFEST:
No Manifest Records Available

H54
South
1/8-1/4
1141 ft.

Relative:
Higher

Actual:
41 ft.

SOTS LEASING CORP **NY SWF/LF** **S105842317**
60 DAVIDSON STREET **NY SWRCY** **N/A**
STATEN ISLAND, NY 10303

Site 2 of 2 in cluster H

SWF/LF:
Flag: INACTIVE
Secondary Addr: Not reported
Region Code: 2
Phone Number: 7188760004
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported

SOTS LEASING CORP (Continued) **S105842317**

Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	MICHAEL SCERBO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Source separated solid waste recyclables
Activity Number:	43M44
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

SWRCY:

Region:	2
Facility Address 2:	Not reported
Phone Number:	7188760004
Owner Type:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	MICHAEL SCERBO
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Source separated solid waste recyclables
Activity Number:	43M44
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Permit #:	Not reported
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Not reported

55 WNW 1/8-1/4 1201 ft.

3280 RICHMOND TERRACE
3280 RICHMOND TERRACE
S.I., NY

NY LTANKS **S100153356**
NY HIST LTANKS **N/A**

Relative: Higher

Actual: 13 ft.

LTANKS:

Site ID:	296310
Spill Date:	08/13/91
Facility Addr2:	Not reported
Facility ID:	9105186
Program Number:	9105186
SWIS:	4301
Region of Spill:	2
Investigator:	SJMILLER
Referred To:	Not reported
Reported to Dept:	08/13/91
CID:	13
Spill Cause:	Tank Failure
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Local Agency
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/25/03
Remediation Phase:	0
Date Entered In Computer:	08/20/91
Spill Record Last Update:	11/25/03
Spille Namer:	Not reported
Spiller Company:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9105186
DER Facility ID:	239778
Site ID:	296310
Operable Unit ID:	955815
Operable Unit:	01
Material ID:	421001
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Pounds
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
Site ID:	Not reported

3280 RICHMOND TERRACE (Continued) **S100153356**

Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Start DECRemark - 9105186 Prior to Sept, 2004 data translation this spill Lead DEC Field was "MILLER" END DECRemark - 9105186
Remarks:	Start CallerRemark - 9105186 UST LEAK; MULTIPLE DWELLING; OIL BUBBLING UP IN BACKYARD. FD ON SCENE END CallerRemark - 9105186

HIST LTANKS:

Region of Spill:	2
Spill Number:	9105186
Investigator:	MILLER
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	08/13/1991
Spill Time:	16:00
Reported to Department Date:	08/13/91
Reported to Department Time:	16:30
SWIS:	64
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Local Agency
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /

3280 RICHMOND TERRACE (Continued) **S100153356**

Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 08/20/91
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 09/10/91
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Spill Cause: UST LEAK; MULTIPLE DWELLING; OIL BUBBLING UP IN BACKYARD. FD ON SCENE

I56 **NEW YORK FIRE DEPT ENGINE 158** **RCRA-SQG** **1001405134**
SE **65 HARBOR RD** **FINDS** **NYR000065847**
1/8-1/4 **STATEN ISLAND, NY 10303** **NY MANIFEST**
1293 ft.

Site 1 of 2 in cluster I

Relative: Higher

Actual: 30 ft.

RCRAInfo:
Owner: FIRE DEPT
(718) 999-2929
EPA ID: NYR000065847

Contact: THOMAS GALVIN
(718) 999-2929

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

NEW YORK FIRE DEPT ENGINE 158 (Continued) **1001405134**

Document ID:	NYG1059255
Manifest Status:	Not reported
Trans1 State ID:	NYD077444263
Trans2 State ID:	Not reported
Generator Ship Date:	03/09/1999
Trans1 Recv Date:	03/09/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/11/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000065847
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	PD1011NY
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00300
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	99
Facility Type:	Generator
EPA ID:	NYR000065847
Facility Name:	NYCFD
Facility Address:	ENGINE 158
Facility City:	STATEN ISLAND
Facility Zip 4:	Not reported
Country:	Not reported
County:	NEW YORK
Mailing Name:	NYCFD
Mailing Contact:	GERRALD TALT
Mailing Address:	6 METRO TECH CTR
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11201
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	718-274-3339

I57 **ENGINE COMPANY 158** **NY AST** **U003178509**
SSE **65 HARBOR ROAD** **NY HIST AST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10303** **NY HIST UST**
1293 ft.

Site 2 of 2 in cluster I

Relative:
Higher

Actual:
30 ft.

AST:

Facility ID:	2-358347
Program Type:	PBS
Facility Addr2:	65 HARBOR ROAD
Locality:	STATEN ISLAND
SWIS Code:	4301
DEC Region:	2
Registered:	1
Expiration Date:	7/28/2003
Site Status:	Unregulated (<1101 gallons)
Site Type:	Other
Above Ground Tanks:	Yes

ENGINE COMPANY 158 (Continued) **U003178509**

Under Ground Tanks: No

HIST AST:

PBS Number:	2-358347
Tank Location:	ABOVEGROUND
Tank ID:	001
Tank Status:	1
Install Date:	19681201
Capacity (Gal):	2000
Product Stored:	3
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	0
Pipe Location:	None
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	0
Tank Containment:	None
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Latitude:	Not reported
Longitude:	Not reported
SWIS Code:	6401
Operator:	COMPANY OFFICER
Facility Phone:	(718) 494-4258
Facility Addr2:	65 HARBOR ROAD
Facility Type:	OTHER
Emergency:	EOC/NOTIFICATION DESK
Emergency Tel:	(718) 999-2094
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	FIRE DEPARTMENT
Owner Address:	9 METROTECH
Owner City,St,Zip:	BROOKLYN, NY 11201-3857
Federal ID:	Not reported
Owner Tel:	(718) 999-2094
Owner Type:	Local Government
Owner Subtype:	C
Mailing Contact:	DIRECTOR; BLDGS MAINT DIV
Mailing Name:	FIRE DEPARTMENT
Mailing Address:	48-34 35TH STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Telephone:	(718) 784-6510
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is

ENGINE COMPANY 158 (Continued) **U003178509**

	greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	05/11/2001
Expiration:	07/28/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2550
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	64
Town or City Code:	01
Region:	2
PBS Number:	2-358347
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank ID:	002
Tank Status:	1
Install Date:	Not reported
Capacity (Gal):	550
Product Stored:	6
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	01
Tank Containment:	Other
Leak Detection:	01
Overfill Protection:	02
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Latitude:	Not reported
Longitude:	Not reported
SWIS Code:	6401
Operator:	COMPANY OFFICER
Facility Phone:	(718) 494-4258
Facility Addr2:	65 HARBOR ROAD
Facility Type:	OTHER
Emergency:	EOC/NOTIFICATION DESK
Emergency Tel:	(718) 999-2094
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported

ENGINE COMPANY 158 (Continued) **U003178509**

Result of Inspection:	Not reported
Owner Name:	FIRE DEPARTMENT
Owner Address:	9 METROTECH
Owner City,St,Zip:	BROOKLYN, NY 11201-3857
Federal ID:	Not reported
Owner Tel:	(718) 999-2094
Owner Type:	Local Government
Owner Subtype:	C
Mailing Contact:	DIRECTOR; BLDGS MAINT DIV
Mailing Name:	FIRE DEPARTMENT
Mailing Address:	48-34 35TH STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Telephone:	(718) 784-6510
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	05/11/2001
Expiration:	07/28/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2550
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	64
Town or City Code:	01
Region:	2

HIST UST:

PBS Number:	2-358347
SPDES Number:	Not reported
Emergency Contact:	EOC/NOTIFICATION DESK
Emergency Telephone:	(718) 999-2094
Operator:	COMPANY OFFICER
Operator Telephone:	(718) 494-4258
Owner Name:	FIRE DEPARTMENT
Owner Address:	9 METROTECH
Owner City,St,Zip:	BROOKLYN, NY 11201-3857
Owner Telephone:	(718) 999-2094
Owner Type:	Local Government
Owner Subtype:	The City of New York
Mailing Name:	FIRE DEPARTMENT
Mailing Address:	48-34 35TH STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Contact:	DIRECTOR; BLDGS MAINT DIV
Mailing Telephone:	(718) 784-6510
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist

ENGINE COMPANY 158 (Continued) **U003178509**

	or not at the facility.
Facility Addr2:	65 HARBOR ROAD
Tank Id:	003
Tank Location:	UNDERGROUND
Install Date:	Not reported
Capacity (gals):	275
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	04/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Lat/long:	Not reported
SWIS ID:	6401
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	05/11/2001
Expiration Date:	07/28/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	2550
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	64
Town or City:	01
Region:	2

58 ESE 1/4-1/2 1382 ft. | **1ST MARINE SHIP YARD/S.I.**
2945 RICHMOND TERRACE
NEW YORK CITY, NY | **NY LTANKS**
NY Hist Spills | **S102141690**
N/A

Relative: Lower

Actual: 6 ft.

LTANKS:

Site ID:	307975
Spill Date:	09/27/90
Facility Addr2:	Not reported
Facility ID:	9007045
Program Number:	9007045
SWIS:	4301
Region of Spill:	2
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	09/27/90
CID:	13
Spill Cause:	Tank Failure
Water Affected:	KILL VAN KULL
Spill Source:	Vessel
Spill Notifier:	Federal Government
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	09/02/03
Remediation Phase:	0
Date Entered In Computer:	10/10/90
Spill Record Last Update:	09/02/03
Spille Namer:	Not reported
Spiller Company:	SARAH FRANK(BARGE)
Spiller Phone:	(212) 888-1818
Spiller Extention:	Not reported
Spiller Address:	NEW ENGLAND MARINE SERV
Spiller City,St,Zip:	555 MADISON AVE, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9007045
DER Facility ID:	248728
Site ID:	307975
Operable Unit ID:	944499
Operable Unit:	01
Material ID:	434471
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50000.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Surface Water
Oxygenate:	False
Site ID:	Not reported

1ST MARINE SHIP YARD/S.I. (Continued) **S102141690**

Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported
DEC Remarks: Not reported
Remarks: Start CallerRemark - 9007045 SARAH FRANK (BARGE) SUNK AT 1ST MARINE SHIP YARD, HULL WAS RUPTURED & 50,000 GALLONS OF A MIXTURE OF #6 & WASTE OIL WAS RELEASED, USCG & DECON SCENE, VAC TRUCK OPERATION TO REMOVE OIL. END CallerRemark - 9007045

NY Hist Spills:
Region of Spill: 2
Spill Number: 9007045
Investigator: TOMASELLO
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 09/27/1990 08:30
Reported to Dept Date/Time: 09/27/90 09:30
SWIS: 64
Spiller Name: SARAH FRANK(BARGE)
Spiller Contact: Not reported
Spiller Phone: (212) 888-1818
Spiller Address: NEW ENGLAND MARINE SERV
Spiller City,St,Zip: 555 MADISON AVE
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: KILL VAN KULL
Spill Source: 10
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 10/10/90
Date Spill Entered In Computer Data File: Not reported
Update Date: 11/20/92
Is Updated: False
PBS Number: Not reported

1ST MARINE SHIP YARD/S.I. (Continued) **S102141690**

Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	50000
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	WASTE OIL
Class Type:	WASTE OIL
Times Material Entry In File:	9509
CAS Number:	Not reported
Last Date:	19940927
DEC Remarks:	Not reported
Remark:	SARAH FRANK BARGE) SUNK AT 1ST MARINE SHIP YARD, HULL WAS RUPTURED 50,000 GALLONS OF A MIXTURE OF 6 WASTE OIL WAS RELEASED, USCG DECON SCENE, VAC TRUCK OPERATION TO REMOVE OIL.

---

59 **187 ARLINGTON AVE/BKLYN** **NY LTANKS** **S102671607**
SW **187 ARLINGTON AVENUE** **NY HIST LTANKS** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
1567 ft.

Relative:
Higher

Actual:
33 ft.

LTANKS:

Site ID:	106791
Spill Date:	12/08/90
Facility Addr2:	Not reported
Facility ID:	9009774
Program Number:	9009774
SWIS:	2401
Region of Spill:	2
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	12/08/90
CID:	Not reported
Spill Cause:	Tank Overfill
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party
Cleanup Ceased:	12/08/90
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	12/08/90
Remediation Phase:	0
Date Entered In Computer:	12/18/90
Spill Record Last Update:	01/08/91
Spille Namer:	Not reported
Spiller Company:	BAERENKLAU OIL CO
Spiller Phone:	(718) 647-4200
Spiller Extention:	Not reported
Spiller Address:	740 JAMAICA AVE
Spiller City,St,Zip:	BROOKLYN, NY 11208

187 ARLINGTON AVE/BKLYN (Continued) **S102671607**

Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9009774
DER Facility ID:	93988
Site ID:	106791
Operable Unit ID:	946811
Operable Unit:	01
Material ID:	429969
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 9009774 CUSTOMER OVERORDERED, BAERENKLAU TO CLEAN UP WITH SPEEDY DRY. END CallerRemark - 9009774

HIST LTANKS:

Region of Spill:	2
Spill Number:	9009774
Investigator:	O'DOWD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	12/08/1990
Spill Time:	08:30
Reported to Department Date:	12/08/90
Reported to Department Time:	11:03
SWIS:	61
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	BAERENKLAU OIL CO
Spiller Address:	740 JAMAICA AVE
Spiller City,St,Zip:	BROOKLYN, NY 11208

187 ARLINGTON AVE/BKLYN (Continued) **S102671607**

Facility Contact:	Not reported
Facility Phone:	(718) 647-4200
Facility Extention:	Not reported
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	12/08/90
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	12/08/90
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	12/18/90
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	01/08/91
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	2
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	Not reported
Spill Cause:	CUSTOMER OVERORDERED, BAERENKLAU TO CLEAN UP WITH SPEEDY DRY.

---

60 WNW 1/4-1/2 1797 ft. **BAYVIEW AUTO WRECKERS INC** **NY SWF/LF** **S108145696**
3333 RICHMOND TERRACE **N/A**
STATEN ISLAND, NY 10303

Relative: Higher

Actual: 15 ft.

SWF/LF:

Flag:	ACTIVE
Secondary Addr:	Not reported
Region Code:	2
Phone Number:	0
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported

BAYVIEW AUTO WRECKERS INC (Continued) **S108145696**

Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	0
Contact Email:	Not reported
Contact Phone:	0
Activity Desc:	Vehicle Dismantling
Activity Number:	Not reported
Active:	Yes
East Coordinate:	570199
North Coordinate:	4499225
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

---

61 **7TH DAY ADVENTIST CHURCH** **NY LTANKS** **S104275731**
SE **72-76 UNION AVENUE** **NY HIST LTANKS** **N/A**
1/4-1/2 **STATEN ISLAND, NY**
1835 ft.

Relative:
Higher

Actual:
34 ft.

LTANKS:

Site ID:	142627
Spill Date:	01/17/95
Facility Addr2:	Not reported
Facility ID:	9413766
Program Number:	9413766
SWIS:	4301
Region of Spill:	2
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	01/17/95
CID:	13
Spill Cause:	Tank Failure
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	01/17/95
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	01/17/95
Remediation Phase:	0
Date Entered In Computer:	03/22/95
Spill Record Last Update:	09/30/04
Spille Namer:	Not reported
Spiller Company:	SIPCO FUEL CO
Spiller Phone:	Not reported
Spiller Extention:	Not reported

7TH DAY ADVENTIST CHURCH (Continued) **S104275731**

Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9413766
DER Facility ID:	121689
Site ID:	142627
Operable Unit ID:	1011319
Operable Unit:	01
Material ID:	372507
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Start DECRemark - 9413766 Prior to Sept, 2004 data translation this spill Lead DEC Field was "MARTINKAT" END DECRemark - 9413766
Remarks:	Start CallerRemark - 9413766 1 QUART OVERFILL - SPILL CLEANED END CallerRemark - 9413766

HIST LTANKS:

Region of Spill:	2
Spill Number:	9413766
Investigator:	MARTINKAT
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	01/17/1995
Spill Time:	09:00
Reported to Department Date:	01/17/95
Reported to Department Time:	09:29
SWIS:	64
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported

7TH DAY ADVENTIST CHURCH (Continued) **S104275731**

Spiller Name:	SIPCO FUEL CO
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	01/17/95
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	01/17/95
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	03/22/95
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	/ /
Is Updated:	False
PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	1
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	Not reported
Spill Cause:	1 QUART OVERFILL - SPILL CLEANED

62 West 1/4-1/2 2108 ft. | **SHAPIRO RESIDENCE**
172-40 HYLAND AV
NYC, NY | **NY LTANKS**
NY HIST LTANKS | **S102671314**
N/A

Relative: Higher

Actual: 26 ft.

LTANKS:

Site ID:	274569
Spill Date:	07/20/88
Facility Addr2:	Not reported
Facility ID:	8805814
Program Number:	8805814
SWIS:	4101
Region of Spill:	2
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	10/11/88
CID:	Not reported
Spill Cause:	Tank Overfill
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	10/21/88
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	10/21/88
Remediation Phase:	0
Date Entered In Computer:	10/25/88
Spill Record Last Update:	01/27/03
Spille Namer:	Not reported
Spiller Company:	SAME
Spiller Phone:	(718) 739-7669
Spiller Extention:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	8805814
DER Facility ID:	223319
Site ID:	274569
Operable Unit ID:	922703
Operable Unit:	01
Material ID:	457723
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Pounds
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported

SHAPIRO RESIDENCE (Continued) **S102671314**

Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Not reported
Remarks:	Start CallerRemark - 8805814 550 GAL TK, SUPPOSED TO BE CLOSED. OIL HAS GONE ONTO 2 NEIGHBORS PRO-PERTY. END CallerRemark - 8805814

HIST LTANKS:

Region of Spill:	2
Spill Number:	8805814
Investigator:	SIGONA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	07/20/1988
Spill Time:	12:00
Reported to Department Date:	10/11/88
Reported to Department Time:	09:27
SWIS:	63
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Facility Contact:	Not reported
Facility Phone:	(718) 739-7669
Facility Extention:	Not reported
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	10/21/88
Cleanup Meets Standard:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	10/21/88
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	10/25/88

SHAPIRO RESIDENCE (Continued) **S102671314**

Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 10/31/88
Is Updated: False
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: 550 GAL TK, SUPPOSED TO BE CLOSED. OIL HAS GONE ONTO 2 NEIGHBORS PRO-PERTY.

J63 **MARINERS MARSH** **CERCLIS** **1009526292**
WNW **3418 RICHMOND TERRACE** **NYN000205900**
1/4-1/2 **STATEN ISLAND, NY 10303**
2235 ft.

Site 1 of 2 in cluster J

Relative: Higher

Actual: 13 ft.

CERCLIS:
Site ID: 0205900
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Status Not Specified

Site Description: Not reported

J64 **MARINERS MARSH PROPERTY** **US BROWNFIELDS** **1008409210**
WNW **3418 RICHMOND TERRACE, BLOCK 1318,** **N/A**
1/4-1/2 **NEW YORK, NY 10303**
2235 ft.

Site 2 of 2 in cluster J

Relative: Higher

Actual: 13 ft.

US BROWNFIELDS:
Recipient Name: City of New York
Project Name: New York, NY (A04)
Name: Mariners Marsh Property
Parcel #: Not reported
Parcel size: 107.00
Latitude: 40.6406
Longitude: -74.1698
HCM: Address Matching-House Number
Map scale: 1:24000
Point of reference: Other Point
Horiz. collect. method: World Geodetic System of 1984
ACRES property ID: 15775
Start date: 7/1/2005

MARINERS MARSH PROPERTY (Continued) **1008409210**

Complete date: 07/30/2005
Accomplishment: Phase I Environmental Assessment
Ownership entity: Government

65
SSW
1/4-1/2
2256 ft.

A & A LANDFILL
278-280 SOUTH AVENUE
STATEN ISLAND, NY

NY LTANKS **S105999524**
N/A

Relative:
Higher

Actual:
39 ft.

LTANKS:

Site ID:	100561
Spill Date:	08/01/03
Facility Addr2:	Not reported
Facility ID:	0304642
Program Number:	0304642
SWIS:	4301
Region of Spill:	2
Investigator:	JXZHAO
Referred To:	Not reported
Reported to Dept:	08/01/03
CID:	13
Spill Cause:	Tank Failure
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	DEC
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/10/03
Remediation Phase:	0
Date Entered In Computer:	08/01/03
Spill Record Last Update:	11/12/03
Spille Namer:	KEVIN BOLAND
Spiller Company:	CSX TRANSPORTATION
Spiller Phone:	(904) 633-4513
Spiller Extention:	Not reported
Spiller Address:	301 W BAY ST, SUITE 800
Spiller City,St,Zip:	JACKSONVILLE, FL 32202-
Spiller County:	001
Spiller Contact:	DAVID HASSRICK
Spiller Phone:	(609) 279-9140
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	0304642
DER Facility ID:	89259
Site ID:	100561
Operable Unit ID:	873061
Operable Unit:	01
Material ID:	505499
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0.00

A & A LANDFILL (Continued) **S105999524**

Units:	Gallons
Recovered:	0.00
Resource Affected:	Groundwater
Oxygenate:	False
Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported
DEC Remarks:	Start DECRemark - 0304642 Prior to Sept, 2004 data translation this spill Lead DEC Field was "ZHAO" Dave Hassrick (Gannett Fleming), Research Park, 202 Wall Street, Princeton, N.J. 08540 called to DEC Sigona on August 21, 2003 to locate the spillinvestigator. 609-847-2635. The site is located accross the street from 281 South Street. 10/10/2003 - Spill closed: referred to Solid Hazardous Material Section. END DECRemark - 0304642
Remarks:	Start CallerRemark - 0304642 Closing an illegal landfill and possibly struck a undergroung tank. END CallerRemark - 0304642

66
South
1/4-1/2
2390 ft.

MARINER'S HARBOR **NY LTANKS** **S103478223**
139 BRABANT ST **NY HIST LTANKS** **N/A**
STATEN ISLAND, NY

Relative:
Higher

Actual:
32 ft.

LTANKS:

Site ID:	254562
Spill Date:	08/07/98
Facility Addr2:	Not reported
Facility ID:	9805704
Program Number:	9805704
SWIS:	4301
Region of Spill:	2
Investigator:	KSTANG
Referred To:	BOTH TANKS PASSED IN 2003
Reported to Dept:	08/07/98
CID:	13
Spill Cause:	Tank Test Failure
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Tank Tester
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Spill Class:	No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt:	/ /
Remediation Phase:	1
Date Entered In Computer:	08/07/98
Spill Record Last Update:	04/04/06
Spille Namer:	FRANK OCELLO
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Phone:	(212) 306-3229
Spiller Extention:	Not reported

MARINER'S HARBOR (Continued) **S103478223**

Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	MAHATTAN, NY
Spiller County:	001
Spiller Contact:	FRANK OCELLO
Spiller Phone:	(212) 306-3229
Spiller Extention:	Not reported
DEC Region:	2
Program Number:	9805704
DER Facility ID:	208498
Site ID:	254562
Operable Unit ID:	1066968
Operable Unit:	01
Material ID:	320440
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0.00
Units:	Gallons
Recovered:	0.00
Resource Affected:	Soil
Oxygenate:	False
Site ID:	254562
Spill Tank Test:	20717
Tank Number:	002
Tank Size:	20000
Test Method:	03
Leak Rate:	0.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/01/04
Test Method:	Horner EZ Check I or II
DEC Remarks:	Start DECRemark - 9805704 12/06/05: This spill transferred from J.Kolleeny to S.Kraszewski. 02/06/06: This spill transferred from S.Kraszewski to Q.Abidi. 04/04/06: This spill transferred from Q. Abidi to Koon Tang. END DECRemark - 9805704
Remarks:	Start CallerRemark - 9805704 WILL ISOLATE AND RETEST END CallerRemark - 9805704

HIST LTANKS:

Region of Spill:	2
Spill Number:	9805704
Investigator:	SACCACIO
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Spill Date:	08/07/1998
Spill Time:	12:00
Reported to Department Date:	08/07/98
Reported to Department Time:	14:08
SWIS:	64
Spiller Contact:	FRANK OCELLO
Spiller Phone:	(212) 306-3229

MARINER'S HARBOR (Continued) **S103478223**

Spiller Extention:	Not reported
Spiller Name:	NYC HOUSING AUTHORITY
Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	MANHATTAN, NY
Facility Contact:	FRANK OCELLO
Facility Phone:	(212) 306-3229
Facility Extention:	Not reported
Spill Cause:	Tank Test Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Non Commercial/Industrial
Spill Notifier:	Tank Tester
PBS Number:	2-473952
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	/ /
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	08/07/98
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	07/18/00
Is Updated:	False
PBS Number:	Not reported
Tank Number:	002
Tank Size:	20000
Test Method:	Horner EZ Check
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported
Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	Not reported
Spill Cause:	WILL ISOLATE AND RETEST

67 East 1/2-1 4115 ft. | **STANDARD T CHEMICAL**
2600 RICHMOND TER
STATEN ISLAND, NY 10303 | **RCRA-SQG FINDS CORRACTS CERC-NFRAP** | **1000310308 NYD001601327**

Relative: Lower

Actual: 9 ft.

RCRAInfo Corrective Action Summary:

Event: RFA Completed
Event Date: 09/26/1994

Event: CA Prioritization, Facility or area was assigned a low corrective action priority.
Event Date: 10/19/1993

RCRAInfo:

Owner: STANDARD T CHEMICAL CO INC
(212) 442-5300
EPA ID: NYD001601327

Contact: NORMAN MECHANIC
(212) 442-5300

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CORRACTS:

EPA ID: NYD001601327
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 09/26/1994
Action: CA050 - RFA Completed
NAICS Code(s): 32551 325211 325998
Paint and Coating Manufacturing
Plastics Material and Resin Manufacturing
All Other Miscellaneous Chemical Product and Preparation Manufacturing

EPA ID: NYD001601327
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 10/19/1993
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 32551 325211 325998
Paint and Coating Manufacturing
Plastics Material and Resin Manufacturing
All Other Miscellaneous Chemical Product and Preparation Manufacturing

STANDARD T CHEMICAL (Continued) **1000310308**

CERC-NFRAP:
Site ID: 0203353
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: STANDARD T CHEMICAL
Alias Address: Not reported
NY
Site Description: Not reported

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 08/24/1990
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 07/01/1991
Date Completed: 09/25/1991
Priority Level: NFRAP (No Futher Remedial Action Planned

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 01/31/1997
Priority Level: Not reported

City	EDR ID	Site Name	Site Address	Zip	Database(s)
STATEN ISLAND	1009244172	LJ & M LAPLACE	RTE 278 EAST-STATEN ISLANDEXP		NY MANIFEST
STATEN ISLAND	S105114417	2901 & 2945 RICHMOND TERRACE (BLOC	2901 / 2945 RICHMOND TERRACE	10303	NY VCP
STATEN ISLAND	S102663282	FRESHKILLS LANDFILL	ROUTE 440		NY Spills, NY Hist Spills
STATEN ISLAND	S108296564	CRANE SPILL	1900 SOUTH AVE		NY Spills
STATEN ISLAND	S102663678	BEEMAN AVE & RICHMOND TER	BEEMAN AVE / RICHMOND TER		NY Spills, NY Hist Spills
STATEN ISLAND	S106698963	LAKE AVE	BTN WALKER ST / RICHMOND		NY Spills
STATEN ISLAND	S104787826	KILLVAN CULL	CROSS OF RICHMOND TERR		NY Spills, NY Hist Spills
STATEN ISLAND	S105235929	END OF HARBOR RD	HARBOR RD		NY Spills, NY Hist Spills
STATEN ISLAND	S102663531	MERSEREAU AVE STATION	MERSEREAU AVE		NY Spills, NY Hist Spills
STATEN ISLAND	S108295465	PADMOUNT # 10286	POND WAY / ARLINGTON PLACE		NY Spills
STATEN ISLAND	S104653206	BODINE CREEK	REAR OF 1939 RICHMOND TER		NY Spills, NY Hist Spills
STATEN ISLAND	S108294071	EXPERT RECYCLING SERVICE; LLC	3015 RICHMOND TERRACE	10303	NY SWRCY
STATEN ISLAND	1009234966	COASTAL PIPELINE @ PORT IVORY	RICHMOND TER / KILL VAN KULL		NY MANIFEST
STATEN ISLAND	S104193303	POLE #10342	RICHMOND TER $UNION AVE		NY Spills, NY Hist Spills
STATEN ISLAND	S107658261	MCALLISTER YARD	RICHMOND TERRACE		NY Spills
STATEN ISLAND	S106007945	KILL VAN KULL	1435 RICHMOND TERRACE AVE		NY Spills
STATEN ISLAND	S106703229	RICHIE FUEL OIL	1725 RICHMOND TERRACE RD		NY LTANKS, NY HIST LTANKS
STATEN ISLAND	S103483812	CADELL DRY DOCKS	RICHMOND TERRANCE		NY Spills, NY Hist Spills
STATEN ISLAND	S106469783		RICHMOND TERR @ ELM ST		NY Spills
STATEN ISLAND	S108294385	ONE PINT CABLE OIL IN MANHOLE 37	RICHMOND TERRACE / BAY STRE		NY Spills
STATEN ISLAND	S102151095	CADDELLS SHIPYARD	RICHMOND TERRACE		NY Spills, NY Hist Spills
STATEN ISLAND	S108130817	MANHOLES 80 & 81 & 79	RICHMOND TERRACE / SI RAPI		NY Spills
STATEN ISLAND	S108297394	NEW BRIGHTON # 1 SUBSTATION	626 RICHMOND TERRACE		NY Spills
STATEN ISLAND	S108296118	1388 RICHMOND TERRACE	1388 RICHMOND TERRACE		NY Spills
STATEN ISLAND	S108296510	STREET SPILL	1890 RICHMOND TERRACE		NY Spills
STATEN ISLAND	S106471393	NYDEP	RICHMOND TERRACE/BODINE S		NY Spills
STATEN ISLAND	S104652208	MAN HOLE 331	RICHMOND TERR SO HERBERTO		NY Spills, NY Hist Spills
STATEN ISLAND	1003863695	PROCTER & GAMBLE LF	RICHMOND TERRACE	10303	CERC-NFRAP
STATEN ISLAND	S108294075	EXPERT RECYCLING SERVICE; LLC	3015 RICHMOND TERRACE	10303	NY SWF/LF
STATEN ISLAND	S102401924	TRAVIS AVE BETWEEN	VICTORY / SOUTH AVE		NY Spills, NY Hist Spills
STATEN ISLAND	S108057844	MANHOLE 7115	WILD AVE / ROUTE 440 SOUTH		NY Spills

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/25/2007
Date Data Arrived at EDR: 01/31/2007
Date Made Active in Reports: 03/12/2007
Number of Days to Update: 40

Source: EPA
Telephone: N/A
Last EDR Contact: 01/31/2007
Next Scheduled EDR Contact: 04/30/2007
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 09/27/2006
Date Data Arrived at EDR: 11/01/2006
Date Made Active in Reports: 11/22/2006
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 02/23/2007
Next Scheduled EDR Contact: 04/30/2007
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/28/2006
Date Data Arrived at EDR: 01/31/2007
Date Made Active in Reports: 03/12/2007
Number of Days to Update: 40

Source: EPA
Telephone: N/A
Last EDR Contact: 01/31/2007
Next Scheduled EDR Contact: 04/30/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 03/26/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/28/2006
Date Data Arrived at EDR: 12/19/2006
Date Made Active in Reports: 01/29/2007
Number of Days to Update: 41

Source: EPA
Telephone: 703-603-8960
Last EDR Contact: 03/21/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/20/2006
Date Data Arrived at EDR: 01/29/2007
Date Made Active in Reports: 02/27/2007
Number of Days to Update: 29

Source: EPA
Telephone: 703-603-8960
Last EDR Contact: 03/19/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 01/04/2007
Date Data Arrived at EDR: 01/18/2007
Date Made Active in Reports: 02/27/2007
Number of Days to Update: 40

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/05/2007
Next Scheduled EDR Contact: 06/04/2007
Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006
Date Data Arrived at EDR: 06/28/2006
Date Made Active in Reports: 08/23/2006
Number of Days to Update: 56

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/27/2007
Next Scheduled EDR Contact: 04/16/2007
Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 01/24/2007
Date Made Active in Reports: 03/12/2007
Number of Days to Update: 47

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/24/2007
Next Scheduled EDR Contact: 04/23/2007
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 11/28/2006
Date Data Arrived at EDR: 01/17/2007
Date Made Active in Reports: 02/27/2007
Number of Days to Update: 41

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/17/2007
Next Scheduled EDR Contact: 04/16/2007
Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/24/2007
Date Data Arrived at EDR: 01/31/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 04/02/2007
Next Scheduled EDR Contact: 07/02/2007
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/24/2007
Date Data Arrived at EDR: 01/31/2007
Date Made Active in Reports: 02/27/2007
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 04/02/2007
Next Scheduled EDR Contact: 07/02/2007
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 02/08/2007
Next Scheduled EDR Contact: 05/07/2007
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 11/22/2006
Number of Days to Update: 63

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 04/02/2007
Next Scheduled EDR Contact: 07/02/2007
Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 01/29/2007
Date Data Arrived at EDR: 01/31/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/12/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 08/23/2006
Date Data Arrived at EDR: 03/06/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 35

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 02/06/2007
Next Scheduled EDR Contact: 04/23/2007
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/10/2007
Date Data Arrived at EDR: 01/24/2007
Date Made Active in Reports: 02/27/2007
Number of Days to Update: 34

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/27/2007
Next Scheduled EDR Contact: 07/02/2007
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/08/2006
Date Made Active in Reports: 01/29/2007
Number of Days to Update: 82

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 03/20/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 06/22/2006
Date Made Active in Reports: 08/23/2006
Number of Days to Update: 62

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 03/20/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 01/15/2007
Next Scheduled EDR Contact: 04/16/2007
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 02/26/2007
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 03/19/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 02/26/2007
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 03/19/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/29/2007
Next Scheduled EDR Contact: 04/16/2007
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/06/2006
Date Data Arrived at EDR: 02/02/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/15/2007
Next Scheduled EDR Contact: 04/16/2007
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/30/2007
Date Data Arrived at EDR: 01/31/2007
Date Made Active in Reports: 02/27/2007
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/31/2007
Next Scheduled EDR Contact: 04/30/2007
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 01/08/2007
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 3

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/29/2007
Next Scheduled EDR Contact: 06/25/2007
Data Release Frequency: Quarterly

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 03/26/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Varies

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/17/2006
Date Data Arrived at EDR: 11/29/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 43

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 03/02/2007
Next Scheduled EDR Contact: 05/07/2007
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/11/2007
Date Data Arrived at EDR: 01/26/2007
Date Made Active in Reports: 02/27/2007
Number of Days to Update: 32

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/02/2007
Next Scheduled EDR Contact: 07/02/2007
Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/15/2006
Date Data Arrived at EDR: 12/28/2006
Date Made Active in Reports: 01/29/2007
Number of Days to Update: 32

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/28/2007
Next Scheduled EDR Contact: 06/25/2007
Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2007
Date Data Arrived at EDR: 01/23/2007
Date Made Active in Reports: 02/27/2007
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 04/02/2007
Next Scheduled EDR Contact: 07/02/2007
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 03/05/2007
Next Scheduled EDR Contact: 06/04/2007
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/06/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

NY HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 02/26/2007
Next Scheduled EDR Contact: 05/28/2007
Data Release Frequency: No Update Planned

NY SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 12/14/2006
Date Made Active in Reports: 01/22/2007
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/15/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Annually

NJ SHWS: Known Contaminated Sites in New Jersey

The Known Contaminated Sites in New Jersey includes sites under the purview of the Site Remediation Program which have contamination present at levels greater than the applicable cleanup criteria for soil and/or groundwater standards. The sites appearing in Known Contaminated Sites in New Jersey are classified as either active, where the site is assigned to a specific remedial program area, or pending, where the site is awaiting assignment to a specific remedial program area. Sites where no further action (NFA) designation has been given are not included in this report unless there are other areas of identified contamination which have not been remediated. This report includes sites being remediated under all of the various regulatory programs administered by the Site Remediation Program such as: Federal Superfund Program, Federal Resource Conservation and Recovery Act (RCRA), New Jersey's Industrial Site Recovery Act (ISRA), New Jersey's Underground Storage of Hazardous Substances Act, New Jersey's Spill Compensation and Control Act, New Jersey's Solid Waste Management Act, New Jersey's Water Pollution Control Act.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 06/22/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 40

Source: New Jersey Department of Environmental Protection
Telephone: 609-292-8761
Last EDR Contact: 03/23/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Varies

NJ CHROME: Chromate Chemical Production Waste Sites

Known chromate chemical production waste sites.

Date of Government Version: 12/01/2005
Date Data Arrived at EDR: 01/16/2006
Date Made Active in Reports: 02/08/2006
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 609-984-4071
Last EDR Contact: 03/09/2007
Next Scheduled EDR Contact: 06/04/2007
Data Release Frequency: Varies

NJ PF: Publicly Funded Cleanups Site Status Report
The report focuses on publicly funded cleanups and features progress achieved and underway at all sites that are being addressed by the NJDEP with public funds.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 04/25/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 11

Source: Department of Environmental Protection
Telephone: 609-292-9418
Last EDR Contact: 03/09/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Annually

NY DEL SHWS: Delisted Registry Sites
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 08/04/2006
Date Data Arrived at EDR: 09/14/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/15/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Annually

NY SWF/LF: Facility Register
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/30/2007
Date Data Arrived at EDR: 01/30/2007
Date Made Active in Reports: 03/20/2007
Number of Days to Update: 49

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 01/29/2007
Next Scheduled EDR Contact: 04/30/2007
Data Release Frequency: Semi-Annually

NJ SWF/LF: Solid Waste Facility Directory
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 03/21/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 14

Source: Department of Environmental Protection
Telephone: 609-984-6741
Last EDR Contact: 03/21/2007
Next Scheduled EDR Contact: 05/28/2007
Data Release Frequency: Quarterly

NY SWRCY: Registered Recycling Facility List
A listing of recycling facilities.

Date of Government Version: 02/12/2007
Date Data Arrived at EDR: 02/12/2007
Date Made Active in Reports: 03/20/2007
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 01/29/2007
Next Scheduled EDR Contact: 04/30/2007
Data Release Frequency: Semi-Annually

NY SWTIRE: Registered Waste Tire Storage & Facility List
A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 02/16/2007
Next Scheduled EDR Contact: 05/14/2007
Data Release Frequency: Annually

NJ HIST LF: Solid Waste Facility Directory

Old or non-permitted solid waste facilities/landfills that are not included in the current solid waste facilities/landfills database.

Date of Government Version: 06/10/2003
Date Data Arrived at EDR: 02/19/2004
Date Made Active in Reports: 03/09/2004
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: 609-984-6880
Last EDR Contact: 02/19/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NJ SWRCY: Approved Class B Recycling Facilities

"Class B recyclable material" means a source separated recyclable material which is subject to Department approval prior to receipt, storage, processing or transfer at a recycling center in accordance with N.J.S.A. 13:1E-99.34b.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/09/2006
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 609-984-6650
Last EDR Contact: 03/02/2007
Next Scheduled EDR Contact: 05/28/2007
Data Release Frequency: Varies

NJ LUST: UST Active Remediation Sites Listing

A listing of regulated Underground Storage Tanks that have a cleanup underway.

Date of Government Version: 03/20/2007
Date Data Arrived at EDR: 03/21/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 14

Source: New Jersey Department of Environmental Protection
Telephone: 609-292-8761
Last EDR Contact: 03/21/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Varies

NY LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 01/17/2007
Date Data Arrived at EDR: 01/24/2007
Date Made Active in Reports: 03/20/2007
Number of Days to Update: 55

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 01/24/2007
Next Scheduled EDR Contact: 04/23/2007
Data Release Frequency: Varies

NY HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NJ HIST LUST: Historical Leaking USTs

This listing is no longer updated or maintained by the DEP.

Date of Government Version: 09/17/2002
Date Data Arrived at EDR: 01/27/2006
Date Made Active in Reports: 02/08/2006
Number of Days to Update: 12

Source: Department of Environment Protection
Telephone: 609-292-8761
Last EDR Contact: 03/19/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: No Update Planned

NY UST: Petroleum Bulk Storage (PBS) Database
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 12/22/2006
Date Data Arrived at EDR: 01/24/2007
Date Made Active in Reports: 03/02/2007
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 03/15/2007
Next Scheduled EDR Contact: 04/23/2007
Data Release Frequency: No Update Planned

NJ UST: Underground Storage Tank Data
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/17/2007
Date Data Arrived at EDR: 02/16/2007
Date Made Active in Reports: 03/30/2007
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 03/05/2007
Next Scheduled EDR Contact: 06/04/2007
Data Release Frequency: Varies

NY CBS UST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

NY MOSF UST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: Varies

NY HIST UST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

NY AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 12/22/2006
Date Data Arrived at EDR: 01/24/2007
Date Made Active in Reports: 03/02/2007
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 03/15/2007
Next Scheduled EDR Contact: 04/23/2007
Data Release Frequency: No Update Planned

NJ LIENS: Environmental LIENS

A listing of properties with environmental liens. The listing includes sites from the Site Remediation & Waste Management Program Sites where the Department has placed either a 1st Priority or Regular Spill Fund Lien against. 1st Priority Type Lien - a lien placed against the property where the discharged occurred providing that the owners of the property have some responsibility towards the discharge. First Priority Lien is superior to other types of liens. Non-Priority (Regular) Type Lien - a lien placed against the Responsible Party & their revenues and all real and personal property, other than the real property comprising the location of the discharge.

Date of Government Version: 12/26/2006
Date Data Arrived at EDR: 01/26/2007
Date Made Active in Reports: 02/13/2007
Number of Days to Update: 18

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 03/12/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Varies

NY CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

NY HIST AST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

NJ MAJOR FACILITIES: List of Major Facilities

Major facilities means all facilities, located on one or more contiguous or adjacent properties owned or operated by the same person, having total combined storage capacity of 20,000 gallons or more for hazardous substances other than petroleum or petroleum products, or 200,000 gallons or more for hazardous substances of all kinds.

Date of Government Version: 02/27/2007
Date Data Arrived at EDR: 02/27/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: 609-292-1690
Last EDR Contact: 02/05/2007
Next Scheduled EDR Contact: 05/07/2007
Data Release Frequency: Varies

NY MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

NJ HIST MAJOR FACILITIES: List of Major Facilities

Major facilities means all facilities, located on one or more contiguous or adjacent properties owned or operated by the same person, having total combined storage capacity of 20,000 gallons or more for hazardous substances other than petroleum or petroleum products, or 200,000 gallons or more for hazardous substances of all kinds. This file contains detail information that is no longer available by the Department of Environmental Protection due to security concerns.

Date of Government Version: 01/02/2002
Date Data Arrived at EDR: 01/11/2006
Date Made Active in Reports: 01/11/2006
Number of Days to Update: 0

Source: Department of Environmental Protection
Telephone: 609-633-7476
Last EDR Contact: 02/05/2007
Next Scheduled EDR Contact: 05/07/2007
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/26/2006
Date Data Arrived at EDR: 11/29/2006
Date Made Active in Reports: 01/05/2007
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 03/02/2007
Next Scheduled EDR Contact: 05/28/2007
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 01/01/2007
Date Data Arrived at EDR: 01/04/2007
Date Made Active in Reports: 02/13/2007
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/05/2007
Next Scheduled EDR Contact: 07/02/2007
Data Release Frequency: Annually

NY SPILLS: Spills Information Database

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 01/17/2007
Date Data Arrived at EDR: 01/24/2007
Date Made Active in Reports: 03/20/2007
Number of Days to Update: 55

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 01/24/2007
Next Scheduled EDR Contact: 04/23/2007
Data Release Frequency: Varies

NJ Release: Hazardous Material Incident Database

Hazardous material release. Initial notification information reported to the Department of Environmental Protection's Environmental Action Line and the office has not conducted any investigations to determine its validity or accuracy.

Date of Government Version: 03/09/2007
Date Data Arrived at EDR: 03/15/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 20

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 04/02/2007
Next Scheduled EDR Contact: 04/02/2007
Data Release Frequency: Semi-Annually

NJ Spills: Spills

Initial notification information of hazardous material incidents, where there is land contamination, reported to the Department of Environmental Protection's Environmental Action Line. The DEP has not conducted any investigation to determine its validity or accuracy.

Date of Government Version: 03/09/2007
Date Data Arrived at EDR: 03/15/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 20

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 04/02/2007
Next Scheduled EDR Contact: 04/02/2007
Data Release Frequency: Annually

NY HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NY ENG CONTROLS: Registry of Engineering Controls
Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 12/14/2006
Date Made Active in Reports: 01/22/2007
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 03/15/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Quarterly

NJ ENG CONTROLS: Declaration Environmental Restriction/Deed Notice Sites
Legal Document that restricts the use of contaminated property; holds owner(s) to the regulatory/statutory requirements for cleanup.

Date of Government Version: 12/28/2006
Date Data Arrived at EDR: 02/16/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 47

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 03/19/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Varies

NY INST CONTROL: Registry of Institutional Controls
Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 12/14/2006
Date Made Active in Reports: 01/22/2007
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 03/15/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Quarterly

NJ INST CONTROL: Classification Exception Area Sites
A Classification Exception Area is an institutional control providing notice that ground water contamination exists in a particular location above State standards.

Date of Government Version: 12/28/2006
Date Data Arrived at EDR: 02/16/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 47

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 03/19/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Varies

NY VCP: Voluntary Cleanup Agreements
New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 12/14/2006
Date Made Active in Reports: 01/22/2007
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 03/15/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Semi-Annually

NJ VCP: Voluntary Cleanup Program Sites
Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.

Date of Government Version: 03/02/2007
Date Data Arrived at EDR: 03/29/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 6

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 01/29/2007
Next Scheduled EDR Contact: 04/30/2007
Data Release Frequency: Varies

NY DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 06/15/2004
Date Data Arrived at EDR: 06/15/2004
Date Made Active in Reports: 07/29/2004
Number of Days to Update: 44

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 05/21/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

NJ DRYCLEANERS: Drycleaner List

A listing of registered drycleaners.

Date of Government Version: 03/14/2007
Date Data Arrived at EDR: 03/15/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 20

Source: Department of Environmental Protection
Telephone: 609-292-2795
Last EDR Contact: 03/05/2007
Next Scheduled EDR Contact: 06/04/2007
Data Release Frequency: Varies

NY BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 12/14/2006
Date Made Active in Reports: 01/22/2007
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 03/15/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Semi-Annually

NJ BROWNFIELDS: Brownfields Database

Brownfields are identified as former or current commercial or industrial use sites that are presently vacant or underutilized, on which there is suspected to have been a discharge of a contamination to the soil or groundwater at concentrations greater than applicable cleanup criteria.

Date of Government Version: 01/08/2007
Date Data Arrived at EDR: 01/09/2007
Date Made Active in Reports: 02/13/2007
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 609-292-1251
Last EDR Contact: 04/06/2007
Next Scheduled EDR Contact: 07/09/2007
Data Release Frequency: Annually

NJ ISRA: ISRA Database

The ISRA process begins with determining if the Act applies to your type of business and transaction. The provisions of ISRA only apply to industrial establishments. What is an industrial establishment? The term "industrial establishment" refers to the type of business operations and transactions that would subject a facility to review under ISRA. An industrial establishment must meet each of the following three criteria: The place of business or real property at which such business is conducted, having a North American Industry Classification System (NAICS) code listed in N.J.A.C. 7:26 B - Appendix C subject to the specified exceptions and limitations. The place of business must have been engaged in operations on or after December 31, 1983; and The place of business must involve the generation, manufacture, refining, transportation, treatment, storage, handling, or disposal of hazardous substances or hazardous wastes.

Date of Government Version: 01/29/2007
Date Data Arrived at EDR: 02/27/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: 609-984-3081
Last EDR Contact: 01/15/2007
Next Scheduled EDR Contact: 04/16/2007
Data Release Frequency: Quarterly

NY SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 02/28/2007
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 03/20/2007
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 02/26/2007
Next Scheduled EDR Contact: 05/07/2007
Data Release Frequency: No Update Planned

NJPDES: New Jersey Pollutant Discharge Elimination System Dischargers

The NJPDES contains the names, addresses and other information of all permitted New Jersey Pollutant Discharge Elimination Sytem dischargers.

Date of Government Version: 02/24/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 04/11/2006
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: 609-242-4543
Last EDR Contact: 03/16/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Varies

NY AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 09/13/2004
Date Made Active in Reports: 10/18/2004
Number of Days to Update: 35

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Annually

NJ HWS RE-EVAL: Site Re-Evaluation Report

The locations were removed from the Known Contaminated Sites list for a variety of reasons. Some of the sites were taken off the list because they were inactive, some were not assigned a case worker and some were no longer contaminated. Inspectors from the DEP are now undertaking a full re-evaluation of each of the locations statewide. That includes visual and environmental tests to see whether contamination still exists.

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 09/01/2006
Date Made Active in Reports: 09/07/2006
Number of Days to Update: 6

Source: Department of Environmental Protection
Telephone: 609-984-3081
Last EDR Contact: 03/23/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 02/08/2007
Next Scheduled EDR Contact: 05/07/2007
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 12/01/2006
Date Made Active in Reports: 01/29/2007
Number of Days to Update: 59

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/21/2005
Date Made Active in Reports: 02/28/2005
Number of Days to Update: 38

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 08/24/2006
Date Data Arrived at EDR: 09/11/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 58

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 34

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 02/21/2007
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 12/19/2006
Date Data Arrived at EDR: 12/19/2006
Date Made Active in Reports: 01/29/2007
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 02/19/2007
Date Data Arrived at EDR: 02/27/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 36

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/06/2006
Date Data Arrived at EDR: 10/04/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 35

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 08/24/2006
Date Data Arrived at EDR: 09/11/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 58

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 09/06/2006
Date Data Arrived at EDR: 10/04/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 35

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 12/19/2006
Date Data Arrived at EDR: 12/19/2006
Date Made Active in Reports: 01/29/2007
Number of Days to Update: 41

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 34

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 02/19/2007
Date Data Arrived at EDR: 02/27/2007
Date Made Active in Reports: 04/04/2007
Number of Days to Update: 36

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 01/11/2007
Date Data Arrived at EDR: 01/12/2007
Date Made Active in Reports: 01/29/2007
Number of Days to Update: 17

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
A listing of underground storage tank locations on Indian Land.

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 12/01/2006
Date Made Active in Reports: 01/29/2007
Number of Days to Update: 59

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/19/2007
Next Scheduled EDR Contact: 05/21/2007
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 01/08/2007
Date Data Arrived at EDR: 01/16/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 22

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 02/26/2007
Next Scheduled EDR Contact: 05/28/2007
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 01/08/2007
Date Data Arrived at EDR: 01/16/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 22

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 02/26/2007
Next Scheduled EDR Contact: 05/28/2007
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/30/2007
Next Scheduled EDR Contact: 04/30/2007
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 01/04/2007
Date Data Arrived at EDR: 02/07/2007
Date Made Active in Reports: 03/26/2007
Number of Days to Update: 47

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 02/05/2007
Next Scheduled EDR Contact: 05/07/2007
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/30/2007
Next Scheduled EDR Contact: 04/30/2007
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 01/04/2007
Date Data Arrived at EDR: 02/07/2007
Date Made Active in Reports: 03/23/2007
Number of Days to Update: 44

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 02/05/2007
Next Scheduled EDR Contact: 05/07/2007
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database

A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 01/22/2007
Date Data Arrived at EDR: 02/13/2007
Date Made Active in Reports: 03/26/2007
Number of Days to Update: 41

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 04/02/2007
Next Scheduled EDR Contact: 07/02/2007
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database

A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 01/22/2007
Date Data Arrived at EDR: 02/13/2007
Date Made Active in Reports: 03/23/2007
Number of Days to Update: 38

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 04/02/2007
Next Scheduled EDR Contact: 07/02/2007
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database

A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 02/26/2007
Next Scheduled EDR Contact: 05/28/2007
Data Release Frequency: Annually

Storage Tank Database

A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 02/26/2007
Next Scheduled EDR Contact: 05/28/2007
Data Release Frequency: Annually

WESTCHESTER COUNTY:

Listing of Storage Tanks

A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 05/05/2005
Date Data Arrived at EDR: 05/31/2005
Date Made Active in Reports: 06/30/2005
Number of Days to Update: 30

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 02/26/2007
Next Scheduled EDR Contact: 05/28/2007
Data Release Frequency: Varies

Listing of Storage Tanks

A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 05/05/2005
Date Data Arrived at EDR: 05/31/2005
Date Made Active in Reports: 06/30/2005
Number of Days to Update: 30

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 02/26/2007
Next Scheduled EDR Contact: 05/28/2007
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 03/16/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 01/01/2007
Date Data Arrived at EDR: 01/04/2007
Date Made Active in Reports: 02/13/2007
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/05/2007
Next Scheduled EDR Contact: 07/02/2007
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 03/12/2007
Next Scheduled EDR Contact: 06/11/2007
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 04/11/2006
Date Data Arrived at EDR: 10/31/2006
Date Made Active in Reports: 12/18/2006
Number of Days to Update: 48

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 03/19/2007
Next Scheduled EDR Contact: 06/18/2007
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 06/29/2006
Date Made Active in Reports: 07/31/2006
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 02/20/2007
Next Scheduled EDR Contact: 05/14/2007
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 04/09/2007
Next Scheduled EDR Contact: 07/09/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

© 2007 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PROPOSED DEVON SELF STORAGE
3075 & 3131 RICHMOND TERRACE
STATEN ISLAND, NY 10303

TARGET PROPERTY COORDINATES

Latitude (North):	40.63900 - 40˚ 38’ 20.4’’
Longitude (West):	74.1629 - 74˚ 9’ 46.5’’
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	570786.4
UTM Y (Meters):	4498809.5
Elevation:	11 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40074-F2 ELIZABETH, NJ
Most Recent Revision:	1995

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

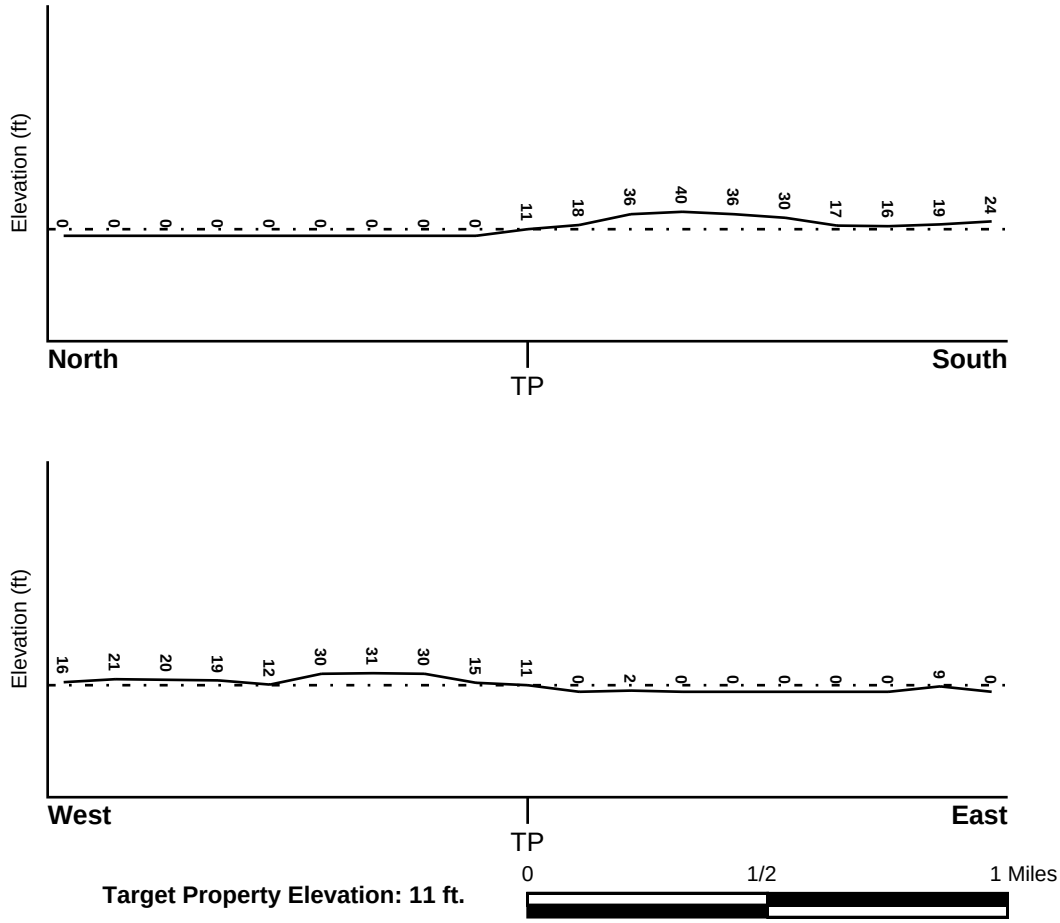
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 11 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
RICHMOND, NY	Not Available

Flood Plain Panel at Target Property:	Not Reported
Additional Panels in search area:	3402180001B 3455230005E

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
ELIZABETH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Triassic
Series:	Triassic mafic intrusives
Code:	Tri *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam
sand
mucky - loamy sand

Surficial Soil Types: sandy loam
sand
mucky - loamy sand

Shallow Soil Types: sand
loamy sand

Deeper Soil Types: stratified
gravelly - coarse sand
sand

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS2137381	1/2 - 1 Mile South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS2137406	1/2 - 1 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

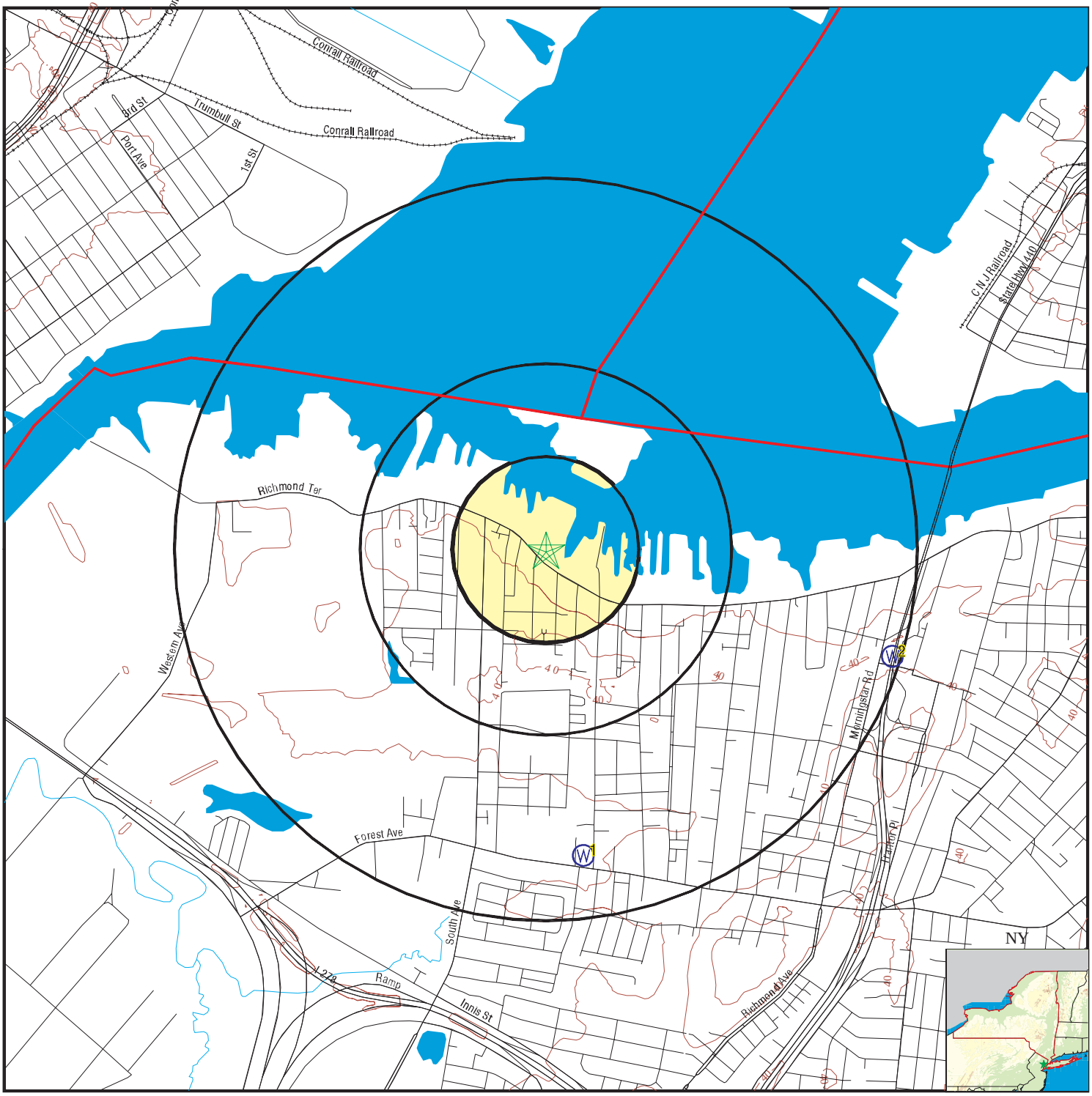
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 1899735.2s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

SITE NAME: Proposed Devon Self Storage ADDRESS: 3075 & 3131 Richmond Terrace Staten Island NY 10303 LAT/LONG: 40.6390 / 74.1629	CLIENT: PSI, Inc. CONTACT: David H. Russian INQUIRY #: 1899735.2s DATE: April 11, 2007 7:47 am

Copyright © 2007 EDR, Inc. © 2007 Tele Atlas Rel. 07/2006.

Map ID Direction Distance Elevation	Database	EDR ID Number
1 **South** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS2137381**

Agency cd:	USGS	Site no:	403737074094101
Site name:	R 48		
Latitude:	403737		
Longitude:	0740941	Dec lat:	40.62704808
Dec lon:	-74.16097688	Coor meth:	M
Coor accr:	R	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	085
Country:	US	Land net:	Not Reported
Location map:	ELIZABETH S-24-1	Map scale:	Not Reported
Altitude:	20		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	166	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

2 **ESE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS2137406**

Agency cd:	USGS	Site no:	403805074084401
Site name:	R 68		
Latitude:	403805		
Longitude:	0740844	Dec lat:	40.63482576
Dec lon:	-74.14514316	Coor meth:	M
Coor accr:	R	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	085
Country:	US	Land net:	Not Reported
Location map:	ELIZABETH S-24-1	Map scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	34		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	43	Hole depth:	Not Reported
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NY Radon

Radon Test Results

Zip	Num Sites	< 4 Pci/L	>= 4 Pci/L	>= 20 Pci/L	Avg > 4 Pci/L	Max Pci/L
10303	1	1 (100%)	0 (0%)	0 (0%)	0.40	0.4

Federal EPA Radon Zone for RICHMOND County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for RICHMOND COUNTY, NY

Number of sites tested: 61

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	98%	2%	0%
Basement	1.250 pCi/L	84%	15%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8056
These files contain records, in the database, of wells that have been drilled.

OTHER STATE DATABASE INFORMATION

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

© 2007 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

USER QUESTIONNAIRE RESPONSES

USER QUESTIONNAIRE 1 OF 2

Pursuant to ASTM E 1527-05 Appendix X.3, in order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments), the user must provide the following information (if available) to the environmental professional. Failure to provide the information could result in a determination that "all appropriate inquiry" is not complete. This form represents a type of interview and as such, the user has an obligation to answer all questions in good faith, to the extent of his or her actual knowledge.

1. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?
   ☒ No ☐ Yes If yes, please explain.

2. Are you aware of any activity and land use limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?
   ☒ No ☐ Yes If yes, please explain.

3. As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?
   ☒ No ☐ Yes If yes, please explain.

4. Does the purchase price being paid for this property reasonably reflect the fair market value of the property?
   ☐ No ☒ Yes
   If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?
   ☒ No ☐ Yes If yes, please explain.

5. Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user: (a) Do you know of the past uses of the property?; (b) Do you know of specific chemicals that are present or were once present at the property?; (c) Do you know of spills or other chemical releases that have taken place at the property?; (d) Do you know of any environmental cleanups that have taken place at the property?
   ☒ No ☐ Yes If yes, please explain.

6. As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?
   ☒ No ☐ Yes If yes, please explain.

USER QUESTIONNAIRE 2 OF 2

Proceedings Involving the Property

Pursuant to ASTM E 1527-05 §10.9, as the user of this ESA do you know of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

☒ No ☐ Yes If yes, please explain.

Helpful Documents Checklist

Pursuant to ASTM E 1527-05 §10.8, do you know whether any of the following documents exist related to the subject property, and if so, whether copies can and will be provided to PSI for review? Check all that apply.

- ☐ Environmental site assessment reports
- ☐ Environmental compliance audit reports
- ☐ Environmental permits (for example solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits)
- ☐ Registrations for above or underground storage tanks
- ☐ Registration for underground injection systems
- ☐ Material safety data sheets
- ☐ Community right-to-know plan
- ☐ Risk assessments
- ☐ Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control (SPCC) plans; etc.
- ☐ Reports regarding hydrogeologic conditions on the property or surrounding area
- ☐ Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property
- ☐ Hazardous waste generation notices or reports
- ☐ Geotechnical studies
- ☐ Recorded activity and land use limitations (AULs)

Kimberly D. Johnson — Vice President, Due Diligence
Name (Authorized User Representative) — Title

Kimberly D. Johnson — May 25, 2007
Signature — Date

Please return this form along with the signed and completed Proposal Authorization & Payment Instructions and Contact Information forms, all of which are a part of this proposal, to PSI as your authorization to begin work on this project.

LIEN/ACTIVITY USE LIMITATION DOCUMENTATION

The EDR Environmental Lien Search Report

PROPOSED DEVON SELF STORAGE
3075 & 3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK

Thursday, May 17, 2007

Project Number: L07-02485

The Standard In Environmental Risk Management Information

440 Wheelers Farm Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

ENVIRONMENTAL LIEN REPORT

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied property information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' office, registries of deed, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved and description); and
- provide a copy of the deed or cite documents reviewed;

Thank you for your business
Please contact EDR at 1-800-352-0050
with any questions or comments

Disclaimer - Copyright and Trademark Notice

This report was prepared for the use of Environmental Data Resources, Inc., and PSI, Inc., exclusively. This report is neither a guarantee of title, a commitment to insure, nor a policy of title insurance. **NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT.** Environmental Data Resources, Inc. (EDR) and Nationwide Environmental Title Research (NETR) specifically disclaim the making of any such warranties, including without limitation, merchantability or fitness for a particular use or purpose. The information contained in this report is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

Copyright 2006 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission

EDR and its logos are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

ENVIRONMENTAL LIEN REPORT

The EDR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

TARGET PROPERTY INFORMATION

ADDRESS

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace
Staten Island, New York

RESEARCH SOURCE

Source: Richmond City Register
Richmond County Clerk
Richmond Department of Finance

DEED INFORMATION

Type of Instrument: Deed

Title is vested in: MES Realty, Inc.

Title received from: Charles Hazelcorn, as Trustee of Infanti Chair Manufacturing Corporation

Deed Dated: 12/24/1998
Deed Recorded: 09/08/1999
Book: 9505
Page: 306

Type of Instrument: Bargain and Sale Deed

Title is vested in: Rasay Corporation

Title received from: Richmond Industrial Center, Inc.; and Block 1208, LLC

Deed Dated: 04/02/2007
Deed Recorded: 04/13/2007
Instrument: 189992

Comments: This document references 3075 Richmond Avenue, which is our subject property address. However, this deed does not convey Block 1208, Lots 9 & 10.

LEGAL DESCRIPTION

Lot 10, Block 1208, situated and lying in the City of Staten Island, Richmond County, State of New York

Assessor's Parcel Number(s): 1208-10

ENVIRONMENTAL LIEN REPORT

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace
Staten Island, New York

RESEARCH SOURCE

Source: Richmond City Register
Richmond County Clerk
Richmond Department of Finance

DEED INFORMATION

Type of Instrument: Deed

Title is vested in: MES Realty, Inc.

Title received from: Charles Hazelcorn, as Trustee of Infanti Chair Manufacturing Corporation

Deed Dated: 12/24/1998
Deed Recorded: 09/08/1999
Book: 9505
Page: 309

LEGAL DESCRIPTION

Lot 9, Block 1208, situated and lying in the City of Staten Island, Richmond County, State of New York

Assessor's Parcel Number(s): 1208-9

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

Office of the
Richmond County Clerk
130 Stuyvesant Place
Staten Island, NY 10301

Hon. Stephen J. Fiala, County Clerk

ACS-000000000131486-000000000172696-007

Recording and Endorsement Cover Page

Document Id: 000000000172696 Document Date: 04/02/2007 Preparation Date: 04/02/2007
Document Type: DEED NON-RESIDENTIAL
Document Page Count: 00007

PRESENTER:
RYAN ABSTRACT
328 MANOR ROAD

STATEN ISLAND NY, 10314

RETURN TO:
WILLIAM J ONEILL, ESQ.
328 MANOR ROAD

STATEN ISLAND NY, 10314

PROPERTY DATA # OF BLOCKS 1 # OF LOTS 4

Block	Lot		Unit	Address
1208	1	Entire Lot		3075 RICHMOND TERRACE

Property Type: Industrial Building
"And Addl Blocks and/or Lots"

PARTIES

GRANTOR
RICHMOND INDUSTRIAL CENTER, INC.
3075 RICHMOND TERRACE

STATEN ISLAND NY, 10303

GRANTEE
RASAY CORP.
5201 2ND AVENUE

BROOKLYN NY, 11212

"And Others"

SUPPORTING DOCUMENTS

RPT
TP-584
RP5217 NYC(1 Original & 1 Copy with Document)
HOUSING AFFIDAVIT

RETT Cons: $4,800,000.00 RPT Cons: $4,800,000.00

PAYMENT DETAIL

Make Checks Payable to:

Richmond County Clerk:	223.00	Recording Fees
Richmond County Clerk:	19,200.00	RETT
Commissioner of Finance:	126,000.00	RPT (Certified Check Required)
Total Payments For This Document:	145,423.00	

FEES PAID

APR 13 2007
RECORDED IN RICHMOND COUNTY

EXAM _____ DATE _____

APR 13 2007

COUNTY CLERK

LAND DOC# 189992
23M-DEEDS
RETT: 6951 $19,200.00
RPT: 6951 $126,000.00
04/13/2007 12:43:22 P.M.
RECEIPT: 22777 FEE: $223.00
RICHMOND COUNTY CLERK

BARGAIN AND SALE DEED WITH COVENANT AGAINST GRANTOR'S ACTS (INDIVIDUAL OR CORPORATION)

FORM 8002 (short version), FORM 8007 (long version)

CAUTION: THIS AGREEMENT SHOULD BE PREPARED BY AN ATTORNEY AND REVIEWED BY ATTORNEYS FOR SELLER AND PURCHASER BEFORE SIGNING

THIS INDENTURE, made the April 2, 2007,

BETWEEN Richmond Industrial Center, Inc and Block 1208 LLC, of 3075 Richmond Terrace, Staten Island, New York 10303,

party of the first part, and

Rasay Corp. of 5201 2nd Avenue, Brooklyn, New York 11212,

party of the second part;

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and No Cents ($10.00), lawful money of the United States, paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever;

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the **See Schedule "A" attached hereto.**

As to Tax Lot 1, being the same premises conveyed to Block 1208 LLC by deed dated 5/1/2006 recorded 5/17/2006 in Richmond County Land Document #127515/06.

As to Tax Lot 3, being the same premises conveyed to Block 1208 LLC by deed dated 11/04/2004 recorded 11/12/2004 in Reel 19370 Page 278.

As to Tax Lot 17, being the same premises conveyed to Block 1208 LLC by deed dated 8/20/2004 recorded 8/26/2004 in Reel 18750 Page 281.

As to Part of Tax Lot 8, being part of the same premises conveyed to Richmond Industrial Center, Inc. by deed dated 2/9/1993 recorded 2/16/1993 in Reel 4149 Page 135.

~~**Being the same premises as conveyed by deed dated 5/17/2006 recorded in Richmond County Land Document #127515/06.**~~

Premises also know as 3075 Richmond Terrace, Staten Island, New York.

It is the intention of this deed to transfer the premises owned by Block 1208 LLC, which is Block 1208 Lot(s) 1, 3 & 17. It is also the intention of this deed to transfer the premises owned by Richmond Industrial Center, but only as to a certain portion of Lot 8. All three of these lots are to become Block 1208 Lot 1.

© 2005 Matthew Bender & Co., a member of the LexisNexis Group.

This deed is given in the usual course of business of the Corporation and Limited Liability Company and with the full consent of all its stockholders and directors, and, members.;

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof,

TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises.

TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part, covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

RICHMOND INDUSTRIAL CENTER
BY: Mohamed Adam, President

BLOCK 1208 LLC
BY: Mohammed Adam, Member

IN PRESENCE OF:

© 2005 Matthew Bender & Co., a member of the LexisNexis Group.

Acknowledgment by a Person Within New York State (RPL § 309-a)

STATE OF NEW YORK)
) ss.:
COUNTY OF RICHMOND)

On the 2nd day of April, 2007, before me, the undersigned, personally appeared Mohammed Adam, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he executed the same in his capacity(ies), and that by his signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

(signature and office of individual taking acknowledgment)

Denise M Sportiello
Notary Public
State of New York
No. 01SP6025148
Qualified in Richmond County
Commission Exp. 5/24/2007

© 2005 Matthew Bender & Co., a member of the LexisNexis Group.

Deed

Title No. 362-R-02554

Richmond Industrial Center, Inc and Block 1208 LLC
To
Rasay Corp.

Section
Block 1208
Lot 1,3,17, p/o lot 8, tentative lot 1.
County or Town Richmond
Street Address 3075 Richmond Terrace
Staten Island, New York 10303

Return By Mail To:

William J. O'Neill, Esq.
O'Neill and O'Neill
328 Manor Road
Staten Island, New York 10314

Reserve This Space For Use Of Recording Office

© 2005 Matthew Bender & Co., a member of the LexisNexis Group.

Block: 1208 Lots: 1,3 17 & p/o 8
ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Staten Island, County of Richmond, City and State of New York, Bounded and described as follows:

BEGINNING at a point on the Westerly line of Harbor Road (50 feet wide) distant 74.40 feet northerly of the corner formed by the intersection of the westerly line of Harbor Road and the Northerly record line of Richmond Terrace

RUNNING THENCE north 58 degrees 51 minutes 19 seconds west, 114.33 feet;

THENCE north 31 degrees 08 minutes 41 seconds east 2.49 feet;

THENCE north 58 degrees 51 minutes 19 seconds west 40.58 feet;

THENCE north 11 degrees 56 minutes 51 seconds east 9.76 feet;

THENCE north 32 degrees 03 minutes 58 seconds east 61.52 feet to the party wall;

THENCE North 58 degrees 43 minutes 18 seconds West and along the party wall 353.51 feet;

THENCE North 31 degrees 51 minutes 33 seconds East 59.07 feet;

THENCE North 31 degrees 14 minutes 55 seconds East 48.00 feet;

THENCE North 11 degrees 54 minutes 07 seconds East 641.86 feet to the United States Pier and Bulkhead line approved Jan. 4, 1890;

THENCE South 60 degrees 32 minutes 50 seconds East along said US Pier and Bulkhead line, 291.01 feet;

THENCE South 83 degrees 36 minutes 27 seconds East and still along said US Pier and Bulkhead line, 66.00 feet to the Westerly line of Harbor Road;

THENCE South 11 degrees 06 minutes 33 seconds West and along said Westerly line of harbor Road, 484.00 feet;

THENCE South 02 degrees 05 minutes 57 seconds West and still along said Westerly line of harbor Road, 421.66 feet to the point or place of BEGINNING.

C1. County Code | C2. Date Deed Recorded (Month / Day / Year)

C3. Book OR C4. Page

C5. CRFN

REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

(Rev 11/2002)

PROPERTY INFORMATION

1. Property Location: 3075 (STREET NUMBER) Richmond Terrace (STREET NAME) Staten Island (BOROUGH) 10303 (ZIP CODE)

2. Buyer Name: Rasay Corp (LAST NAME / COMPANY) (FIRST NAME)

(LAST NAME / COMPANY) (FIRST NAME)

3. Tax Billing Address: Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form) (LAST NAME / COMPANY) (FIRST NAME)

(STREET NUMBER AND STREET NAME) (CITY OR TOWN) (STATE) (ZIP CODE)

4. Indicate the number of Assessment Roll parcels transferred on the deed: 1 # of Parcels OR [ ] Part of a Parcel

4A. Planning Board Approval - N/A for NYC

4B. Agricultural District Notice - N/A for NYC

5. Deed Property Size: (FRONT FEET) X (DEPTH) OR (ACRES)

Check the boxes below as they apply:

6. Ownership Type is Condominium [ ]

7. New Construction on Vacant Land [ ]

8. Seller Name: Adam (LAST NAME / COMPANY) Mohammed (FIRST NAME)

(LAST NAME / COMPANY) (FIRST NAME)

9. Check the box below which most accurately describes the use of the property at the time of sale:

A [ ] One Family Residential
B [ ] 2 or 3 Family Residential
C [ ] Residential Vacant Land
D [ ] Non-Residential Vacant Land
E [X] Commercial
F [ ] Apartment
G [ ] Entertainment / Amusement
H [ ] Community Service
I [ ] Industrial
J [ ] Public Service

SALE INFORMATION

10. Sale Contract Date: 9 / 13 / 2006 (Month / Day / Year)

11. Date of Sale / Transfer: 4 / 2 / 2007 (Month / Day / Year)

12. Full Sale Price: 4,800,000

(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) *Please round to the nearest whole dollar amount.*

13. Indicate the value of personal property included in the sale: 0

14. Check one or more of these conditions as applicable to transfer:

A [ ] Sale Between Relatives or Former Relatives
B [ ] Sale Between Related Companies or Partners in Business
C [ ] One of the Buyers is also a Seller
D [ ] Buyer or Seller is Government Agency or Lending Institution
E [ ] Deed Type not Warranty or Bargain and Sale (Specify Below)
F [ ] Sale of Fractional or Less than Fee Interest (Specify Below)
G [ ] Significant Change in Property Between Taxable Status and Sale Dates
H [ ] Sale of Business is Included in Sale Price
I [ ] Other Unusual Factors Affecting Sale Price (Specify Below)
J [X] None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class: E 9

16. Total Assessed Value (of all parcels in transfer): 346,375

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

Staten Island	1208	1,3,17,p/o lot 8, tentative lot 1.

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and I understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

RASAY Corp
By

BUYER

BUYER SIGNATURE — DATE: 4/2/07

3075 (STREET NUMBER) Richmond Terrace (STREET NAME (AFTER SALE))

Brooklyn (CITY OR TOWN) N.Y (STATE) 11212 (ZIP CODE)

BUYER'S ATTORNEY

O'Neill (LAST NAME) William J. (FIRST NAME)

(718) (AREA CODE) 556-3800 (TELEPHONE NUMBER)

SELLER

SELLER SIGNATURE — DATE: 4/2/07

DC1507

(91)

Standard N.Y.B.T.U. Form 8002 4-81 SM—Quitclaim Deed—Individual or Corporation (single sheet)

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 24th day of December, nineteen hundred and ninety-eight

BETWEEN

CHARLES HAZELCORN, as Trustee of Infanti Chair Manufacturing Corporation
address is 1185 Avenue of the Americas, Suite 500
New York, NY 10036

party of the first part, and

HES REALTY, INC.
address is c/o Amboy National Bank, 3540 US Hwy 9,
P.O. Box 1067, Old Bridge, NJ 08857
attn: Stanley Kozyra, Sr.

party of the second part,

37049

WITNESSETH, that the party of the first part, in consideration of ten dollars paid by the party of the second part, does hereby remise, release and quitclaim unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the

* SEE ATTACHED SCHEDULE

Chapter 11
Bankruptcy Case No 96-18413-352

BOOK 9505 PAGE 306

TAX MAP DESIGNATION

Dist.

Sec.

Blk. 1208

Lot(s) 10

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part, in compliance with Section 13 of the Lien Law, hereby covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

CHARLES HAZELCORN, as Trustee of
Infanti Chair Manufacturing Corporation

BLD 9505 PAGE 307

BLOCK 1208
LOT 10

SCHEDULE A

ALL that certain plot, piece or parcel of land, lying, being and situate in the Borough of Staten Island, County of Richmond, city and State of New York, being further bounded and described as follows:

BEGINNING at a point on the northerly line of Richmond Terrace, distant 858.73 feet westerly of the corner formed by the intersection of the westerly line of Harbor Road Extension and the northerly line of Richmond Terrace; Coordinates of said point of beginning are South 7695.767 and West 33342.089; running

THENCE westerly and along the northerly line of Richmond Terrace, the following bearings and distances:

North 53 degrees 56 minutes 31 seconds West	5.24 feet
North 44 degrees 13 minutes 28 seconds West	185.36 feet
North 41 degrees 17 minutes 47 seconds West	73.84 feet
South 43 degrees 59 minutes 21 seconds West	6.40 feet
North 40 degrees 57 minutes 39 seconds West	15.06 feet

to a point; running

THENCE the following bearings and distances:

North 48 degrees 43 minutes 40 seconds East	88.20 feet
North 19 degrees 16 minutes 01 seconds East	57.41 feet
South 43 degrees 52 minutes 57 seconds East	301.00 feet
South 46 degrees 07 minutes 03 seconds West	135.01 feet

to the northerly line of Richmond Terrace and the point or place of BEGINNING.

BLOCKED 9/8/99 AL
REBLOCKED

L.10

STATE OF NEW YORK, COUNTY OF NEW YORK ss:

On the 24th day of December 19 98, before me personally came CHARLES HAZELCORN

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that he executed the same.

ISAAC NUTOVIC
Notary Public, State of New York
No. 31-4851429
Qualified in New York County
Commission Expires May 31, 19[illegible]

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19, before me personally came

to me known, who, being by me duly sworn, did depose and say that he resides at No.

that he is the ;

of

, the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed h name thereto by like order.

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19, before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

688000 $ RECEIVED
REAL ESTATE
TRANSFER TAX
RICHMOND
COUNTY

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19, before me personally came

the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No.

that he knows ;

to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed h name as witness thereto.

9/8/99

SECTION
BLOCK 1208
LOT 10
COUNTY OR TOWN Richmond
TAX BILLING ADDRESS
@ 3075 Richmond Terrace

BOOK 05 PAGE 308

Quitclaim Deed

TITLE NO. AC 1507

TO

FIDELITY NATIONAL TITLE
INSURANCE CO. OF N.Y.
TWO PARK AVENUE 3rd FLOOR
NEW YORK, N.Y. 10016
1-212-481-5858

25
+69
394

Recorded At Request of The Title Guarantee Company

RETURN BY MAIL TO:

ALAN J. BRODY
LAW OFFICES
WILENTZ, GOLDMAN & SPITZER
A PROFESSIONAL CORPORATION
90 WOODBRIDGE CENTER DRIVE
P. O. BOX 10
WOODBRIDGE, N. J. 07095-0911

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE

RECORDED IN RICHMOND COUNTY
ON SEP 08 1999
Marie J. Esposito
COUNTY CLERK

Standard N.Y.B.T.U. Form 8002 4-84 SM—Quitclaim Deed—Individual or Corporation (single sheet)

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 24th day of December, nineteen hundred and ninety-eight

BETWEEN

CHARLES HAZELCORN, as Trustee of Infanti Chair Manufacturing Corporation
address is 1185 Avenue of the Americas, Suite 500
New York, NY 10036

party of the first part, and MES REALTY, INC.
address is c/o Amboy National Bank
attn: Stanley Kaczyde, Sr.
3590 US Hwy 9, P.O. Box 1076, Old Bridge, NJ 08857

37050

party of the second part,

WITNESSETH, that the party of the first part, in consideration of ten dollars paid by the party of the second part, does hereby remise, release and quitclaim unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the

SEE ATTACHED SCHEDULE

Chapter 11
Bankruptcy Case # 96-18413-352

TAX MAP DESIGNATION

Dist.

Sec.

Bl. 1208

Lot(s): P/O 1

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part, in compliance with Section 13 of the Lien Law, hereby covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

CHARLES HAZELCORN, as Trustee of
Infanti Chair Manufacturing Corporation

RECD 9505 PAGE 309

To Be Conveyed

Tax Block 1208 P/O Lot 1

All that certain lot, piece or parcel of land situate, lying and being in the Borough of Staten Island, City and State of New York bounded and described as follows:

Beginning at a point on the Northerly record line of Richmond Terrace, distant 738.53 feet Westerly from the intersection of the Northerly record line of Richmond Terrace and the Westerly record line of Harbor Road Extension; said point having the coordinates of South 7166.642 and West 33244.744.

Running thence Westerly along said Northerly record line of Richmond Terrace

North 53° 56' 31" West 120.41 feet to a point;

North 46° 07' 03" East 135.01 feet to a point; thence

North 43° 52' 57" West 21.42 feet to the true point of beginning: thence the following courses and distances:

North 43° 52' 57" West 279.58 feet

North 19° 16' 01" East 34.04 feet

North 20° 55' 30" East 43.72 feet

South 75° 11' 39" East 233.41 feet

South 15° 17' 00" West 222.71 feet to the true point of beginning.

Subject to an Easement in liber 2303 page 14 in which the area is included.

Containing 35,765.63 square feet or 0.821 Acres.

BLOCKED 4/8/99 CL

REBLOCKED

MEL 9505 PAGE 310

7/1/11

To Be Conveyed

Tax Block 1208 P/O Lot 1

All that certain lot, piece or parcel of land situate, lying and being in the Borough of Staten Island, City and State of New York bounded and described as follows:

Beginning at a point on the Northerly record line of Richmond Terrace, distant 738.53 feet Westerly from the intersection of the said Northerly record line of Richmond Terrace and the Westerly record line of Harbor Road Extension. Said point having the coordinates of South 7166.642 and West 33244.744.

Running thence Westerly along said Northerly record line of Richmond Terrace North 53° 56' 31" West 120.41 feet to a point;

Running thence the following courses and distances:

North 46° 07' 03" East 124.46 feet to a point on the Southerly line of an Easement described in Liber 2303 of Deeds page 14;

Running along said Southerly line of Easement

South 44° 39' 04" East 101.69 feet

South 36° 58' 04" East 106.14 feet to the point or place of beginning.

Containing 12,717.119 square feet or 0.291 Acres.

Subject to the widening of Richmond Terrace as adopted by the City of New York January 10, 1974.

Coordinates and bearings are in the system as established by the United States Coast and Geodetic Survey for the Borough of Staten Island.

BLOCKED 9 8-99 CL.
REBLOCKED

RED 9505 PAGE 311

EASEMENT

Tax Block 1208 p/o lot 1

All that certain lot, piece or parcel of land situate, lying and being in the Borough of Staten Island, City and State of New York bounded and described as follows:

Beginning at a point on the Northerly record line of Richmond Terrace, distant 738.33 feet Westerly from the intersection of the Westerly record line of Harbor Road Extension: said point having the coordinates of South 7166.662 and West 33244.744.

Running thence Westerly along the Northerly record line of Richmond Terrace North 53° 56' 31" West 120.41 feet to a point; thence North 46° 07' 03" East 136.46 feet to a point on the Northerly line of an Easement described in Liber 2303 page 14.

Running thence along said Northerly line of said Easement North 44° 39' 04" West 1.31 feet to a point which is the true point of beginning of an Easement to be granted; thence along the Northerly line of said Easement in Liber 2303 page 14 North 44° 39' 04" West 20.80 feet to a point; thence the following courses and distances:

North 15° 17' 00" East	221.37 feet
South 75° 11' 39" East	18.00 feet
South 15° 17' 00" West	231.94 feet to the true point of beginning.

Containing 4079.62 square feet or 0.0937 Acres.

MBD 9505 PAGE 312

1/9/11

STATE OF NEW YORK, COUNTY OF NEW YORK ss:

On the 24th day of December 19 98, before me personally came

CHARLES HAZELCORN

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that he executed the same.

ISAAC HUTOVIC
Notary Public, State of New York
No. 31-4851429
Qualified in New York County
Commission Expires May 31, 1999

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

to me known, who, being by me duly sworn, did depose and say that he resides at No.

;

that he is the

of

, the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed h name thereto by like order.

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

000890

RECEIVED
$
REAL ESTATE
TRANSFER TAX
RICHMOND
COUNTY

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No.

;

that he knows

to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed h name as witness thereto.

9/8/99

SECTION
BLOCK 1208
LOT 9/01
COUNTY OR TOWN Richmond
TAX BILLING ADDRESS
@ 3075 Richmond Terrace

Quitclaim Deed

TITLE NO. AC 1507

TO

Recorded At Request of The Title Guarantee Company
RETURN BY MAIL TO:

ALAN J. BRODY
LAW OFFICES
WILENTZ, GOLDMAN & SPITZER
A PROFESSIONAL CORPORATION
90 WOODBRIDGE CENTER DRIVE
P. O. BOX 10
WOODBRIDGE, N. J. 07095-0811

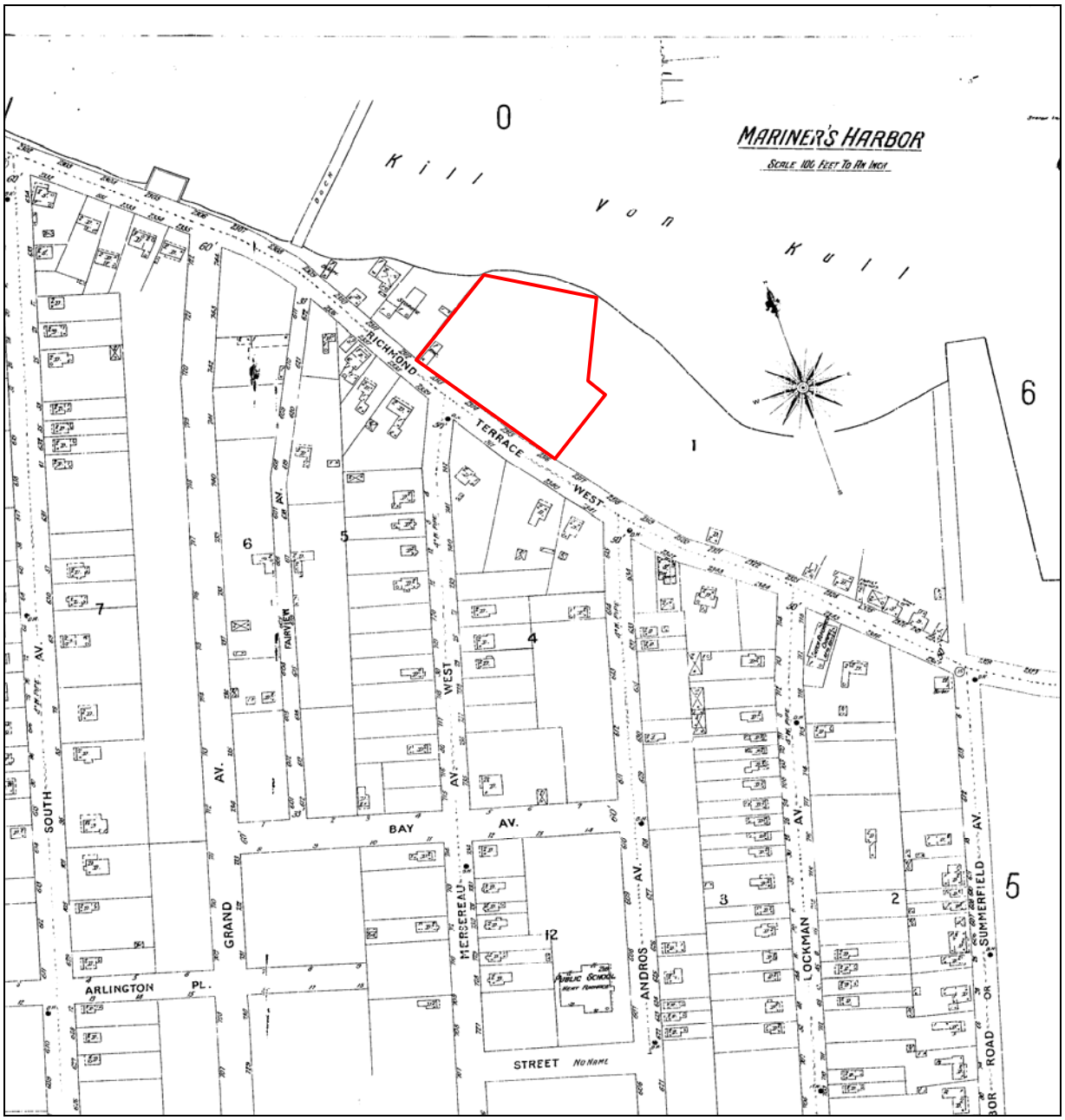
FIDELITY NATIONAL TITLE INSURANCE CO. OF NY
TWO PARK AVENUE 20TH FLOOR
NEW YORK, N.Y. 10016
1-212-481-5959

RECORD & RETURN TO:

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE

RECORDED IN RICHMOND COUNTY
ON SEP 08 1999
Mario J. Esposito
COUNTY CLERK

HISTORICAL RESEARCH INFORMATION



Source: EDR
1898

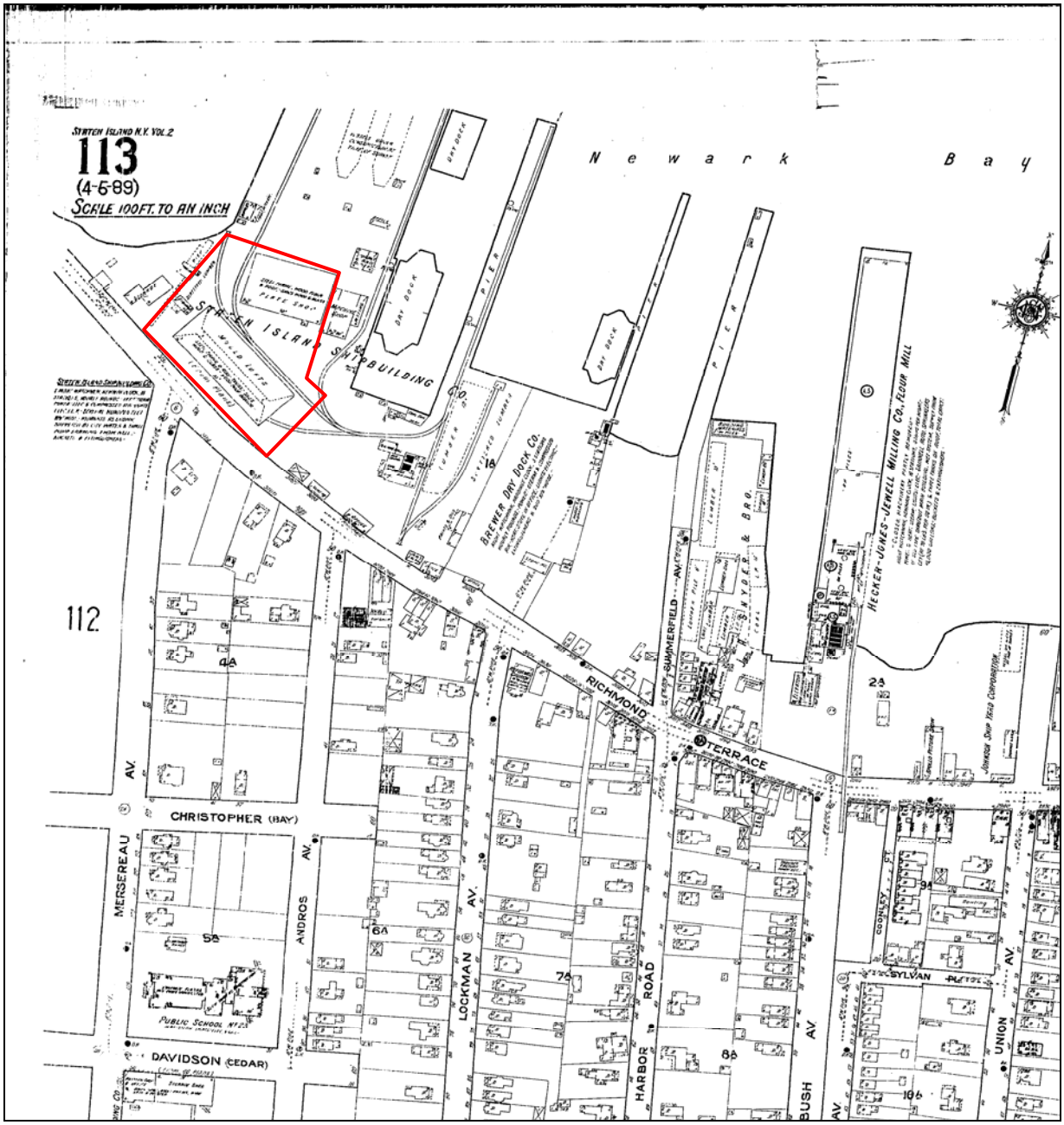
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1917

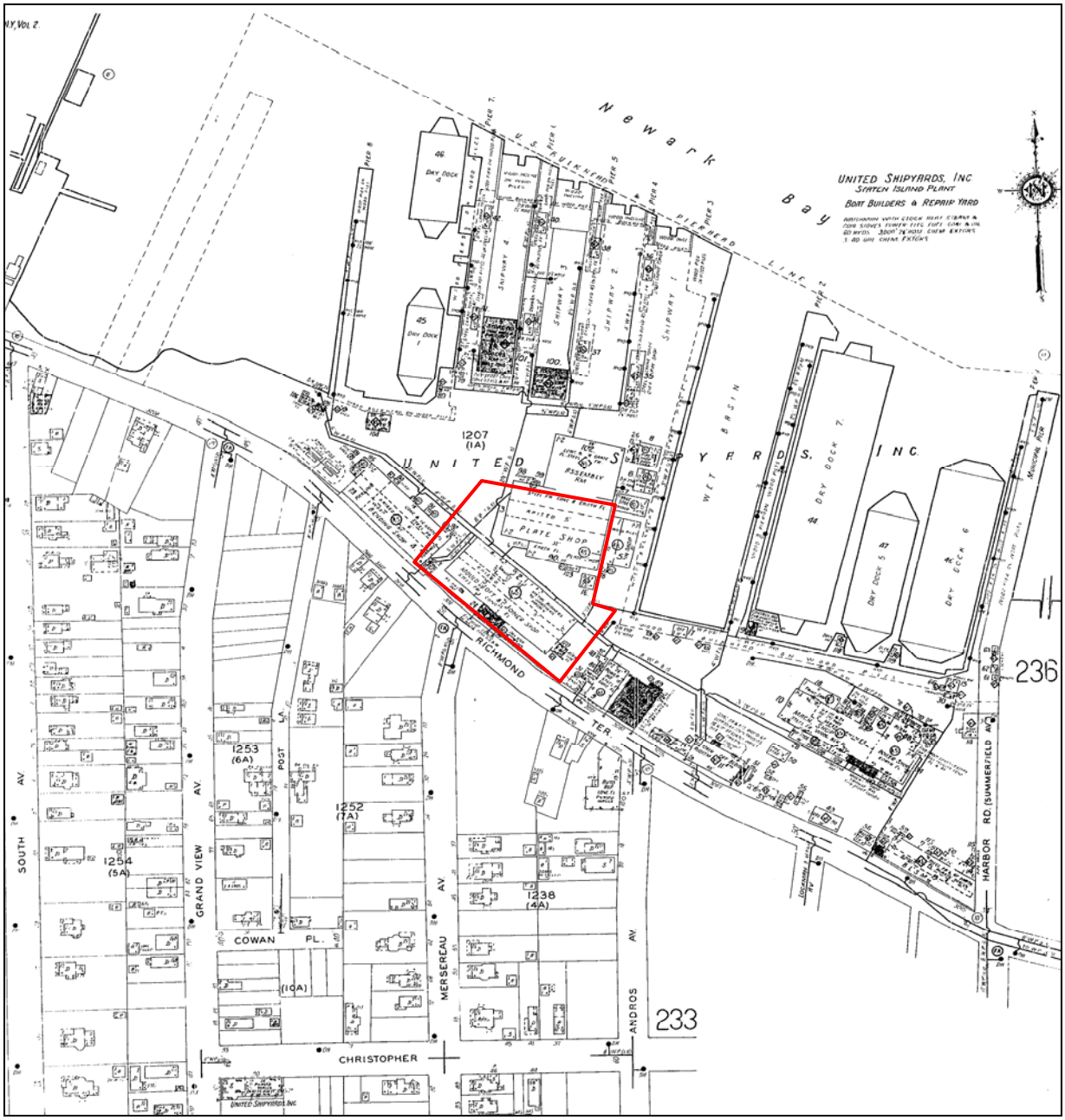
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1937

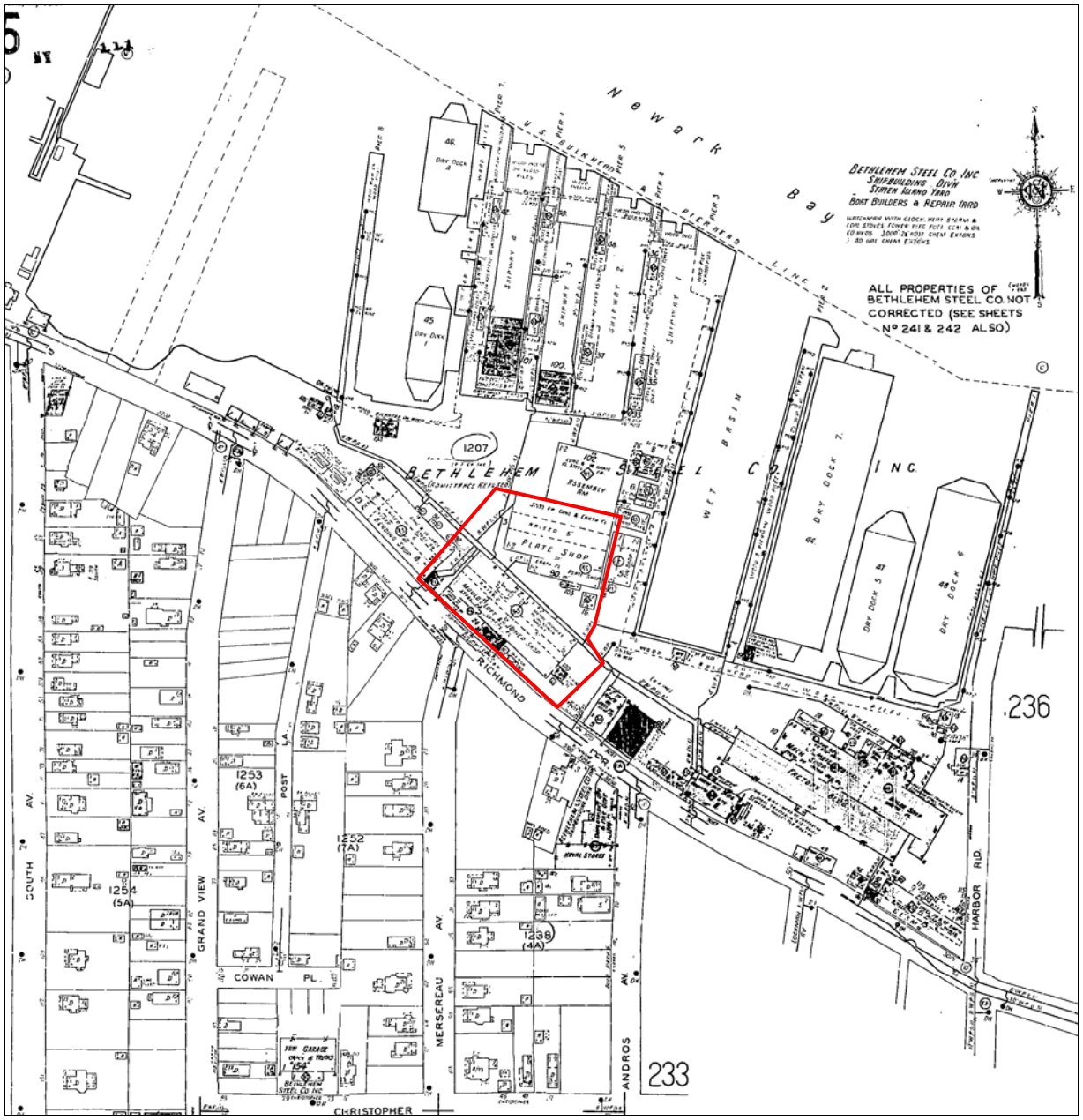
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

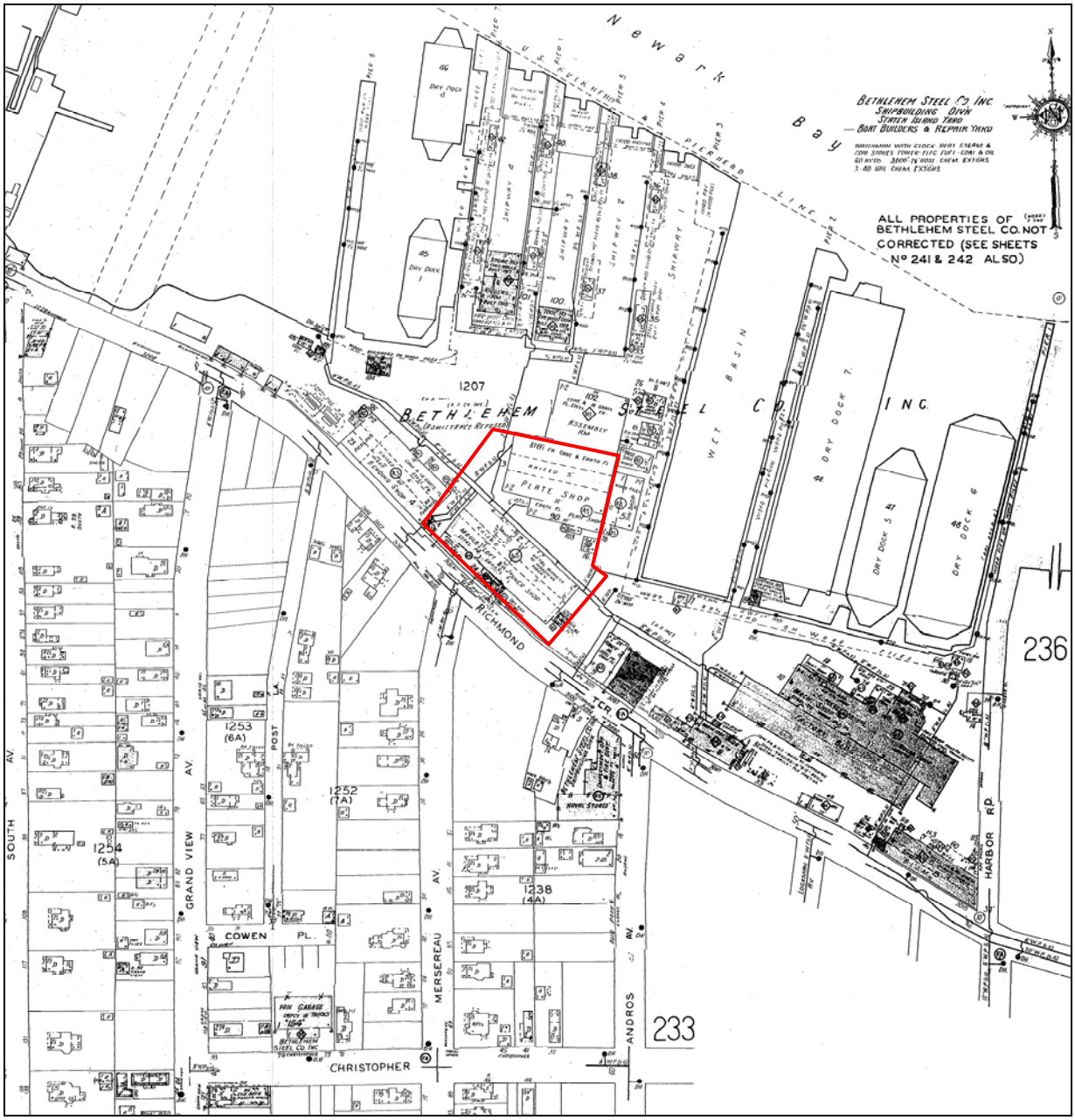
Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



	Source: EDR **1950**
Information To Build On Engineering • Consulting • Testing	**Sanborn Fire Insurance Map**
	Proposed Devon Self Storage **3075 & 3131 Richmond Terrace**
	Staten Island, New York **Project No. 046-7E014**



Source: EDR
1962

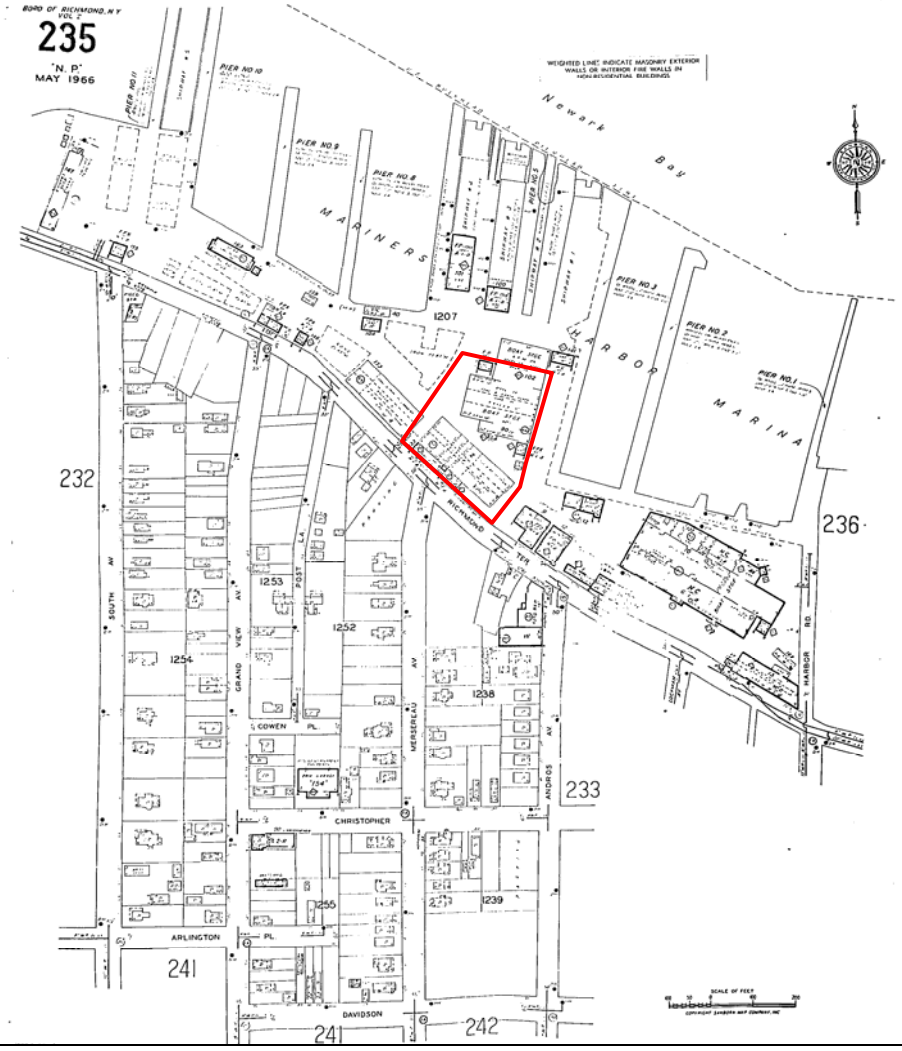
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1977

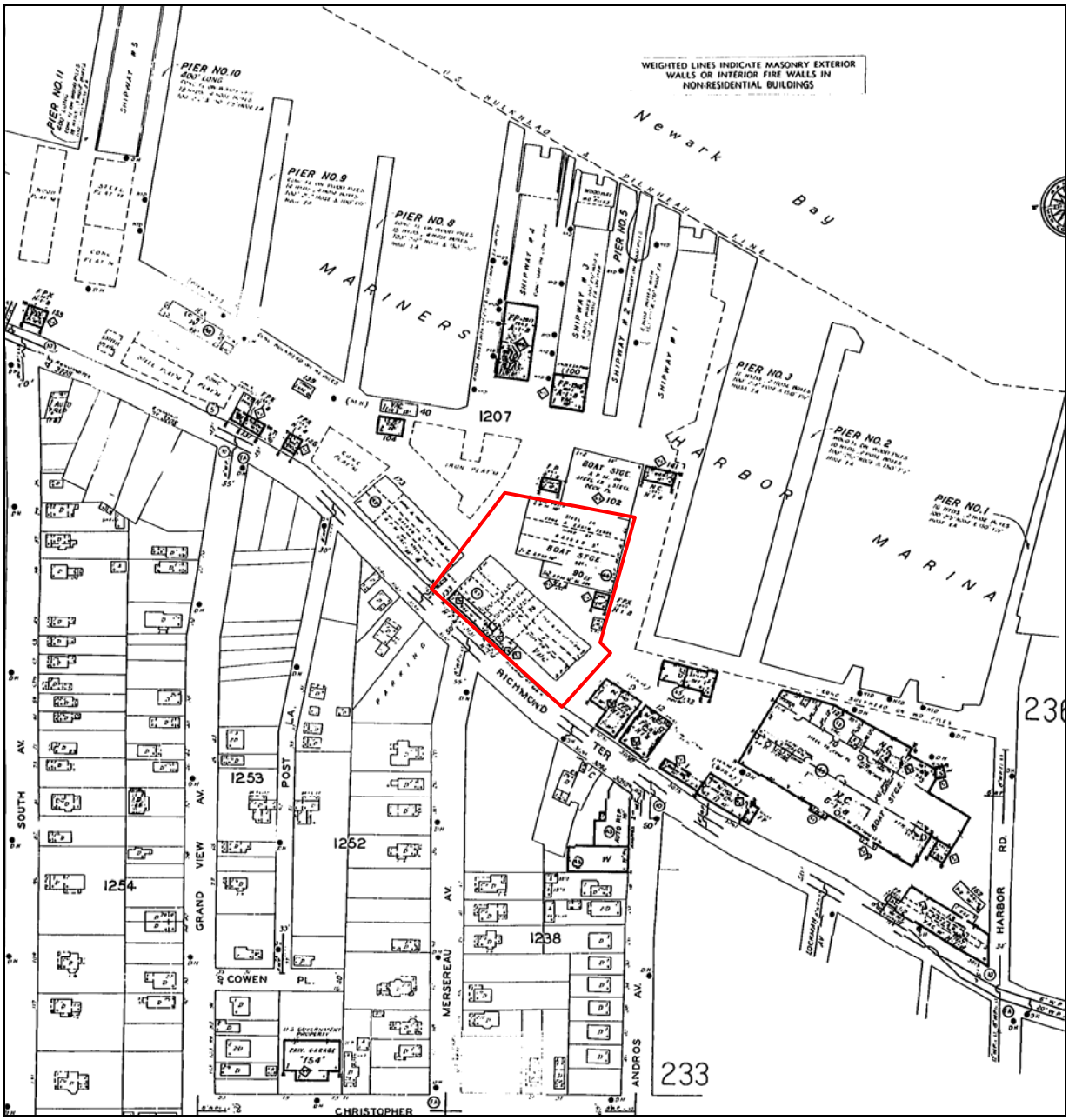
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1981

Sanborn Fire Insurance Map

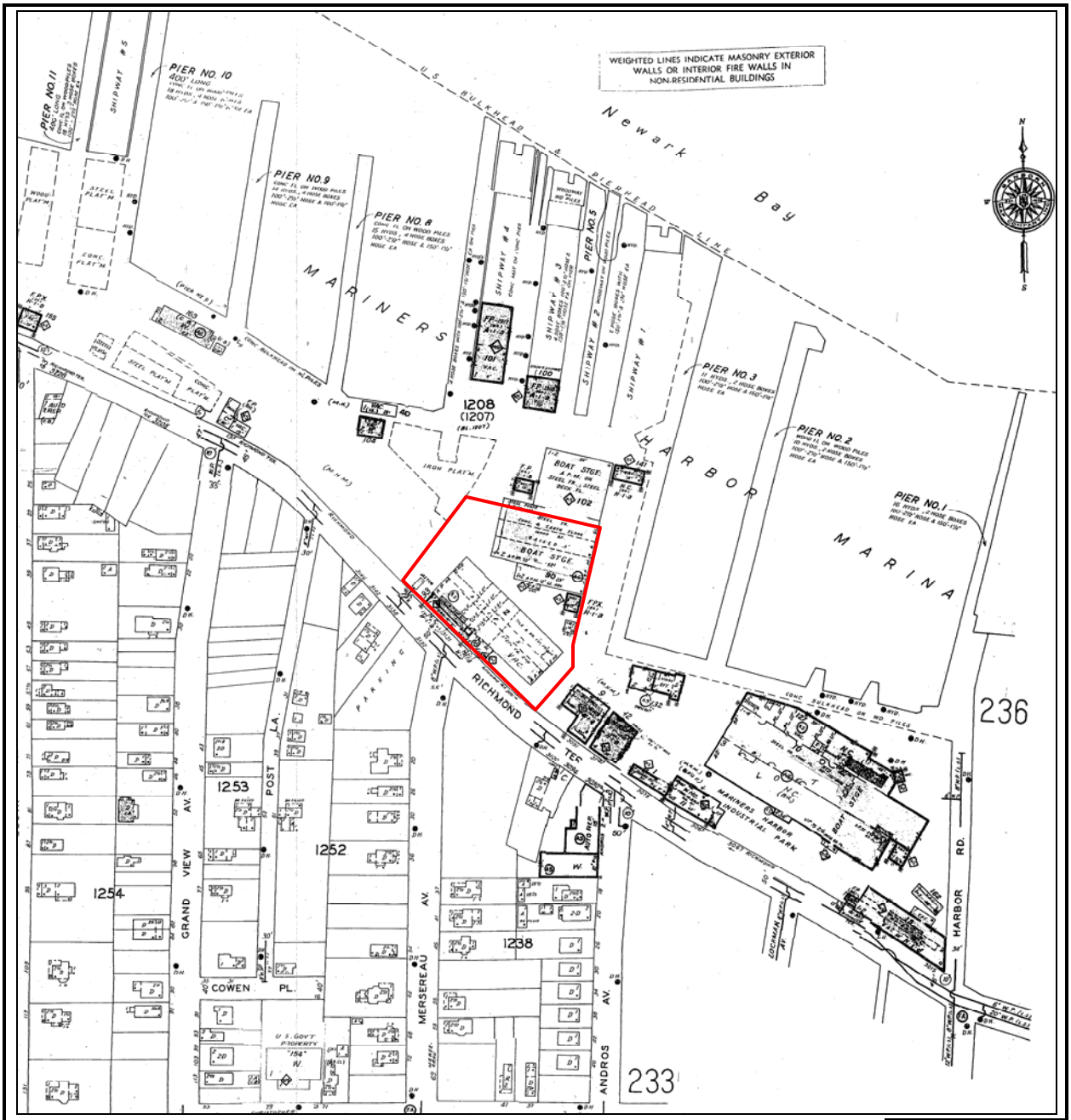
Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing

	Source: EDR **1983**
Information To Build On Engineering • Consulting • Testing	**Sanborn Fire Insurance Map**
	Proposed Devon Self Storage **3075 & 3131 Richmond Terrace**
	Staten Island, New York **Project No. 046-7E014**



Source: EDR
1986

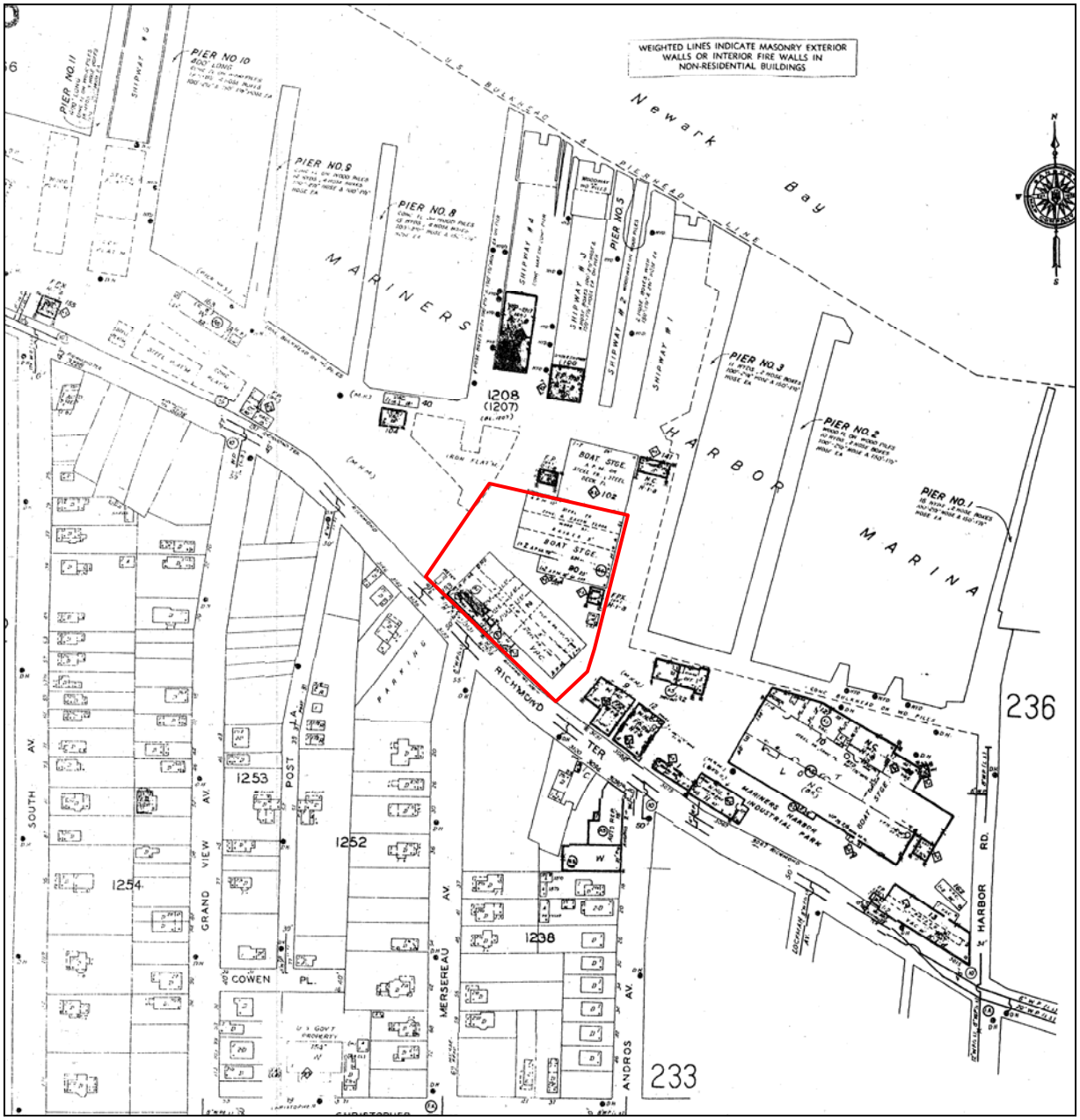
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1987

Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing

Source: EDR
1988

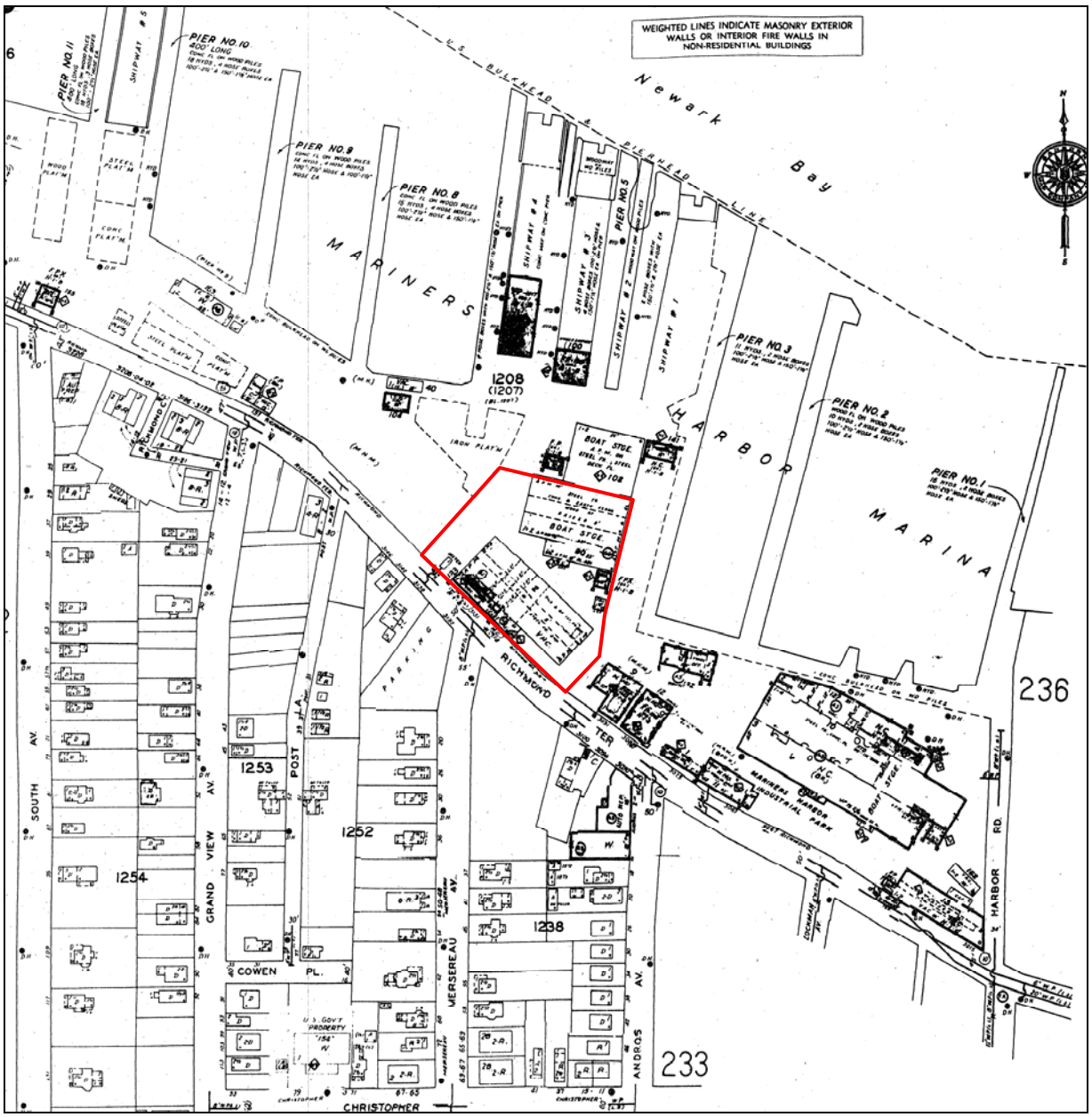
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1989

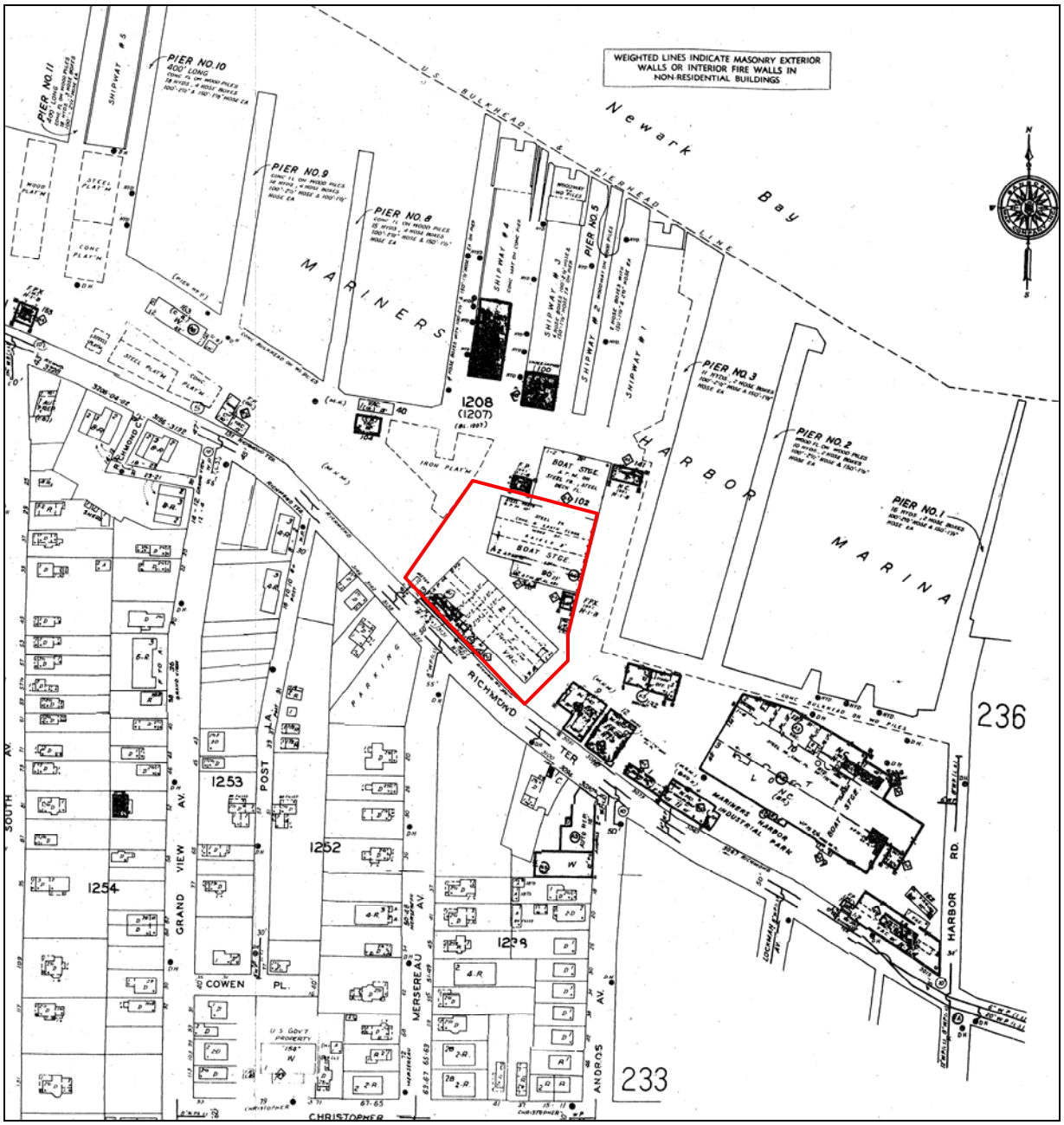
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1990

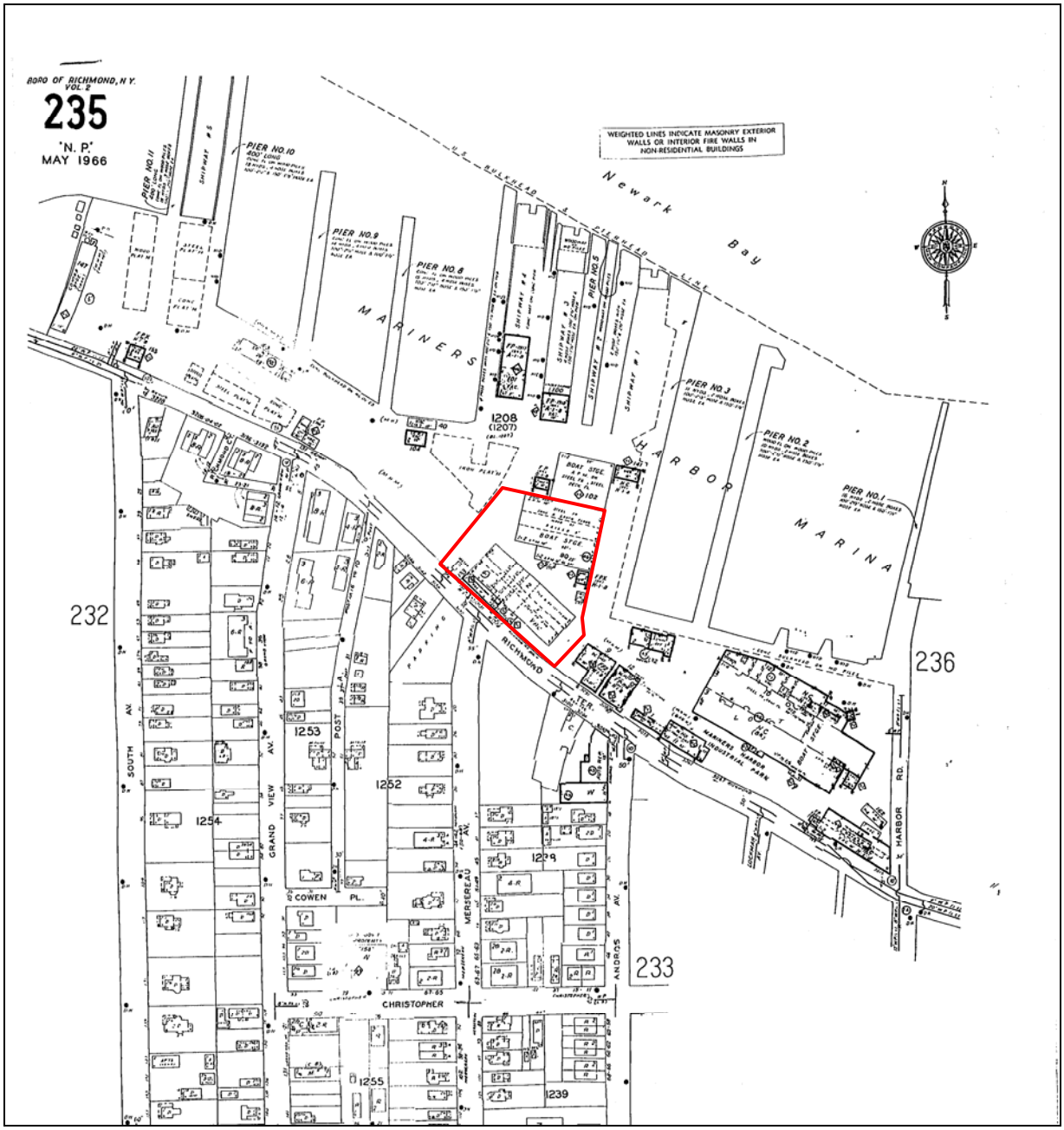
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1992

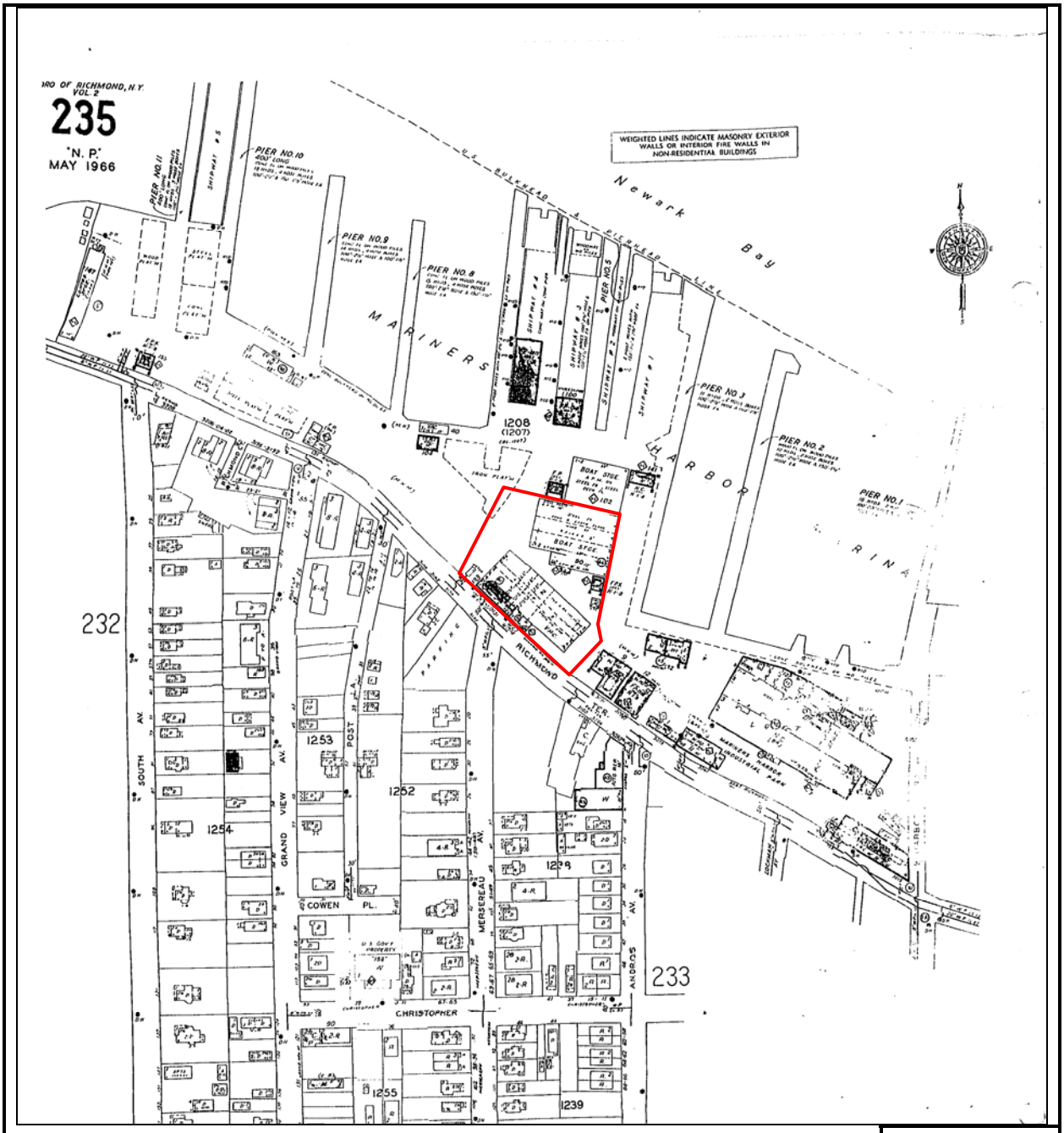
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1993

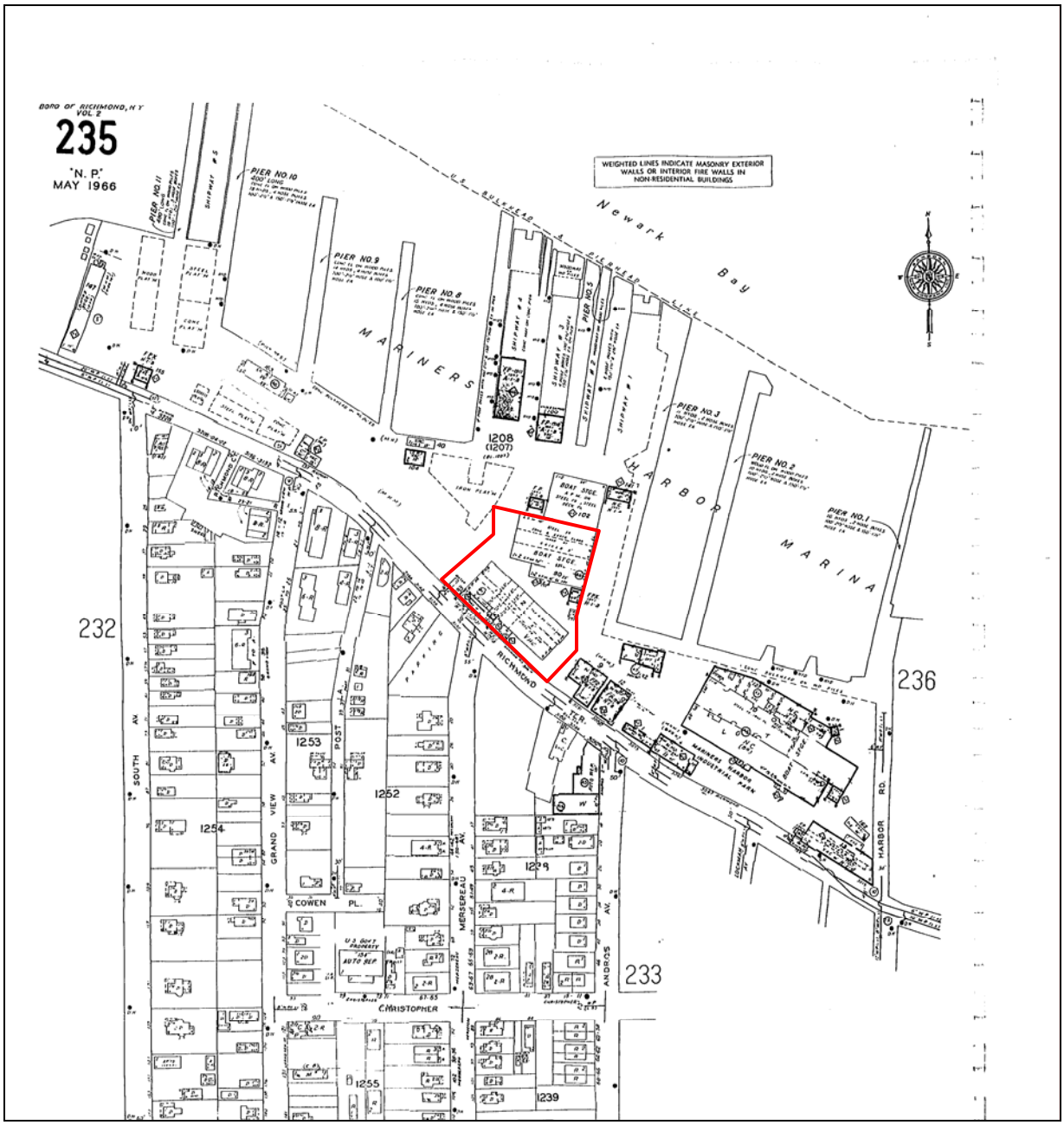
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1995

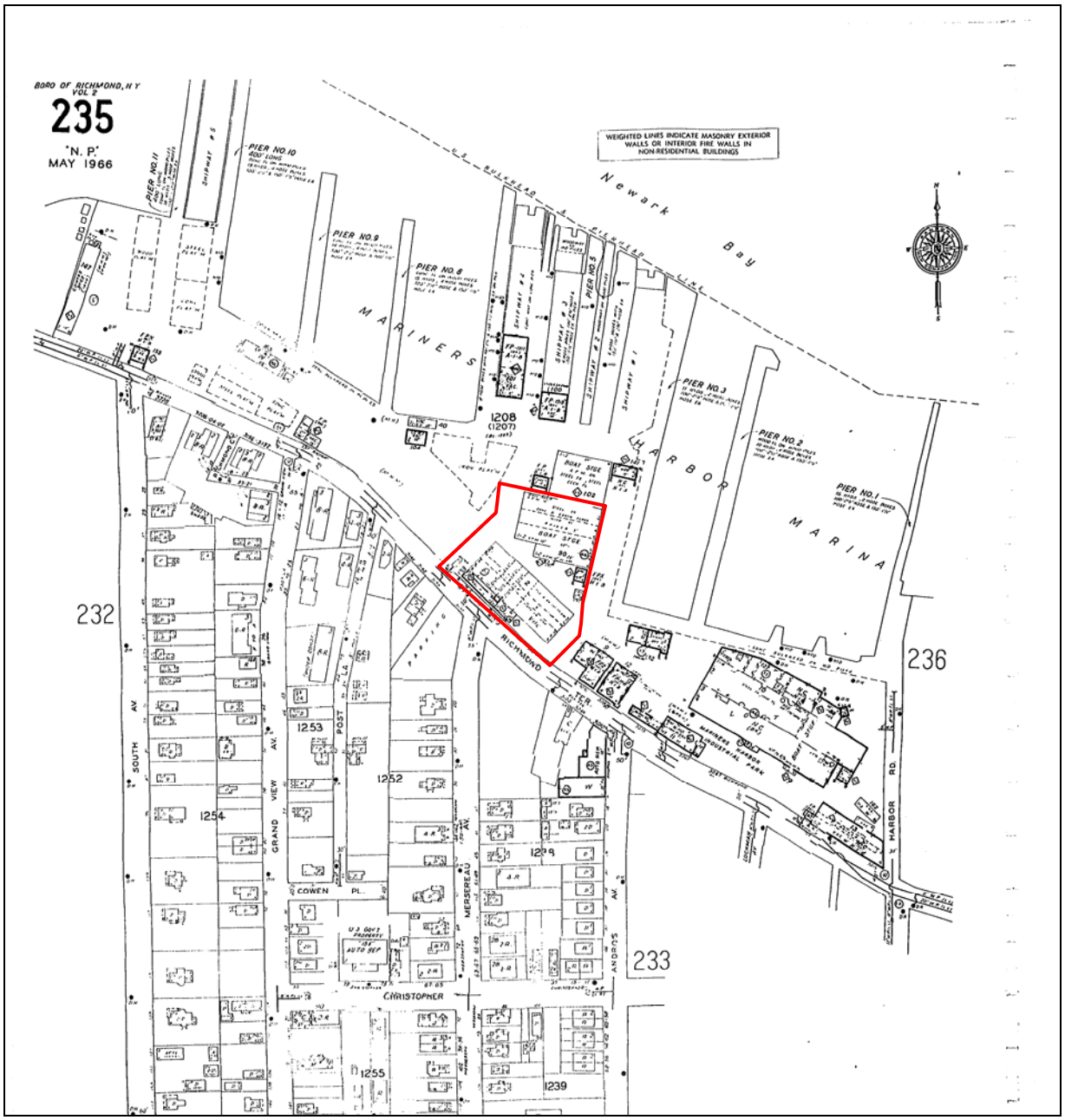
Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



Source: EDR
1996

Sanborn Fire Insurance Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

Project No. 046-7E014

psi Information To Build On
Engineering • Consulting • Testing

The EDR-City Directory
Abstract

Proposed Devon Self Storage
3075 Richmond Terrace
Staten Island, NY 10303

Inquiry Number: 1899735.6

Thursday, April 12, 2007

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2007 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2000. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

This report compiles information by geocoding the subject properties (that is, plotting the latitude and longitude for such subject properties and obtaining data concerning properties within 1/8th of a mile of the subject properties). There is no warranty or guarantee that geocoding will report or list all properties within the specified radius of the subject properties and any such warranty or guarantee is expressly disclaimed. Accordingly, some properties within the aforementioned radius and the information concerning those properties may not be referenced in this report.

Date EDR Searched Historical Sources: April 12, 2007

Target Property:
3075 Richmond Terrace
Staten Island, NY 10303

Year	***Uses***	***Source***
1928	Address Not Listed in Research Source	New York Telephone
1934	Address Not Listed in Research Source	R. L. Polk Co.
1960	Address Not Listed in Research Source	New York Telephone Company
1965	****RICHMOND TER****	New York Telephone Company
	LIQUID CONCENTRATES INC (3075)	
1970	****RICHMOND TER****	New York Telephone
	BALL JIM CORP WREHSG & COOPRG (3075)	
	BALL JIM CORP WREHSG & COOPRG (3075)	
	MARINERS HRBR CORP (3075)	
	O & M PROPELLER SVCE (3075)	
1975	****RICHMOND TER****	New York Telephone Company
	O & M PROPELLER SVCE (3075)	
1979	****RICHMOND TER****	New York Telephone
	1400 AUTO DEPOT INC (3075)	
	A BETA MAILING SVCE (3075)	
	ADI INC (3075)	
	AMERICAN DREDGING CO (3075)	
	AUTO DEPOT INC 1400 (3075)	
	BENIGNO & SARULLO INC (3075)	
	BYRNES LAUNDRY & LINEN SUPL INC (3075)	
	CANDO COLLISION SPECIALIST LTD (3075)	
	CLOVE AUTO RENTAL & LEASING CORP (3075)	
	COMMODORE MARINE INC (3075)	
	GOODWILL DIESEL SVCES (3075)	
	INFANTI METAL FURNITURE INC (3075)	
	INFANTI MIETAL FURNITURE INC (3075)	
	J & L TRADING CORPORATION (3075)	
	KLEIN ARTHUR J & CO REAL ESTATE (3075)	
	KLEIN MDNROE J RLTR (3075)	
	LORSON ELECTRIC CO INC (3075)	
	MARINER S INDUSTRIAL PARK GATE (3075)	

Year	Uses	Source
1979 (continued)		
	MARINERS HARBOR INDUSTRIAL PARK (3075)	
	MARJET INTERNATIONAL INC (3075)	
	MOHAWK FIRE EQUIPT CO (3075)	
	NEW YORK SHIP SUPL (3075)	
	QUANCI PETER R AIR CONDITIONING (3075)	
	RICHMOND COFFEE CORP (3075)	
	SCHOYLERS BUMPERS INC (3075)	
1984	****RICHMOND TER****	New York Telephone
	ABCO SEWERS & SEPTICS (3075)	
	BYRNES LAUNDRY & LINEN SUPL INC (3075)	
	CHRISLNGE ELECTRONICS CORP (3075)	
	EAGLE COFFEE (3075)	
	GENERAL FORKLIFT CO INC (3075)	
	HUNSDORFER UOYD PLUMBING & HEATING (3075)	
	INFANTI METAL FABRICATORS INC (3075)	
	KAJONS TRADING CORP (3075)	
	KASWOL CORP ST LIGHTING DIV (3075)	
	KASWOL CORP STREET LIGHTING DIVISION (3075)	
	KLEIN MONROE J RLTR (3075)	
	LORSON ELECTRIC CO INC (3075)	
	MANHATTAN OIL TRANSPORTATION OF NY INC OPERATIONS (3075)	
	MARINERS HARBOR INDUSTRIAL PARK (3075)	
	MARJET INTERNATIONAL INC (3075)	
	NEW YORK SHIP SUPL (3075)	
	POLING TRANSPORTATION (3075)	
	SCHUYLER S BUMPERS & FENDERS INC (3075)	
	SHELTER SHED NATIONAL INC (3075)	
	TOFTEJORG INC MARINE EQUIPMENT & SUPPLIES (3075)	
	UNIVERSAL LEASING CORP (3075)	
	VALUE EQUITY CORP (3075)	
1990	****RICHMOND TER****	NYNEX Information Resource Company
	ABCO SEWER & SEPTIC TANK CLEANERS (3075)	
	BYRNE S LAUNDRY & LINEN SUPL INC (3075)	
	CASALE TILE (3075)	
	CHRIS INGE ELECTONICS CORP (3075)	
	CLOVE AUTO RENTAL & LEASING CORP (3075)	
	EAGLE COFFEE (3075)	
	HUNSDORFER LLOYD PLUMBING & HEATING (3075)	
	INFANTI METAL FARRECATORS INC (3075)	
	J SCARAMELLA TRUCKING LTD (3075)	
	KLEIN ARTHUR J & CO REAL ESTATE (3075)	
	KLEIN MONROE J RLTR (3075)	

Year	Uses	Source
1990 (continued)		
	KLEIN MONROE JAY (3075)	
	LORSON ELECTRIC CO INC (3075)	
	MARINERS HARBOR INDUSTRIAL PARK (3075)	
	MARJET INTERNATIONAL INC (3075)	
	MONTAUK OIL TRANSPORTATION CO (3075)	
	NAVIS REALTY INC (3075)	
	O & M PRPPELLER SVCE (3075)	
	REINAUER TRANSPORTATION CO INC (3075)	
	SCARAMELLA D TRUCKING INC (3075)	
	SCARAMELLA TRUCKING INC (3075)	
	STYLISTIC TILE CO (3075)	
	TRI STATE FIRE CONTROL (3075)	
1995	****RICHMOND TER****	NYNEX
	BARBIERI ENTERPRISES INC (3075)	
	EAGLE COFFEE (3075)	
	INFANTI CHAIR MANUFACTURING (3075)	
	J & S PLUMBING & HEATING LTD (3075)	
	MARJET INTERNATIONAL INC (3075)	
	MAY SHIP REPAIR CONTRACTING CORP (3075)	
	MAY SHIP YARD CONTRACTING (3075)	
	O & M PROPELLER SVCE (3075)	
	SCARAMELLA D TRUCKING INC (3075)	
	SCARAMELLA TRUCKING INC (3075)	
	T C M CORP (3075)	
	THREE STATES CONSTRUCTION CORP (3075)	
	TURECAMO MARITIME INC (3075)	
	TURECAMO MARITIME INC (3075)	
	V & S CARAMEILA TRUCKING INC (3075)	
	VALUE EQUITY CORP (3075)	
2000	****RICHMOND TER****	Cole Information Services
	ANDRSON AVE INTS (3075)	
	ADVANC INC (3075)	
	EAGLE COFFEE (3075)	
	INFANTI ISTRAD (3075)	
	J SCNULL TRUCKING (3075)	
	MAY SHIP REPAIR (3075)	
	MAY SHIP RPR CORP (3075)	
	MAY SHIP RPR CORP (3075)	
	MAY SHP YD CONTRNG (3075)	
	SAVIA STAVES (3075)	
	SISHRO TRCKAG INC (3075)	
	TRICON ENTRPTSS (3075)	

Adjoining Properties

SURROUNDING

Multiple Addresses
Staten Island, NY 10303

Year	Uses	Source
1928	**ANDROS AVE**	New York Telephone
	WOLTMAN A M MISS R (18)	
	O TOOLE M P MISS R (27)	
	KLEIN G J R (41)	
	CASTELLUCCI P R (47)	
	OLIVER M MISS R (81)	
	ANDRUS AVE	New York Telephone
	DAHL A R (23)	
	BUSH AVE	New York Telephone
	LAFATA G PANTS (14)	
	LAFRADO B GENL TRUCKNG (24)	
	SCHWERDFIGER G R (44)	
	CONTI S & SON ROOFERS (60)	
	WYNANS C E R (72)	
	MILLER CHAS W R (76)	
	HARBOR RD	New York Telephone
	DANTAS A R (12)	
	MAIORANO M R (26)	
	LACKMAN AVE	New York Telephone
	SETTANNI LUCY R (119)	
	LOCKMAN AVE	New York Telephone
	PRESCOTT O C R (17)	
	HOLSTEIN W J R (36)	
	BOERUM G MISS R (42)	
	HAYES THEO R (42)	
	CONKLIN C C R (54)	
	OGLE A C R (57)	
	HYDE CHAS E R (69)	
	AJELLO M MRS R (70)	
	HOLMAN L R (78)	
	CAULFELT K MRS R (113)	
	LOCKMN AVE	New York Telephone
	DECKER ANNIE E MRS R (27)	
	WILSHEIE F B R (101)	
	LOCKMSAN AVE	New York Telephone
	MARTIN H S R (61)	

Year	Uses	Source
1928 (continued)		
	****RICHMD TER****	New York Telephone
	HARBOR RUBBER CO (2980)	
	****RICHMOND TER****	New York Telephone
	LORICH J RESTNT (3030)	
	PICHURKO WM BAKERY (3066)	
1934	****ANDROS AVE****	R. L. Polk Co.
	PEDERSON J A RIGGER R (18)	
	WOLTMAN EDITH J BLKPR R (18)	
	WOLTMAN HARRY WTCHMN R (18)	
	ARLINGTON BRASS FOUNDRY TN HARRY Y & HARRY F HOGARTH JR BRAS (19)	
	BURNET FREDK MACH R (20)	
	DAHL ALEX SOPHIE H (23)	
	OTOOLE F OFFICE BOY R (27)	
	PARKE WALTER WLDR R (27)	
	PARKS ALF CARP R (27)	
	PARKS FRANK CARP R (27)	
	BEUTEL CLARENCE F CLK R (29)	
	CHAMBERLAIN ISABEL STEN R (41)	
	KROEHLING CARL SHT MTL WKR R (41)	
	HEINZARLING MARY WID AUG R (47)	
	OLIVER WM E J LOUISE SLSMN H (81)	
	MC KEEVER JOHN J MARY RIGGER H (87)	
	****BUSH AVE****	R. L. Polk Co.
	MAR MANUEL LAB R (13)	
	LA FATA GASPARE GRACE PANTS MFR (14)	
	SCAMARDELL CAREY PANTS OPR CASPAR LAFOTA (14)	
	AGNELLO FRANK MACH OPR R (18)	
	AGNELLO ISADORA LOUISE PANTS OPR H (18)	
	AGNELLO JAS C PANTS OPR R (18)	
	AGNELLO JENNIE A R (18)	
	AGNELLO JOS L PANTS OPR R (18)	
	AGNELLO MICHL FCTKRR R (18)	
	VIRGA FARO LAURA PANTAS OPR R (20)	
	VIRGA LUCREZLA MRS PANTA OPR R (20)	
	VIRGA ROCEO R (20)	
	VIRGA SAML PANTS OPR R (20)	
	VIRGA SERRA PANTA OPR R (20)	
	FELSI JOS PORTER R (24)	
	LAFRADO BARNEY BILLIARD PARLOR (24)	
	LAFRADO MICHL JOSEPHINE BLRMKR R (24)	
	H (24)	

Year	Uses	Source
1934 (continued)		
	DE ROSA JAS LOUISE CLK STATEN ISL PO H (26)	
	DE ROSA LOUISE MACH OPR RICHNMOND KNEE PANTS CO R (26)	
	FIUMANO CHAS GRACE STATIONERY (26)	
	FUMANO CHAS J GRACE F CONFR H (26)	
	H (26)	
	BAGGESEN ESTHER FETY WKR R (28)	
	WALTER DOROTHY A R (28)	
	WALTER FRANK H MINNIE E SLSMN H (28)	
	BUONASSISI SALVATO TE ANNA EUREKA SHOE REPAIRING H (30)	
	FRESOLI DOMINICK ANNA GENL MDSE (34)	
	FREZOLI DOMINIC ANNA DRY GDS MER H (34)	
	MANGANARO FRANK ANNA LAB H (34)	
	H (34)	
	WILKINSON EDITH E BKPR R (38)	
	WILKINSON GEO H KATH R FORMN WOODWKR H (38)	
	WILKINSON HENRY A R (38)	
	LURNETTA MATTHEW OPR CASPER LAFATA R (41)	
	PARATURE MARY MACH OPR R (42)	
	PARATURE WM MARY MACH OPR H (42)	
	PUCCIO JAS CATH LAB H (42)	
	PUCCIO NETTIE CLK R (42)	
	GARFORA DOMINIC MARGT CIGAR DLR H (43)	
	MAYER CHAS SEAMN R (43)	
	PENELN JOHN MARY PORTER H (43)	
	SCHWERFEGER CHAS A LAB R (44)	
	SCHWERFEGER GEO C CARP H (44)	
	SCHWERFEGER LOUISE PANTS OPR R (44)	
	FELCI BENJ LAB R (45)	
	FELCI GAETANO ELIZ LAB H (45)	
	BASANTA PAULINA ROSE LAB H (47)	
	MC PARLAND MARY WID JOHN H (47)	
	LOWERY FLORENCE SLSWN PR R (49)	
	LOWERY JOS BLRMKR BREWER DRY DOCK CO R (49)	
	CAMPITIELLO GRACE A R (50)	
	CAMPITIELLO JOS FANNIE TAILOR (50)	
	CAMPITIELLO JOS L R (50)	
	CAMPITIELLO PHILOMENA J DRS OPR R (50)	
	CAMPITIELLO RALPH PANTS OPR R (50)	
	R (50)	
	DOMIGO VINCENZO LAB H (51)	
	BARECUA REYMON LAB H (53)	
	CIPRADDO MAICHI LAB R (53)	

Year	Uses	Source
1934 (continued)		
	HALLBOM OSCAR L EMMA M LAB H (55)	
	HALLBOM SIGMUND L LENNAIN CHAUF R (55)	
	WHITE IRVING CHRISTINA PRINTER H (57)	
	HERRERO CESARIO LAB R (58)	
	ECKERT CHAS H ANNA M LAB H (59)	
	ECKERT WARREN C R (59)	
	CONTI & SON TN JOS AND SALVATORE CONTI ROOFERS (60)	
	CONTI ANDREW BLRMKR R (60)	
	CONTI JOS CONTI & SON R (60)	
	CONTI SALVATORE FORTUNATE CONTI & SON H (60)	
	PETIT NELSON L AGNES M RIVER PIOLOT H (61)	
	CARRATURO DOMENICO LOUISA BARBER (62)	
	MASCOLO CARMINE FRANCES LAB H (62)	
	H (62)	
	STODDARD ELLA WID JOHN P H (66)	
	LINDELL MARIE W WID JOHN H (67)	
	SINKKILA ARNE MARIE E SLSMN R (67)	
	DI MAURO ANGELO LAB R (69)	
	DI MAURO ANTHONY SANTA JANITOR H (69)	
	DI MAURO JOS LAB R (69)	
	DI MAURO SALVATORE LAB R (69)	
	FAZZELLI JOS RUTH CLK H (72)	
	WYNANS CHAS MAUD E ENG H (72)	
	WYNANS ROSS FORMN R (72)	
	WYNANS WIIBUR P FORMN PLMBR R (72)	
	MILLER CHAS W DORA B ENG STATEN ISLAND RAPID TRANSIT RV CO H (76)	
	WYNANS MARY J WID CHAS R (76)	
	BLAMGVIT HUGO LAB R (79)	
	BLOMQUIST HUGO CARP H (79)	
	HOLM L STAGE BLDR R (79)	
	LIND ERIC LAB R (79)	
	UPHAM ROY MABEL SIGN AND SHOW WRITER (79)	
	UPHAM ROY MABEL SIGN AND SHOW WRITER (79)	
	URPI SULO V ROSE H (79)	
	URPI WM RTE SLSMN R (79)	
	ULLRICH WALTER P MEAT CTR R (84)	
	BENSON FREDK EDITH F CHAUF H (88)	
	BENSON INEZ BKPR R (88)	
	HERMAN WM ANNA MACH H (88)	
	REID BRUCO R MARY O STEAM ENG H (92)	
	CONLEY LAURENCE E MARY L BLDG AUPT H (96)	
	DOYLE JAS J ELEV OPR R (96)	

Year	Uses	Source
1934 (continued)		
	AGRELL ALMA MRS CONFR RET (98)	
	AGRELL NIIS F CLK R (98)	
	H (98)	
	OTOOLE LE ROY S ROSELLE L STOKER DEPT P&S H (99)	
	CERRINA CHRISAOPHOHR A LAB R (101)	
	CERRINA EUG COUNTERMN R (101)	
	CERRINA FRANK LAB R (101)	
	BOOTH JOS C MILDRED M PNTR H (103)	
	CONWAY PATK H LOUISE R (105)	
	YARTER ELI J ELIZ L CALIBRATER H (105)	
	SHARPE GEO B BERTHA B GAS H (107)	
	YEAGER JOS W COUNTERMN R (107)	
	ANZELLONE MARIE WID RAZZARIO H (109)	
	ARCHER CHAS E RUTH E BLRMKR H (109)	
	SWANSON ALLAN GERTRUDE LAB R (109)	
	****COONLEY CT****	R. L. Polk Co.
	ERRICHIELLO ANTOINETTE R (11)	
	ERRICHIELLO FRANK LAB R (11)	
	ERRICHIELLO GAETANO LUCY M RIVETER H (11)	
	ERRICHIELLO GAETANO JR R (11)	
	ERRICHIELLO PASQUALE IRONWKR R (11)	
	ERRICHIELLO SILVIO R (11)	
	BOLIVAR ALPHONSE LAB R (13)	
	LAMIQUIZ GABRIEL SALOME STAGE BLDR H (13)	
	****HARBOR RD****	R. L. Polk Co.
	ANZELLONE MARIE WID RAZZARIO H (12)	
	ARIAS ANTHONY ANITA M RESTR (12)	
	GARCIA MANUEL LAB R (12)	
	GONZALES ANTONIO LAB H (12)	
	GONZALES FRANK LAB R (12)	
	LOPEZ JOS LAB R (12)	
	LOPEZ MANUEL LAB R (12)	
	LORENZI MANUEL LAB R (12)	
	PEREZ DIEGO LAB H (12)	
	PEREZ DUVAL LAB R (12)	
	RODRIGUES VICTOR LAB N Y & RICH GAS CO H (12)	
	RODRIGUES VICTOR LAB R (12)	
	UPHAM ROY MABEL SIGN AND SHOW WRITER (12)	
	URANGA ANTHONY LAB R (12)	
	GOLDBERG HARRY MARY WALTER H (13)	
	GORDEN HELEN RESTR R (13)	
	GORDON HELEN HELENS RESTR R (13)	
	HELENS RESTAURANT N HELEN GORDON RESTR (13)	

Year	Uses	Source
1934 (continued)		
	LAFRADO CLEMENT DRIVER R (17)	
	LAFRADO JAS LUCY MGR BARNEY LAFRADO H (17)	
	BALSAM RALPH COND THE S I RAPID TRANSIT RY CO ST G H (25)	
	BALSAMO MARGT WID LOUIS H (25)	
	CARPRESSO MICHL EDITH CARP H (25)	
	MALORANO MARY WID PETER R (25)	
	BEYER CHAS E ELLA H (29)	
	DITTMAR WM A SLSMN R (30)	
	WICKHAM JAS A INTERIOR DECORATOR H (30)	
	CURCI PATK C RAY F ICE DLR RET (35)	
	FANI CAMILLO MASSIMINA IAB H (37)	
	FANI GUIDO CLK R (37)	
	PUGERELLI JOS LAB B & ORR CO R (37)	
	PUGH JOS LOUISE LAB H (37)	
	BELL DAVID H CATH W LAB H (38)	
	CANEY SAML A MARGT MC CARP H (38)	
	CONNEY SAML STAGE BLDR R (38)	
	POST HARRY W EDENIA I CRANE OPR H (44)	
	MONSON THOS D SAW FILING (47)	
	MONTAGUE THOS D SAW FILING (47)	
	VILLANA ANTHONY MARGT MASON H (48)	
	COYLE JAS P CLK R (49)	
	FRANCESCO RALPH JOSEPHINE ISLAND COAL & WOOD CO H (50)	
	ISLAND COAL & WOOD CO RTN RALPH FRANCESCO JOS PISCITOLLI (52)	
	MATALUNI ANTHONY A LAB R (52)	
	MATALUNI FRANK V LAB R (52)	
	MATALUNI MARIE WID ANTHONY H (52)	
	SALO CHAS JOS ANNA LAB R (52)	
	****LOCKMAN AVE****	R. L. Polk Co.
	ANGELL FREDK J CLK R (10)	
	JENKINS WALTER G LOUISE H (10)	
	BARLOW VICTORIA MRS MLNR MME CECILE H (12)	
	JOHNSON FLORENCE E WID ABRAM H (12)	
	SCHMIDT JOHN HLPR R (12)	
	BUSSMAN HELEN WID JOS R (17)	
	MAC QUEEN DANL GERTRUDE FORMN H (17)	
	BURKE FRANK X AMY FOR MN H (20)	
	KIELTY JAS J MARION IRONWKR H (20)	
	JUDD J LESTER GLADYS TESTER H (24)	
	JUDD MYRTLE PKR R (24)	
	JUDD MYRTLE WLD HOBY H (24)	

Year	Uses	Source
1934 (continued)		
	LAUDER JAS REBECCA IRON MLDR H (25)	
	LAUDER PEARL FCTYWKR R (25)	
	DECKER BARBARA R (27)	
	DECKER GARRETE ANNE H (27)	
	DECKER ROSCOE PNTR R (28)	
	FINLAY HAROLD R (28)	
	FINLAY MADGE WID JAS H (28)	
	LAUDER SAML N BLRMKR BREWER DRY DOCK CO R (28)	
	BAILEY WM D ROSE O MASON H (32)	
	ARNOLD AMOS H HENRIETTA B PORTER H (33)	
	ARNOLD WALTER CLK R (33)	
	ISENEGGER RAYMOND CLK R (37)	
	ISENEGGER RUTH E PKR R (37)	
	BOUCHARD MARTHA E MRS BKPR MARINERS HARBOR NATL BANK H (39)	
	BUSCHARD ALBERT CHAUF R (39)	
	CONKLIN EDITH CLK H (39)	
	FREDERICKS GEO E EDITH M RATNM H (39)	
	THOMPSON JAY W CARP R (39)	
	KNACKLE H (40)	
	BOERUM CLARONCE H ELIZ A FORMN CARP H (42)	
	BURBANK SARAH WID DANL R (42)	
	FOURNIER ALPHONSE C SHIRT IRONER R (43)	
	FOURNIER BLANCHE C TEL OPR R (43)	
	FOURNIER HENRY LABORATORY ASST R (43)	
	FOURNIER JANET A TEL OPR R (43)	
	FOURNIER LOUIS J JOSEPHINE T COMB CTR H (43)	
	FOURNIER STELLA TEL OPR R (43)	
	PERKINS FRANK LILIAN A FORMN H (46)	
	MANNEY EUG J POLICE R (48)	
	MANNING DANL MACHI R (48)	
	MANNING HAROLD CLK R (48)	
	MANNING HELEN R (48)	
	MANNING JOHN DAHLIA H (48)	
	MANNING JOHN JR CARD WRITER R (48)	
	MANNING JOS POLICE R (48)	
	MANNING LILLIAN TYPIST R (48)	
	MANNING RAYMOND R (48)	
	MANNING WALTER CLK R (48)	
	CASE EDITH M STEN R (49)	
	CASE ERNEST A ROSE FORMN WELDER H (49)	
	CASE GLADYS E SLSWN PR R (49)	
	CASE MILDRED E SLSWN R (49)	

Year	Uses	Source
1934 (continued)		
	KOPPEN WM BERTHA SEXTON H (51)	
	ANDERSON GRETA F STEN R (53)	
	ANDERSON GUSTAVE CARP R (53)	
	CONKLIN CLARENCE C THEODOASIA E CARP H (54)	
	GAHN JOS M RUTH E CLK R (54)	
	DEOPPMAN BARBARA TCHR R (57)	
	MECHAUD GEO TCHR R (57)	
	OGILVIE JANET R WID ALEX C H (57)	
	OGILVIE PHYLLIS J RECEPTIONIST R (57)	
	REICHOW WM A ELEC WELDER R (57)	
	NETTERMAN ANNA WID ANDREW R (60)	
	STONE HAROLD CLK R (60)	
	VANT HOF WM NELL A PASTOR H (61)	
	BUSH EUG MGR THE EAST INDIA TEA CO PR R (64)	
	BUSH JOHN R (64)	
	TURNER WALTER M MONA I CANNAN & TURNER H (64)	
	KINELSKI LESTER E KATH L STOREKPR H (67)	
	AJELLO DOMENICK LAB BREWER DRY DOCK CO R (70)	
	AJELLO GEO MACH R (70)	
	AJELLO GRACE DRS OPR R (70)	
	AJELLO SALVATORE MARY CLK H (70)	
	GOLDEN SUSAN WID RALEIGH CASH R (73)	
	ADAMS JOS CABTMKR R (74)	
	ADAMS SAML CABTMKR R (74)	
	HERON GEO LILLLAN PUMPMN H (74)	
	BISCOPO JEREMIAH LAB R (75)	
	BURZL MICHL LAB R (75)	
	CURCIO NICHOLAS LAB R (75)	
	MARMALLT CARL SCOWMN R (75)	
	PANDULO FRANK PNTR R (75)	
	PINNETA NICHOLAS LAB R (75)	
	RAELE JOHN ROSE LAB H (75)	
	HOLMAN ROSINA M WID ELIPHALET R (78)	
	WILLIAMS RICHD SARAH A H (78)	
	NELSON INGRID E STEN R (79)	
	NELSON NORMAN GERDA CARP H (79)	
	JACOBS ELEANORE L MRS H (84)	
	MOSLEK LEO V IRONWKR R (84)	
	MOSLEK LEO V IRONWKR R (84)	
	MOSLEK RAYMOND M PIPEFTR R (84)	
	MOSLEK RAYMOND M PIPEFTR R (84)	
	MOSLEK VIOLA B R (84)	
	MOSLEK VIOLA B R (84)	

Year	Uses	Source
1934 (continued)		
	OWENS GEO L FLORENCE W CARP H (85)	
	PFEFFER CARL ROSE WASHER H (85)	
	KOHRMAN OTTO J IDA M FORMN LAB H (87)	
	REIFF FREDK GERTRUDE MEAT MGR GT A & P TEA CO R (87)	
	NAYLOR SAML MABEL MACH H (88)	
	MAC GREGOR ROBT MAY H (90)	
	LAUERIE ALEX A GENEVERA M BLRMKR H (91)	
	LAVERIE ALEX A BLRMKR DEPT P&S R (91)	
	LAVERIE JAS A CLK R (91)	
	KELTY THOS J CATH L PIPEFTR H (92)	
	LYMEN PATK H LAB R (92)	
	HALLER MICHL AGATHA LAB H (94)	
	KIDDERMUTH VALENTINE RIGGER R (94)	
	SEYBOLT GEO S MARY PTRNMKR H (97)	
	SMITH ALBERT R HELEN M LAB H (98)	
	SMITH WM A CLK R (98)	
	ANGELL FREDK NELLIO H (100)	
	SALO CHAS IDA CARP H (100)	
	WILSHERE EMILY M STEN R (101)	
	WILSHERE FREDLK B ALMA G CLK H (101)	
	GOUGH CECILIA BKPR R (104)	
	GOUGH GEO V MARY PRINTER H (104)	
	GOUGH JAS J WTCHMN R (104)	
	GOUGH MARY BKPR R (104)	
	DECKER WILLIS A ALMA E PLMBR H (105)	
	MARTIN JOHN F MABEL B LATHER R (105)	
	COTTER WM J ROSE A CLK H (106)	
	HEALEY EVELYN E R (107)	
	HEALEY JOHN J POLICE R (107)	
	SVENNINGSEN S SNAPPER (109)	
	SVENNINGSEN TORJUS GRDA A FORMN CARP H (109)	
	SVENNINGSEN TORVALD CARP R (109)	
	GARGIULO JOS ARMEDA GRO RETAIL (110)	
	GARGIULO MICHL MGR JOS GARGIULO R (110)	
	H (110)	
	OSHEA DANL J HELEN A BLRMKR H (113)	
	OSHEA HELEN A MRS TEL OPR R (113)	
	OSGOOD WM R SPLICER R (113)	
	OSGOOD WM R SPLICER R (113)	
	PERCOCO ANGELINA PANTS OPR R (113)	
	PERCOCO TULLIO RITA IRONWKR H (113)	
	PRESCOTT FLORENCE V STEN R (114)	
	PRESCOTT FRANK H PORTER R (114)	

Year	Uses	Source
1934 (continued)		
	PRESCOTT ORLANDO C RUTH A EXPORT MGR H (114)	
	HAGARTY REVERETT WTCHMN THE STATEN ISLAND RAPID TRANSIT RY C (116)	
	SHARP JOHN NELLIE ELEV OPR H (116)	
	SHARP JOHN JR R (116)	
	SAUVOLA ANDREW J CARP R (119)	
	SAUVOLA HANS R LAB R (119)	
	SAUVOLA JOHN H (119)	
	SAUVOLA LILLIAN S R (119)	
	SETTENNI JOHN LUCY CLNR H (119)	
	SETTENNI SALVATORE SWEEPER DEPT SANITATION CITY OF NY R (119)	
	GARGUILO MARY PANTS OPR R (120)	
	GARGUILO O LOUISE PNTR UNITED DRY DOCKS INC R (120)	
	RASKU GEO R (122)	
	RASKU HILMIA WID HENRY HSEKPR H (122)	
	LARSEN BJARNE ELECTN HLPR H (124)	
	LARSEN MARTHE WID CARL H (124)	
	TELLEFSEN OLE CARLA CARP H (124)	
	OSHEA ALICE CLK R (126)	
	OSHEA HAROLD CLK R (126)	
	OSHEA PATK J ALICE BLKSMITH H (126)	
	OSGOOD WM R SPLICER R (126)	
	OSGOOD WM R SPLICER R (126)	
	OSGOOD WM R SPLICER R (126)	
	SCOTT WM MSNGR R (132)	
	SPINA JOS ROSE FLAGMIN H (132)	
	SPINA STEPH CLK R (132)	
	STRYKER ALBERT J ALLENPHINE COND H (132)	
	FRANZEL BENJ LAURA LAB H (134)	
	VAN VALEN CHAS LYDIA MARINE PLMBR H (134)	
	****RICHMOND TER****	R. L. Polk Co.
	BUTLER JAMES GROCERY CO NY CAP $10 000 000 JOHN GRIFFITH PRE (3010)	
1960	****ANDROS AVE****	New York Telephone Company
	WOLTMAN H MRS (18)	
	O B ROOFING & SHEET METAL CO (19)	
	BENEFIELD FRED (21)	
	DAHL A A (23)	
	BROWN MARY LEE MRS (27)	
	HARKINS GEO F (29)	
	OLIVER ELLIOTT (41)	
	LA TOURETTE GEO (87)	

Year	Uses	Source
1960 (continued)		
	****BUSH AVE****	New York Telephone Company
	LAFATA GASPER & CO (14)	
	AGNELLO JENNIE (18)	
	LOWERY ROSEMARY (20)	
	ACQUESTA RALPH (26)	
	MARVEL DOROTHY A (30)	
	SMITH HAROLD M (34)	
	COMOLETTI QUENTIN F (38)	
	MANGANARO FRANK JR (38)	
	MELISI SAM (42)	
	PIERZYNKOWSKI EDW (42)	
	MCPARLAND MARY MRS (47)	
	MILOSKY ROSALEEN (49)	
	CAMPITIELLO RALPH (50)	
	NOTARFRANCESCO JOHN (50)	
	DI MAURO EMANUEL (51)	
	MARVEL GEO (53)	
	HALLBOM SIGMUND (55)	
	VIRGA DOMINICK (57)	
	ECKETT CHAS (59)	
	CONTI ANGELO (60)	
	THOMASSEN CARL T (61)	
	LAFATA JAS V JR (62)	
	LAIDLAW HAROLD C (62)	
	ZELUFF MILDRED MRS (63)	
	PARISI HENRY (66)	
	LIND E (67)	
	LEHN MATTHEW W (68)	
	SGRO FRANK A (72)	
	O TOOLE ROSE L MRS (76)	
	THEIMER RICHD (76)	
	SERPI JOSEPHINE MRS (79)	
	SERPI RALPH P (79)	
	MEINECKE WALTER (84)	
	FLORET WM (86)	
	BRANOWSKI EDW (88)	
	STARK FLORENCE (88)	
	KEITHLINE MADELINE MRS (98)	
	VASQUEZ GEO (98)	
	WALDIN FRED G (99)	
	FAHS CARL (101)	
	****CHRISTOPHER PL****	New York Telephone Company
	WILD E (3)	

Year	Uses	Source
1960 (continued)		
	BLAINE MAY M (4)	
	BLATZ BERTHA F MISS (4)	
	COX WM JR (4)	
	DE PASQUALE A (4)	
	GIBBONS LENA W (4)	
	GOGOLL HERBERT MRS (4)	
	HAYES C A (4)	
	HUGHES JOHN F (4)	
	KALMUS BERNARD (4)	
	KANE WM A (4)	
	KOCH FLORENCE E (4)	
	LEONARD GEO J (4)	
	LINDHEIMER KURT (4)	
	MAC MULLEN L G MISS (4)	
	MAXSON K MRS (4)	
	MCMANUS F E MRS (4)	
	MCMANUS J R MISS (4)	
	MURPHY L W (4)	
	NIXON DOROTHEA C MRS (4)	
	RUNNOW EVA K (4)	
	SCHWEIZER RICHD G (4)	
	SHUDTZ FRED C (4)	
	SILVA G A MISS NRS (4)	
	STANESZEWSKI ROBT T (4)	
	STUART KATHERINE A (4)	
	WATSON EDITH M (4)	
	WIRTH HANS J (4)	
	WOOLER J W A (4)	
	BURGER RALPH J (5)	
	DEHLINGER JOHN MRS (5)	
	DOYLE JOHN (5)	
	FALOTICO S A (5)	
	FELDHUSEN WM M (5)	
	IRELAND ALEX K (5)	
	KELLEHER ANN (5)	
	MEYER SUSETTE (5)	
	SCHNEIDER JOHN W MRS (5)	
	VON WEDEL F MRS (5)	
	WOOD JOYCE (5)	
	HEARTY JOS P (11)	
	NIKANDER AINO I (11)	
	BEDFORD WM R (15)	
	EYMER WM (15)	

Year	Uses	Source
1960 (continued)		
	O BRIEN JOHN W (15)	
	BARONE STEVEN (19)	
	NICKLAUS HERMAN (19)	
	****COONLEY CT****	New York Telephone Company
	MANGANARO RALPH (7)	
	MCCORMICK JAS MRS (9)	
	****COONLY CT****	New York Telephone Company
	SANO JOS P (1)	
	LOGAN DAVID ALEXNDR (5)	
	ESPOSITO CONCETTA MRS (11)	
	SCOTT HESTER MRS (13)	
	****LOCKM AVE****	New York Telephone Company
	KETCHAM O R (12)	
	****LOCKMN AVE****	New York Telephone Company
	POST CALVIN W L (7)	
	SWORDS THOS J (10)	
	BARLOW VICTORIA MRS (12)	
	HARBOR FUEL OIL CO (17)	
	LAFRADO B FUEL OIL (17)	
	CANFIELD M C MRS (24)	
	FRANCIS ELSIE MRS (24)	
	OLENIEC JOHN (32)	
	RICHARDS WM (32)	
	ARNOLD HENRIETTA R MRS (33)	
	KACKIE GEO (36)	
	CATANEO ROSE MRS (37)	
	FRANCIS JOHN (40)	
	BECACCIO NICHOLAS J (42)	
	GARCIA JOS (43)	
	PERKINS LILLIAN A (46)	
	MANNEY DANL (48)	
	KUBASEK CHAS (49)	
	DEAS LLOYD D (57)	
	TURNER W M (64)	
	AJELLO JOS M (70)	
	CARPINELLO MICHI J (73)	
	MILONE RALPH (74)	
	BUONVIAGGIO ARNOLD (75)	
	TYER WILMONT E (75)	
	FOUGNER ROY (78)	
	NILSEN NORMAN (79)	
	IMPARATO FRANK (84)	

Year	***Uses***	***Source***
1960 (continued)		
	GORKOWSKI JOS (85)	
	VAN NAME CORNELIUS JR (87)	
	NAYLOR RAYMOND (88)	
	CICCARIELLO PAUL J (89)	
	COTTER ALBERT (90)	
	WATSON WEBSTER F (91)	
	KIELTY THOS J JR (92)	
	HALLER M (94)	
	MACAULEY WM J (97)	
	BENKOVICH M (98)	
	GOUGH JAS (104)	
	COTTER W J (106)	
	CRIMMINS ROBT (107)	
	GARGIULO EMMA (110)	
	FISCHER JOS C (113)	
	SORENSEN ROBT G (116)	
	DI TELLO MICHL (122)	
	LARSEN JOHN (124)	
	MCQUADE EDW J (124)	
	O SHEA PATK (126)	
	MILNE GEO H (128)	
	FRANZEL BIAGIO (134)	
	****RICHMOND TER****	New York Telephone Company
	ALVINAS SWEET SHOPPE (2966)	
	HARBOR RUBBER CO (2980)	
	MORRIS RAYMOND TIRES (2980)	
	CHIANG HENRY (2984)	
	CHIANG HENRY (2984)	
	UNITED TAVERN (2990)	
	FORMAN HELEN MRS (3000)	
	HOLLANDS JOHN B (3000)	
	TOMLINSON G K HRDWR (3000)	
	PESCE PHILIP G BUTCHR (3002)	
	CLUB CHEROLI (3010)	
	HARBOR PHARMACY (3014)	
	HARBOR PHRMCY (3014)	
	MARGIES DRY GOODS STORE (3016)	
	D ALESSANDRO ANGELA (3018)	
	D ALESSANDRO RUDOLPH RL EST INS (3018)	
	SMITH M VERNA (3020)	
	LORENZEN AHREND GROCR (3024)	
	TURNER WALTER PROD (3032)	
	SOKOLOVE BERNARD (3050)	

Year	Uses	Source
1960 (continued)		
	GOFFIN BARBARA MRS (3052)	
	WOLF BESS (3056)	
	PARATORE V (3058)	
	KOMPLITA ROSE MRS (3068)	
	FRAGANO FRANCES MRS CONFCTRY (3070)	
	VEREKER KATHLEEN MRS (3100)	
1965	**ANDROS AVE**	New York Telephone Company
	WOLTMAN H MRS (18)	
	O B ROOFING & SHEET METAL CO (19)	
	BENEFIELD FRED (21)	
	BROWN MARY LEE MRS (27)	
	HARKINS GEO F (29)	
	OLIVER ELLIOTT (41)	
	BUSH AVE	New York Telephone Company
	LA FATA GASPER & CO (14)	
	AGNELLO JENNIE (18)	
	VENTRONE THOS J (18)	
	DEFAZIO THOS (26)	
	YELLOVICH PETER (28)	
	KRAUSE JAS (32)	
	COMOLETTI QUENTIN F (38)	
	MELISI SAM (42)	
	PIERZYNKOWSKI EDW (42)	
	PECHARD JOS (45)	
	KOENIG PETER (49)	
	CAMPITIELLO MARIE (50)	
	CAMPITIELLO RALPH (50)	
	DIMAURO EMANUEL (51)	
	FELCI WM (53)	
	HALLBOM SIGMUND (55)	
	HURLEY WM P (57)	
	ECKETT CHAS (59)	
	CONTI ANQELO (60)	
	THOMASSEN CARL T (61)	
	PISCOPO LOUIS (62)	
	ZELUFF MILDRED MRS (63)	
	SETARO PATSY (66)	
	PRAYDICK THOS (67)	
	LEHN BEVERLY (68)	
	SGRO FRANK A (72)	
	O TOOLE ROSE L MRS (76)	
	THEIMER RICHD (76)	
	SERPI JOSEPHINE MRS (79)	

Year	Uses	Source
1965 (continued)		
	MEINECKE WALTER (84)	
	BRANOWSKI EDW (88)	
	STARK FLORENCE (88)	
	VISCARDI ETHEL S MRS (96)	
	VASQUEZ GEO (98)	
	WALDIN FRED G (99)	
	NOWETNER HARRY (103)	
	****CHRISTOPHER PL****	New York Telephone Company
	AMARI ELEANOR MRS (4)	
	BLATZ BERTHA F (4)	
	CLAFFEY VINCENT J LWYR (4)	
	DEBARD MARION I MRS (4)	
	DEPRETIS EDW A (4)	
	DONAHUE JOHN J (4)	
	GIBAS GENEVIEVE MRS (4)	
	GOGOLL HERBERT MRS (4)	
	HEDJAZI MOHAMMAD (4)	
	HUGHES JOHN F (4)	
	KRUGER JOHN S (4)	
	LEVASSEUR RICHD J (4)	
	MACMULLEN L G MISS (4)	
	MCGIVNEY J W MRS RN (4)	
	MURPHY JOHN P JR (4)	
	NEHER E K (4)	
	NIXON DOROTHEA C MRS (4)	
	SCHOEFER A G (4)	
	SCOTT GIDEON (4)	
	SEITZ E J (4)	
	SHUDTZ FRED C (4)	
	SIZER N RICKTOR (4)	
	STUART KATHERINE A (4)	
	TAMM ELLA MRS (4)	
	VON DER OSTEN HERBERT (4)	
	WALSH THOS M (4)	
	WATSON EDITH M (4)	
	BURGER RALPH J (5)	
	DAVISON MARGARET (5)	
	DOYLE JOHN (5)	
	FALOTICA S A (5)	
	FELDHUSEN WM M (5)	
	LAUB ANNA C (5)	
	MEYER SUSETTE (5)	
	MUELLER LORRAINE (5)	

Year	Uses	Source
1965 (continued)		
	NUNAMANN ROBT W (5)	
	SCHNEIDER JOHN W MRS (5)	
	VINES WALTER (5)	
	NIKANDER AINO I (11)	
	ZIRPOLI M (11)	
	BEDFORD WM R (15)	
	EYMER WM (15)	
	BARONE STEVEN (19)	
	NICKLAUS HERMAN (19)	
	DEMPSEY JOS R (20)	
	DONOVAN DENIS J (25)	
	KISSENBERTH REGINA MRS (25)	
	****COONLEY CT****	New York Telephone Company
	DONNELLY EDW MRS (3)	
	****COONLY CT****	New York Telephone Company
	SANO P (1)	
	MERREN HALTHEA (5)	
	SIEGEL MELVIN (9)	
	ESPOSITO CONCETTA MRS (11)	
	CARRATURO LOUISA (13)	
	****LOCKMAN AVE****	New York Telephone Company
	VAN NAME CORNELIUS JR (87)	
	****LOCKMN AVE****	New York Telephone Company
	BARLOW VICTORIA MRS (12)	
	FRANCIS ELSIE MRS (24)	
	OLENIEC JOHN (32)	
	ARNOLD HENRIETTA R MRS (33)	
	KACKLE GEO (36)	
	CATANEO ROSE MRS (37)	
	FRANCIS JOHN (40)	
	BECACCIO NICHOLAS J (42)	
	GARCIA JOS (43)	
	MANNEY DANL (48)	
	KUBASEK CHAS (49)	
	BIANCO ONOFRIO JR (51)	
	LEWERS WM (60)	
	TURMER W M (64)	
	AJELLO JOS M (70)	
	CARPINELLO MICHL J (73)	
	MILONE RALPH (74)	
	BUONVIAGGIO ARNOLD (75)	
	NILSEN NORMAN (79)	

Year	Uses	Source
1965 (continued)		
	GORKOWSKI JOS (85)	
	NAYLOR RAYMOND (88)	
	CICCARIELLO PAUL J (89)	
	COTTER ALBERT (90)	
	HALLER M (94)	
	BENKOVICH M (98)	
	CRIMMINS ROBT (107)	
	GARGIULO EMMA (110)	
	FISCHER JOS C (113)	
	JUNNIER DONALD J A (114)	
	DI TELLO MICHL (122)	
	LARSEN JOHN (124)	
	MILNE GEO H (128)	
	FRANZEL BIAGIO (134)	
	COTTER W J (146)	
	****RICHMOND TER****	New York Telephone Company
	ALVINA S SWEET SHOPPE (2966)	
	UNITED TAVERN (2990)	
	HOLLANDS JOHN B (3000)	
	TOMLINSON G K HRDWR (3000)	
	HARBOR PHARMACY (3014)	
	HARBOR PHARMACY (3014)	
	GERHARDT CARMEN (3016)	
	D ALESSANDRO RUDOLPH RL EST INS (3018)	
	ISLAND SOCIAL CLUB (3024)	
	TURNER WALTER PROD (3032)	
	WOLF ROBT (3056)	
	FRISOLI DOMINICK (3058)	
	ROSE S SANDWICH SHOP (3070)	
	MARINERS HRBR INDUSTRL PK DIV OF JML TRADG CORP (3080)	
	SHARP SAML V (3100)	
	****RICHMOND****	New York Telephone Company
	DRY DOCK RESTRNT (3094)	
1970	****ANDROS AVE****	New York Telephone
	NELSON VANGELIA LL (5)	
	AIRVENT FABRICATING CO INC (14)	
	STATEN ISLAND AUTO BODY (19)	
	LEJOE MAX (46)	
	****BUSH AVE****	New York Telephone
	LAFATA GASPER & CO (14)	
	VENTRONE THOS J (18)	

Year	Uses	Source
1970 (continued)		
	SPENCER WILLIAM (24)	
	KRAUSE JAS (32)	
	STONE WILLIAM (34)	
	MAILLETT MALCOLM R (41)	
	PIERZYNKOWSKI EDWARD (42)	
	SCHWERDFIGER GEORGE (44)	
	PECHARD JOS (45)	
	PALMER ROBERT (49)	
	BIANCO S (50)	
	CAMPITIELLO RALPH (50)	
	DIMAURO EMANUEL (51)	
	FELCI WM (53)	
	HALLBOM SIGMUND (55)	
	HURLEY WM P (57)	
	ECKETT A (59)	
	CONTI ANGELO (60)	
	THOMASSEN CARL T (61)	
	PISCOPO LOUIS (62)	
	ZELUFF M (63)	
	SETARO PATSY (66)	
	PRAYDICK THOS (67)	
	LEHN BEVERLY (68)	
	SGRO GRACE (72)	
	SGRO JOS (72)	
	O TOOLE ROSE L (76)	
	THEIMER RICHD (76)	
	SERPI JOSEPHINE MRS (79)	
	MEINECKE WALTER K (84)	
	WALDIN FRED G (86)	
	VISCARDI ETHEL S MRS (96)	
	VASQUEZ GEO (98)	
	WEAVER M C (99)	
	****CHRISTOPHER PL****	New York Telephone
	AMARI ELEANOR MRS (4)	
	ARAM ALFRED L (4)	
	BERENYI ALIX M (4)	
	BLAINE M M (4)	
	BLATZ BERTHA F (4)	
	CARLSON CHARLOTTE MRS (4)	
	DE PRETIS EDW A (4)	
	HUGHES JOHN F (4)	
	KENNEY M F (4)	
	MCGIVNEY J W MRS RN (4)	

Year	Uses	Source
1970 (continued)		
	SHUDTZ FRED C (4)	
	SIZER H RLCKTOR (4)	
	STUART KATHERINE A (4)	
	VON DER OSTEN HERBERT (4)	
	BURGER RALPH J (5)	
	DAVISON MARGARET (5)	
	DOYLE JOHN (5)	
	EUSNER MARY T MRS (5)	
	FALOTICO S A (5)	
	IRELAND ALEX K (5)	
	LAUB ANNA C (5)	
	MUELLER LORRAINE (5)	
	SCHNEIDER JOHN W MRS (5)	
	ZIRPOLI M (11)	
	BEDFORD WM R (15)	
	BARONE ANTHONY (19)	
	NICKLAUS HERMAN (19)	
	DEMPSEY JOS R (20)	
	DONOVAN DENIS J (25)	
	****COONLEY CT****	New York Telephone
	WHITE B (7)	
	ROBINSON D (9)	
	****COONLY CT****	New York Telephone
	SANO P (1)	
	DONNELLY EDW MRS (3)	
	CAMMARANO JOS A (5)	
	LABOZETTA BETTY (5)	
	CARRATURO LOUISA (13)	
	****HARBOR RD****	New York Telephone
	DELIZIA GENEVERA J (17)	
	FREE ROBERT M (30)	
	CURD R (35)	
	JOE JAMES (43)	
	ZELLER GEORGE JR (44)	
	ANDERSON ERLING R (45)	
	BROOKS THOMAS A (49)	
	DI BERARDINO DOMENICK (50)	
	BIONDIO J MRS (52)	
	****LOCKMAN AVE****	New York Telephone
	DILLON EDWARD M (27)	
	VINCITORE VINCENT (54)	
	DEAS P J (57)	

Year	Uses	Source
1970 (continued)		
	LEWERS C (60)	
	STROVAR LAURA (75)	
	DE VITO AMELIA (87)	
	MURPHY JAMES (92)	
	DONATI ALDO (94)	
	ISHILL A (98)	
	DUFFY JAMES EDWARD (110)	
	MITTENZWEI W J SR (110)	
	GIBBS MARY (116)	
	GIBBS WILLIE L (116)	
	KING ALBERT (132)	
	VANDERMEYDE CARL W (132)	
	FRANZEL FRANK A (134)	
	****RICHMOND TER****	New York Telephone
	ALVINA S SWEET SHOPPE (2966)	
	UNITED STATES GOVERNMENT POST OFFICE DEPT BRANCH POST OFFICE (2980)	
	UNITED TAVERN (2990)	
	TOMLINSON G K HRDWR (3000)	
	FELLOWSHIP BAPT CHURCH STDY (3010)	
	HARBOR PHARMACY (3014)	
	HARBOR PHARMACY (3014)	
	D ALESSANDRO RUDOLPH RL EST INS (3016)	
	ROSE S SANDWICH SHOP (3068)	
	DRY DOCK RESTRNT (3094)	
	SHARP SAML V (3100)	
1975	****ANDROS AVE****	New York Telephone Company
	QUANCI PETER R AIR CONDITIONING (14)	
	TODAY INDUSTRIES INC (19)	
	BAYSMORE JOHN (23)	
	GRAY BOOTS (23)	
	LE JOE MAX (46)	
	MCKIE FREDDIE M (59)	
	WHITE LAWRENCE C (73)	
	****BUSH AVE****	New York Telephone Company
	LA FATA GASPER & CO (14)	
	THREE SIRS INC (14)	
	AGNELLO JENNIE (18)	
	VENTRONE THOS J (18)	
	YELLOVICH PETER (28)	
	YELLOVICH PETER (28)	
	KAPLTAN E (30)	
	KRAUSE JAS (32)	

Year	Uses	Source
1975 (continued)		
	PIERZYNKOWSKI EDWARD (42)	
	SCHWERDFIGER GEORGE (44)	
	PECHARD JOS (45)	
	CAMPITIELLO G (50)	
	DIMAURO EMANUEL (51)	
	FELCI WM (53)	
	HALLBOM SIGMUND (55)	
	HURLEY WM P (57)	
	CONTI ANGELO (60)	
	THOMASSEN BERNARD R (61)	
	PISCOPO JAMES (62)	
	PISCOPO LOUIS (62)	
	ZELUFF M (63)	
	PARISI M (66)	
	PRAYDICK THOS (67)	
	LEHN B (68)	
	ROBERSON C E (72)	
	O TOOLE R (76)	
	THEIMER RICHD (76)	
	SERPI JOSEPHINE MRS (79)	
	ARENA VINCENT (84)	
	WALDIN FRED G (86)	
	FAHES P (88)	
	CEDENO JOSE (98)	
	WEAVER M L (99)	
	WRIGHT WILLIE (109)	
	****CHRISTOPHER PL****	New York Telephone Company
	DEPRETIS EDW A (4)	
	HUGHES JOHN F (4)	
	SHUDTZ FRED C (4)	
	BURGER RALPH J (5)	
	DAVISON MARGARET (5)	
	DOYLE JOHN (5)	
	EUSNER MARY T MRS (5)	
	FELDHUSEN WM M (5)	
	MUELLER LORRAINE (5)	
	BEDFORD WM R (15)	
	BARONE ANTHONY (19)	
	DEMPSEY JOS R (20)	
	DONOVAN DENIS J (25)	
	KISSENBERTH REGINA MRS (25)	
	****COONLEY CT****	New York Telephone Company
	ALFONZETTI ROCCO (1)	

Year	Uses	Source
1975 (continued)		
	GREENIDGE D L (11)	
	COONLY CT	New York Telephone Company
	SANO P (1)	
	CAMMARANO JOS A (5)	
	LABOZETTA BETTY (5)	
	CARRATURO LOUISA (13)	
	HARBOR RD	New York Telephone Company
	LARNEARD C (17)	
	GARGUILO L (25)	
	FREE ROBERT M (30)	
	DRUMM DONALD (35)	
	MORTENSEN WILLIAM J (35)	
	FISCHER ERIC (37)	
	ZELLER GEORGE JR (44)	
	ANDERSON M (45)	
	GIRALDI ORSOLA (48)	
	BROOKS THOMAS A (49)	
	DELIZIA GENEVERA J (52)	
	LOCKMAN AVE	New York Telephone Company
	JOHNSON SANDRA (8)	
	FOUGNER ROY (12)	
	HAMILTON B T (20)	
	SEROR ROBERT (24)	
	CATANEO T MR (37)	
	VINCITORE VINCENT (54)	
	DEAS P J (57)	
	KOENIG R (64)	
	BROWN R (87)	
	CICCARIELLO MI (89)	
	CICCARIELLO PAUL J (89)	
	HARDING HOWARD T SR (98)	
	WIEROMIEJ Z (101)	
	ROBINSON A W (104)	
	COTTER ALBERT (106)	
	FISHER AL (109)	
	MITTENZWEI W J SR (110)	
	ROMANO JOHN (113)	
	GIBBS WILLIE L (116)	
	TOYE D (116)	
	CARD WILLIAM H (126)	
	KING C (132)	
	VANDERMEYDE CARL W (132)	

Year	Uses	Source
1975 (continued)		
	RICHMOND AVE	New York Telephone Company
	STATEN ISLAND FUR FIN & FEATHER ASSN INC (3076)	
	RICHMOND TER	New York Telephone Company
	PAYNE A (2964)	
	ERNEST M (3014)	
	BRAND A (3018)	
	BRIGHTON HEATING & AIR CONDITIONING (3032)	
	BRIGHTON SHEET METAL CO (3032)	
	REFORM CHURCH OF MARINERS HARBOR (3036)	
	JONES H (3058)	
	1400 AUTO DEPOT INC (3075)	
	A D I INC (3075)	
	A-BETA MAILING SVCE (3075)	
	ABBEY DAY TRUCKING INC (3075)	
	AMERICAN DREDGING CO (3075)	
	AUTO DEPOT INC 1400 (3075)	
	CLOVE AUTO RENTAL & LEASING CORP (3075)	
	DUNBAR & SULLIVAN DREDGING CO (3075)	
	EDTHOMP CO INC CONTR (3075)	
	HAMILTON INDUSTRIES MARINE & INDUSTRIAL CONTRS (3075)	
	JUNIOR SEA KNIGHTS OF AMERICA (3075)	
	KLEIN ARTHUR J & CO REAL ESTATE (3075)	
	KLEIN MONROE J RLTR (3075)	
	LEHIGH MARINE DISPOSAL CORP (3075)	
	LIPSETT STEEL PRODS (3075)	
	M & M TECHNICAL SVCES CORP (3075)	
	M & M TECHNICAL SVCES CORP (3075)	
	MAPLE PARKWAY TRUCK LEASING INC (3075)	
	MOHAWK FIRE EQUIPT CO (3075)	
	PIONEER TRAN SPORTATION CORP (3075)	
	ROYAL TILE & MOSAIC CO (3075)	
	SCHUYLER ENGINEERED PRODS (3075)	
	THOMPSON E DRY WELL CO (3075)	
	THOMPSON E PAVING CORP (3075)	
	RICHMOND COFFEE CORP (3080)	
	ALVINAS SWEET SHOPPE (2966)	
	UNITED STATES GOVERMENT POST OFFICE DEPT BRANCH POST OFFICES (2980)	
	TOMLINSON G K HRDWR (3000)	
	FELLOWSHIP BAPT CHURCH STDY (3010)	
	ROSES SANDWICH SHOP (3068)	
	DRY DOCK RESTRNT (3094)	
	SHARP SAML V (3100)	

Year	Uses	Source
1979	**ANDROS AVE**	New York Telephone
	ALLSTATES AUTO BODY INC (4)	
	GENERAL CARREL CORP (16)	
	FANELLI EDWARD B (19)	
	BAYSMORE JOHN (23)	
	GRAY BOOTS (23)	
	LE JOE MAX (46)	
	MCKIE FREDDIE M (59)	
	WHITE LAWRENCE C (73)	
	GONZALEZ SECUNDINO (81)	
	ANDRS AVE	New York Telephone
	JANSON TURF GOODS CO (4)	
	AMIN NURUL (30)	
	OLIVER ELLIOTT (41)	
	WILLIS EMERSON (43)	
	HOOKS ALDRIS C (61)	
	ROMANO CHAS (65)	
	BUSH AVE	New York Telephone
	LAFATA GASPER & CO (14)	
	AGNELLO JENNIE (18)	
	VENTRONE THOS J (18)	
	YELLOVICH PETER (28)	
	KRAUSE JAS (32)	
	NIEVES FRANK (41)	
	PIERZYNKOWSKI EDWARD (42)	
	SCHWARDFIGER GEORGE (44)	
	BIANCO S (50)	
	CAMPITLELLO G (50)	
	DIMAURO EMANUEL (51)	
	FELCI WM (53)	
	HALLBOM SIGMUND (55)	
	HURLEY WM P (57)	
	CONTI ANGELO (60)	
	HART M (60)	
	PISCOP LOUIS J (62)	
	PISCOPO LOUIS (62)	
	ZELUFF M (63)	
	PARISI M (66)	
	LEHN B (68)	
	O TOOLE R (76)	
	THELMER RICHD (76)	
	SERPI JOSEPHINE MRS (79)	
	ARENA VINCENT (84)	

Year	Uses	Source
1979 (continued)		
	WALDIN FRED G (86)	
	FAHS CARL (88)	
	CLOUD ALEXANDER JR (92)	
	CEDENO JOSE (98)	
	MILLER E (99)	
	WRIGHT WILLIE (108)	
	****COONLEY CT****	New York Telephone
	ALFONZETTI ROCCO (1)	
	DEBELLO R (9)	
	GREENIDGE D L (11)	
	****COONLY CT****	New York Telephone
	CAMMARANO JOS A (5)	
	LABOZETTA BETTY (5)	
	CARRATURO LOUISA (13)	
	****HARBAR RD****	New York Telephone
	GARGUILO L (25)	
	****HARBOR RD****	New York Telephone
	FREE ROBERT M (30)	
	MORTENSEN WILLIAM J (35)	
	ZELLER GEORGE JR (44)	
	ANDERSON M (45)	
	BROOKS THOMAS A (49)	
	JOHNSEN A (50)	
	****LOCHMAN AVE****	New York Telephone
	VINCITORE VINCENT (54)	
	RODRIGUEZ LINO (75)	
	****LOCKMAN AVE****	New York Telephone
	TURNER BENJ (12)	
	DENNIS EILEEN (25)	
	DUNOVANT C (28)	
	CATANEO T MR (37)	
	DEAS P J (57)	
	PHILLLPS A D REV (61)	
	KOENIG R (64)	
	BROWN R (87)	
	CICCARIELLO PAUL J (89)	
	HARVEY GEORGE (90)	
	CARUTHERS F P III (91)	
	MURPHY M (92)	
	DOMINICK D (98)	
	WIEROMIEJ Z (101)	
	ROBINSON A W (104)	

Year	Uses	Source
1979 (continued)		
	COTTER ALBERT (105)	
	DUFFY JAMES E (110)	
	MITTENZWEI W J SR (110)	
	ROMANO JOHN (113)	
	GIBBS WILLIE L (116)	
	CARD WILLIAM H (126)	
	KING C (132)	
	VANDERMEYDE CARL W (132)	
	****LOKMAN AVE****	New York Telephone
	PARRINO SALVATORE JR (78)	
	****RICHMND TER****	New York Telephone
	ALVINA S SWEET SHOPPE (2966)	
	UNITED STATES GOVERNMENT POST OFFICE DEPT BRANCH POST OFFICE (2980)	
	TOMLINSON G K HRDWR (3000)	
	ROSE S SANDWICH SHOP (3068)	
	O & M PROPELLER SVCE (3075)	
	DRY DOCK RESTRNT (3094)	
	SHARP SAML V (3100)	
	****RICHMOND AVE****	New York Telephone
	STATEN ISLAND FUR FIN & FEATLHER ASSN INC (3076)	
	****RICHMOND TER****	New York Telephone
	PAYNE A (2964)	
	GARCIA THOMAS (3020)	
	BRIGHTON HEATING & AIR CONDITIONING (3032)	
	BRIGHTON SHEET METAL CO (3032)	
	FELLOWSHIP BAPT CHURCH STDY (3036)	
	M & L MFG CO INC (3060)	
	GARCIA HILDA (3066)	
1984	****ANDROS AVE****	New York Telephone
	J P MECHANICAL CONTRACTORS INC (16)	
	GATEWAY AUTO COLLISION (19)	
	HARBOR GARAGE (19)	
	HARBOR TRUCKING REPR INC (19)	
	CHATTERJEE BAIDYA (26)	
	MC CRAY J (42)	
	LE JOE MAX (46)	
	MCKIE FREDDIE M (59)	
	GONZALEZ SECUNDINO (81)	
	****ANDRS AVE****	New York Telephone
	AMIN HASSAN (30)	
	OLIVER M (41)	

Year	Uses	Source
1984 (continued)		
	WILLIS EMERSON (43)	
	HOOKS ALDRIS C (61)	
	ROMANO CHAS (65)	
	****BUSH AVE****	New York Telephone
	LA FATA GASPER & CO (14)	
	MONTANA M (20)	
	YALOVICH PETER (28)	
	KRAUSE JAS (32)	
	COMOLTTI Q (38)	
	PIERZYKOWSKI EDWARD (42)	
	PIERZYKOWSKI K (42)	
	BIANCO S (50)	
	DIMAURO EMANUEL (51)	
	FELCI WM (53)	
	HALLBOM LINNEA (55)	
	HURLEY WM P (57)	
	WIGHTMAN E (59)	
	MORA LUIS (60)	
	PISCOP LOUIS J (62)	
	ZELUFF WILLIAM (63)	
	PARISI M (66)	
	RUBIO CARLOS (69)	
	THELMER J (76)	
	MOORE JOHN T (79)	
	ARENA VINCENT (84)	
	WALDIN FRED G (86)	
	FRANCIS D (96)	
	FRANCIS PATRICIA (96)	
	FORREST W M (99)	
	HIPPARD D (101)	
	WRIGHT JAY (109)	
	****COONLEY CT****	New York Telephone
	GREENIDGE D L (11)	
	****COONLY CT****	New York Telephone
	CARRATURO LOUISA (13)	
	****HARBOR RD****	New York Telephone
	GARGUILO L (25)	
	DAUTH D (26)	
	GARCIA THOMAS (26)	
	FREE ROBERT M (30)	
	STAUDIGL E (33)	
	CLARK RUTH (45)	

Year	Uses	Source
1984 (continued)		
	BROOKS THOMAS A (49)	
	CONNOR ROBET JR (52)	
	MANGIN J (54)	
	KHAN MOHAMED (55)	
	****LCKMAN AVE****	New York Telephone
	GIBBS WILLIE L (116)	
	****LOCKMAN AVE****	New York Telephone
	TURNER BENJ (12)	
	MC COMBS P (20)	
	THOMAS M L (27)	
	CATANEO RAY (37)	
	CATANEO T (37)	
	CONSACRO JOSEPH (42)	
	HALSTEAD M (43)	
	DOORS ARE US (60)	
	PHILLIPS A D REV (61)	
	KOENIG R (64)	
	LOCUS ARTHUR (79)	
	DECKER D (84)	
	BROWN R (87)	
	CARUTHERS F P III (91)	
	MURPHY C (92)	
	MURPHY M (92)	
	SLACKE A (98)	
	WIEROMIEJ Z (101)	
	DOVE JOE (104)	
	ROBINSON A W (104)	
	COTTER ALBERT (106)	
	MITTENZWEI W J SR (110)	
	MILLER ELSIE (113)	
	OGARRO DANIEL (113)	
	CARD WILLIAM H (126)	
	****LOCKMANA AVE****	New York Telephone
	DUFFY JAMES E (110)	
	****LOCKMNAN AVE****	New York Telephone
	NADA M (88)	
	****RICHMND TER****	New York Telephone
	ALVINA S SWEET SHOPPE (2966)	
	TOMLINSON G K HRDWR (3000)	
	KLEIN ARTHUR J & CO REAL ESTATE (3075)	
	O & M PROPELLER SVCE (3075)	
	TOTTEJORG INC TANK CLEANING EQUIPMENT (3075)	

Year	Uses	Source
1984 (continued)		
	DRY DOCK RESTRNT (3094)	
	RICHMOND TER	New York Telephone
	BRIGHTON HEATING & AIR CONDITIONING (3032)	
	BRIGHTON SHEET METAL CO (3032)	
	FELLOWSHIP BAPTIST CHURCH (3036)	
	BRANDERFINE FRANK CO INC (3068)	
	PHOTO LAB EQUIP CO (3080)	
1990	**ANDROS AVE**	NYNEX Information Resource Company
	GEORGE S MOTOR WORKS LTD (19)	
	HARBOR GARAGE (19)	
	HARBOR TRUCKING REPR INC (19)	
	SALLEMI ELECTRIC CORP SHOP (19)	
	CHATTERJEE BAIDYA (26)	
	WILSON BILLY (29)	
	AMIN LAVERNE (30)	
	AMIN PIERRE (30)	
	MC CRAY T (42)	
	LEJOE MAX (46)	
	MC KIE FREDDIE M (59)	
	MC KIE J (59)	
	TWINE J A (68)	
	CENCE DAVID (87)	
	CENCE DAVID JR (87)	
	V CENCE AUTO SVCE (87)	
	ANDRS AVE	NYNEX Information Resource Company
	OLIVER M (41)	
	WILLIS EMERSON (43)	
	HOOKS ALDRIS C (61)	
	ROMANO CHAS (65)	
	BUSH AVE	NYNEX Information Resource Company
	LA FATA GASPER & CO (14)	
	LANORE L (20)	
	YELLOVICH PETER (28)	
	OSBOME JACQUELINE (30)	
	KRAUSE H (32)	
	PEARLSTEIN MARVIN (38)	
	PIERZYNKOWSKI EDWARD (42)	
	RAMPERSAD S (45)	
	BIANCO S (50)	
	DIMAURO EMANUEL (51)	
	FEICI WM (53)	
	HALLBOM LINNEA (55)	

Year	Uses	Source
1990 (continued)		
	HURLEY WM P (57)	
	MORA LUIS (60)	
	PISCOP LOUIS J (62)	
	MATHURIN C (63)	
	PARISI M (66)	
	ROBERSON C (72)	
	MOORE JOHN T (79)	
	GARCIA LUIS RAMON (84)	
	WALDIN FRED G (86)	
	BENZENBERG ALICE (92)	
	MONTE J (98)	
	FORREST W M (99)	
	THOMAS KIM (101)	
	MOORE DAVID (109)	
	****BUSH****	NYNEX Information Resource Company
	KELLY GEORGE (38)	
	PALCO ELECTRICAL CONSTR INC BKLYN (199)	
	****CHRISTOPHER****	NYNEX Information Resource Company
	RODRIGUEZ DANIEL (11)	
	****COONLEY CT****	NYNEX Information Resource Company
	POPPE L (7)	
	GREENIDGE D L (11)	
	****COONLY CT****	NYNEX Information Resource Company
	CARRATURO LOUISA (13)	
	****HARBOR RD****	NYNEX Information Resource Company
	GARGUILO L (25)	
	DAUTH D (26)	
	GARCIA THOMAS (26)	
	FREE ROBERT M (30)	
	STAUDIGL E (33)	
	MORTENSEN MICHAEL (35)	
	THEUNG LU K (43)	
	CLARK RUTH (45)	
	BROOKS THOMAS A (49)	
	****LOCKMAN AVE****	NYNEX Information Resource Company
	MAY WILLIAM (12)	
	HAMILTON GLORIA (17)	
	RANDALL KATHERINE (17)	
	RATCHFORD BETTY J (17)	
	GOFFRETH O (20)	
	PHILLIPS DARRYL (20)	
	BARNAS E (39)	

Year	Uses	Source
1990 (continued)		
	CONSACRO JOSEPH (42)	
	WALTERS S (42)	
	ACOSTA AURORA (43)	
	BIANCO ONOFRIO (51)	
	DESANTIS T A (54)	
	DOORS ARE US INC (60)	
	PHILLIPS A D REV (61)	
	KOENIG R (64)	
	CALDERON ALBINO (75)	
	JACKSON A F (78)	
	LOCUS ARTHUR (79)	
	BROWN R (87)	
	CICCARIELLO PAUL J (89)	
	AMUSA TAIWO (90)	
	SANDERS SALANDY D (90)	
	CARUTHERS FELIX P III (91)	
	CHAKRABORTY CHANDAN (92)	
	COKER NIYI (98)	
	PINKETT K (100)	
	WIEROMIEJ Z (101)	
	DOVE JOE (104)	
	ROBINSON A W (104)	
	COTTER ALBERT (106)	
	DUFFY TIMOTHY (110)	
	MARTINEZ RAYMOND (113)	
	GIBBS WILLIE L (116)	
	MILBRY SHARON (120)	
	NORRIS MARSHA (126)	
	LAYNE KAPHLYN (128)	
	BECKFORD GLORIA (134)	
	****RICHMOND TER****	NYNEX Information Resource Company
	SIGNS BY M & M INC (2966)	
	TOMUNSON G K HRDWR (3000)	
	ANGELLO Y (3010)	
	DUAL CLIMATE MECHANICAL CORP (3010)	
	EXPRESSO EXPRESS SALES (3010)	
	J & P GENERAL CONTRACTORS (3010)	
	RICH ASSOCIATES INC CONSTRUCTION HOME OFCE (3010)	
	SPECIALIZED ELECTL CO INC (3010)	
	MALONE MECHANICAL & CONSTR CORP (3016)	
	BRIGHTON HEATING & AIR CONDITIONING (3032)	
	BRIGHTON SHEET METAL CO (3032)	
	FELLOWSHIP BAPTIST CHURCH (3036)	

Year	Uses	Source
1990 (continued)		
	DECROTI D (3058)	
	MACKAUER STEVE (3058)	
	EILEENS KITCHEN (3068)	
	PHOTO LAB EQUIP CO (3080)	
1995	**ANDROS AVE**	NYNEX
	DUAL CLIMATE MECHANICAL CORP (10)	
	STA SALE WINDOW GUARDS (16)	
	GEORGES MOTOR WORKS LTD (19)	
	HARBOR GARAGE (19)	
	PFUHLER J L JR (19)	
	PHOTO LAB EQOIP CO (19)	
	SALLEMI ELECTRIC CORP SHOP (19)	
	CENCE AUTO SVCE (87)	
	BUSH AVE	NYNEX
	EVERYTHING BOTTOMS INC (14)	
	RICHMOND TER	NYNEX
	TOMUNSON G K HARDWARE MARINERS HARBOR EVERYTHING IN HARDWARE (3000)	
	LEGEND TRANSPORTATION LTD INC (3010)	
	RICH ASSOCIATES INC CONSTRUCTION HOME OFC (3010)	
	FIRST PERFORMANCE (3014)	
	VANCIAS (3016)	
	BRIGHTON HEATING A AIR CONDITIONING (3032)	
	BRIGHTON SHEET METAL CO (3032)	
	MELANIE MECHANICAL CONTRACTORS (3032)	
	FELLOWSHIP BAPTIST CHURCH (3036)	
	CLEAR VIEW AUTO GLASS (3068)	
	REGENCY VANS INC (3094)	
	VILLA & MELTZER ATTYS (3117)	
	ANDROS AVE	NYNEX
	HAYES EDWARD (23)	
	HICKMON AMIN GEORGIA (26)	
	HEJEOGU E E (29)	
	AMIN LACINE (30)	
	AMIN PIERRE (30)	
	WORRELL W (42)	
	WILLIS EMERSON (43)	
	LEJOE MAX (46)	
	MCKIE FREDDIE (59)	
	MCKIE FREDDIE M (59)	
	MCKIE J (59)	
	HOOKS ALDRIS C (61)	

Year	Uses	Source
1995 (continued)		
	ROMANO CHARLES JR (65)	
	ROMANO CHAS (65)	
	TWINE J A (68)	
	SMITH JAQUELINE (82)	
	THOMAS EDWARD (82)	
	DOVE JOE (86)	
	CENCE DAVID (87)	
	****BUSH AVE****	NYNEX
	LANORE DOREEN (20)	
	LANORE L (20)	
	CODY DONNA (26)	
	YELLOVICH PETER (28)	
	BROWN JOHN (30)	
	KRAUSE H (32)	
	WALTON KEVIN (45)	
	FELCI WM (53)	
	HALLBOM LINNEA (55)	
	HURLEY WM P (57)	
	MATHURIN C (59)	
	MORA LUIS (60)	
	NEAL J (62)	
	PARISI M (66)	
	ROBERSON C (72)	
	GARCIA LUIS RAMON (84)	
	WALDIN FRED G (86)	
	FAHS ROBERT (88)	
	SERRANTE JOHN (90)	
	BENZENBERG A (92)	
	FORREST W M (99)	
	SHEPPARD RONNIE (101)	
	WOODS C (103)	
	****BUSH****	NYNEX
	KELLY GEORGE (38)	
	****COONLEY CT****	NYNEX
	PANTOJA MIRIAM (3)	
	ROSA LUIS (3)	
	HUANG QI KAI (7)	
	CARRATURO LOUISA (13)	
	****HARBOR RD****	NYNEX
	FINO JOSEPH (12)	
	NIXON JEANNETTE (12)	
	REDRICK Y (12)	

Year	Uses	Source
1995 (continued)		
	ROSS R (12)	
	WAKEMAN GERALD (12)	
	GARGIULO L (25)	
	GARCIA THOMAS (26)	
	SQUICCIARINI CARLO (29)	
	FREE ROBERT M (30)	
	MORTENSEN MICHAEL (35)	
	CARREON BENJAMIN (37)	
	CARREON PEDRO (37)	
	WHITNUM ROSE (38)	
	THEUNG LU K (43)	
	ZELLER GEORGE JR (44)	
	HASKELL RUTH (45)	
	IORIO R (48)	
	SCANLON W (48)	
	BYRD J (49)	
	POZNAK CHARLES (49)	
	CASTRO HECTOR (50)	
	****HARBOR****	NYNEX
	CASALE G (7)	
	****LOCKMAN AVE****	NYNEX
	MAXWELL WILLIAM (12)	
	WASHINGTON ELISSA (17)	
	GOFORTH O (20)	
	PHILLIPS ADRIAN (20)	
	BASTIAN BARRY (32)	
	BRATHWAITE MEDRIE (37)	
	ROBERT M (37)	
	ACOSTA AURORA (43)	
	FLUDD LEATRICE (53)	
	FLUDD LEATRICE (53)	
	MCIVER N (57)	
	ROMNEY J (57)	
	WILLIAMS J H REV (61)	
	KOENIG R (64)	
	BAEZ WENDY (73)	
	CALDERON ALBINO (75)	
	LOCUS ARTHUR (79)	
	BROWN R (87)	
	CHAKRABORTY CHANDAN (92)	
	JEANNETTE CRAMER (98)	
	PINKETT K (100)	
	COTTER ALBERT (106)	

Year	Uses	Source
1995 (continued)		
	MARTINEZ RAYNOND (113)	
	GIVENS WILLIAM III (114)	
	MILBRY SHARON (120)	
	NORRIS MARSHA (126)	
	BECKFORD GLORIA (134)	
	LIATTO S (134)	
	****RICHMOND TER****	NYNEX
	BENNETT MARIE (2964)	
	MC CALIP BEATRICE (3010)	
	MORACE Y (3010)	
	BAPTIST CHURCH FELLOWSHIP (3036)	
2000	****ANDROS AVE****	Cole Information Services
	18 NP (17)	
	MANOE INTRNTL (19)	
	PHOTO LAB EQUIP 88 M (19)	
	SALLENI ELEC CORP (19)	
	EDWARD HAYES (23)	
	G HICKMON AMIN (26)	
	ANGELA ALLMAN (27)	
	E E HEJEOGU (29)	
	LAVEME AMIN (30)	
	PIERRE AMIN (30)	
	38 NP (35)	
	M OLIVER (41)	
	W WORREL (42)	
	EMERSON WILLIS (43)	
	DANDY LEJOE (46)	
	DANDY LEJOE (46)	
	G DE FELICE (58)	
	FREDDIE M MC KIE (59)	
	FREDDIE MC KIE (59)	
	ANITA ROMANO (65)	
	LESCELE BOGIE (80)	
	82 NP (81)	
	APARTMENTS TIA COOK (84)	
	B ADE MCHAEL (84)	
	CHARLES SIMPSON (86)	
	EXPRESS WARP (86)	
	TRACI ADKINS (88)	
	****BUSH AVE****	Cole Information Services
	GENE BLANCHARD (14)	
	C JORDAN (20)	

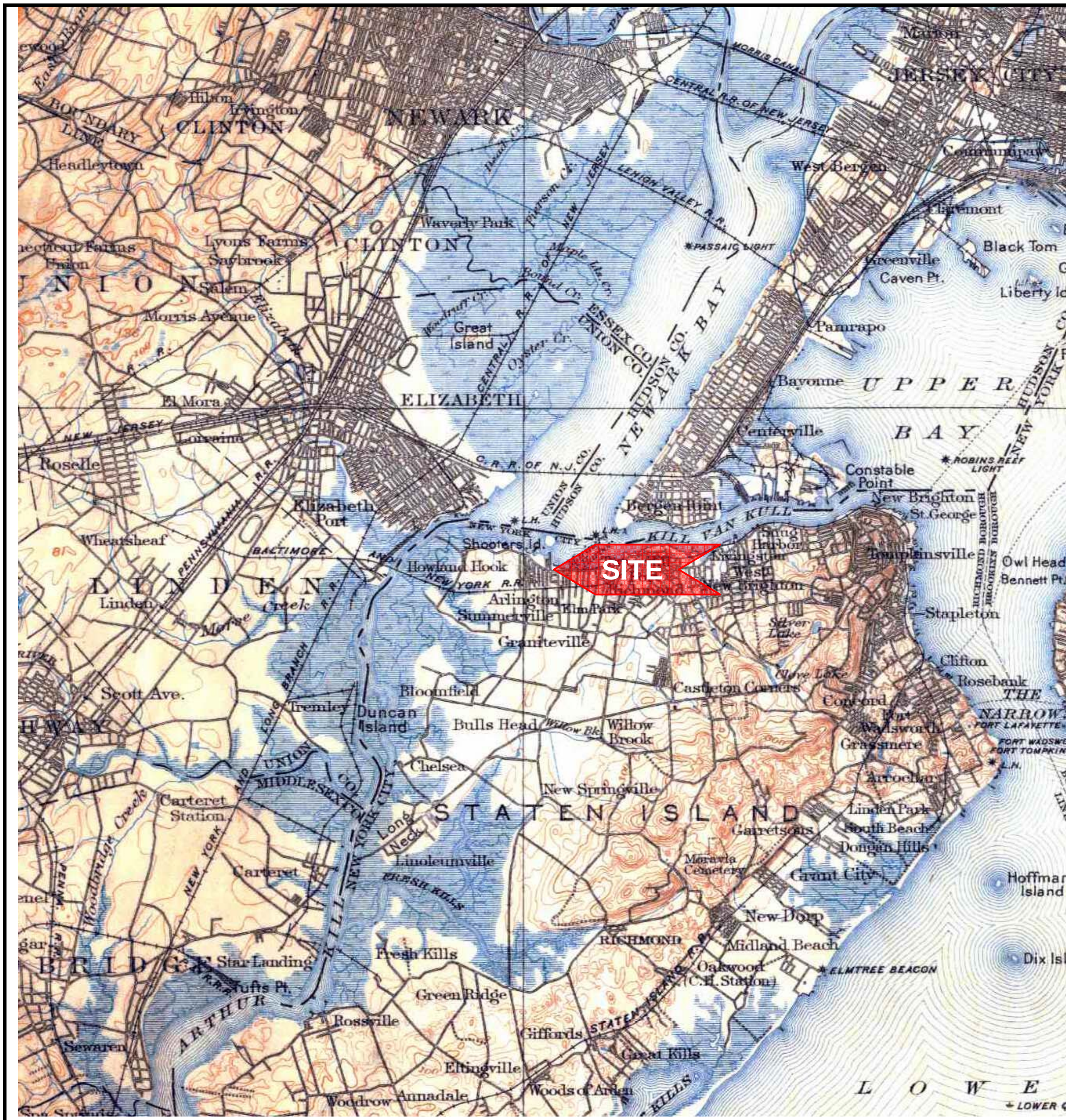
Year	Uses	Source
2000 (continued)		
	D LANORE (20)	
	DEIRDRE TAHAN (26)	
	PETER YELLOVICH (28)	
	AMIT CHUGH (30)	
	HOPE CRISHOM (30)	
	HELEN KRAUSE (32)	
	DONNA JOHNSON (34)	
	GEORGE KELLY (38)	
	AISHA WAHAB (41)	
	R PIERZYNKOWSKI (42)	
	G BARCIA (44)	
	M A FUCHS (44)	
	D THOMAS (45)	
	49 50 NP (47)	
	EMANUEL DIMAURO (51)	
	WILLIAM FELCI (53)	
	LINNEA HALLBOM (55)	
	59 NP (57)	
	LUIS MORA (60)	
	62 NP (61)	
	ALLISON YHAP (63)	
	M PARISI (66)	
	68 NP (67)	
	IAN FITZGERALD (69)	
	C ROBERSON (72)	
	LORIETTA MOORE (79)	
	LUIS R GARCIA (84)	
	88 88 NP (86)	
	ROLANDO CORDERO (92)	
	ROBERT FAHS (96)	
	JOHN SERRANTE (98)	
	SYLVAN PL INTS (98)	
	101 103 NP (99)	
	ALEXANDER E OKOCHA (109)	
	ALEXANDER E OKOCHA (109)	
	HAGSRTOM MAP LOC 30 B (109)	
	SYLVAN PL INTS (109)	
	WILLIAM M NAEDER (117)	
	JOHN W BURKE (121)	
	A G KERBER (122)	
	G KERBER (122)	
	ANTHONY PEREZ (126)	
	DVSN 726 FED CRDT (129)	

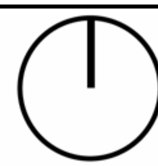
Year	Uses	Source
2000 (continued)		
	MURIEL KENNEDY (130)	
	LINDA CLEARY (133)	
	142 147 150 NP (134)	
	CORNELIUS J RYAN (155)	
	J E JOHNSEN (158)	
	SUSAN SAMES FLIS (166)	
	S WITTICH (167)	
	JANE MIERZEJEWSKI (169)	
	ROBERT KARASEK (171)	
	ALBERT BENVENUTO (173)	
	CRAIG AVE INTS (173)	
	LISA GIUSTINIANI (173)	
	PHILIP MEGNA (173)	
	JOSEPH MELTHIORRI (191)	
	STROKES PAINTING (191)	
	INDPNDNT LVNG ASSN (192)	
	DOROTHY KANDIANIS (196)	
	G LUSSOS (196)	
	APARTMENTS PH JOHN G BUONVIAGGIO (200)	
	V BUONVIAGGIO (200)	
	JOHN PIRANDO (205)	
	J DOYLE (206)	
	LECAARDE CONTRNG (210)	
	ROBERT PEERSON (214)	
	R F NELSON (215)	
	APARTMENTS (218)	
	FL G TODD (218)	
	V WOGLOM (218)	
	222 NP (221)	
	OSVALDO VEGA (223)	
	G ANTONELLI (228)	
	ANTHONY WALLEN (229)	
	MARIA MAIORANA (233)	
	****CHRISTOPHER ST****	Cole Information Services
	15 NP (11)	
	****COONLEY CT****	Cole Information Services
	MIRIAM CORA (3)	
	7 N P (5)	
	M DEBELLO (9)	
	D L GREENIDGE (11)	
	****HARBOR RD****	Cole Information Services
	JOSEPH HENRIQUEZ (8)	

Year	Uses	Source
2000 (continued)		
	APHONSO DALEY (12)	
	FRANCIS BURBANK (12)	
	GERALD WAKEMAN (12)	
	MARY GERBINO (12)	
	THOMAS DEGNAN (12)	
	Y MERCADO (12)	
	B O BRIEN (13)	
	MARIA CASTILLO (13)	
	CARLA DIXON (17)	
	ROSEMARIE SERONE (17)	
	L GARGUILO (25)	
	G HAGGERTY (26)	
	THOMAS GARCIA (26)	
	CARLO SQUICCIANINI (29)	
	CARLO SQUICCIANINI (29)	
	E STAUDIGL (33)	
	A ATANACIO (35)	
	MICHAEL MORTENSEN (35)	
	BENJAMIN CARREON (37)	
	RAMON GONZALEZ (37)	
	COLLEEN HOLMES (38)	
	DEBRA CHAVIS (38)	
	LUE K THEUNG (43)	
	GEORGE ZELLER JR (44)	
	RUTH HASKELL (45)	
	CHARLES POZNAK (48)	
	W SCANLON (48)	
	THOMAS BROOKS (49)	
	52 54 58 52 54 58 NP (50)	
	****LOCKMAN AVE****	Cole Information Services
	E LAMONTE MC GHEE (1)	
	JANAYE VINCENT (1)	
	K WILSON (1)	
	KEYONNA M MITCHELL (1)	
	LUIS TORRES (1)	
	MARIANA ROSADO (1)	
	T MORALES (1)	
	A F CASTANEDA (2)	
	BZATA HILL (2)	
	C RAYMOND DASH (2)	
	DENISE GOODING (2)	
	10 NP (8)	
	WILLIAM MAY (12)	

Year	Uses	Source
2000 (continued)		
	AESHA DUNN (17)	
	MICHAEL (17)	
	SHERI PHILLIPS (20)	
	K BASSETT (24)	
	E DENNIS (25)	
	28 NP (27)	
	BARRY BASTIAN (32)	
	ENNIS PETERS (37)	
	MARIA ROBERT (37)	
	MEDNE BRATHWAITE (37)	
	40 42 NP (39)	
	AURORA ACOSTA (43)	
	TANYEKA BESWICK (46)	
	ONOFRIO BIANCO (51)	
	54 NP (53)	
	PAUL SENDERS (57)	
	REV J H WILLIAMS (61)	
	BARBARA HALL (67)	
	JAMES GONZALEZ (69)	
	A L CARTER (73)	
	ALBINO CALDERON (75)	
	VIVIAN CALDERON (75)	
	ARTHUR LOCUS (79)	
	ARTHUR LOCUS (79)	
	ANGELA JOHNSON (85)	
	JOSE R BENAVIDES (87)	
	REV D VIEIRA (87)	
	89 NP (88)	
	VANESSA BUREL (90)	
	MONICA A BANSON (92)	
	RINACE AIR INDSTRS 96 713 815 3 U (92)	
	LAURA FARR (94)	
	WANDA MC KINLEY (98)	
	K PINKETT (100)	
	ROBERT NEBBIA (100)	
	JADA GORDON (104)	
	LINDA GWEE (104)	
	106 NP (105)	
	THOMAS J DUNN (107)	
	110 NP (109)	
	GARIFUNA ENTRPRSS (113)	
	JOHN COLLINS (113)	
	RAYMOND MARTINEZ (113)	

Year	Uses	Source
2000 (continued)		
	WILLIAM GIVENS (114)	
	WILLIE L GIBBS (116)	
	GARY MILBRY (120)	
	A DI TELLO (122)	
	MARSHA NORRIS (126)	
	RONALD MORRIS (132)	
	IVAN FIGUEROA (134)	
	****RICHMOND TER****	Cole Information Services
	DIVINE SMITH (2964)	
	BUSH AVE INTS (2966)	
	RICHMOND DISC STR (2966)	
	US GOVT POST OFC (2980)	
	STAR SUPPLY (3000)	
	TOMLINSON G K HDWR (3000)	
	LOCAL 920 I L A (3010)	
	MERIT SEC SERV INC (3010)	
	TAMIKA RAINEY (3010)	
	3020 NP (3018)	
	B C FELLOWSHIP (3036)	
	CHURCH F BAPTIAT (3036)	
	F L CENTER (3036)	
	F F PROGRAM (3058)	
	MARIAER HBR RESRC (3058)	
	MARIAER HBR RSRCS (3058)	
	3066 NP (3062)	
	ALDES RACG PRDCTS (3068)	
	GRANDVIEW AVE INTS (3068)	
	HENRY KELLEMAN (3068)	
	ENGINE WORLD (3080)	
	MERSEREA AVE INTS (3080)	
	STATES ISLE ERCTRS (3080)	
	MARK ROESCH (3100)	





NORTH

Source: USGS 30 Minute Topographic Map;
Passaic, New York 1900

psi Information To Build On
Engineering • Consulting • Testing

Topographic Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York **PSI Project #: 046-7E014**

NORTH

Source: USGS 15 Minute Topographic Map;
Staten Island, New York 1900

Information To Build On
Engineering • Consulting • Testing

Topographic Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York **PSI Project #: 046-7E014**

NORTH

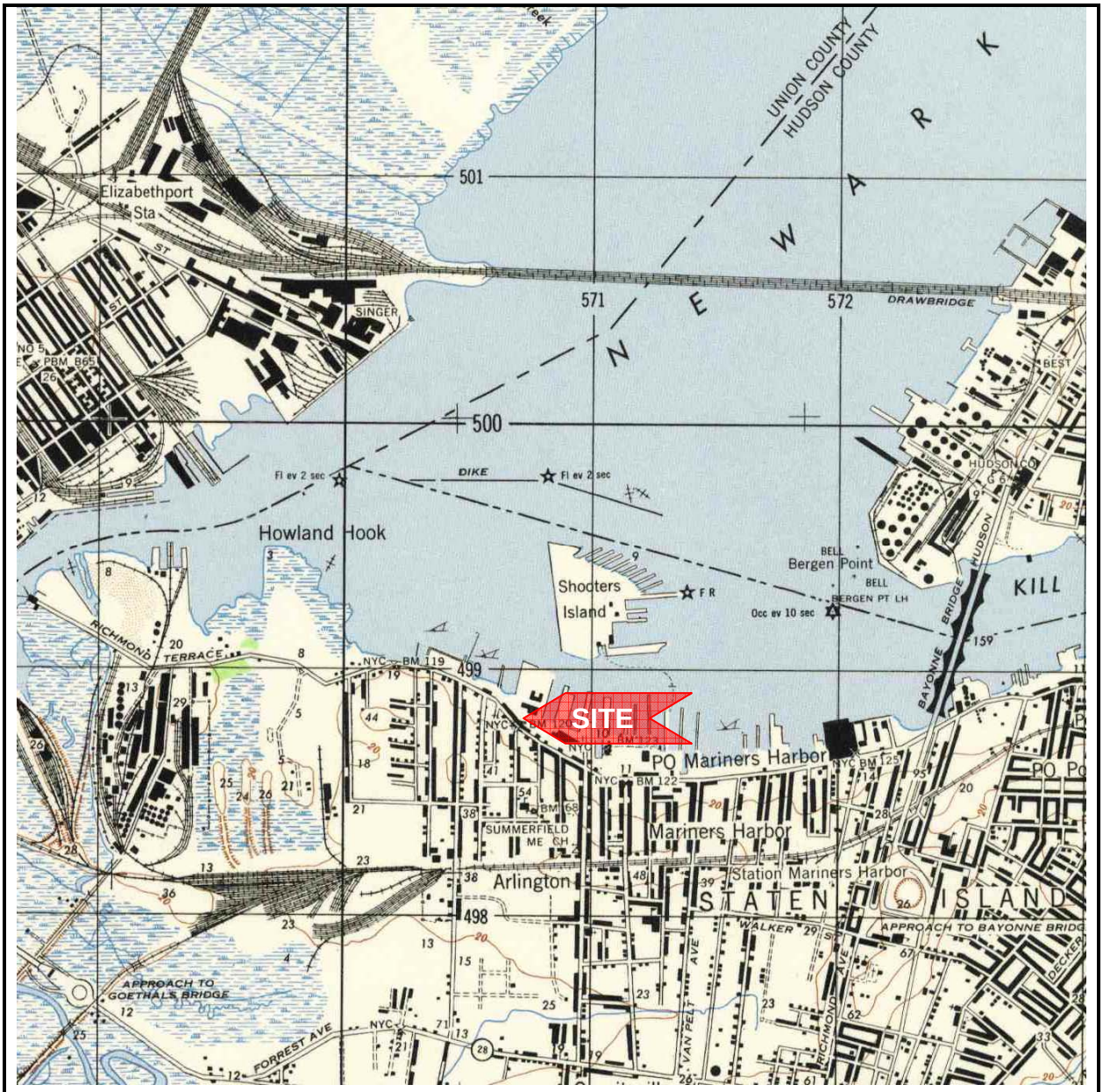
Source: USGS 30 Minute Topographic Map;
Passaic, New York 1905

Information To Build On
Engineering • Consulting • Testing

Topographic Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York | **PSI Project #: 046-7E014**



NORTH

miles
0 0.25 0.50 1.0

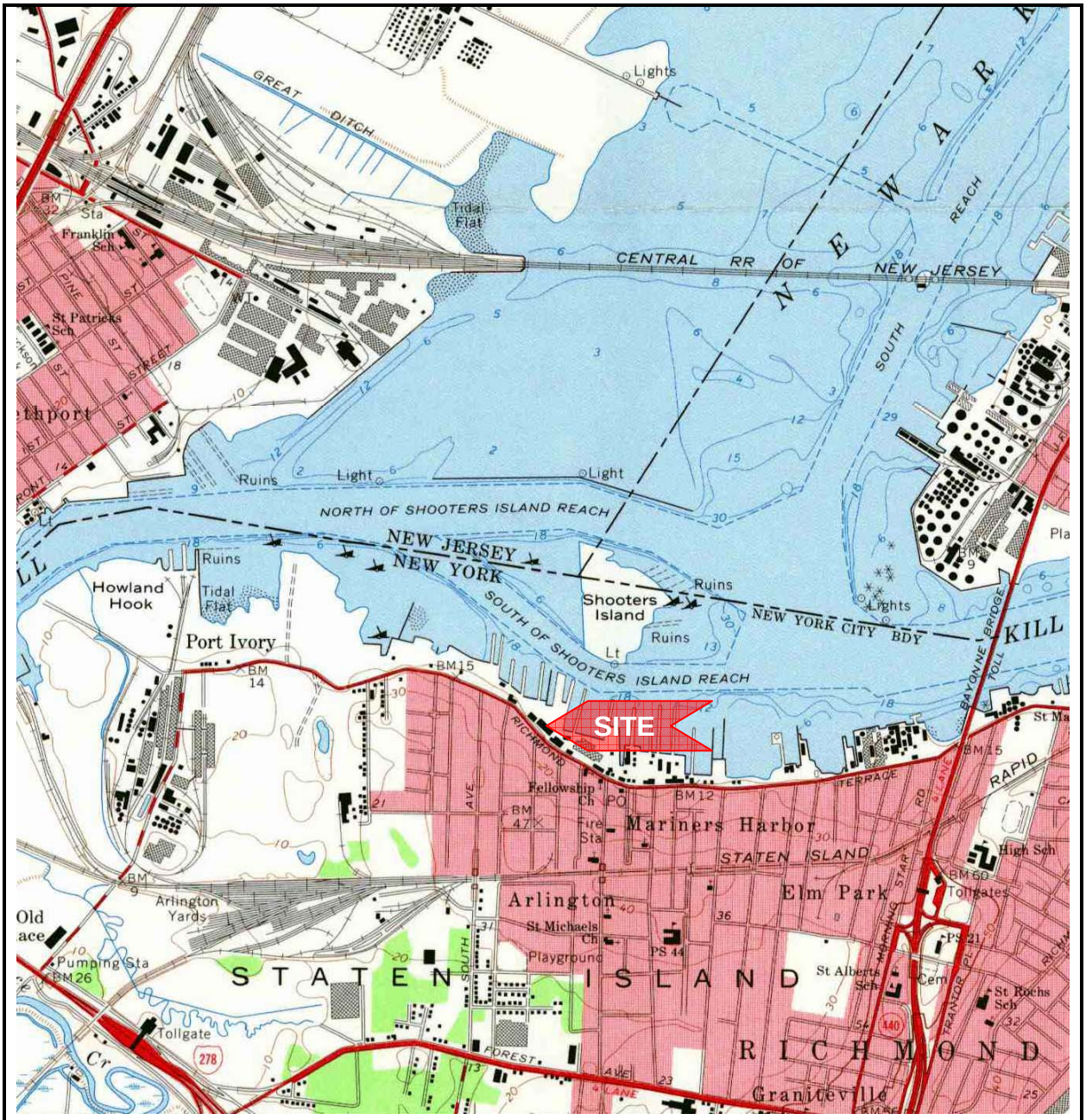
Source: USGS 7.5 Minute Topographic Map; Elizabeth, New York 1947

psi Information To Build On
Engineering • Consulting • Testing

Topographic Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York **PSI Project #: 046-7E014**



NORTH

miles
0 0.25 0.50 1.0

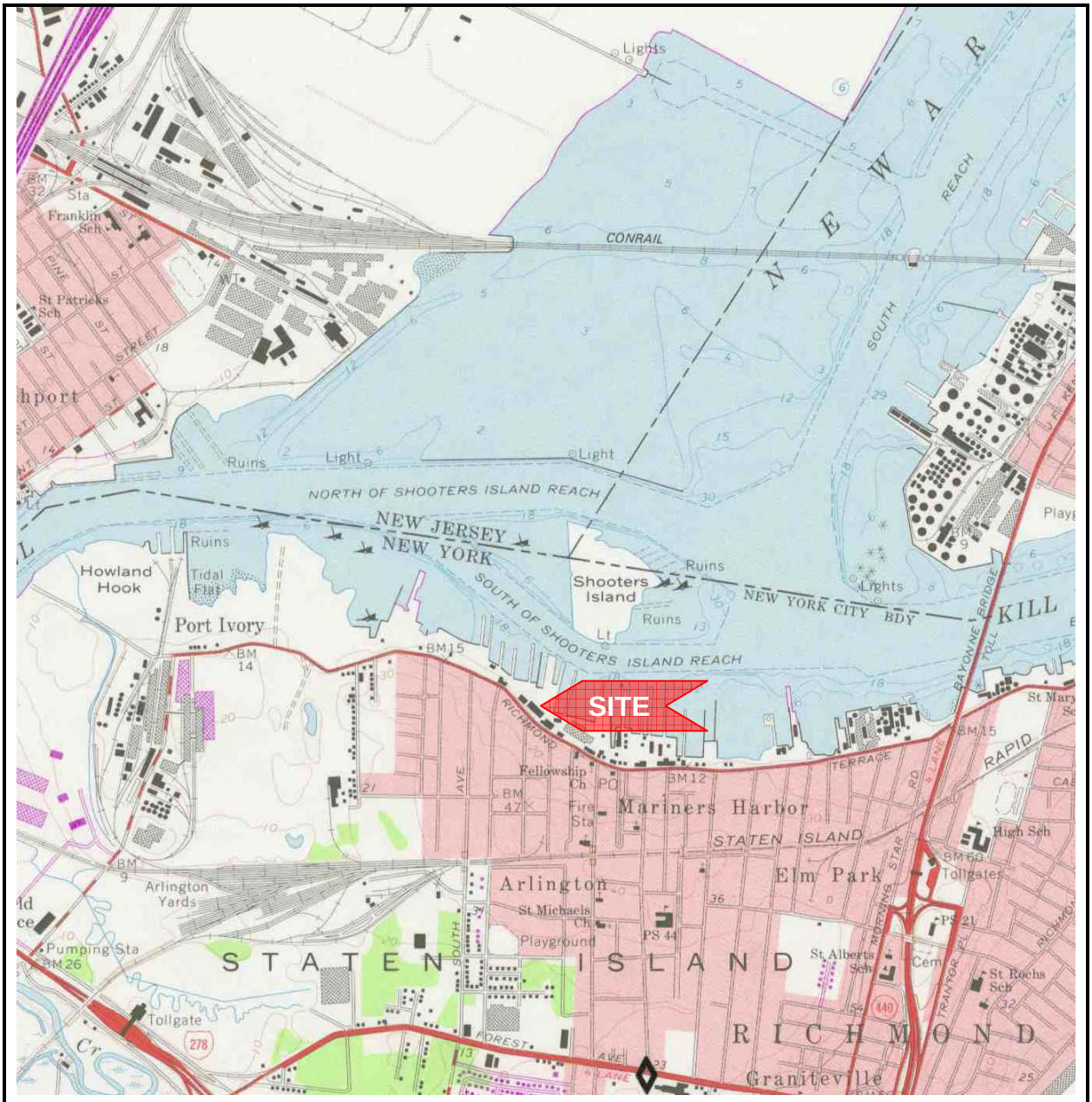
Source: USGS 7.5 Minute Topographic Map; Elizabeth, New York 1967

psi Information To Build On
Engineering • Consulting • Testing

Topographic Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York **PSI Project #: 046-7E014**



NORTH

miles

0 0.25 0.50 1.0

Source: USGS 7.5 Minute Topographic Map; Elizabeth, New York 1981; Photorevised From: 1967

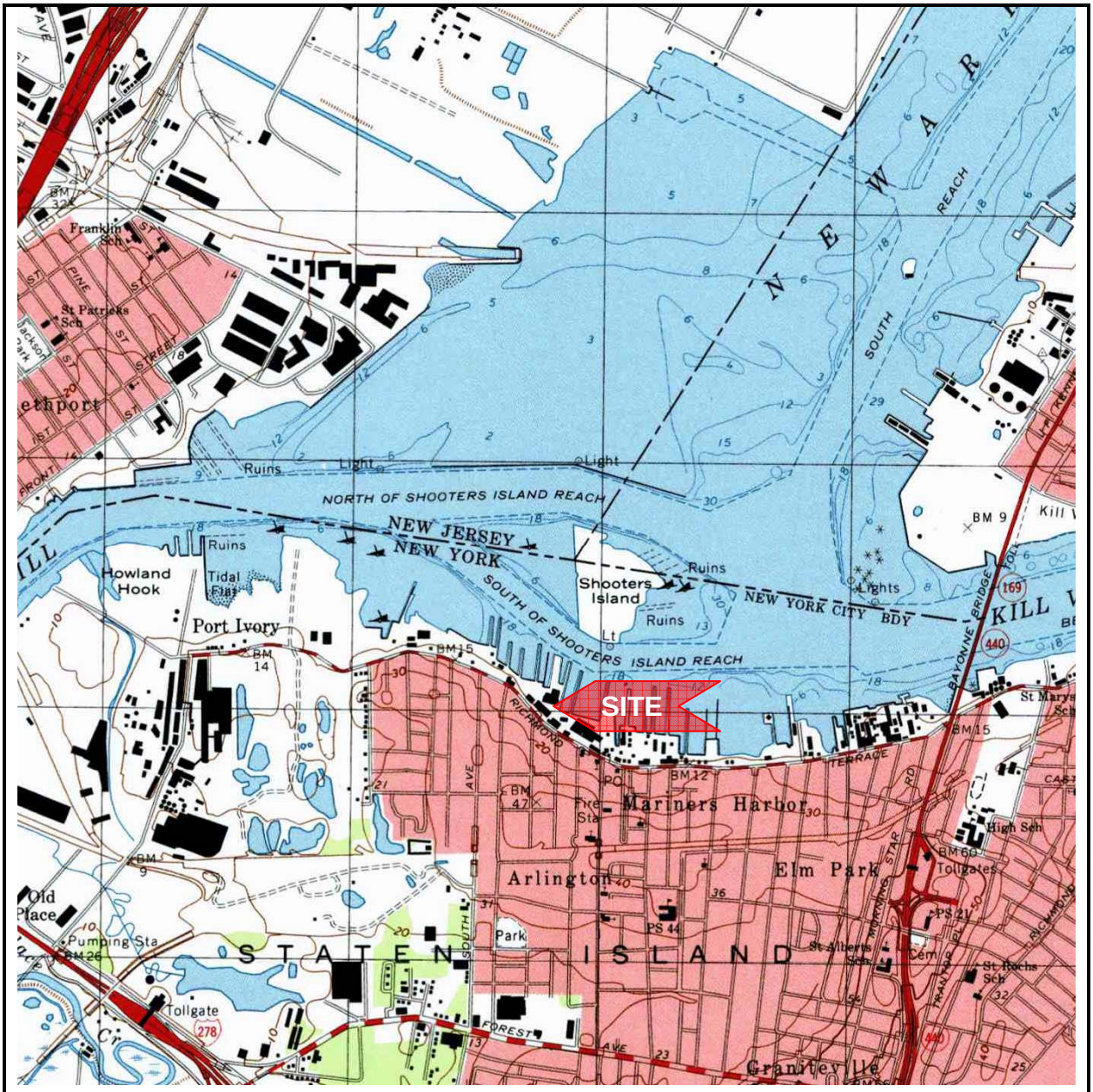
psi Information To Build On

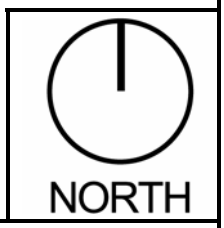
Engineering • Consulting • Testing

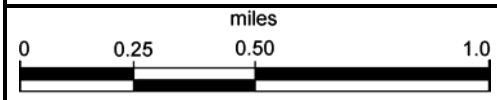
Topographic Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York **PSI Project #: 046-7E014**







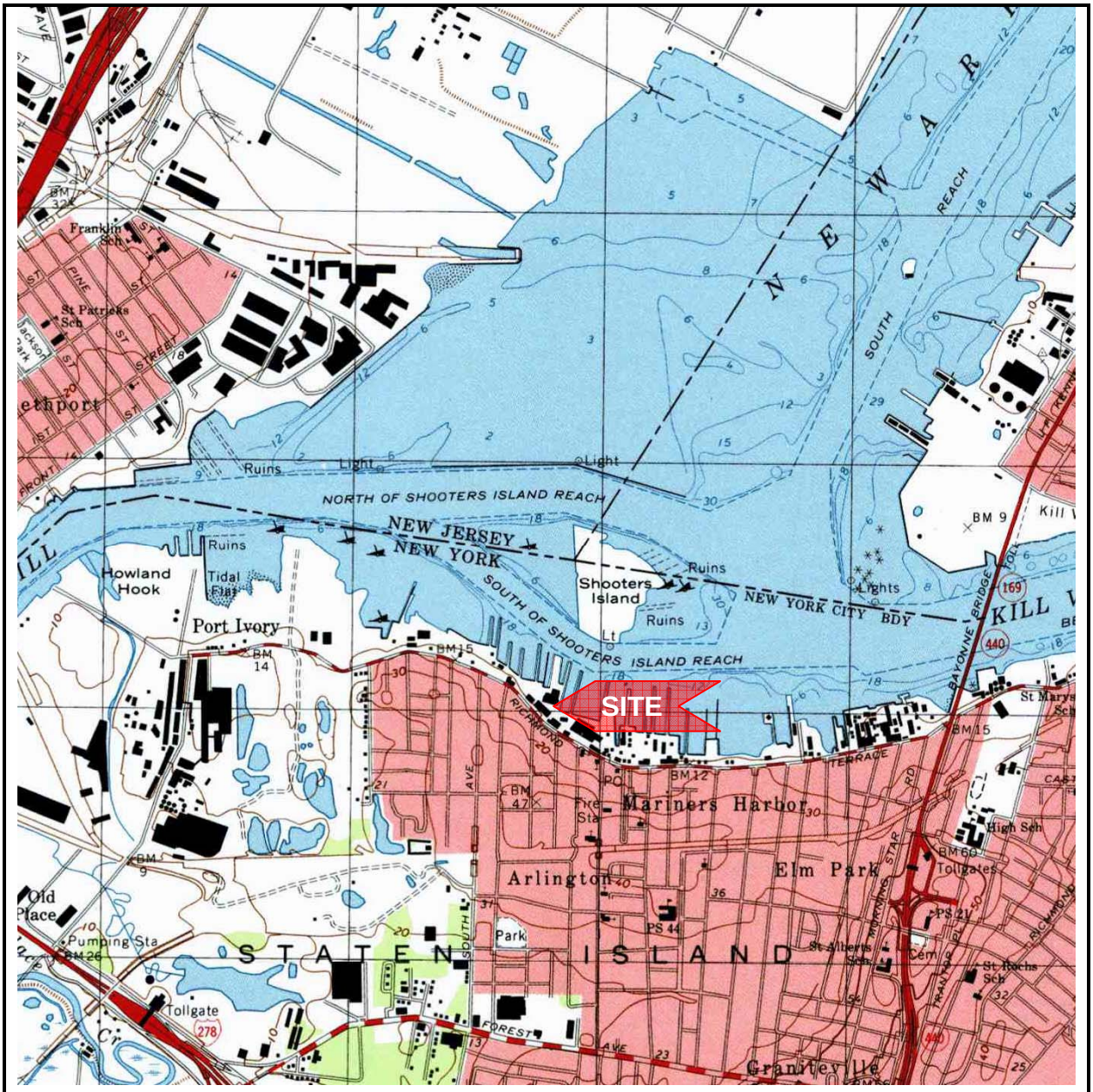
Source: USGS 7.5 Minute Topographic Map; Elizabeth, New York 1995

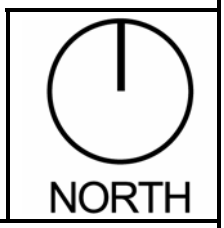
psi Information To Build On
Engineering • Consulting • Testing

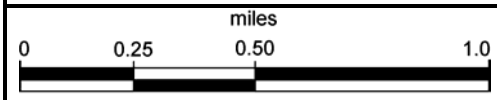
Topographic Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York **PSI Project #: 046-7E014**







Source: USGS 7.5 Minute Topographic Map; Elizabeth, New York 1995

psi Information To Build On
Engineering • Consulting • Testing

Topographic Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York **PSI Project #: 046-7E014**

NORTH

Source: NRCS
1954

Aerial Photograph

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

PSI Project #: 046-7E014

psi Information To Build On
Engineering • Consulting • Testing

NORTH

Source: NRCS
1966

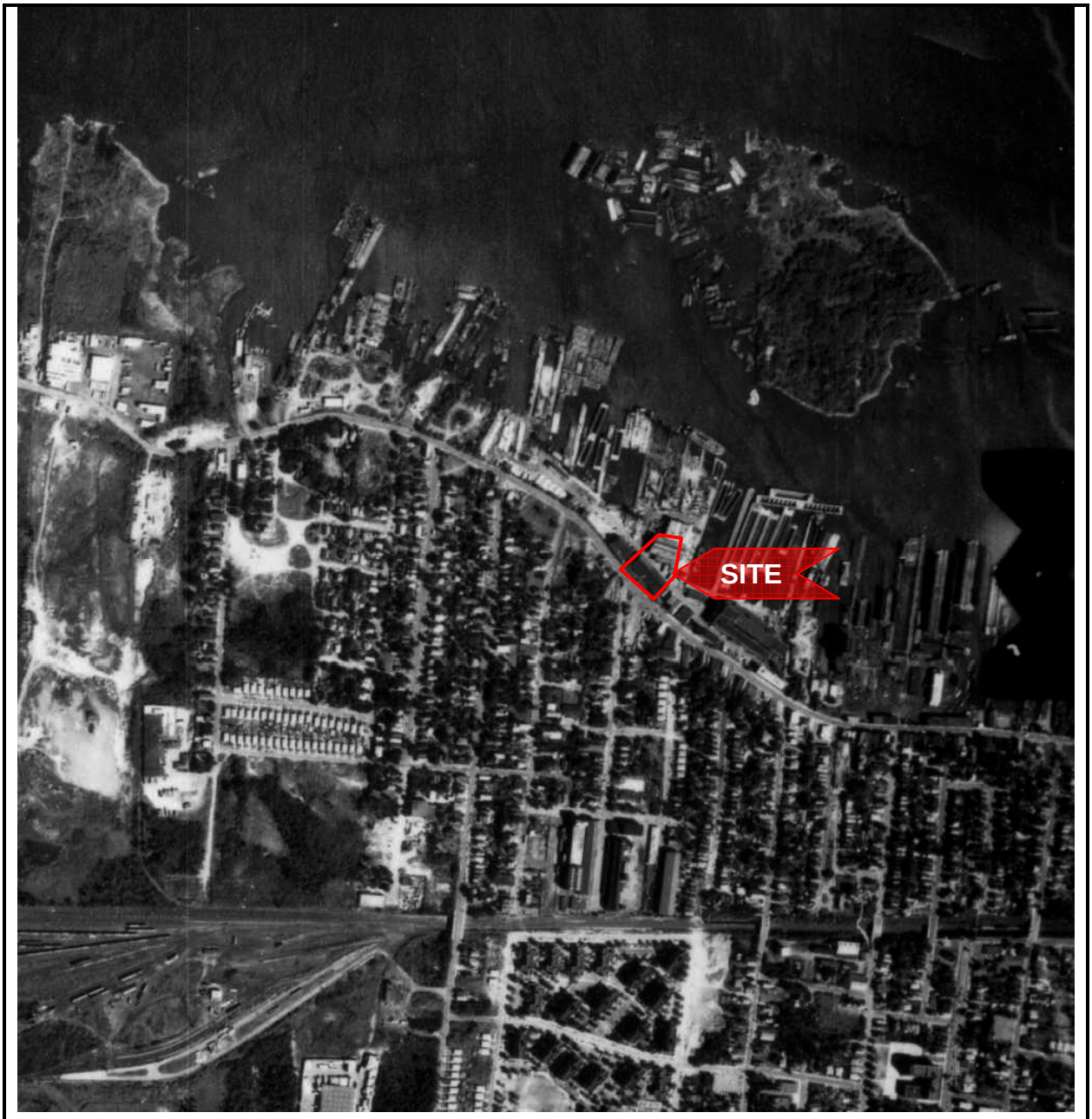
Aerial Photograph

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

PSI Project #: 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



NORTH

Source: NRCS
1972

Aerial Photograph

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

PSI Project #: 046-7E014

psi Information To Build On
Engineering • Consulting • Testing

	Source: NRCS **1984**
psi Information To Build On Engineering • Consulting • Testing	**Aerial Photograph**
	Proposed Devon Self Storage **3075 & 3131 Richmond Terrace**
	Staten Island, New York **PSI Project #: 046-7E014**

NORTH

Source: NRCS
1995

Aerial Photograph

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

PSI Project #: 046-7E014

psi Information To Build On
Engineering • Consulting • Testing

REGULATORY RECORDS REVIEW DOCUMENTATION

Thank You For Filling Out This Form

Shown below is your submission to **NYC.gov** on Tuesday, May 15, 2007 at 16:31:35

This form resides at http://home2.nyc.gov/html/dof/html/contact/contact_emailrules.shtml

Name of Fields	Data
ORGANIZATION OR COMPANY NAME:	Professional Service Industries
NAME:	Mike Marsaglia
YOUR POSITION:	Project Scientist
STREET ADDRESS 1:	4421 Harrison Street
CITY:	Hillside
STATE:	IL
COUNTRY:	USA
ZIP:	60162
TELEPHONE NUMBER:	7082360720
FAX NUMBER:	7082360721
RECORDS SOUGHT:	Underground or Aboveground Storage Tank installation or removal permits. Hazardous Material storage, disposal or release records. Property Tax Record card information (2005-2007) for the property identified as Block 1208, Lot 10 and part of Lot 9 in the borough of Staten Island, NY.
HOW TO SEND INFO:	Please mail or FAX (if under 5 pages) to my attention at the address provided.

Use http://home2.nyc.gov/html/dof/html/contact/contact_emailrules.shtml to return to the referring City agency

Information To Build On
Engineering • Consulting • Testing

May 21, 2007

Public Records Officer
New York City Department of City Planning
Staten Island Borough Office
130 Stuyvesant Place, 6th Fl.
Staten Island, NY 10301

Re: Freedom of Information Request
Infanti Chair Manufacturing (a.k.a. E.K.I.)
3075 and 3131 Richmond Terrace
Staten Island, NY 10303
Tax Map Block 1208, Lots 9 and 10

Public Records Officer:

Under the provision of the New York Freedom of Information Law (Article 6, Public Officers Law) to request access to certain information available from your agency, I would like to receive information regarding the known or potential environmental and public health hazards posed by the site located at 3075 and 3131 Richmond Terrace (Tax Map Block 1208, Lots 9 & 10), Staten Island, Richmond County, New York.

Specifically, I would like to obtain copies of any Hazardous Materials chapters from Environmental Impact Assessments or Statements and the associated appendices. Please let me know how I may obtain copies of these materials as I am located out of state and will not be able to review them in person.

Best Regards,

Michael Marsaglia
Project Scientist
Professional Service Industries
4421 Harrison Street
Hillside, Illinois 60162

Marsaglia, Mike

From: rules [rules@finance.nyc.gov]
Sent: Thursday, May 17, 2007 11:30 AM
To: Marsaglia, Mike
Subject: RE: City of New York - Correspondence #1-1-317764910 Contact the Department of Finance -- Agency Rule Making Decisions

May 17, 2007

Professional Service Industries
4421 Harrison Street
Hillside, IL 60162
Attention: Mr. Mike Marsaglia

Dear Mr. Marsaglia:

This is in response to your May 15, 2007 Internet request for information concerning Staten Island, Block 1208, Lots 9 and 10 My office will attempt to locate all Finance records that are responsive to your request for "record card" information. Once any existing records are located, delivered and copied, I will send you such copies.

The portion of your request dealing with storage and HAZMAT information has been referred to the New York City Department of Environmental Protection.

If you have any further questions, please contact me at (212) 504-4275.

Thank you for your anticipated patience.

Sincerely,

Gerald S. Koszer
Records Access Officer

From: outgoingagency@customerservice.nyc.gov [mailto:outgoingagency@customerservice.nyc.gov]
Sent: Tue 5/15/2007 4:33 PM
To: rules
Cc: Webmail1
Subject: City of New York - Correspondence #1-1-317764910 Contact the Department of Finance -- Agency Rule Making Decisions

Your City of New York - CRM Correspondence Number is 1-1-317764910

DATE RECEIVED: 05/15/2007 16:32:33

DATE DUE: 05/29/2007 16:33:19

SOURCE: WEB

The e-mail message below was submitted to the City of New York via NYC.gov or the 311 Call Center. It is forwarded to your agency by the 311 Customer Service Center. In accordance with the Citywide Customer Service standard, your response

is due in 14 calendar days.

****
If this message is to a Commissioner / Agency Head and needs to be re-routed to another agency or cc to another agency, forward the email to outgoingagency@customerservice.nyc.gov. Do not make any changes to the subject line. Include any comments and it will be processed by the 311 Customer Service Center.

All other web forms are to be handled by the receiving agency.

****

-----Original Message-----

From: PortalAdmin@doitt.nyc.gov
Sent: 05/15/2007 16:31:35
To: sbladmp@customerservice.nyc.gov
Subject: < No Subject >

From: mike.marsaglia@psiusa.com ( )
Subject: Contact the Department of Finance -- Agency Rule Making Decisions

Below is the result of your feedback form. It was submitted by
(mike.marsaglia@psiusa.com) on Tuesday, May 15, 2007 at 16:31:35

This form resides at
http://home2.nyc.gov/html/dof/html/contact/contact_emailrules.shtml

---

ORGANIZATION OR COMPANY NAME: Professional Service Industries

NAME: Mike Marsaglia

YOUR POSITION: Project Scientist

STREET ADDRESS 1: 4421 Harrison Street

CITY: Hillside

STATE: IL

COUNTRY: USA

ZIP: 60162

TELEPHONE NUMBER: 7082360720

FAX NUMBER: 7082360721

RECORDS SOUGHT: Underground or Aboveground Storage Tank installation or removal permits. Hazardous Material storage, disposal or release records. Property Tax Record card information (2005-2007) for the property identified as Block 1208, Lot 10 and part of Lot 9 in the borough of Staten Island, NY.

HOW TO SEND INFO: Please mail or FAX (if under 5 pages) to my attention at the address provided.

REMOTE_HOST: 160.81.72.62
HTTP_USER_AGENT: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; PSIUSA.COM; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30)

****

DATA GAP WORKSHEET

Project Name: Proposed Devon Self Storage
Project Number: 046-7E014
Date: 5/25/07

DATA GAP WORKSHEET

APPEND

Requirement	Status			Other Sources of Information	SDG*
Category Activity	N/A	Complete	Incomplete	**Reference other sources used in coordination with or to augment**	**Blank if None**
User Responsibilities					
User Knowledge and Information		☒	☐		
Environmental Lien and AUL Information		☒	☐		
Environmental Records Review					
Standard Environmental Records Source Information		☒	☐		
Discretionary local environmental record information	☐	☒	☐		
Physical Setting Source					
Standard Physical Setting Information		☒	☐		
Additional Physical Setting Record Information	☒	☐	☐		
Historical Records Review					
Property History Identified to 1940		☒	☐		
Property History Identified first Developed Use		☐	☒	The 1898 Sanborn map suggested no structures on the subject property; however, it is not clear whether the property was not developed at that time.	
Surrounding Property History Information		☒	☐		
Site Reconnaissance					
Observations: Exterior of the Subject Property		☒	☐		
Observations: Interior of the Subject Property	☐	☒	☐		
Current and Past Uses of the Subject Property		☒	☐		

Project Name: Proposed Devon Self Storage
Project Number: 046-7E014
Date: 5/25/07

DATA GAP WORKSHEET

Site Reconnaissance (cont.)	N/A	C	I	Other Sources of Information	SDG*
Observations: Adjoining Property		☒	☐	A portion of the adjoining property to the north was able to be observed from the subject property boundary due to physical obstructions, but its general use is known.	
Current and Past Uses of the Adjoining Property		☒	☐		
Uses of the Surrounding Area		☒	☐		
Interviews (with...)					
Current Owner or Identified Key Site Manager		☒	☐		
Non-Residential Major Occupants	☐	☒	☐		
Occupants with operations likely to indicate RECs	☐	☒	☐		
Past owners, operator, and occupants	☐	☐	☒		
If subject property abandoned, owner or occupants of neighboring properties	☒	☐	☐		
State or local government official		☐	☒	FOIAs are pending with no response to date. PSI attempted to contact the local Fire Department several times, but with no success.	

Comments and Explanations

No significant data gaps were identified.

* SDG = Significant Data Gaps. List Identified SDGs in Section 1.1 of the Report

PERSONNEL QUALIFICATIONS

Information To Build On
Engineering • Consulting • Testing

Professional Service Industries, Inc.

All Appropriate Inquiries Environmental Professional

Michael Marsaglia

Meets the education, training, and experience requirements as set forth in 40 CFR §312.10

October 4, 2006

Chief Learning Officer

psi UNIVERSITY
Information to Build On

Résumé

David H. Russian, PE

Principal Consultant
Regional Engineer
Department Manager-Environmental Services
Hillside, Illinois

Year started with PSI: 2004
Years experience with other firms: 14

Education

Commercial Real Estate Development Graduate Certificate, University of Wisconsin-Madison, School of Business - Executive Education Program, Concentration in Construction Management, 2006
Master of Business Administration, Keller Graduate School of Management, 2000
Master of Project Management Certificate, Keller Graduate School of Management, 2000
Bachelor of Science in Civil Engineering, Clemson University, 1991

Certifications/Registrations/Technical Training

Professional Engineer, Illinois, 1997
Construction Project Administration & Claims Control, ASCE Self Study Course, 2004
Theory of Constraints/Critical Chain Project Management, Goldratt Institute, 2003
Asbestos Contractor and Supervisor Training, Illinois, 2002
Project Management Boot Camp, PSMJ Resources, 2002
40-Hour OSHA Hazardous Waste Operations Training, 1991-current

Affiliations/Memberships

American Society of Civil Engineers (ASCE)
Project Management Institute (PMI)
Toastmasters International

Professional Experience

Mr. Russian has 16 years of project, portfolio and master services contract management experience for engineering and environmental consulting services, serving clients such as real estate developers and investors, attorneys, non-profits and public agencies for commercial and industrial transactions, re-developments and Brownfield cleanups in over 30 states, Canada and Mexico.

Technical experience includes Brownfield redevelopments, environmental site assessments (ESAs) and investigations, remedial assessments and designs, risk-based investigations and closures, leaking underground storage tank (LUST) closures, and, pollution prevention projects, property condition assessments, geotechnical investigations and asbestos surveys and abatement.

As Regional Engineer for Environmental Services, Mr. Russian provides mentorship and guidance for technical, project management and state-specific regulation issues for Illinois and other offices. In this role, Mr. Russian also contributes to leadership, quality of service, sales process and growth objectives.

Mr. Russian's experience in the role of Client Manager on a local and national basis includes Montgomery Ward, Chicago Department of Environment, Illinois DNR Contaminated Lands Contract, Amoco Oil Company, Ridge Property Trust and other real estate developers and investors.

Mr. Russian's Project Management responsibilities include achieving client quality-of-service objectives, contractual and profit objectives and, managing multi-disciplined engineering and environmental staff,

subconsultants and subcontractors, development of proposals and cost estimates, project scheduling and execution and, risk management objectives, client satisfaction and momentum sales.

Mr. Russian's prior experience includes liaison for development of corporate Revenue Projection System, and leadership in Project Process/Management and ISO-9001 focus groups, development of corporate Effective Meeting Guidelines, Project Management Guidelines and Risk Management Guidelines. In addition, Mr. Russian received the President's Award for his contributions.

Summarized below is Mr. Russian's select project experience pertaining to specific areas of experience.

Representative Brownfield Redevelopment Project Experience

- Former Industrial Site, 76th & Parnell, Chicago, IL - Project manager for the execution of a Phase I and II ESA, comprehensive site investigation, remedial objectives development, and remedial action planning for the Chicago DOE. This 7-acre site was planned for residential development as part of the City's Safe Homes for Kids Program. The subject property was formerly occupied by a carriage and automobile manufacturer, Studebaker automobile company, then numerous manufacturing and warehousing tenants. Managed the project team in the planning and execution of several phases of soil and groundwater investigations, hazardous material (drum) removal, clearing and grubbing, fencing, remedial cost estimating, remediation planning, hazardous lead and solvent remediation oversight, UST removal and, Illinois EPA coordination and reporting services. Achieved a no further remediation (NFR) letter.
- Drexel Redevelopment Plan, Chicago, IL - Project manager for the execution of a Phase II ESA, comprehensive site investigation, remedial objectives development, and remedial action planning for the Chicago DOE and Chicago Housing Authority (CHA). This former commercial 6-acre site was planned for residential redevelopment by the CHA and achievement of a NFR letter from the Illinois EPA site remediation program. Managed the project team in the planning and execution of several phases of soil and groundwater investigations, UST removal, soil management planning and Illinois EPA coordination and reporting.
- Abandoned Steel and Wire Plant, Chicago, IL - Project manager for the environmental characterization of this brownfield site. Developed a project work plan for subsurface investigation and waste characterization activities through evaluation of historical information, site reconnaissance, and knowledge of the nature of former onsite operations. Plan included the evaluation of impacts from suspect asbestos-containing material (ACM) and lead paint. Onsite and offsite areas of environmental concern and suspected COCs and potential special and hazardous wastes were evaluated and sampled. Over 350 wastes and containers were evaluated and categorized. Cost estimates for demolition, environmental remediation, and waste removal were developed. Project was completed on budget, on time and received praise from Chicago DOE and Illinois EPA.
- Back of the Yards Child Daycare Center, Chicago, IL - Managed the project team in the planning and execution of several phases of soil and groundwater investigations, fact finding, site assessment, and remediation activities. The scope of work included a non-invasive geophysical evaluation for potential USTs, significant soil sampling for vertical and horizontal delineation, exploratory excavations and environmental remediation and removal action. Reports submitted included comprehensive site investigation report, remedial objectives report, remedial action plan, and remedial action completion report to the Illinois EPA for review and requested a NFR letter based upon use of an engineered barrier for the subject property.
- Former Industrial Facility Property, Chicago, IL - Project manager responsible for the invasive assessment activities and remedial actions on a 24-acre former industrial and uncontrolled dump site since 1998. Lead efforts of comprehensive site investigation, remedial objectives and remedial action planning, and Illinois EPA reporting activities in pursuit of a NFR letter.

- Two Industrial Facilities, Bedford Park, IL – Saved client over $1M in investigation and remediation costs. Achieved No Further Remediation letters from the Illinois EPA Site Remediation Program through diligent assessment, thorough investigation and detailed presentation of documentation of completed remediation.
- City of Richmond Riverfront Redevelopment, Richmond, IN – Developed remediation action plan (RAP) using risk-based approach, which was approved by Indiana Department of Environmental Management (IDEM). The RAP was implemented in a timely manner prior to the city's 200 year anniversary.

Representative Phase I Environmental Site Assessments Project Experience

Mr. Russian has performed and managed over 600 individual and multi-site portfolio Phase I ESAs for private and public clients at undeveloped, commercial, and industrial properties in over 30 states and Canada. The assessments, at a minimum, have complied with the most current ASTM E1527 standard and have also included asbestos, radon, lead in water and paint, endangered species and wetland services. In conjunction with Phase I ESAs, Mr. Russian has performed several limited compliance audits at commercial and industrial facilities.

- Industrial Operation, Melrose Park, IL - Conducted a Phase I ESA on a 500,000 square foot facility used for the manufacture of metal plated hardware. The evaluation included a survey for asbestos-containing materials, radon, and compliance issues. Numerous onsite areas of environmental concern and reported violations were identified and several nearby facilities were identified to have had reported releases of hazardous and petroleum-based materials.
- Industrial Operation, Huntsville, AL – Performed Phase I ESA and limited compliance audit. Identified usage and disposal of several constituents of concern including hazardous metals and solvents and identified a radioactive material usage by a prior tenant. Current tenant operations and prior radioactive material handling and disposal were identified to be within compliance. Invasive assessment for potential impacts from USTs was also conducted.
- Three Industrial Facilities, Ontario, Canada – Performed ESAs at three automobile part manufacturing facilities using Canadian ESA guidance and ASTM E 1527 standards.
- Multi-Site Portfolio Project, 26 US States - Developed the scope, schedule and budget, assisted with the development of project-specific terms and conditions, and coordinated a project management team for a 113-site portfolio project. Project services included Property Condition Assessments, seismic assessments, Phase I ESA and asbestos surveys. An information management system was designed and implemented (a Project Web Page was created using ActiveProject, an e-mail network was developed for the project team and the client's team, electronic report components were merged for client delivery. The Project Web Page, including all 226 final reports, regulatory report attachments and summary matrixes were burned on a compact disk as a permanent record of the project for the client's ease of use. The project was completed under budget and on time.
- Potential Industrial Re-Development Area, Chicago, IL - Project manager for a Phase I ESA on a 10-acre property. Subject property was comprised of 34 contiguous property identification numbers (PINs) of different ownership and varying current and historical use. Developed a unique multi-PIN report format, which addressed findings, conclusions, and recommendations associated with each PIN individually and with the subject property as a whole in a clear and concise manner.
- Former Industrial Facility, Bedford Park, IL – Project Manager and Project Principal for a Phase I ESA for a prospective purchaser of an old canning facility. Thirty recognized environmental conditions were identified on this 38 acre site, one of which had a potential environmental liability estimated to be between $6 and $20 million. The client decided not to purchase the property. The client valued the detailed assessment and appreciated the liability identification prior to purchase.

- Eight Site Self-Storage Portfolio, 5 US States – Saved client $12 million in environmental liability. Identified numerous environmental concerns associated with historical sites uses. Phase I ESA reports were conducted by others, but reviewed by Mr. Russian. Rather than conduct Phase II ESA, which would incur additional expenditures and time delay to the client's closing on the portfolio investment, Mr. Russian recommended client obtain written reliance on the reports prepared by others and an environmental insurance policy.

Representative Phase II Environmental Site Assessments Project Experience

Performed and managed numerous Phase II ESAs at commercial and industrial properties in Chicago, the Midwest, and numerous other states. Responsibilities have included proposal preparation, client support, coordination of resources, performance and oversight of field activities, reporting, regulatory compliance, health and safety plan development and implementation, and training of staff professionals. Mr. Russian's experience also includes projects involving risk-based assessment and corrective action, the application of Illinois TACO guidelines to corrective action, assessment results (Tier 1 and Tier 2) and evaluation of ground water for determination of Class II groundwater, implementation of several techniques for the assessment and delineation of petroleum and solvent impacted properties (AST/UST sites and dry cleaners), permitting and special waste management.

Subsurface assessment methods have included soil gas survey techniques, soil probe assessments with onsite gas-chromatograph analysis, ground penetrating radar, soil borings, groundwater monitoring well installations, and soil and groundwater sample collection. Data from field activities was evaluated and reports were formatted in response to client needs, regulatory guidelines and risk-based approaches.

- Dry Cleaning Tenant; Schaumburg, IL – Installed soil probes and a Type III groundwater monitoring well to evaluate potential impact. The presence of perchloroethylene was identified in the shallow soils. Limited soil removal was performed and a soil vapor extraction system was installed inside vacant tenant spaces.
- Vacant Trucking Terminal, Chicago, IL – Several environmental concerns (e.g., USTs, oil/water separators, historical onsite and area usage, unknown fill, PCBs) were identified. Soil and groundwater assessment was targeted in more than 60 locations. Results of assessment were applied to risk-based cleanup objectives and guidance methods for assessment of potential liabilities. The subject property groundwater was evaluated for determination of Class II groundwater. Client satisfaction was achieved through providing assessments of risk based on the client being a buyer and owner of potential liabilities. Subsequent activities on the subject property included: invasive assessment for comparison of results to the TACO construction worker exposure route values for soil; and, UST removal activities.
- Four Stadium Parking Garages; St. Louis, MO – The Phase II ESA was performed to address several identified historical onsite and surrounding historical environmental concerns. Coordination of several utility companies, subcontractors and the City of St. Louis and permitting was conducted prior to conducting soil sampling and temporary monitoring well installation in city sidewalk right-of-ways. Client acquisition of the properties was executed following successful completion of the project on time and under budget.
- Golf Resort; Acme, MI – A Phase I ESA identified several potential environmental concerns based on historical site usage (including a former salvage yard) and the presence of known and potential onsite UST's. A Phase II approach was developed based on the identified concerns and the client's schedule constraints. Follow-up activities included removal and disposal of abandoned drums and assessment derived waste.

- Two Industrial Facilities, Franklin Park, IL – As Project Manager and Project Principal, developed and executed focused scopes of work which achieved cost-effective evaluation of environmental risk for a real estate investor/developer client.
- Two Industrial Facilities, Bedford Park, IL – Saved client $1M+ in investigation and remediation costs through targeted evaluation of environmental concerns and delineation and modeling of constituents of concern.
- Industrial Facility, Bedford Park, IL – Negotiated $160 environmental credit off purchase price. Environmental liabilities were identified after performance of a Phase I ESA and Phase II ESA on the property. Client asked Mr. Russian to the negotiating table with the seller, which resulted in an environmental credit prior to their purchase of the property.
- 70-Acre Site, Reynosa, Mexico – Acted as environmental liaison and oversight consultant for the client as the Phase II Investigation was being performed by another consultant. Under Mr. Russian's oversight, three acres of landfilled material was identified. The client was then able to negotiate with the seller to have the landfilled material removed prior to their purchase of the property.

Representative Underground Storage Tank Management Project Experience

Mr. Russian has experience in managing portfolios of UST and leaking UST projects for major oil companies and commercial, institutional and private owners, performing site assessment activities, UST closures, preparation and implementation of corrective action plans (CAP), compliance assessments, tank tightness testing, interaction with state and local environmental agencies and, achieving No Further Remediation closures and cleanup reimbursement.

- Portfolio Manager for Amoco Oil Company, Shell Oil Company, Phillips 66 Company, and Clark Oil Refining Projects, Numerous UST Sites; Missouri, Kansas, Illinois, and Indiana - Projects included UST removal, subsurface assessment activities, CAP development and remedial design, construction and maintenance.
- Abandonment In-Place of UST; Chicago, IL - Evaluated prior Phase I and Phase II ESA reports performed by others and conducted site reconnaissance. Abandoned one on-site 20,000-gallon fuel oil UST. Conducted closure sampling, permitting and state reporting. Client satisfaction was achieved through technical competence, project management, client liaison, timely service and successful property divestiture.

Representative Civil Design and Environmental Project Experience

- O'Hare International Airport Hangar Area Drainage Study and Design, Chicago, IL - Project manager for this 400-acre property located on the western portion of O'Hare International Airport for the Department of Aviation (DOA). Developed a scope of work with the following objectives: (1), Identify risk associated with the potential for chemicals used within the limits of the hangar area to be released into the storm water drainage system, and: (2), Design an engineering remedy to the storm sewer system in the hangar area that will significantly reduce risk associated with the potential for chemicals, used within the limits of the hangar area, to be released to the storm water drainage system. Review of the existing spill prevention containment and countermeasures (SPCC) plans, best management practice (BMP) plans, and other information provided by DOA of the hangar area was conducted. Field verification of sewer connections and chemical storage areas was conducted. Developed findings and conclusions, conceptual plans and recommended courses of remedial and preventative action.
- O'Hare International Airport, NPDES Drainage Task Assignments, Chicago, IL - Environmental engineer responsible for feasibility study and preliminary plan projects including researching and summarizing all permitting issues associated with the construction of this confidential project.

- O'Hare International Airport, Environmental Manuals and Studies, Chicago, IL - Project manager responsible for performance of Phase I ESA and conducting permitting needs evaluations for three multi-acre parcels, which were in various stages of conceptual design for development with storm water management structures and cargo areas. Also coordinated efforts with internal civil design engineers and designed scope for Phase II ESAs.
- Village Water Tower, Glenview, IL – Performed a Phase I ESA and identified the presence of lead paint on the tower. Managed the project team, which conducted soil sampling for total lead and leachable lead, conducted air monitoring for airborne lead during demolition activities, conducted waste characterization/disposal.
- Burnham Avenue Bridge Over the Little Calumet River, Lansing, IL - Project manager and environmental engineer for this Illinois DOT bridge expansion project, as an approved hazardous waste consultant to the bridge construction contractor. Managed the project team's evaluation of the known constituents of concern (COCs), performance of soil sample collection, contracted laboratory analyses, performed waste characterization, waste profiling, and environmental oversight during soil remedial actions.
- New South Transfer Tunnel, Chicago, IL - Project manager and environmental engineer for this Chicago Department of Transportation (CDOT) and Chicago Transit Authority (CTA) project contracted with the architect. Project involved USTs and impacts within the footprint of a proposed pedestrian transfer tunnel from an elevated CTA station to an underground CTA station. Managed the project team's planning and execution of scope of work for pre-invasive environmental inquiry, suspect ACM sampling and Phase II ESA consisting of soil and groundwater sampling and, recommendation of further investigation, remediation and implementation of construction worker protections.

Representative Landfill Project Experience

- Einoder Landfill, Cook County, IL - Prior to being used as a clean construction debris landfill, this site began as a sand quarry. Performed a subsurface environmental assessment prior to feasibility studies being conducted for the re-development of the landfill for public use.
- Rumpke Landfills, Ohio and Indiana - Supported the project manager of this multi-site audit by conducting audits of landfills, transfer stations and servicing facilities, and writing site summary and regulatory reports.
- Hazardous Lead-Impacted Landfill, Zionsville, OH – Developed environmental investigation scope of work and, designed closure and site redevelopment approach for site use as soccer and baseball fields. Services included developing site grading and storm water options and plans.
- Low Level Radioactive Waste Landfill Siting Project, Pennsylvania - Conducted assessment duties which were to collect, review, and verify publicly available data, review other's work, and comply with strict project NQA-1 QA/QC measures.

Representative Additional Project Experience

- Residential Development, Flood Study, St. Louis, MO - Performed HEC-2 hydraulic calculations to analyze flood elevations and determine the potential impact of proposed cut/fill gradings. A report was written to satisfy Federal Emergency Management Agency (FEMA), St. Louis County Highway Department, St. Louis Metropolitan Sewer District (MSD), and Army Corps of Engineers requirements.
- Proposed Football Stadium, Geotechnical Assessment, Gary, IN - Conducted field sampling and contractor oversight for multiple drilling crews for a geotechnical exploration for a proposed 75,000 seat open-air stadium. The work was completed in a short time frame, providing our client with the foundation and earthworks information needed to develop an overall cost estimate for the high profile

potential project. The project deliverable evaluated the feasibility of both shallow and deep foundations.

- Steel Products Company, Chicago, IL and St. Louis, MO - Conducted Phase I ESAs on three properties to identify potential environmental concerns. Phase II tasks included removal of old 55-gallon drums with unknown contents, removal of impacted soil and construction of a drum/containment pad, invasive assessment for potential USTs, removal of a known UST, additional visual assessment and historical records research, and emergency planning and community right to know act (EPCRA) compliance filing.
- Interstate Highway Bridge Expansion, Summit, IL - Illinois Department of Transportation (IDOT)'s general contractor performed removal of concrete and rebar and dredging of river sediment within a cofferdam with the use of barges future expansion of a bridge and interstate roadway. Environmental consulting services included special waste characterization, permitting and oversight of removal and disposal were engaged, on-site special waste manifesting, project management functions were performed and a summary of activities report was submitted to IDOT.
- Multi-Site Data Management Project, Chicago, IL - Performed information needs verification with the client and coordinated with company software development professionals to develop an entity relationship diagram for the design of an Environmental/Facility Management database. The client desired to more efficiently manage facility information for their 253 facilities within the US. Also managed the population of the database and participated in database testing and training with the client.
- Multi-Site Portfolio Project, 20 US States - Managed scope development, planning, and execution of Property Condition Assessments and comprehensive asbestos surveys for 80 sites across the US.

APPENDIX D

Phase II Performed by PSI

Information To Build On
Engineering • Consulting • Testing

May 25, 2007

Devon Self Storage Holdings (US), LLC
2000 Powell Street
Emeryville, California 94608

Attn: Ms. Kim Johnson
Senior Vice President

Re: **Summary of Limited Phase II Environmental Site Assessment**
Proposed Devon Self Storage Facility
3075 and 3131 Richmond Terrace, Staten Island, New York
PSI Project No. 046-7E014

Dear Ms. Johnson:

Professional Service Industries, Inc. (PSI) has performed a Limited Phase II Environmental Site Assessment (ESA) of the above-referenced Proposed Devon Self Storage Facility site (subject property). Work performed was conducted in general accordance with PSI's Proposal PO-046-7E0020 dated March 29, 2007.

Introduction

Professional Service Industries, Inc. (PSI) has conducted a Limited Phase II Environmental Site Assessment (LSA) at the proposed Devon Self Storage facility located at 3075 and 3131 Richmond Terrace in Staten Island, New York (subject property). The LSA was performed in general accordance with the scope and limitations of the American Society for Testing and Materials (ASTM) Standard E 1903-97 and the contract between PSI and Devon Self Storage Holdings (US), LLC dated March 29, 2007. The limited assessment was performed for Devon Self Storage Holdings (US), LLC.

The subject property consists of an irregular-shaped parcel of land totaling approximately 1.7 acres located at 3075 and 3131 Richmond Terrace in Staten Island, Richmond County, New York. The subject property was historically used as a support operations facility for ship building and maintenance and, chair manufacturing. The subject property is improved with two, two-story buildings and four associated, adjoining, smaller one-story buildings constructed circa 1900. The buildings cover approximately 70% of the subject property. Concrete–paved driveways, concrete pads, and asphalt-paved parking areas cover the remaining 30% of the subject property. These buildings are currently used for light manufacturing activities including injection foam molding, steel fabrication and assembly, and warehousing associated with chair manufacturing.

Background

PSI performed a Phase I ESA of the subject property (report dated May 25, 2007) concurrently with this LSA. The Phase I ESA site reconnaissance was performed on April 17, 2007. Recognized environmental conditions (RECs) in connection with the subject property, identified during the PSI's Phase I ESA included the following:

On-Site Recognized Environmental Conditions

- The subject property's south building was historically used for ship building and maintenance operations including, as indicated on the Sanborn maps, "Mold Loft and Joiner Shop", "paint storage", a "dry kiln", a "boiler house", and a "melting pot". Specific historical chemical use, waste generation and management practices on-site are unknown; however, these industrial operations represent a recognized environmental condition associated with the subject property.

- The subject property's north building was historically used as a "plate shop" with an earth (exposed) floor, as indicated on the Sanborn maps. Specific historical chemical use, waste generation and management practices on-site are unknown; however, these industrial operations represent a recognized environmental condition associated with the subject property.

- During PSI's site reconnaissance of the south building, an interior vented room and an adjacent exterior vented concrete structure were observed. Although no hazardous chemicals or waste storage was observed at the time of the site reconnaissance, the construction features associated with this room and adjacent structure, based upon our experience, are typical of hazardous chemical or waste storage use. Evidence of this historical on-site use represents a recognized environmental condition associated with the subject property.

- During PSI's site reconnaissance of the south building, grease and/or oil staining was observed in the areas of two man-lifts and several machines. There appeared to be a small area of exposed earth beneath the interior man-lift, which was stained. The concrete in the area of the exterior man-lift and the interior machinery appeared to be in good condition; however, the staining appeared to be the result of prolonged use and repeated spillage. Historically, these lifts and machines could have used oil containing polychlorinated byphenyls (PCBs). Evidence of this on-site condition represents a recognized environmental condition associated with the subject property.

- According to the site contact, the subject property and surrounding property to the west, north and east were filled in 100+ years ago to support its construction (i.e., the Staten Island shoreline was expanded to the north into Newark Bay using Fill materials). The type of Fill materials and their source are unknown at this time. Based on the observations made at the time of the on-site reconnaissance (i.e., entire surface of the subject property was covered with buildings and concrete pavement), the suspect fill materials appear to represent evidence of a potential recognized environmental condition in connection with the subject property at this time.

On-Site Historical RECs (i.e., prior RECs that have been resolved)

- None

Off-Site Recognized Environmental Conditions

- Historical surrounding property use has included ship building and maintenance related operations for 100+ years, associated with companies including Staten Island Shipbuilding Co., United Shipyards, Inc., and Bethlehem Steel. Industrial activities associated with these operations use petroleum and hazardous substances and

produce petroleum and hazardous wastes. This historical use is considered evidence of a recognized environmental condition in connection with the subject property.

- The review of the environmental database prepared for this project indicated that the address of the subject property (3075 Richmond Terrace) was associated with several listings of environmental concern, including landfill and spills sites. Several adjoining properties were listed under the same address of 3075 Richmond Terrace. The subject property was recently subdivided regarding Lots/Block numbers, and it is unclear whether some of the environmental database listings apply to the subject property or the adjoining properties and, unknown if these conditions and spills have impacted the subject property. The regulatory listings are considered evidence of a recognized environmental condition in connection with the subject property.

Off-Site Historical RECs (i.e., prior RECs that have been resolved)

- None

Scope of Work

The scope of the Limited Phase II ESA was intended to address the identified RECs. The assessment included the advancement of 12 soil borings, collection of 13 soil samples, installation of three (3) temporary monitoring wells and collection of three (3) grab groundwater samples. The Limited Phase II ESA site work was performed on April 18 & 19, 2007. Soil borings were advanced in locations to address the identified RECs and, with respect to site access limitations and estimated underground utility easements. Laboratory analyses of discrete soil samples included:

- Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 5035/8260B (including NYSDEC SCGs);
- Semi-VOCs (SVOCs) Base Neutrals by EPA Method 8270C;
- Total Petroleum Hydrocarbons (TPH) by EPA Method 8015 [Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Extended Range Organics (ERO)];
- PCBs by EPA Method 8080/8082;
- Eight Resource Conservation and Recovery Act (RCRA) Metals (total) by EPA Method 6010/7471; and,
- Select soil samples were analyzed for: Corrosivity (pH) by EPA Method 9045C/150.0 and Fractional Organic Carbon by ASTM Method 2974.

In addition, two soil samples which reflected total lead concentrations above 2,000 milligrams per kilogram (mg/kg) were analyzed for leachable lead by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory analyses of grab groundwater samples included: VOCs; Semi-VOCs; PCBs; and, Eight RCRA Metals (total).

Findings and Conclusions

- All soil borings indicated the presence of various Fill Material (sand, gravel, mulch, brick, and/or slag) to depths of about 10 feet below ground surface (bgs). Based upon the findings of the Phase I ESA, the source of this Fill is unknown. Soil encountered beneath the Fill was mainly fine, red-brown sand.

- Field screening results of soil samples indicated no elevated volatile organics.

- No VOCs were detected at concentrations above their respective remediation objectives as compared to NYDEC Subpart 375.6 (Remedial Program Soil Cleanup Objectives for Restricted Commercial Use).

- Six soil samples exhibited SVOC exceedences of their respective remediation objectives as compared to NYDEC Subpart 375.6 (Remedial Program Soil Cleanup Objectives for Restricted Commercial Use).

- No PCBs were detected in any of the soil or groundwater samples.

- Results of total metals analyses indicate exceedences of NYSDEC soil cleanup objectives for 13 soil samples for Arsenic, Cadmium, Chromium, Lead, Mercury and Selenium. Total Lead exceeded its remediation objective as compared to NYDEC Subpart 375.6 (Remedial Program Soil Cleanup Objectives for Restricted Commercial Use), in two soil samples.

- Leachable lead analyses indicated results of 'not detected' above laboratory method detection limits (ND) for soil sample B-4 (2-5') and, 2.4 milligrams per liter (mg/L) for soil sample B-9 (5-7'). These results were below the federal toxicity characteristic limit of 5.0 mg/L. Since, the two worse-case soil samples exhibiting elevated total lead tested do not reflect the characteristic of hazardous waste PSI concludes that the on-site soil, if excavated and disposed off-site, could be disposed as a non-hazardous waste.

- Laboratory analytical results indicate 12 soil samples exhibited detections of TPH between the range of 16 ppm and 35,000 pm. The NYDEC does not have published specific remediation objectives for TPH. Some action, with regards to disposal, may be required regarding TPH.

- No VOCs were detected in grab groundwater samples at concentrations above their NYSDEC Ambient Water Quality Standards and Guidance Values.

- Laboratory analytical results of grab groundwater samples from all three temporary monitoring wells indicate the presence of select metals at concentrations that exceed the NYSDEC Ambient Water Quality Standards. One groundwater sample exhibited elevated total Lead; however, PSI believes this elevated result was due to turbidity within the sample. If the site were entered into the New York voluntary Brownfield Cleanup Program (BCP), further investigation of groundwater would be required by the NYDEC (i.e., installation of permanent groundwater monitoring wells) in order to determine if remedial action with respect to the groundwater is necessary.

- The elevated petroleum constituent and total lead impacts appear to be due to historical releases from prior on-site operations and are not associated with current property use.

- Under applicable NYSDEC regulations, the impact discovered during the Limited Phase II ESA does not appear to be reportable to NYSDEC at this time. PSI is of the opinion that a potential purchaser is not necessarily obligated in this situation. The New York City Department of Environmental Planning (NYCDEP) or NYSDEC would get involved if

previously unknown contaminated soil is discovered during excavation that would have to be reported.

- Impacted soils will have to be properly managed in accordance with NYSDEC requirements during construction/redevelopment activities.

Remedial Options

There are two options for addressing the environmental impact detected during this Limited Phase II ESA during planned site redevelopment.

1. Manage the impacted soils on a voluntary basis in accordance with applicable NYSDEC requirements during planned redevelopment of the new building on the south portion of the subject property.

2. Since New York does not have a licensed environmental professional program or a voluntary cleanup program, if the purchaser desires to remediate the impacted soils and obtain a no further action letter from the NYSDEC that will provide a covenant not to sue, the purchaser would need to implement the remediation under NYSDEC oversight by enrolling in the NYSDEC BCP.

Warranty

PSI warrants that the findings and conclusions reported herein were conducted in general accordance with ASTM Standard E 1903-97 protocol. These methodologies are described by the standard guide as representing good commercial and customary practice for conducting a Phase II Environmental Site Assessment of a parcel of property for the purpose of evaluating recognized environmental conditions. However, these findings and conclusions contain all of the limitations inherent in these methodologies which are referred to in the standard guide and some of which are more specifically set forth below.

The Phase II Environmental Site Assessment has been developed to provide the client with information regarding apparent indications of recognized environmental conditions relating to the subject property. It is necessarily limited to the conditions observed and to the information available at the time of the work. The assessment and conclusions presented herein were based upon the subjective evaluation of limited data. They may not represent all conditions at the subject property as they reflect the information gathered from specific locations. PSI warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental investigation methodology and only for the site described in this report.

Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the assessment or which were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. The description, type, and composition of what are commonly referred to as "hazardous materials or conditions" can also change over time. PSI does not accept responsibility for changes in the state of the art, nor for changes in the scope of various lists of hazardous materials or conditions. PSI believes that the findings and conclusions provided in this report are reasonable. However, no other warranties are implied or expressed.

Third Party Reliance

This report was prepared pursuant to the contract PSI has with Devon Self Storage Holdings (US), LLC. That contractual relationship included an exchange of information about the subject property that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than Devon Self Storage Holdings (US), LLC, for whom it was prepared, is prohibited and therefore not foreseeable to PSI.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to PSI's contract with Devon Self Storage Holdings (US), LLC. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

Third party reliance letters may be issued on request and payment of the, then current fee for such letters. All third parties relying on PSI's reports, by such reliance, agree to be bound by the proposal and PSI's General Conditions. No reliance by any party is permitted without such agreement, regardless of the content of the reliance letter itself.

Closing

Please find three copies of this letter report enclosed. Thank you for choosing PSI as your consultant for this project. If you have any questions, or if we can be of additional service, please call us at 708-236-0720 x230.

Respectfully submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.

David H. Russian for:

Michael J. Marsaglia
Project Scientist

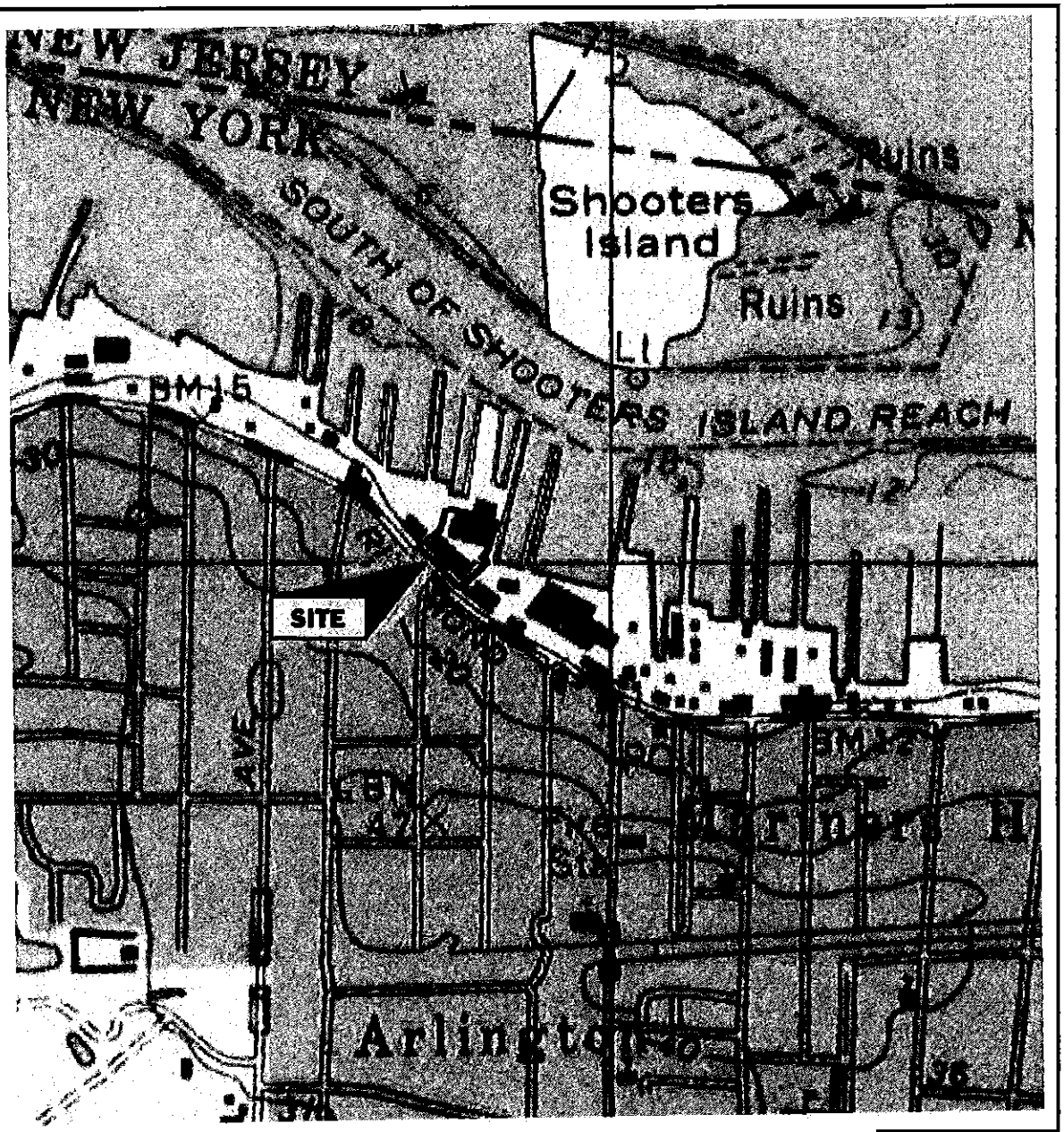
David H. Russian

David H. Russian, P.E. (IL)
Principal Consultant

George R. Lytwynyshyn
Vice President

Attachment 1: Figures
Attachment 2: Tables
Attachment 3: Soil Boring Logs
Attachment 4: Soil Sample Laboratory Analytical Results
Attachment 5: Groundwater Sample Laboratory Analytical Results

ATTACHMENT 1



NORTH

Source: USGS 7.5 Minute Topographic Map; Elizabeth, New York 1995

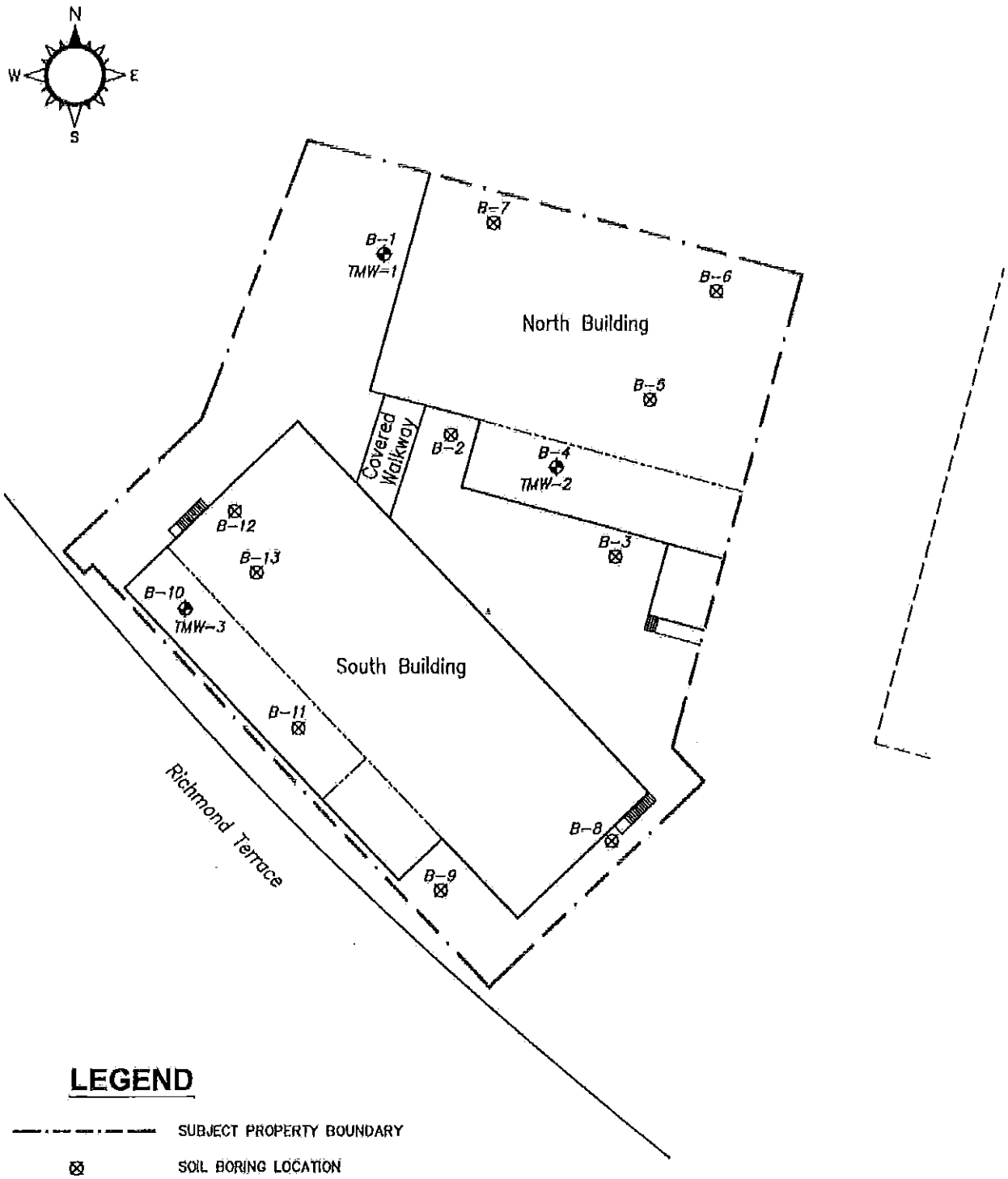
Figure 1: Topographic Map

Proposed Devon Self Storage
3075 & 3131 Richmond Terrace

Staten Island, New York

PSI Project #: 046-7E014

psi Information To Build On
Engineering • Consulting • Testing



LEGEND

SUBJECT PROPERTY BOUNDARY

SOIL BORING LOCATION

SOIL BORING LOCATION CONVERTED TO TEMPORARY MONITORING WELL

NOTE: All locations are approximate and must be field verified.

psi Information To Build On
Engineering • Consulting • Testing
Environmental Services
4421 Harrison Street Hillside, Illinois 60162
PHONE: (708) 236-0720 FAX: (708) 236-0721

Figure 2 - Sampling Locations

Devon Self Storage Holdings (US), LLC
Proposed Devon Self Storage Facility
3075 & 3131 Richmond Terrace
Staten Island, NY 10303

Scale:	NO SCALE
Date:	5-14-07
File Name:	014-001
Project Number:	046-7E014

ATTACHMENT 2

Table 1
Summary of VOCs, SVOCs, and Other Analytes in Soil
Proposed Devon Self Storage
3075 3131 Richmond Terrace, Staten Island, NY

Sample ID/Depth Interval	Recommended Soil	B-1 (6-9')	B-2 (2-4')	B-2 (5-8')	B-3 (6-9')	B-4 (2-5')	B-5 (2-5')	B-6 (6-9')	B-7 (2-5')	B-8 (6-9')	B-9 (5-7')	B-10 (3-8')	B-10 (9-10')	B-11 (6-8')	B-13 (2-4')
Sample Collection Date	Cleanup Objectives	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007
Units	(mg/kg or ppm)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Laboratory Analysis Requested/Performed	RCRA 8 Metals	X	X	X	X	X	X	X	X	X	X	X		X	X
	TCLP Lead					X					X				
	VOCs	X		X	X	X	X	X	X	X	X	X		X	X
	SVOCs	X		X	X	X	X	X	X	X	X	X		X	X
	PCBs	X	X		X	X	X	X	X	X	X	X		X	X
	Total Solids	X	X	X	X	X	X	X	X	X	X	X		X	X
	FOC	X				X							X		
	pH	X				X				X		X		X	
	TPH	X	X		X	X	X	X	X	X	X	X		X	X
Volatile Organic Compounds (VOCs)															
Acetone	0.2	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Acrylonitrile	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Benzene	0.06	ND	NA	ND	ND	**0.014**	**0.070**	ND	ND	ND	**0.16**	**0.0052**	NA	**0.0018**	ND
Bromobenzene	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Bromodichloromethane	--	ND	NA	**0.14**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Bromoform	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Bromomethane	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
2-Butanone (MEK)	0.3	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
n-Butylbenzene	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
sec-Butylbenzene	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
tert-Butylbenzene	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Carbon tetrachloride	0.6	ND	NA	**2.9**	**0.0015**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Chlorobenzene	1.7	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Chlorodibromomethane	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Chloroethane	1.9	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
2-Chloroethylvinylether	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Chloroform	0.3	ND	NA	**0.89**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Chloromethane	--	ND	NA	ND	ND	ND	**0.0014**	ND	ND	ND	ND	ND	NA	ND	**0.0025**
2-Chlorotoluene	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
4-Chlorotoluene	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dibromoethane	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Dibromomethane	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dibromo-3-chloropropane	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dichlorobenzene	7.9	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,3-Dichlorobenzene	1.6	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,4-Dichlorobenzene	8.5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1-Dichloroethane	0.2	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dichloroethane	0.1	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1-Dichloroethene	0.4	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
trans-1,2-Dichloroethene	0.3	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
cis-1,2-Dichloroethene	--	ND	NA	**0.32**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Dichlorodifluoromethane	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dichloropropane	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,3-Dichloropropane	0.3	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
2,2-Dichloropropane	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
cis-1,3-Dichloropropene	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
trans-1,3-Dichloropropene	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1-Dichloropropene	--	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND

Table 1
Summary of VOCs, SVOCs, and Other Analytes in Soil
Proposed Devon Self Storage
3075 3131 Richmond Terrace, Staten Island, NY

Sample ID/Depth Interval	Recommended Soil	B-1 (6-9')	B-2 (2-4')	B-2 (5-8')	B-3 (6-9')	B-4 (2-5')	B-5 (2-5')	B-6 (6-9')	B-7 (2-5')	B-8 (6-9')	B-9 (5-7')	B-10 (3-8')	B-10 (9-10')	B-11 (6-8')	B-13 (2-4')
Sample Collection Date	Cleanup Objectives	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007
Units	(mg/kg or ppm)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Di-Isopropyl ether	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Ethylbenzene	5.5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	6	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Hexachlorobutadiene	–	ND	NA	2.3	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Isopropylbenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
p-Isopropyltoluene	–	ND	NA	0.20	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Methylene Chloride	0.1	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
4-Methyl-2-pentanone (MIBK)	1	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Methyl-tert-butyl-ether (MTBE)	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0.0031	ND
Naphthalene	–	ND	NA	ND	ND	0.021	0.032	ND	ND	ND	ND	ND	NA	ND	ND
n-Propylbenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Styrene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Tetrachloroethene	1.4	ND	NA	ND	ND	ND	0.0014	ND	ND	ND	ND	ND	NA	ND	ND
1,1,1,2-Tetrachloroethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,2,2-Tetrachloroethane	0.6	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2,3-Trichlorobenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,1-Trichloroethane	0.8	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,2-Trichloroethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2,3-Trichloropropane	0.4	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2,4-Trichlorobenzene	3.4	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Trichloroethene	0.7	ND	NA	3.8	0.0013	ND	ND	ND	ND	ND	ND	ND	NA	0.0032	ND
Trichlorofluoromethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2,4-Trimethylbenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2,3-Trimethylbenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	0.002	ND	NA	ND	ND
1,3,5-Trimethylbenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Toluene	1.5	ND	NA	ND	ND	0.011	0.030	ND	ND	ND	0.062	ND	NA	ND	ND
Vinyl Chloride	0.2	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Xylenes	1.2	ND	NA	ND	ND	0.0058	0.0042	ND	ND	ND	0.012	ND	NA	ND	ND
Total VOCs	<10 ppm	0	–	10.55	0.0028	0.0518	0.139	0	0	0	0.236	0.0052	–	0.0081	0.0025
Total Solids															
Total Solids (%)	–	70.4	81.5	37.2	79.4	80.3	82.2	80.2	83.4	80.9	81.5	74.9	NA	79.1	73.5
Polychlorinated Biphenyls (PCBs)															
Aroclor 1016	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1221	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1232	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1242	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1248	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1254	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1260	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Total PCB Amount > Reporting Limit	1.0 Surface 10 Subsurface	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND

Table 1
Summary of VOCs, SVOCs, and Other Analytes in Soil
Proposed Devon Self Storage
3075 3131 Richmond Terrace, Staten Island, NY

Sample ID/Depth Interval	Recommended Soil	B-1 (6-9')	B-2 (2-4')	B-2 (5-8')	B-3 (6-9')	B-4 (2-5')	B-5 (2-5')	B-6 (6-9')	B-7 (2-5')	B-8 (6-9')	B-9 (5-7')	B-10 (3-8')	B-10 (9-10')	B-11 (6-8')	B-13 (2-4')
Sample Collection Date	Cleanup Objectives	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007
Units	(mg/kg or ppm)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Semi-Volatile Organic Compounds (SVOCs)															
Acenaphthene	50	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Acenaphthylene	41	ND	NA	ND	ND	2.0	14	8.7	2.5	0.52	ND	ND	NA	ND	ND
Anthracene	50	ND	NA	ND	ND	5.3	ND	ND	8.3	0.43	ND	ND	NA	ND	ND
Benzo(a)anthracene	0.224 or MDL	ND	NA	ND	0.7	8.2	14	15	10	1.5	14	0.65	NA	ND	ND
Benzo(b)fluoranthene	1.1	ND	NA	ND	1.1	4.8	15	14	4.5	1.8	17	0.66	NA	ND	ND
Benzo(k)fluoranthene	1.1	ND	NA	ND	0.53	5.7	ND	ND	3.6	1.0	ND	ND	NA	ND	ND
Benzo(g,h,i)perylene	50	ND	NA	ND	0.44	1.8	ND	ND	2.8	0.80	11	0.48	NA	ND	0.55
Benzo(a)pyrene	0.061 or MDL	ND	NA	ND	0.78	6.8	19	21	7.3	1.7	14	0.7	NA	ND	ND
Chrysene	0.4	ND	NA	ND	0.90	6.3	14	ND	9.7	1.5	14	0.71	NA	ND	ND
Dibenz(a,h)anthracene	0.014 or MDL	ND	NA	ND	ND	0.56	ND	ND	1.3	ND	ND	ND	NA	ND	ND
Fluoranthene	50	ND	NA	1.1	1.2	13	8.6	ND	10	2.1	26	1.4	NA	ND	ND
Fluorene	50	ND	NA	ND	ND	NA	ND	ND	0.78	ND	ND	ND	NA	ND	ND
Indeno(1,2,3-cd)pyrene	3.2	ND	NA	ND	ND	1.6	ND	ND	2.5	0.63	9.2	0.45	NA	ND	ND
Naphthalene	13	ND	NA	ND	ND	0.52	ND	ND	ND	ND	ND	ND	NA	ND	ND
Phenanthrene	50	ND	NA	ND	0.95	1.6	ND	ND	3.2	1.4	18	0.95	NA	ND	ND
Pyrene	50	ND	NA	1.0	1.2	18	22	ND	17	2.6	26	1.2	NA	ND	ND
Total SVOCs	<500 ppm	0	–	2.1	7.8	76.18	96.7	58.7	88.28	15.98	149.2	7.345	–	0	0.55
RCRA 8 Metals															
Arsenic	7.5 or SB	6.3	11	3.0	16	8.6	10	13	3.6	8.2	12	10	NA	3.8	2.4
Barium	300 or SB	22	120	65	190	140	34	130	17	51	240	170	NA	69	26
Cadmium	1 or SB	0.46	2.7	0.70	2.8	0.62	ND	0.43	ND	0.72	1.6	0.59	NA	ND	ND
Chromium	10 or SB	8.5	15	30	38	14	5.0	7.7	4.5	7.3	13	12	NA	9.2	8.2
Lead	SB	100	160	130	2,000	150	86	130	26	210	2,900	380	NA	37	14
Mercury	0.1	0.19	0.22	0.058	0.66	0.17	0.071	0.066	0.041	0.28	0.49	2.4	NA	0.058	ND
Selenium	2 or SB	32	13	54	39	4.0	89	16	3.5	1.9	75	68	NA	3.0	4.8
Silver	SB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Leachable Lead by TCLP															
TCLP Lead	5.0 (mg/L)	NA	NA	NA	NA	ND	NA	NA	NA	NA	2.4	NA	NA	NA	NA
Total Petroleum Hydrocarbons (TPH)															
Low Fraction (GRO)	–	ND	1.2	NA	ND	ND	ND	0.74	ND	0.21	0.30	ND	NA	ND	ND
High Fraction (DRO)	–	15,000	410	NA	180	1,200	750	250	440	240	710	72	NA	ND	18
TPH (ERO)	–	20,000	350	NA	120	360	3,400	330	420	340	2300	95	NA	16	170
Total TPH	–	35,000	461.2	–	300	1,560	4,150	580.74	860	580.21	3010.30	167	–	16	188
Fractional Organic Carbon (FOC)															
FOC (g C/g)	–	0.0059	NA	NA	0.04	0.059	NA	NA	NA	NA	NA	NA	0.0054	NA	NA
Fractional Organic Matter (FOM)															
FOM	–	1.0	NA	NA	6.9	10	NA	NA	NA	NA	NA	NA	0.93	NA	NA
Corrosivity (pH)															
pH	–	7.4	NA	NA	NA	6.8	NA	NA	NA	8.1	NA	8.2	NA	6.9	NA

Notes:
Analytical results which exceed laboratory method detection limits are in bold.
RCRA = Resource Conservation Recovery Act.
mg/Kg = Milligrams per Kilogram
ppm = Parts Per Million
ND = Not Detected. This constituent was not detected at concentrations above its laboratory method detection limits.
NA = Not Analyzed.
Remediation Objectives Source: Technical and Administrative Guidance Document (TAGM) #4046

Table 2
Summary of VOCs, SVOCs, and Other Analytes in Soil
Proposed Devon Self Storage
3075 3131 Richmond Terrace, Staten Island, NY

Sample ID/Depth Interval	Remedial Program Soil	B-1 (6-9')	B-2 (2-4')	B-2 (5-8')	B-3 (6-9')	B-4 (2-5')	B-5 (2-5')	B-6 (6-9')	B-7 (2-5')	B-8 (6-9')	B-9 (5-7')	B-10 (3-8')	B-10 (9-10')	B-11 (6-8')	B-13 (2-4')
Sample Collection Date	Cleanup Objectives	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007
Units	(mg/kg or ppm)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Laboratory Analysis Requested/Performed	RCRA 8 Metals	X	X	X	X	X	X	X	X	X	X	X		X	X
	TCLP Lead					X					X				
	VOCs	X		X	X	X	X	X	X	X	X	X		X	X
	SVOCs	X		X	X	X	X	X	X	X	X	X		X	X
	PCBs	X	X		X	X	X	X	X	X	X	X		X	X
	Total Solids	X	X	X	X	X	X	X	X	X	X	X		X	X
	FOC	X				X							X		
	pH	X				X				X		X		X	
	TPH	X	X		X	X	X	X	X	X	X	X		X	X
Volatile Organic Compounds (VOCs)															
Acetone	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Acrylonitrile	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Benzene	44	ND	NA	ND	**0.014**	ND	**0.070**	ND	ND	ND	**0.160**	**0.0052**	NA	**0.0018**	ND
Bromobenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Bromodichloromethane	–	ND	NA	**0.14**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Bromoform	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Bromomethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
2-Butanone (MEK)	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
n-Butylbenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
sec-Butylbenzene	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
tert-Butylbenzene	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Carbon tetrachloride	22	ND	NA	**2.9**	ND	**0.0015**	ND	ND	ND	ND	ND	ND	NA	ND	ND
Chlorobenzene	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Chlorodibromomethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Chloroethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
2-Chloroethylvinylether	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Chloroform	350	ND	NA	**0.89**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Chloromethane	–	ND	NA	ND	ND	ND	**0.0014**	ND	ND	ND	ND	ND	NA	ND	**0.0025**
2-Chlorotoluene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
4-Chlorotoluene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dibromoethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Dibromomethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dibromo-3-chloropropane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dichlorobenzene	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,3-Dichlorobenzene	280	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,4-Dichlorobenzene	130	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1-Dichloroethane	240	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dichloroethane	30	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1-Dichloroethene	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
trans-1,2-Dichloroethene	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
cis-1,2-Dichloroethene	500	ND	NA	**0.32**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Dichlorodifluoromethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dichloropropane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,3-Dichloropropane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
2,2-Dichloropropane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
cis-1,3-Dichloropropene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
trans-1,3-Dichloropropene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1-Dichloropropene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Di-isopropyl ether	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Ethylbenzene	390	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Hexachlorobutadiene	–	ND	NA	**2.3**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND

Table 2
Summary of VOCs, SVOCs, and Other Analytes in Soil
Proposed Devon Self Storage
3075 3131 Richmond Terrace, Staten Island, NY

Sample ID/Depth Interval	Remedial Program Soil	B-1 (6-9')	B-2 (2-4')	B-2 (5-8')	B-3 (6-9')	B-4 (2-5')	B-5 (2-5')	B-6 (6-9')	B-7 (2-5')	B-8 (6-9')	B-9 (5-7')	B-10 (3-8')	B-10 (9-10')	B-11 (6-8')	B-13 (2-4')
Sample Collection Date	Cleanup Objectives	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007
Units	(mg/kg or ppm)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Isopropylbenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
p-Isopropyltoluene	–	ND	NA	0.20	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Methylene Chloride	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
4-Methyl-2-pentanone (MIBK)	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Methyl-tert-butyl-ether (MTBE)	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0.0031	ND
Naphthalene	–	ND	NA	ND	0.021	ND	0.032	ND	ND	ND	ND	ND	NA	ND	ND
n-Propylbenzene	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Styrene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Tetrachloroethene	150	ND	NA	ND	ND	ND	0.0014	ND	ND	ND	ND	ND	NA	ND	ND
1,1,1,2-Tetrachloroethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,2,2-Tetrachloroethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2,3-Trichlorobenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,1-Trichloroethane	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,2-Trichloroethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2,3-Trichloropropane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2,4-Trichlorobenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Trichloroethene	200	ND	NA	3.8	ND	0.0013	ND	ND	ND	ND	ND	ND	NA	0.0032	ND
Trichlorofluoromethane	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2,4-Trimethylbenzene	190	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2,3-Trimethylbenzene	–	ND	NA	ND	ND	ND	ND	ND	ND	ND	0.002	ND	NA	ND	ND
1,3,5-Trimethylbenzene	190	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Toluene	500	ND	NA	ND	0.011	ND	0.030	ND	ND	ND	0.062	ND	NA	ND	ND
Vinyl Chloride	13	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Xylenes	500	ND	NA	ND	0.0058	ND	0.0042	ND	ND	ND	0.012	ND	NA	ND	ND
Total VOCs	<10 ppm	0	–	10.55	0.0518	0.0028	0.139	0	0	0	0.236	0.0052	–	0.0081	0.0025
Total Solids															
Total Solids (%)	–	70.4	81.5	37.2	80.3	79.4	82.2	80.2	83.4	80.9	81.5	74.9	NA	79.1	73.5
Polychlorinated Biphenyls (PCBs)															
Aroclor 1016	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1221	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1232	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1242	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1248	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1254	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aroclor 1260	–	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Total PCB Amount > Reporting Limit	1.0 Surface 10 Subsurface	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Semi-Volatile Organic Compounds (SVOCs)															
Acenaphthene	500	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Acenaphthylene	500	ND	NA	ND	2.0	ND	14	8.7	2.5	0.52	ND	ND	NA	ND	ND
Anthracene	500	ND	NA	ND	5.3	ND	ND	ND	8.3	0.43	ND	ND	NA	ND	ND
Benzo(a)anthracene	5.6	ND	NA	ND	8.2	0.70	14	15	10	1.5	14	0.65	NA	ND	ND
Benzo(b)fluoranthene	5.6	ND	NA	ND	4.8	1.1	15	14	4.3	1.8	17	0.66	NA	ND	ND
Benzo(k)fluoranthene	56	ND	NA	ND	5.7	0.53	ND	ND	8.6	1.0	ND	ND	NA	ND	ND
Benzo(g,h,i)perylene	500	ND	NA	ND	1.8	0.44	ND	ND	2.8	0.80	11	0.48	NA	ND	0.55
Benzo(a)pyrene	1	ND	NA	ND	6.8	0.78	9.4	21	7.3	1.7	14	0.7	NA	ND	ND
Chrysene	56	ND	NA	ND	6.3	0.90	14	ND	9.7	1.5	14	0.71	NA	ND	ND
Dibenz(a,h)anthracene	0.56	ND	NA	ND	0.56	ND	ND	ND	1.3	ND	ND	ND	NA	ND	ND
Fluoranthene	500	ND	NA	1.1	13	1.2	8.6	ND	10	2.1	26	1.4	NA	ND	ND
Fluorene	500	ND	NA	ND	NA	ND	ND	ND	0.78	ND	ND	ND	NA	ND	ND
Indeno(1,2,3-cd)pyrene	5.6	ND	NA	ND	1.6	ND	ND	ND	2.5	0.63	9.2	0.45	NA	ND	ND
Naphthalene	500	ND	NA	ND	0.52	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Phenanthrene	500	ND	NA	ND	1.6	0.95	ND	ND	3.2	1.4	18	0.95	NA	ND	ND
Pyrene	500	ND	NA	1.0	18	1.2	22	ND	17	2.6	26	1.2	NA	ND	ND
Total SVOCs	<500 ppm	0	–	2.1	76.18	7.8	96.7	58.7	88.28	15.98	149.2	7.345	–	0	0.55

Table 2
Summary of VOCs, SVOCs, and Other Analytes in Soil
Proposed Devon Self Storage
3075 3131 Richmond Terrace, Staten Island, NY

Sample ID/Depth Interval	Remedial Program Soil	B-1 (6-9')	B-2 (2-4')	B-2 (5-8')	B-3 (6-9')	B-4 (2-5')	B-5 (2-5')	B-6 (6-9')	B-7 (2-5')	B-8 (6-9')	B-9 (5-7')	B-10 (3-8')	B-10 (9-10')	B-11 (6-8')	B-13 (2-4')
Sample Collection Date	Cleanup Objectives	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007
Units	(mg/kg or ppm)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RCRA 8 Metals															
Arsenic	16	**6.3**	**11**	**3.0**	**8.6**	**16**	**10**	**13**	**3.6**	**8.2**	**12**	**10**	NA	**3.8**	**2.4**
Barium	400	**22**	**120**	**65**	**140**	**190**	**34**	**130**	**17**	**51**	**240**	**170**	NA	**69**	**26**
Cadmium	9.3	**0.46**	**2.7**	**0.70**	**0.62**	**2.8**	ND	**0.43**	ND	**0.72**	**1.6**	**0.59**	NA	ND	ND
Chromium (trivalent)	1,500	**8.5**	**15**	**30**	**14**	**38**	**5.0**	**7.7**	**4.5**	**7.3**	**18**	**12**	NA	**9.2**	**8.2**
Lead	1,000	**110**	**160**	**130**	**150**	**2,000**	**86**	**130**	**26**	**210**	**2,900**	**380**	NA	**37**	**14**
Mercury	2.8	**0.19**	**0.22**	**0.058**	**0.17**	**0.66**	**0.071**	**0.066**	**0.041**	**0.28**	**0.49**	**2.4**	NA	**0.058**	ND
Selenium	1,500	**3.2**	**13**	**5.4**	**14**	**38**	**8.9**	**16**	**3.5**	**1.9**	**7.5**	**6.8**	NA	**3.0**	**4.8**
Silver	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Leachable Lead by TCLP															
TCLP Lead	5.0 (mg/L)	NA	NA	NA	NA	ND	NA	NA	NA	NA	2.4	NA	NA	NA	NA
Total Petroleum Hydrocarbons (TPH)															
Low Fraction (GRO)	--	ND	**1.2**	NA	ND	ND	ND	**0.74**	ND	**0.21**	**0.30**	ND	NA	ND	ND
High Fraction (DRO)	--	**15,000**	**410**	NA	**1,200**	**180**	**750**	**250**	**440**	**240**	**710**	**72**	NA	ND	**18**
TPH (ERO)	--	**20,000**	**350**	NA	**360**	**120**	**3,400**	**330**	**420**	**340**	**2300**	**95**	NA	**16**	**170**
Total TPH	--	**35,000**	**461.2**	--	**1,560**	**300**	**4,150**	**580.74**	**860**	**580.21**	**3010.30**	**167**	--	**16**	**188**
Fractional Organic Carbon (FOC)															
FOC (g C/g)	--	**0.0059**	NA	NA	**0.059**	**0.04**	NA	NA	NA	NA	NA	NA	**0.0054**	NA	NA
Fractional Organic Matter (FOM)															
FOM	--	**1.0**	NA	NA	**10**	**6.9**	NA	NA	NA	NA	NA	NA	**0.93**	NA	NA
Corrosivity (pH)															
pH	--	**7.4**	NA	NA	**6.8**	NA	NA	NA	NA	**8.1**	NA	**8.2**	NA	**6.9**	NA

Notes:
Analytical results which exceed laboratory method detection limits are in bold.
RCRA = Resource Conservation Recovery Act.
mg/Kg = Milligrams per Kilogram
ppm = Parts Per Million
ND = Not Detected. This constituent was not detected at concentrations above its laboratory method detection limits.
NA = Not Analyzed.
SB = Site Background.
Cleanup Objectives Source: Subpart 375.6: Remedial Program Soil Cleanup Objectives for Restricted-Commercial.

Table 3
Summary of VOCs, SVOCs, and Other Analytes in Groundwater
Proposed Devon Self Storage
3075 3131 Richmond Terrace, Staten Island, NY

Sample ID/Depth Interval	Groundwater Standards Criteria	TMW-1	TMW-2	TMW-3
Sample Collection Date		4/19/2007	4/19/2007	4/19/2007
Units	(µg/L or ppb)	µg/L	µg/L	µg/L
Laboratory Analysis Requested/Performed	RCRA 8 Metals	X	X	X
	VOCs	X	X	X
	SVOCs	X	X	X
	PCBs	X	X	X
	Total Solids	--	--	--
	FOC	--	--	--
	pH	--	--	--
	TPH	--	--	--
Volitile Organic Compounds (VOCs)				
Acetone	50	ND	ND	ND
Acrylonitrile	5	ND	ND	ND
Benzene	0.7	ND	ND	ND
Bromobenzene	5	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND
Bromoform	50	ND	ND	ND
Bromomethane	5	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND
Carbon Tetrochloride	5	ND	ND	ND
Chlorobenzene	5	ND	ND	ND
Chlorodibromomethane	--	ND	ND	ND
Chloroethane	50	ND	ND	ND
2-Chloroethylvinylether	--	ND	ND	ND
Chloroform	7	ND	ND	ND
Chloromethane	--	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND
1,2-Dibromoethane	--	ND	ND	ND
Dibromomethane	5	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND
cis-1,2-Dichloroethene	--	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND
cis-1,3-Dichloropropene	--	ND	ND	ND
trans-1,3-Dichloropropene	--	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND
Di-isopropyl ether	--	ND	ND	ND
Ethylbenzene	5	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane (113 Freon)	5	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND
p-Isopropyltoluene	--	ND	ND	ND
Methylene Chloride	5	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	50	ND	ND	ND
Methyl-tert-butyl-ether (MTBE)	10	1.2	ND	7.0
Naphthalene	10	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND
Styrene	5	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND
1,2,3-Trichloropropane	5	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND
Trichloroethene	5	ND	1.0	ND
Trichlorofluoromethane	5	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND
1,2,3-Trimethylbenzene	5	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND
Toluene	5	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND
Xylenes	5	ND	ND	ND

Table 3
Summary of VOCs, SVOCs, and Other Analytes in Groundwater
Proposed Devon Self Storage
3075 3131 Richmond Terrace, Staten Island, NY

Sample ID/Depth Interval	Groundwater Standards Criteria	TMW-1	TMW-2	TMW-3
Sample Collection Date		4/19/2007	4/19/2007	4/19/2007
Units	(µg/L or ppb)	µg/L	µg/L	µg/L
Total Solids				
Total Solids	--	NA	NA	NA
Polychlorinated Biphynls (PCBs)				
Aroclor 1016	--	ND	ND	ND
Aroclor 1221	--	ND	ND	ND
Aroclor 1232	--	ND	ND	ND
Aroclor 1242	--	ND	ND	ND
Aroclor 1248	--	ND	ND	ND
Aroclor 1254	--	ND	ND	ND
Aroclor 1260	--	ND	ND	ND
Total PCB Amount > Reporting Limit	0.1	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs)				
Acenaphthene	20	ND	ND	ND
Acenaphthylene	20	ND	ND	ND
Anthracene	50	ND	ND	ND
Benzo(a)anthracene	0.002	ND	ND	ND
Benzo(b)fluoranthene	0.002	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	ND	ND
Benzo(g,h,i)perylene	6	ND	ND	ND
Benzo(a)pyrene	0.002 (ND)	ND	ND	ND
Chrysene	0.002	ND	ND	ND
Dibenz(a,h)anthracene	50	ND	ND	ND
Fluoranthene	50	ND	ND	ND
Fluorene	50	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	ND	ND
Naphthalene	10	ND	ND	ND
Phenanthrene	50	ND	ND	ND
Pyrene	50	ND	ND	ND
RCRA 8 Metals				
Arsenic	25	ND	**23.0**	**130.0**
Barium	1,000	**99.0**	**44.0**	**2,000**
Cadmium	6	ND	ND	ND
Chromium	50	ND	ND	**260**
Lead	25	**110**	**12.0**	**4,100**
Mercury	0.7	ND	ND	**74**
Selenium	10	**100**	**130**	ND
Silver	50	ND	ND	ND

Notes:
Analytical results which exceed laboratory method detection limits are in bold.
µg/L = Micrograms per Liter
ND = Not Detected. This constituent was not detected at concentrations above its laboratory method detection limits.
NA = Not Analyzed.
Groundwater Criteria Source: Division of Water - Technical and Operational Guidance Services (TOGS) 1.1.1 - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

ATTACHMENT 3

Project No: 046-7E014 **Borehole Number:** B-1
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0		Cement					
1		Fill (wood 1-2, gravel and sand)					
2			1	GS	3.0	0.0	
3							
4							
5		Fill (gravel and sand and slag)					
6					2.5	0.0	
7							Oily sheen at 6.0-8.0'
8		Sand at 8.0'	2	GS*			
9							
10		Fill (gravel and sand)					
11							
12							
13		Peat, clayey, brown	3	GS	2.5	0.0	
14							
15		End of Boring at 15.0'					
16		Temporary Well installed to 14.0'					
17							
18							*Submitted for laboratory analysis.
19							
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-18-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-2
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0		Cement					
1		Fill (gravel slag and brick chunks)					
2			1	GS*	2.5	0.0	
3							
4							
5		Fill (brick, gravel and wood)					Wet at 5.0'
6							
7			2	GS*	2.5	0.0	
8							
9							
10		Fill (gravel and brick)					
11							
12			3	GS	0.5	0.0	
13							
14							
15		End of Boring at 15.0'					
16							
17							
18							*Submitted for laboratory analysis.
19							
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-18-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-3
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0		Fill (gravel and asphalt)					
1							
2			1	GS	2.0	0.0	
3							
4		Slag bottom 2"					
5		Fill (mixed gravel and slag)					
6							
7			2	GS*	2.5	0.0	
8		Sand at 8.0'					
9							
10		End of Boring at 10.0'					
11							
12							
13							
14							
15							
16							
17							
18							*Submitted for laboratory analysis.
19							
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-18-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-4
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0		Cement					
1		Fill (gravel and slag)	1	GS*	2.5	0.0	Odor at bottom
5		Fill (black and angular gravel and slag)	2	GS	3.0	0.0	
10		Fill	3	GS	2.5	0.0	Wet
13		Peat, black and clayey					
15		End of Boring at 15.0'					
16		Temporary Well installed to 14.0'					
18							*Submitted for laboratory analysis.
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-18-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-5
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
0		Ground Surface					
		Cement					
1		Fill (whitish-gray, shiny)					
2		Fill (black)	1	GS*	2.5	0.0	
3		Fill (black and black to brown sand and gravel)					Odor at bottom
4		Fill (black to brown sand and gravel, saturated black sand and gravel)					Odor at top
5							
6							
7			2	GS	1.5	0.0	
8							
9		Fill (black, gravel)					
10		End of Boring at 10.0'					
11							
12							
13							
14							
15							
16							
17							
18							*Submitted for laboratory analysis.
19							
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-18-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-6
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0		Cement					
1		Light brown to brown silica sand					
2		Fill (black, angular)	1	GS	3.0	0.0	
3							
4							
5							
6							
7			2	GS*	2.5	0.0	
8		Fill (brown sand, gravel and slag)					Wet to saturated - odor/sheen
9		Fill (black)					
10		End of Boring at 10.0'					
11							
12							
13							
14							
15							
16							
17							
18							*Submitted for laboratory analysis.
19							
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-18-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-7
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0		Cement					
1		Grayish-brown silica sand					
2							
3		Fill (wood)	1	GS*	2.5	0.0	
		Fill (black, angular)					
4							Odor and sheen at bottom
5		Fill (black, angular)					
6							Wet to saturated
7							
8			2	GS	3.0	0.0	Large cobbles above sand
9		Brown saturated sand					
10		End of Boring at 10.0'					
11							
12							
13							
14							
15							
16							
17							
18							*Submitted for laboratory analysis.
19							
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-18-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-8
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0		Concrete/slag					
1–5		Fill (black, sand)	1	GS	2.0	0.0	
5–8		Fill (black, moist to wet sand)	2	GS*	3.0	0.0	Odor/sheen at top
8–10		Black clayey peat					
10		End of Boring at 10.0'					

*Submitted for laboratory analysis.

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-18-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-9
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0		Concrete					
1		Fill (gravel, sand)					
2			1	GS	>3	0.0	
3							
4							
5		Fill (wood, mulch, peat)					
6							
7			2	GS*	>3	0.0	Wet
8							
9							
10		Red, fine sand with small chunks red shale					
11							
12			3	GS	>3	0.0	
13							
14							
15		End of Boring at 15.0'					
16							
17							
18							*Submitted for laboratory analysis.
19							
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-19-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-10
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0		Concrete					
1		Fill	1	GS*	0.25	0.0	
2							
3							
4							
5							Wet
6			2	GS*	2.5	0.0	
7							
8		Red sand, fine, small red shale chunks					
9							
10							
11			3	GS*	<3	0.0	
12							
13							
14							
15		End of Boring at 15.0'					
16		Temporary Well installed to 11.0'					
17							
18							*Submitted for laboratory analysis.
19							
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-19-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-11
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0–5		Fill (sand and gravel)	1	GS	0.8	0.0	
5–9		Fill (sand, mulch/fiber)	2	GS*	<3	0.0	
9–10		Red fine sand					
10		End of Boring at 10.0'					

*Submitted for laboratory analysis.

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-19-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-12
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
		Ground Surface					
0		Concrete					
1							
2		Fill (gravel, sand, brick fragments)			0.5	0.0	
3							
4							
5							
6							
7					0.25	0.0	
8							Wet
9							
10							
11							
12					0.25	0.0	
13							
14							
15		End of Boring at 15.0'					Not enough recovery for a sample. No sample collected for laboratory analysis.
16							
17							
18							
19							
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-19-07

Datum: Ground Surface
Sheet: 1 of 1

Project No: 046-7E014 **Borehole Number:** B-13
Client: Devon Self Storage Holdings (US), LLC
Project Name: Proposed Devon Self Storage
Site Address: 3075 & 3131 Richmond Terrace
Site City/State: Staten Island, NY **Geologist:** David Russian

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
4421 Harrison Street
Hillside, Illinois 60162

SUBSURFACE PROFILE			SAMPLE				
Depth (ft)	Stratigraphic Symbol	Description	Number	Type (GS/CS)	Recovery (ft)	PID (ppm)	Remarks
0		Ground Surface					
		Concrete					
1		Fill					
2			1	GS*	2.5	0.0	
3							
4							
5							Wet at 5.0'
6							
7			2	GS	1.5	0.0	
8		Red sand, fine, red shale chunks					
9							
10							
11							
12			3	GS	1.5	0.0	
13							
14							
15		End of Boring at 15.0'					
16							
17							
18							*Submitted for laboratory analysis.
19							
20							

Drilled By: ADT Troy
Drill Method: Direct Push
Drill Date: 4-19-07

Datum: Ground Surface
Sheet: 1 of 1

ATTACHMENT 4

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. David Russian
Professional Service Industries, Inc.
4421 Harrison St.

Hillside, IL 60162

Report Summary

Friday May 11, 2007

Report Number: L289637
Samples Received: 04/19/07
Client Project: 046-7E014

Description: Staten Island

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Leslie Newton
Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, WA - C1915

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L289637-01

Site ID :

Project # : 046-7E014

Date Received : April 19, 2007
Description : Staten Island

Sample ID : B-2 2-4 FT

Collected By : A. Hill
Collection Date : 04/18/07 11:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.5		%	2540G	04/23/07	1
TPH (GC/FID) Low Fraction	1.2	0.61	mg/kg	5035/GRO	04/20/07	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	85.1		% Rec.	5035/GRO	04/20/07	5
TPH (GC/FID) High Fraction	410	4.9	mg/kg	3546/DRO	04/20/07	1
Surrogate Recovery (50-150)						
o-Terphenyl	83.8		% Rec.	3546/DRO	04/20/07	1
TPH as Waste Oil						
Misc. TPH (C10-C40)	350	4.9	mg/kg	8015M	04/21/07	1
Surrogate Recovery						
o-Terphenyl	74.1		% Rec.	8015M	04/21/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1221	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1232	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1242	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1248	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1254	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1260	BDL	0.21	mg/kg	8082	04/23/07	10
PCBs Surrogates						
Decachlorobiphenyl	71.8		% Rec.	8082	04/23/07	10
Tetrachloro-m-xylene	67.1		% Rec.	8082	04/23/07	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 17:19 Revised: 05/11/07 09:15

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L289637-02

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-2 5-8 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 11:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	37.2		%	2540G	04/23/07	1
Volatile Organics						
Acetone	BDL	6.8	mg/kg	8260B	04/22/07	51
Acrylonitrile	BDL	1.4	mg/kg	8260B	04/22/07	51
Benzene	BDL	0.14	mg/kg	8260B	04/22/07	51
Bromobenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
Bromodichloromethane	0.14	0.14	mg/kg	8260B	04/22/07	51
Bromoform	BDL	0.14	mg/kg	8260B	04/22/07	51
Bromomethane	BDL	0.68	mg/kg	8260B	04/22/07	51
n-Butylbenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
sec-Butylbenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
tert-Butylbenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
Carbon tetrachloride	2.9	0.14	mg/kg	8260B	04/22/07	51
Chlorobenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
Chlorodibromomethane	BDL	0.14	mg/kg	8260B	04/22/07	51
Chloroethane	BDL	0.14	mg/kg	8260B	04/22/07	51
2-Chloroethyl vinyl ether	BDL	6.8	mg/kg	8260B	04/22/07	51
Chloroform	0.89	0.68	mg/kg	8260B	04/22/07	51
Chloromethane	BDL	0.14	mg/kg	8260B	04/22/07	51
2-Chlorotoluene	BDL	0.14	mg/kg	8260B	04/22/07	51
4-Chlorotoluene	BDL	0.14	mg/kg	8260B	04/22/07	51
1,2-Dibromo-3-Chloropropane	BDL	0.68	mg/kg	8260B	04/22/07	51
1,2-Dibromoethane	BDL	0.14	mg/kg	8260B	04/22/07	51
Dibromomethane	BDL	0.14	mg/kg	8260B	04/22/07	51
1,2-Dichlorobenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
1,3-Dichlorobenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
1,4-Dichlorobenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
Dichlorodifluoromethane	BDL	0.14	mg/kg	8260B	04/22/07	51
1,1-Dichloroethane	BDL	0.14	mg/kg	8260B	04/22/07	51
1,2-Dichloroethane	BDL	0.14	mg/kg	8260B	04/22/07	51
1,1-Dichloroethene	BDL	0.14	mg/kg	8260B	04/22/07	51
cis-1,2-Dichloroethene	0.32	0.14	mg/kg	8260B	04/22/07	51
trans-1,2-Dichloroethene	BDL	0.14	mg/kg	8260B	04/22/07	51
1,2-Dichloropropane	BDL	0.14	mg/kg	8260B	04/22/07	51
1,1-Dichloropropene	BDL	0.14	mg/kg	8260B	04/22/07	51
1,3-Dichloropropane	BDL	0.14	mg/kg	8260B	04/22/07	51
cis-1,3-Dichloropropene	BDL	0.14	mg/kg	8260B	04/22/07	51
trans-1,3-Dichloropropene	BDL	0.14	mg/kg	8260B	04/22/07	51
2,2-Dichloropropane	BDL	0.14	mg/kg	8260B	04/22/07	51
Di-isopropyl ether	BDL	0.14	mg/kg	8260B	04/22/07	51
Ethylbenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
Hexachlorobutadiene	2.3	0.14	mg/kg	8260B	04/22/07	51
Isopropylbenzene	BDL	0.14	mg/kg	8260B	04/22/07	51

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
L289637-02 (V8260STARS) - Non-target compounds too high to run at a lower dilution.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L289637-02

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-2 5-8 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 11:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	0.20	0.14	mg/kg	8260B	04/22/07	51
2-Butanone (MEK)	BDL	1.4	mg/kg	8260B	04/22/07	51
Methylene Chloride	BDL	0.68	mg/kg	8260B	04/22/07	51
4-Methyl-2-pentanone (MIBK)	BDL	1.4	mg/kg	8260B	04/22/07	51
Methyl tert-butyl ether	BDL	0.14	mg/kg	8260B	04/22/07	51
Naphthalene	BDL	0.68	mg/kg	8260B	04/22/07	51
n-Propylbenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
Styrene	BDL	0.14	mg/kg	8260B	04/22/07	51
1,1,1,2-Tetrachloroethane	BDL	0.14	mg/kg	8260B	04/22/07	51
1,1,2,2-Tetrachloroethane	BDL	0.14	mg/kg	8260B	04/22/07	51
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.14	mg/kg	8260B	04/22/07	51
Tetrachloroethene	BDL	0.14	mg/kg	8260B	04/22/07	51
Toluene	BDL	0.68	mg/kg	8260B	04/22/07	51
1,2,3-Trichlorobenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
1,2,4-Trichlorobenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
1,1,1-Trichloroethane	BDL	0.14	mg/kg	8260B	04/22/07	51
1,1,2-Trichloroethane	BDL	0.14	mg/kg	8260B	04/22/07	51
Trichloroethene	3.8	0.14	mg/kg	8260B	04/22/07	51
Trichlorofluoromethane	BDL	0.14	mg/kg	8260B	04/22/07	51
1,2,3-Trichloropropane	BDL	0.14	mg/kg	8260B	04/22/07	51
1,2,4-Trimethylbenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
1,2,3-Trimethylbenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
1,3,5-Trimethylbenzene	BDL	0.14	mg/kg	8260B	04/22/07	51
Vinyl chloride	BDL	0.14	mg/kg	8260B	04/22/07	51
Xylenes, Total	BDL	0.41	mg/kg	8260B	04/22/07	51
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	04/22/07	51
Dibromofluoromethane	98.0		% Rec.	8260B	04/22/07	51
4-Bromofluorobenzene	112.		% Rec.	8260B	04/22/07	51
Base/Neutral Extractables						
Acenaphthene	BDL	0.89	mg/kg	8270C	04/22/07	1
Acenaphthylene	BDL	0.89	mg/kg	8270C	04/22/07	1
Anthracene	BDL	0.89	mg/kg	8270C	04/22/07	1
Benzo(a)anthracene	BDL	0.89	mg/kg	8270C	04/22/07	1
Benzo(b)fluoranthene	BDL	0.89	mg/kg	8270C	04/22/07	1
Benzo(k)fluoranthene	BDL	0.89	mg/kg	8270C	04/22/07	1
Benzo(g,h,i)perylene	BDL	0.89	mg/kg	8270C	04/22/07	1
Benzo(a)pyrene	BDL	0.89	mg/kg	8270C	04/22/07	1
Chrysene	BDL	0.89	mg/kg	8270C	04/22/07	1
Dibenz(a,h)anthracene	BDL	0.89	mg/kg	8270C	04/22/07	1
Fluoranthene	1.1	0.89	mg/kg	8270C	04/22/07	1
Fluorene	BDL	0.89	mg/kg	8270C	04/22/07	1
Indeno(1,2,3-cd)pyrene	BDL	0.89	mg/kg	8270C	04/22/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
L289637-02 (V8260STARS) - Non-target compounds too high to run at a lower dilution.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L289637-02

Site ID :

Project # : 046-7E014

Date Received : April 19, 2007
Description : Staten Island

Sample ID : B-2 5-8 FT

Collected By : A. Hill
Collection Date : 04/18/07 11:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Naphthalene	BDL	0.89	mg/kg	8270C	04/22/07	1
Phenanthrene	BDL	0.89	mg/kg	8270C	04/22/07	1
Pyrene	1.0	0.89	mg/kg	8270C	04/22/07	1
Surrogate Recovery						
Nitrobenzene-d5	68.5		% Rec.	8270C	04/22/07	1
2-Fluorobiphenyl	79.6		% Rec.	8270C	04/22/07	1
p-Terphenyl-d14	73.7		% Rec.	8270C	04/22/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 17:19 Revised: 05/11/07 09:15
L289637-02 (V8260STARS) - Non-target compounds too high to run at a lower dilution.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11, 2007

ESC Sample # : L289637-03

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-1 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 10:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
pH	7.4	7.4@20.6C	su	9045C	04/21/07	1
Total Solids	70.4		%	2540G	04/23/07	1
TPH (GC/FID) Low Fraction	BDL	0.71	mg/kg	5035/GRO	04/20/07	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.2		% Rec.	5035/GRO	04/20/07	5
Volatile Organics						
Acetone	BDL	0.36	mg/kg	8260B	04/23/07	5
Acrylonitrile	BDL	0.071	mg/kg	8260B	04/23/07	5
Benzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Bromobenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Bromodichloromethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
Bromoform	BDL	0.0071	mg/kg	8260B	04/23/07	5
Bromomethane	BDL	0.036	mg/kg	8260B	04/23/07	5
n-Butylbenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
sec-Butylbenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
tert-Butylbenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Carbon tetrachloride	BDL	0.0071	mg/kg	8260B	04/23/07	5
Chlorobenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Chlorodibromomethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
Chloroethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
2-Chloroethyl vinyl ether	BDL	0.36	mg/kg	8260B	04/23/07	5
Chloroform	BDL	0.036	mg/kg	8260B	04/23/07	5
Chloromethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
2-Chlorotoluene	BDL	0.0071	mg/kg	8260B	04/23/07	5
4-Chlorotoluene	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,2-Dibromo-3-Chloropropane	BDL	0.036	mg/kg	8260B	04/23/07	5
1,2-Dibromoethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
Dibromomethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,2-Dichlorobenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,3-Dichlorobenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,4-Dichlorobenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Dichlorodifluoromethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,1-Dichloroethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,2-Dichloroethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,1-Dichloroethene	BDL	0.0071	mg/kg	8260B	04/23/07	5
cis-1,2-Dichloroethene	BDL	0.0071	mg/kg	8260B	04/23/07	5
trans-1,2-Dichloroethene	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,2-Dichloropropane	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,1-Dichloropropene	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,3-Dichloropropane	BDL	0.0071	mg/kg	8260B	04/23/07	5
cis-1,3-Dichloropropene	BDL	0.0071	mg/kg	8260B	04/23/07	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11, 2007

ESC Sample # : L289637-03

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-1 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 10:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
trans-1,3-Dichloropropene	BDL	0.0071	mg/kg	8260B	04/23/07	5
2,2-Dichloropropane	BDL	0.0071	mg/kg	8260B	04/23/07	5
Di-isopropyl ether	BDL	0.0071	mg/kg	8260B	04/23/07	5
Ethylbenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Hexachlorobutadiene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Isopropylbenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
p-Isopropyltoluene	BDL	0.0071	mg/kg	8260B	04/23/07	5
2-Butanone (MEK)	BDL	0.071	mg/kg	8260B	04/23/07	5
Methylene Chloride	BDL	0.036	mg/kg	8260B	04/23/07	5
4-Methyl-2-pentanone (MIBK)	BDL	0.071	mg/kg	8260B	04/23/07	5
Methyl tert-butyl ether	BDL	0.0071	mg/kg	8260B	04/23/07	5
Naphthalene	BDL	0.036	mg/kg	8260B	04/23/07	5
n-Propylbenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Styrene	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,1,1,2-Tetrachloroethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,1,2,2-Tetrachloroethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0071	mg/kg	8260B	04/23/07	5
Tetrachloroethene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Toluene	BDL	0.036	mg/kg	8260B	04/23/07	5
1,2,3-Trichlorobenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,2,4-Trichlorobenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,1,1-Trichloroethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,1,2-Trichloroethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
Trichloroethene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Trichlorofluoromethane	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,2,3-Trichloropropane	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,2,4-Trimethylbenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,2,3-Trimethylbenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
1,3,5-Trimethylbenzene	BDL	0.0071	mg/kg	8260B	04/23/07	5
Vinyl chloride	BDL	0.0071	mg/kg	8260B	04/23/07	5
Xylenes, Total	BDL	0.021	mg/kg	8260B	04/23/07	5
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	04/23/07	5
Dibromofluoromethane	91.7		% Rec.	8260B	04/23/07	5
4-Bromofluorobenzene	108.		% Rec.	8260B	04/23/07	5
TPH (GC/FID) High Fraction	15000	280	mg/kg	3546/DRO	04/24/07	50
Surrogate Recovery (50-150)						
o-Terphenyl	0.00		% Rec.	3546/DRO	04/24/07	50
TPH as Waste Oil						
Misc. TPH (C10-C40)	20000	280	mg/kg	8015M	04/23/07	50
Surrogate Recovery						
o-Terphenyl	0.00		% Rec.	8015M	04/23/07	50

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11, 2007

ESC Sample # : L289637-03

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-1 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 10:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Base/Neutral Extractables						
Acenaphthene	BDL	9.4	mg/kg	8270C	04/24/07	20
Acenaphthylene	BDL	9.4	mg/kg	8270C	04/24/07	20
Anthracene	BDL	9.4	mg/kg	8270C	04/24/07	20
Benzo(a)anthracene	BDL	9.4	mg/kg	8270C	04/24/07	20
Benzo(b)fluoranthene	BDL	9.4	mg/kg	8270C	04/24/07	20
Benzo(k)fluoranthene	BDL	9.4	mg/kg	8270C	04/24/07	20
Benzo(g,h,i)perylene	BDL	9.4	mg/kg	8270C	04/24/07	20
Benzo(a)pyrene	BDL	9.4	mg/kg	8270C	04/24/07	20
Chrysene	BDL	9.4	mg/kg	8270C	04/24/07	20
Dibenz(a,h)anthracene	BDL	9.4	mg/kg	8270C	04/24/07	20
Fluoranthene	BDL	9.4	mg/kg	8270C	04/24/07	20
Fluorene	BDL	9.4	mg/kg	8270C	04/24/07	20
Indeno(1,2,3-cd)pyrene	BDL	9.4	mg/kg	8270C	04/24/07	20
Naphthalene	BDL	9.4	mg/kg	8270C	04/24/07	20
Phenanthrene	BDL	9.4	mg/kg	8270C	04/24/07	20
Pyrene	BDL	9.4	mg/kg	8270C	04/24/07	20
Surrogate Recovery						
Nitrobenzene-d5	73.5		% Rec.	8270C	04/24/07	20
2-Fluorobiphenyl	80.1		% Rec.	8270C	04/24/07	20
p-Terphenyl-d14	101.		% Rec.	8270C	04/24/07	20
Polychlorinated Biphenyls						
PCB 1016	BDL	0.24	mg/kg	8082	04/23/07	10
PCB 1221	BDL	0.24	mg/kg	8082	04/23/07	10
PCB 1232	BDL	0.24	mg/kg	8082	04/23/07	10
PCB 1242	BDL	0.24	mg/kg	8082	04/23/07	10
PCB 1248	BDL	0.24	mg/kg	8082	04/23/07	10
PCB 1254	BDL	0.24	mg/kg	8082	04/23/07	10
PCB 1260	BDL	0.24	mg/kg	8082	04/23/07	10
PCBs Surrogates						
Decachlorobiphenyl	73.7		% Rec.	8082	04/23/07	10
Tetrachloro-m-xylene	63.7		% Rec.	8082	04/23/07	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 17:19 Revised: 05/11/07 09:15

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L289637-04

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-1 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Fractional Organic Carbon	0.0059		g C/g soil	D2974	04/24/07	1
Fractional Organic Matter	1.0		%	D2974	04/24/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/25/07 17:19 Revised: 05/11/07 09:15

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11, 2007

ESC Sample # : L289637-05

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-4 2-5 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 13:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
pH	6.8	6.8@20.6C	su	9045C	04/21/07	1
Total Solids	80.3		%	2540G	04/23/07	1
TPH (GC/FID) Low Fraction	BDL	0.62	mg/kg	5035/GRO	04/20/07	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.5		% Rec.	5035/GRO	04/20/07	5
Volatile Organics						
Acetone	BDL	0.062	mg/kg	8260B	04/22/07	1
Acrylonitrile	BDL	0.012	mg/kg	8260B	04/22/07	1
Benzene	0.014	0.0012	mg/kg	8260B	04/22/07	1
Bromobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
Bromoform	BDL	0.0012	mg/kg	8260B	04/22/07	1
Bromomethane	BDL	0.0062	mg/kg	8260B	04/22/07	1
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	04/22/07	1
Chlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
Chloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
2-Chloroethyl vinyl ether	BDL	0.062	mg/kg	8260B	04/22/07	1
Chloroform	BDL	0.0062	mg/kg	8260B	04/22/07	1
Chloromethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/22/07	1
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0062	mg/kg	8260B	04/22/07	1
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
Dibromomethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Dichlorodifluoromethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/22/07	1
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/22/07	1
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/22/07	1
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/22/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11, 2007

ESC Sample # : L289637-05

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-4 2-5 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 13:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/22/07	1
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/22/07	1
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	04/22/07	1
Ethylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Hexachlorobutadiene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	04/22/07	1
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	04/22/07	1
Methylene Chloride	BDL	0.0062	mg/kg	8260B	04/22/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	04/22/07	1
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	04/22/07	1
Naphthalene	0.021	0.0062	mg/kg	8260B	04/22/07	1
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Styrene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0012	mg/kg	8260B	04/22/07	1
Tetrachloroethene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Toluene	0.011	0.0062	mg/kg	8260B	04/22/07	1
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
Trichloroethene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Trichlorofluoromethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2,3-Trichloropropane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Vinyl chloride	BDL	0.0012	mg/kg	8260B	04/22/07	1
Xylenes, Total	0.0058	0.0037	mg/kg	8260B	04/22/07	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	04/22/07	1
Dibromofluoromethane	98.0		% Rec.	8260B	04/22/07	1
4-Bromofluorobenzene	82.1		% Rec.	8260B	04/22/07	1
TPH (GC/FID) High Fraction	1200	25.	mg/kg	3546/DRO	04/24/07	5
Surrogate Recovery (50-150)						
o-Terphenyl	134.		% Rec.	3546/DRO	04/24/07	5
TPH as Waste Oil						
Misc. TPH (C10-C40)	360	5.0	mg/kg	8015M	04/21/07	1
Surrogate Recovery						
o-Terphenyl	62.1		% Rec.	8015M	04/21/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11, 2007

ESC Sample # : L289637-05

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-4 2-5 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 13:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Base/Neutral Extractables						
Acenaphthene	BDL	0.41	mg/kg	8270C	04/22/07	1
Acenaphthylene	2.0	0.41	mg/kg	8270C	04/22/07	1
Anthracene	5.3	0.41	mg/kg	8270C	04/22/07	1
Benzo(a)anthracene	8.2	0.41	mg/kg	8270C	04/22/07	1
Benzo(b)fluoranthene	4.8	0.41	mg/kg	8270C	04/22/07	1
Benzo(k)fluoranthene	5.7	0.41	mg/kg	8270C	04/22/07	1
Benzo(g,h,i)perylene	1.8	0.41	mg/kg	8270C	04/22/07	1
Benzo(a)pyrene	6.8	0.41	mg/kg	8270C	04/22/07	1
Chrysene	6.3	0.41	mg/kg	8270C	04/22/07	1
Dibenz(a,h)anthracene	0.56	0.41	mg/kg	8270C	04/22/07	1
Fluoranthene	13.	4.1	mg/kg	8270C	04/23/07	10
Indeno(1,2,3-cd)pyrene	1.6	0.41	mg/kg	8270C	04/22/07	1
Naphthalene	0.52	0.41	mg/kg	8270C	04/22/07	1
Phenanthrene	1.6	0.41	mg/kg	8270C	04/22/07	1
Pyrene	18.	4.1	mg/kg	8270C	04/23/07	10
Surrogate Recovery						
Nitrobenzene-d5	66.2		% Rec.	8270C	04/22/07	1
2-Fluorobiphenyl	59.8		% Rec.	8270C	04/22/07	1
p-Terphenyl-d14	53.2		% Rec.	8270C	04/22/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1221	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1232	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1242	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1248	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1254	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1260	BDL	0.21	mg/kg	8082	04/23/07	10
PCBs Surrogates						
Decachlorobiphenyl	55.0		% Rec.	8082	04/23/07	10
Tetrachloro-m-xylene	37.8		% Rec.	8082	04/23/07	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 17:19 Revised: 05/11/07 09:15

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L289637-06

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-4 2-5 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Fractional Organic Carbon	0.059		g C/g soil	D2974	04/24/07	1
Fractional Organic Matter	10.		%	D2974	04/24/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
.
Reported: 04/25/07 17:19 Revised: 05/11/07 09:15

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L289637-07

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-3 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 12:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.4		%	2540G	04/23/07	1
TPH (GC/FID) Low Fraction	BDL	0.63	mg/kg	5035/GRO	04/20/07	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	92.1		% Rec.	5035/GRO	04/20/07	5
Volatile Organics						
Acetone	BDL	0.063	mg/kg	8260B	04/22/07	1
Acrylonitrile	BDL	0.012	mg/kg	8260B	04/22/07	1
Benzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Bromobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
Bromoform	BDL	0.0012	mg/kg	8260B	04/22/07	1
Bromomethane	BDL	0.0063	mg/kg	8260B	04/22/07	1
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Carbon tetrachloride	0.0015	0.0012	mg/kg	8260B	04/22/07	1
Chlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
Chloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
2-Chloroethyl vinyl ether	BDL	0.063	mg/kg	8260B	04/22/07	1
Chloroform	BDL	0.0063	mg/kg	8260B	04/22/07	1
Chloromethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/22/07	1
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0063	mg/kg	8260B	04/22/07	1
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
Dibromomethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Dichlorodifluoromethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/22/07	1
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/22/07	1
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/22/07	1
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/22/07	1
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/22/07	1
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/22/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L289637-07

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-3 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 12:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	04/22/07	1
Ethylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Hexachlorobutadiene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	04/22/07	1
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	04/22/07	1
Methylene Chloride	BDL	0.0063	mg/kg	8260B	04/22/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	04/22/07	1
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	04/22/07	1
Naphthalene	BDL	0.0063	mg/kg	8260B	04/22/07	1
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Styrene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0012	mg/kg	8260B	04/22/07	1
Tetrachloroethene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Toluene	BDL	0.0063	mg/kg	8260B	04/22/07	1
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
Trichloroethene	0.0013	0.0012	mg/kg	8260B	04/22/07	1
Trichlorofluoromethane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2,3-Trichloropropane	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/22/07	1
Vinyl chloride	BDL	0.0012	mg/kg	8260B	04/22/07	1
Xylenes, Total	BDL	0.0038	mg/kg	8260B	04/22/07	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	04/22/07	1
Dibromofluoromethane	92.4		% Rec.	8260B	04/22/07	1
4-Bromofluorobenzene	80.5		% Rec.	8260B	04/22/07	1
TPH (GC/FID) High Fraction	180	5.0	mg/kg	3546/DRO	04/20/07	1
Surrogate Recovery (50-150)						
o-Terphenyl	71.2		% Rec.	3546/DRO	04/20/07	1
TPH as Waste Oil						
Misc. TPH (C10-C40)	120	5.0	mg/kg	8015M	04/23/07	1
Surrogate Recovery						
o-Terphenyl	65.2		% Rec.	8015M	04/23/07	1

Base/Neutral Extractables

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L289637-07

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-3 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 12:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Acenaphthene	BDL	0.42	mg/kg	8270C	04/22/07	1
Acenaphthylene	BDL	0.42	mg/kg	8270C	04/22/07	1
Anthracene	BDL	0.42	mg/kg	8270C	04/22/07	1
Benzo(a)anthracene	0.70	0.42	mg/kg	8270C	04/22/07	1
Benzo(b)fluoranthene	1.1	0.42	mg/kg	8270C	04/22/07	1
Benzo(k)fluoranthene	0.53	0.42	mg/kg	8270C	04/22/07	1
Benzo(g,h,i)perylene	0.44	0.42	mg/kg	8270C	04/22/07	1
Benzo(a)pyrene	0.78	0.42	mg/kg	8270C	04/22/07	1
Chrysene	0.90	0.42	mg/kg	8270C	04/22/07	1
Dibenz(a,h)anthracene	BDL	0.42	mg/kg	8270C	04/22/07	1
Fluoranthene	1.2	0.42	mg/kg	8270C	04/22/07	1
Fluorene	BDL	0.42	mg/kg	8270C	04/22/07	1
Indeno(1,2,3-cd)pyrene	BDL	0.42	mg/kg	8270C	04/22/07	1
Naphthalene	BDL	0.42	mg/kg	8270C	04/22/07	1
Phenanthrene	0.95	0.42	mg/kg	8270C	04/22/07	1
Pyrene	1.2	0.42	mg/kg	8270C	04/22/07	1
Surrogate Recovery						
Nitrobenzene-d5	76.9		% Rec.	8270C	04/22/07	1
2-Fluorobiphenyl	81.9		% Rec.	8270C	04/22/07	1
p-Terphenyl-d14	68.9		% Rec.	8270C	04/22/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1221	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1232	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1242	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1248	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1254	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1260	BDL	0.21	mg/kg	8082	04/23/07	10
PCBs Surrogates						
Decachlorobiphenyl	70.2		% Rec.	8082	04/23/07	10
Tetrachloro-m-xylene	68.9		% Rec.	8082	04/23/07	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 17:19 Revised: 05/11/07 09:15

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L289637-01	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
L289637-02	Chlorodibromomethane	J4
	2-Chloroethyl vinyl ether	J3
	Chloromethane	J4
	Hexachlorobutadiene	J4
	1,1,1,2-Tetrachloroethane	J4
L289637-03	o-Terphenyl	J7
	o-Terphenyl	J7
	Acetone	O
	Acrylonitrile	O
	Benzene	O
	Bromobenzene	O
	Bromodichloromethane	O
	Bromoform	O
	Bromomethane	O
	n-Butylbenzene	O
	sec-Butylbenzene	O
	tert-Butylbenzene	O
	Carbon tetrachloride	O
	Chlorobenzene	O
	Chlorodibromomethane	J4O
	Chloroethane	O
	2-Chloroethyl vinyl ether	O
	Chloroform	O
	Chloromethane	O
	2-Chlorotoluene	O
	4-Chlorotoluene	O
	1,2-Dibromo-3-Chloropropane	O
	1,2-Dibromoethane	O
	Dibromomethane	O
	1,2-Dichlorobenzene	O
	1,3-Dichlorobenzene	O
	1,4-Dichlorobenzene	O
	Dichlorodifluoromethane	O
	1,1-Dichloroethane	O
	1,2-Dichloroethane	O
	1,1-Dichloroethene	O
	cis-1,2-Dichloroethene	O
	trans-1,2-Dichloroethene	O
	1,2-Dichloropropane	O
	1,1-Dichloropropene	O
	1,3-Dichloropropane	O
	cis-1,3-Dichloropropene	O
	trans-1,3-Dichloropropene	J4O
	2,2-Dichloropropane	O
	Di-isopropyl ether	O
	Ethylbenzene	O
	Hexachlorobutadiene	O
	Isopropylbenzene	O
	p-Isopropyltoluene	O
	2-Butanone (MEK)	O
	Methylene Chloride	O
	4-Methyl-2-pentanone (MIBK)	O
	Methyl tert-butyl ether	O
	Naphthalene	O
	n-Propylbenzene	O
	Styrene	O
	1,1,1,2-Tetrachloroethane	J4O
	1,1,2,2-Tetrachloroethane	O
	1,1,2-Trichloro-1,2,2-trifluoroethane	O
	Tetrachloroethene	O
	Toluene	O
	1,2,3-Trichlorobenzene	O

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	1,2,4-Trichlorobenzene	O
	1,1,1-Trichloroethane	O
	1,1,2-Trichloroethane	O
	Trichloroethene	O
	Trichlorofluoromethane	O
	1,2,3-Trichloropropane	O
	1,2,4-Trimethylbenzene	O
	1,2,3-Trimethylbenzene	O
	1,3,5-Trimethylbenzene	O
	Vinyl chloride	O
	Xylenes, Total	O
	Acenaphthene	O
	Acenaphthylene	O
	Anthracene	O
	Benzo(a)anthracene	O
	Benzo(b)fluoranthene	O
	Benzo(k)fluoranthene	O
	Benzo(g,h,i)perylene	O
	Benzo(a)pyrene	O
	Chrysene	O
	Dibenz(a,h)anthracene	O
	Fluoranthene	O
	Fluorene	O
	Indeno(1,2,3-cd)pyrene	O
	Naphthalene	O
	Phenanthrene	O
	Pyrene	O
	Nitrobenzene-d5	O
	2-Fluorobiphenyl	O
	p-Terphenyl-d14	O
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
L289637-05	Chlorodibromomethane	J4
	2-Chloroethyl vinyl ether	J3
	Chloromethane	J4
	Hexachlorobutadiene	J4
	1,1,1,2-Tetrachloroethane	J4
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
	Tetrachloro-m-xylene	J2
L289637-07	Chlorodibromomethane	J4
	2-Chloroethyl vinyl ether	J3
	Chloromethane	J4
	Hexachlorobutadiene	J4
	1,1,1,2-Tetrachloroethane	J4
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	68-128	64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115	69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127	61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
05/11/07 at 09:16:03

TSR Signing Reports: 044
RX - Priority Rush

Invoice and Hard copy of report to David Russian. Email copy to Paul. ln 4/19/07

Sample: L289637-01 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:19
Relogged to L292288. jg-5/8
Sample: L289637-02 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:19

Sample: L289637-03 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:19

Sample: L289637-04 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:19

Sample: L289637-05 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:19

Sample: L289637-06 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:19

Sample: L289637-07 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:19

PSI - Schenectady, NY

104 Erie Boulevard.. Ste. 1
Schenectady,NY 12305

Alternate billing information:

Chain of Custody
Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Paul Misiaszek
Email: paul.misiaszek@psiusa.com
Project Description: Staten Island
City/State Collected: Staten Island NY
Phone: (518) 377-9841
FAX: (518) 377-9847
Client Project #: 046-7E014
Lab Project #: PSISNY-0467E014
Collected by (print): A. Hill
Site/Facility ID#:
P.O.#:
Collected by (signature): Anthony Hill
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
X Three Day 25%

Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: PSISNY (lab use only)
Template/Prelogin: T42776 P207289
Cooler #: 4/13 DS
Shipped Via: FedEx Standard

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	DRO, PCB's 4ozClr-NoPres	FOC 4ozClr-NoPres	SV8270PAHSTARS 4ozAmb-NoPres	TPH Waste Oil 4ozClr-NoPres	TS,pH 2ozClr-NoPres	V8260STARS 40ml/NaHSO4/Syr/MeOH	Vol. Screen/GRO 2ozClr-NoPres	Remarks/Contaminant	Sample # (lab only)
B-2 2-4'	G	SS	2-4'	4/18/07	1140	4	X		X	X	X	X	X		L289637d
B-2 5-8'	G	SS	5-8	4/18/07	1140	4	X		X	X	X	X	X		-02
B-1 6-9'	G	SS	6-9'	4/18/07	1040	8	X	X	X	X	X	X	X		-03
~~B-2 2-5'~~	~~G~~	~~SS~~	~~2-5'~~	~~4~~	~~1345~~	~~9~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~-04~~
(MH) B-3 6-9'	G	SS	6-9'	4/18/07	1230	NTG	X		X	X	X	X	X		-05

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

7199 3085 6814

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
Anthony Hill	4/18/07	1650		Temp: 3.8° Bottles Received: 35+TB	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-19-7 Time: 900	pH Checked: NCF:

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. David Russian
Professional Service Industries, Inc.
4421 Harrison St.

Hillside, IL 60162

Report Summary

Wednesday April 25, 2007

Report Number: L289635
Samples Received: 04/19/07
Client Project: 046-7E014

Description: Staten Island

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Reviewed By: Leslie Newton
Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, WA - C1915

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-01

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-5 2-5 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 14:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.2		%	2540G	04/23/07	1
TPH (GC/FID) Low Fraction	BDL	0.12	mg/kg	5035/GRO	04/24/07	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.6		% Rec.	5035/GRO	04/24/07	1
Volatile Organics						
Acetone	BDL	0.061	mg/kg	8260B	04/23/07	1.01
Acrylonitrile	BDL	0.012	mg/kg	8260B	04/23/07	1.01
Benzene	0.070	0.0012	mg/kg	8260B	04/23/07	1.01
Bromobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Bromoform	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Bromomethane	BDL	0.0061	mg/kg	8260B	04/23/07	1.01
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Chlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Chloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
2-Chloroethyl vinyl ether	BDL	0.061	mg/kg	8260B	04/23/07	1.01
Chloroform	BDL	0.0061	mg/kg	8260B	04/23/07	1.01
Chloromethane	0.0014	0.0012	mg/kg	8260B	04/23/07	1.01
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,2-Dibromo-3-Chloropropane	BDL	0.0061	mg/kg	8260B	04/23/07	1.01
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Dibromomethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Dichlorodifluoromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-01

Site ID :

Project # : 046-7E014

Date Received : April 19, 2007
Description : Staten Island

Sample ID : B-5 2-5 FT

Collected By : A. Hill
Collection Date : 04/18/07 14:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Ethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Hexachlorobutadiene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	04/23/07	1.01
Methylene Chloride	BDL	0.0061	mg/kg	8260B	04/23/07	1.01
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	04/23/07	1.01
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Naphthalene	0.032	0.0061	mg/kg	8260B	04/23/07	1.01
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Styrene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Tetrachloroethene	0.0014	0.0012	mg/kg	8260B	04/23/07	1.01
Toluene	0.030	0.0061	mg/kg	8260B	04/23/07	1.01
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Trichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Trichlorofluoromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,2,3-Trichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Vinyl chloride	BDL	0.0012	mg/kg	8260B	04/23/07	1.01
Xylenes, Total	0.0042	0.0037	mg/kg	8260B	04/23/07	1.01
Surrogate Recovery						
Toluene-d8	91.4		% Rec.	8260B	04/23/07	1.01
Dibromofluoromethane	101.		% Rec.	8260B	04/23/07	1.01
4-Bromofluorobenzene	91.8		% Rec.	8260B	04/23/07	1.01
TPH (GC/FID) High Fraction	750	24.	mg/kg	3546/DRO	04/24/07	5
Surrogate Recovery (50-150)						
o-Terphenyl	79.7		% Rec.	3546/DRO	04/24/07	5
TPH as Waste Oil						
Misc. TPH (C10-C40)	3400	49.	mg/kg	8015M	04/24/07	10
Surrogate Recovery						
o-Terphenyl	90.2		% Rec.	8015M	04/24/07	10

Base/Neutral Extractables

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-01

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-5 2-5 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 14:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Acenaphthene	BDL	8.0	mg/kg	8270C	04/23/07	20
Acenaphthylene	14.	8.0	mg/kg	8270C	04/23/07	20
Anthracene	BDL	8.0	mg/kg	8270C	04/23/07	20
Benzo(a)anthracene	14.	8.0	mg/kg	8270C	04/23/07	20
Benzo(b)fluoranthene	15.	8.0	mg/kg	8270C	04/23/07	20
Benzo(k)fluoranthene	BDL	8.0	mg/kg	8270C	04/23/07	20
Benzo(g,h,i)perylene	BDL	8.0	mg/kg	8270C	04/23/07	20
Benzo(a)pyrene	9.1	8.0	mg/kg	8270C	04/23/07	20
Chrysene	14.	8.0	mg/kg	8270C	04/23/07	20
Dibenz(a,h)anthracene	BDL	8.0	mg/kg	8270C	04/23/07	20
Fluoranthene	8.6	8.0	mg/kg	8270C	04/23/07	20
Fluorene	BDL	8.0	mg/kg	8270C	04/23/07	20
Indeno(1,2,3-cd)pyrene	BDL	8.0	mg/kg	8270C	04/23/07	20
Naphthalene	BDL	8.0	mg/kg	8270C	04/23/07	20
Phenanthrene	BDL	8.0	mg/kg	8270C	04/23/07	20
Pyrene	22.	8.0	mg/kg	8270C	04/23/07	20
Surrogate Recovery						
Nitrobenzene-d5	97.5		% Rec.	8270C	04/23/07	20
2-Fluorobiphenyl	72.8		% Rec.	8270C	04/23/07	20
p-Terphenyl-d14	78.2		% Rec.	8270C	04/23/07	20
Polychlorinated Biphenyls						
PCB 1016	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1221	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1232	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1242	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1248	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1254	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1260	BDL	0.21	mg/kg	8082	04/23/07	10
PCBs Surrogates						
Decachlorobiphenyl	69.3		% Rec.	8082	04/23/07	10
Tetrachloro-m-xylene	50.2		% Rec.	8082	04/23/07	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 17:16 Printed: 04/25/07 17:17

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-02

Site ID :

Project # : 046-7E014

Date Received : April 19, 2007
Description : Staten Island

Sample ID : B-6 6-9 FT

Collected By : A. Hill
Collection Date : 04/18/07 14:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	80.2		%	2540G	04/23/07	1
TPH (GC/FID) Low Fraction	0.74	0.12	mg/kg	5035/GRO	04/20/07	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	71.3		% Rec.	5035/GRO	04/20/07	1
Volatile Organics						
Acetone	BDL	0.062	mg/kg	8260B	04/24/07	1
Acrylonitrile	BDL	0.012	mg/kg	8260B	04/24/07	1
Benzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Bromobenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
Bromoform	BDL	0.0012	mg/kg	8260B	04/24/07	1
Bromomethane	BDL	0.0062	mg/kg	8260B	04/24/07	1
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	04/24/07	1
Chlorobenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
Chloroethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
2-Chloroethyl vinyl ether	BDL	0.062	mg/kg	8260B	04/24/07	1
Chloroform	BDL	0.0062	mg/kg	8260B	04/24/07	1
Chloromethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/24/07	1
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0062	mg/kg	8260B	04/24/07	1
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
Dibromomethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Dichlorodifluoromethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/24/07	1
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/24/07	1
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/24/07	1
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/24/07	1
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/24/07	1
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/24/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-02

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-6 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 14:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	04/24/07	1
Ethylbenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Hexachlorobutadiene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	04/24/07	1
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	04/24/07	1
Methylene Chloride	BDL	0.0062	mg/kg	8260B	04/24/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	04/24/07	1
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	04/24/07	1
Naphthalene	BDL	0.0062	mg/kg	8260B	04/24/07	1
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Styrene	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0012	mg/kg	8260B	04/24/07	1
Tetrachloroethene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Toluene	BDL	0.0062	mg/kg	8260B	04/24/07	1
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
Trichloroethene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Trichlorofluoromethane	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,2,3-Trichloropropane	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/24/07	1
Vinyl chloride	BDL	0.0012	mg/kg	8260B	04/24/07	1
Xylenes, Total	BDL	0.0037	mg/kg	8260B	04/24/07	1
Surrogate Recovery						
Toluene-d8	92.8		% Rec.	8260B	04/24/07	1
Dibromofluoromethane	95.2		% Rec.	8260B	04/24/07	1
4-Bromofluorobenzene	95.6		% Rec.	8260B	04/24/07	1
TPH (GC/FID) High Fraction	250	5.0	mg/kg	3546/DRO	04/20/07	1
Surrogate Recovery (50-150)						
o-Terphenyl	63.3		% Rec.	3546/DRO	04/20/07	1
TPH as Waste Oil						
Misc. TPH (C10-C40)	330	5.0	mg/kg	8015M	04/21/07	1
Surrogate Recovery						
o-Terphenyl	77.3		% Rec.	8015M	04/21/07	1

Base/Neutral Extractables

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-02

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-6 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 14:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Acenaphthene	BDL	8.2	mg/kg	8270C	04/23/07	20
Acenaphthylene	8.7	8.2	mg/kg	8270C	04/23/07	20
Anthracene	BDL	8.2	mg/kg	8270C	04/23/07	20
Benzo(a)anthracene	15.	8.2	mg/kg	8270C	04/23/07	20
Benzo(b)fluoranthene	14.	8.2	mg/kg	8270C	04/23/07	20
Benzo(k)fluoranthene	BDL	8.2	mg/kg	8270C	04/23/07	20
Benzo(g,h,i)perylene	BDL	8.2	mg/kg	8270C	04/23/07	20
Benzo(a)pyrene	21.	8.2	mg/kg	8270C	04/23/07	20
Chrysene	BDL	8.2	mg/kg	8270C	04/23/07	20
Dibenz(a,h)anthracene	BDL	8.2	mg/kg	8270C	04/23/07	20
Fluoranthene	BDL	8.2	mg/kg	8270C	04/23/07	20
Fluorene	BDL	8.2	mg/kg	8270C	04/23/07	20
Indeno(1,2,3-cd)pyrene	BDL	8.2	mg/kg	8270C	04/23/07	20
Naphthalene	BDL	8.2	mg/kg	8270C	04/23/07	20
Phenanthrene	BDL	8.2	mg/kg	8270C	04/23/07	20
Pyrene	BDL	8.2	mg/kg	8270C	04/23/07	20
Surrogate Recovery						
Nitrobenzene-d5	82.4		% Rec.	8270C	04/23/07	20
2-Fluorobiphenyl	67.6		% Rec.	8270C	04/23/07	20
p-Terphenyl-d14	90.4		% Rec.	8270C	04/23/07	20
Polychlorinated Biphenyls						
PCB 1016	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1221	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1232	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1242	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1248	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1254	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1260	BDL	0.21	mg/kg	8082	04/23/07	10
PCBs Surrogates						
Decachlorobiphenyl	50.7		% Rec.	8082	04/23/07	10
Tetrachloro-m-xylene	41.5		% Rec.	8082	04/23/07	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 17:16 Printed: 04/25/07 17:18

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-03

Site ID :

Project # : 046-7E014

Date Received : April 19, 2007
Description : Staten Island

Sample ID : B-7 2-5 FT

Collected By : A. Hill
Collection Date : 04/18/07 15:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.4		%	2540G	04/23/07	1
TPH (GC/FID) Low Fraction	BDL	0.12	mg/kg	5035/GRO	04/24/07	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.6		% Rec.	5035/GRO	04/24/07	1
Volatile Organics						
Acetone	BDL	0.060	mg/kg	8260B	04/23/07	1
Acrylonitrile	BDL	0.012	mg/kg	8260B	04/23/07	1
Benzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Bromobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
Bromoform	BDL	0.0012	mg/kg	8260B	04/23/07	1
Bromomethane	BDL	0.0060	mg/kg	8260B	04/23/07	1
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	04/23/07	1
Chlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
Chloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
2-Chloroethyl vinyl ether	BDL	0.060	mg/kg	8260B	04/23/07	1
Chloroform	BDL	0.0060	mg/kg	8260B	04/23/07	1
Chloromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/23/07	1
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0060	mg/kg	8260B	04/23/07	1
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
Dibromomethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Dichlorodifluoromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/23/07	1
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/23/07	1
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-03

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-7 2-5 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 15:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	04/23/07	1
Ethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Hexachlorobutadiene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	04/23/07	1
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	04/23/07	1
Methylene Chloride	BDL	0.0060	mg/kg	8260B	04/23/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	04/23/07	1
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	04/23/07	1
Naphthalene	BDL	0.0060	mg/kg	8260B	04/23/07	1
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Styrene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0012	mg/kg	8260B	04/23/07	1
Tetrachloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Toluene	BDL	0.0060	mg/kg	8260B	04/23/07	1
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
Trichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Trichlorofluoromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2,3-Trichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Vinyl chloride	BDL	0.0012	mg/kg	8260B	04/23/07	1
Xylenes, Total	BDL	0.0036	mg/kg	8260B	04/23/07	1
Surrogate Recovery						
Toluene-d8	92.3		% Rec.	8260B	04/23/07	1
Dibromofluoromethane	102.		% Rec.	8260B	04/23/07	1
4-Bromofluorobenzene	96.7		% Rec.	8260B	04/23/07	1
TPH (GC/FID) High Fraction	440	4.8	mg/kg	3546/DRO	04/20/07	1
Surrogate Recovery (50-150)						
o-Terphenyl	63.5		% Rec.	3546/DRO	04/20/07	1
TPH as Waste Oil						
Misc. TPH (C10-C40)	420	4.8	mg/kg	8015M	04/21/07	1
Surrogate Recovery						
o-Terphenyl	97.6		% Rec.	8015M	04/21/07	1

Base/Neutral Extractables

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-03

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-7 2-5 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 15:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Acenaphthene	BDL	0.40	mg/kg	8270C	04/22/07	1
Acenaphthylene	2.5	0.40	mg/kg	8270C	04/22/07	1
Anthracene	8.3	0.40	mg/kg	8270C	04/22/07	1
Benzo(a)anthracene	10.	0.40	mg/kg	8270C	04/22/07	1
Benzo(b)fluoranthene	4.3	0.40	mg/kg	8270C	04/22/07	1
Benzo(k)fluoranthene	8.6	0.40	mg/kg	8270C	04/22/07	1
Benzo(g,h,i)perylene	2.8	0.40	mg/kg	8270C	04/22/07	1
Benzo(a)pyrene	7.3	0.40	mg/kg	8270C	04/22/07	1
Chrysene	9.7	0.40	mg/kg	8270C	04/22/07	1
Dibenz(a,h)anthracene	1.3	0.40	mg/kg	8270C	04/22/07	1
Fluoranthene	10.	0.40	mg/kg	8270C	04/22/07	1
Fluorene	0.78	0.40	mg/kg	8270C	04/22/07	1
Indeno(1,2,3-cd)pyrene	2.5	0.40	mg/kg	8270C	04/22/07	1
Naphthalene	BDL	0.40	mg/kg	8270C	04/22/07	1
Phenanthrene	3.2	0.40	mg/kg	8270C	04/22/07	1
Pyrene	17.	0.40	mg/kg	8270C	04/22/07	1
Surrogate Recovery						
Nitrobenzene-d5	67.8		% Rec.	8270C	04/22/07	1
2-Fluorobiphenyl	67.0		% Rec.	8270C	04/22/07	1
p-Terphenyl-d14	78.3		% Rec.	8270C	04/22/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.20	mg/kg	8082	04/23/07	10
PCB 1221	BDL	0.20	mg/kg	8082	04/23/07	10
PCB 1232	BDL	0.20	mg/kg	8082	04/23/07	10
PCB 1242	BDL	0.20	mg/kg	8082	04/23/07	10
PCB 1248	BDL	0.20	mg/kg	8082	04/23/07	10
PCB 1254	BDL	0.20	mg/kg	8082	04/23/07	10
PCB 1260	BDL	0.20	mg/kg	8082	04/23/07	10
PCBs Surrogates						
Decachlorobiphenyl	60.8		% Rec.	8082	04/23/07	10
Tetrachloro-m-xylene	37.1		% Rec.	8082	04/23/07	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 17:16 Printed: 04/25/07 17:18

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-04

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-8 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 16:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
pH	8.1	8.1@20.6C	su	9045C	04/21/07	1
Total Solids	80.9		%	2540G	04/23/07	1
TPH (GC/FID) Low Fraction	0.21	0.12	mg/kg	5035/GRO	04/20/07	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	72.2		% Rec.	5035/GRO	04/20/07	1
Volatile Organics						
Acetone	BDL	0.062	mg/kg	8260B	04/23/07	1
Acrylonitrile	BDL	0.012	mg/kg	8260B	04/23/07	1
Benzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Bromobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
Bromoform	BDL	0.0012	mg/kg	8260B	04/23/07	1
Bromomethane	BDL	0.0062	mg/kg	8260B	04/23/07	1
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	04/23/07	1
Chlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
Chloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
2-Chloroethyl vinyl ether	BDL	0.062	mg/kg	8260B	04/23/07	1
Chloroform	BDL	0.0062	mg/kg	8260B	04/23/07	1
Chloromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/23/07	1
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0062	mg/kg	8260B	04/23/07	1
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
Dibromomethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Dichlorodifluoromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/23/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-04

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-8 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 16:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	04/23/07	1
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	04/23/07	1
Ethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Hexachlorobutadiene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	04/23/07	1
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	04/23/07	1
Methylene Chloride	BDL	0.0062	mg/kg	8260B	04/23/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	04/23/07	1
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	04/23/07	1
Naphthalene	BDL	0.0062	mg/kg	8260B	04/23/07	1
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Styrene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0012	mg/kg	8260B	04/23/07	1
Tetrachloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Toluene	BDL	0.0062	mg/kg	8260B	04/23/07	1
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
Trichloroethene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Trichlorofluoromethane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2,3-Trichloropropane	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	04/23/07	1
Vinyl chloride	BDL	0.0012	mg/kg	8260B	04/23/07	1
Xylenes, Total	BDL	0.0037	mg/kg	8260B	04/23/07	1
Surrogate Recovery						
Toluene-d8	90.9		% Rec.	8260B	04/23/07	1
Dibromofluoromethane	101.		% Rec.	8260B	04/23/07	1
4-Bromofluorobenzene	91.4		% Rec.	8260B	04/23/07	1
TPH (GC/FID) High Fraction	240	4.9	mg/kg	3546/DRO	04/20/07	1
Surrogate Recovery (50-150)						
o-Terphenyl	71.9		% Rec.	3546/DRO	04/20/07	1
TPH as Waste Oil						
Misc. TPH (C10-C40)	340	4.9	mg/kg	8015M	04/21/07	1
Surrogate Recovery						
o-Terphenyl	54.9		% Rec.	8015M	04/21/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289635-04

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-8 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 16:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Base/Neutral Extractables						
Acenaphthene	BDL	0.41	mg/kg	8270C	04/22/07	1
Acenaphthylene	0.52	0.41	mg/kg	8270C	04/22/07	1
Anthracene	0.43	0.41	mg/kg	8270C	04/22/07	1
Benzo(a)anthracene	1.5	0.41	mg/kg	8270C	04/22/07	1
Benzo(b)fluoranthene	1.8	0.41	mg/kg	8270C	04/22/07	1
Benzo(k)fluoranthene	1.0	0.41	mg/kg	8270C	04/22/07	1
Benzo(g,h,i)perylene	0.80	0.41	mg/kg	8270C	04/22/07	1
Benzo(a)pyrene	1.7	0.41	mg/kg	8270C	04/22/07	1
Chrysene	1.5	0.41	mg/kg	8270C	04/22/07	1
Dibenz(a,h)anthracene	BDL	0.41	mg/kg	8270C	04/22/07	1
Fluoranthene	2.1	0.41	mg/kg	8270C	04/22/07	1
Fluorene	BDL	0.41	mg/kg	8270C	04/22/07	1
Indeno(1,2,3-cd)pyrene	0.63	0.41	mg/kg	8270C	04/22/07	1
Naphthalene	BDL	0.41	mg/kg	8270C	04/22/07	1
Phenanthrene	1.4	0.41	mg/kg	8270C	04/22/07	1
Pyrene	2.6	0.41	mg/kg	8270C	04/22/07	1
Surrogate Recovery						
Nitrobenzene-d5	71.0		% Rec.	8270C	04/22/07	1
2-Fluorobiphenyl	70.3		% Rec.	8270C	04/22/07	1
p-Terphenyl-d14	71.0		% Rec.	8270C	04/22/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1221	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1232	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1242	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1248	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1254	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1260	BDL	0.21	mg/kg	8082	04/23/07	10
PCBs Surrogates						
Decachlorobiphenyl	45.4		% Rec.	8082	04/23/07	10
Tetrachloro-m-xylene	52.9		% Rec.	8082	04/23/07	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 17:16 Printed: 04/25/07 17:18

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L289635-01	Bromodichloromethane	J3
	Chloroethane	J3
	Chloromethane	J3
	Dichlorodifluoromethane	J4J3
	Trichlorofluoromethane	J3
	Vinyl chloride	J3
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
L289635-02	2-Chloroethyl vinyl ether	J4J3
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
	Tetrachloro-m-xylene	J2
L289635-03	Bromodichloromethane	J3
	Chloroethane	J3
	Chloromethane	J3
	Dichlorodifluoromethane	J4J3
	Trichlorofluoromethane	J3
	Vinyl chloride	J3
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
	Tetrachloro-m-xylene	J2
L289635-04	Bromodichloromethane	J3
	Chloroethane	J3
	Chloromethane	J3
	Dichlorodifluoromethane	J4J3
	Trichlorofluoromethane	J3
	Vinyl chloride	J3
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
	Decachlorobiphenyl	J2

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	68-128	64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115	69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127	61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
04/25/07 at 17:18:28

TSR Signing Reports: 044
RX - Priority Rush

Invoice and Hard copy of report to David Russian. Email copy to Paul. ln 4/19/07

Sample: L289635-01 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:16

Sample: L289635-02 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:16

Sample: L289635-03 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:16

Sample: L289635-04 Account: PSISNY Received: 04/19/07 09:00 Due Date: 04/24/07 00:00 RPT Date: 04/25/07 17:16

PSI - Schenectady, NY

104 Erie Boulevard.. Ste. 1
Schenectady,NY 12305

Alternate billing information:

Chain of Custody
Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Paul Misiaszek
Email: paul.misiaszek@psiusa.com
Project Description: Staten Island
City/State Collected: Staten Island NY
Phone: (518) 377-9841
FAX: (518) 377-9847
Client Project #: 046-7E014
Lab Project #: PSISNY-0467E014
Collected by (print): A. Hill
Site/Facility ID#:
P.O.#:
Collected by (signature): Anthony Hill
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
X Three Day 25%

Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: PSISNY (lab use only)
Template/Prelogin: T42775/P207286
Cooler #: 4/13
Shipped Via: FedEX Standard

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	DRO, PCB's 4ozClr-NoPres	SV8270PAHSTARS 4ozAmb-NoPres	TPH Waste Oil 4ozClr-NoPres	TS,pH 2ozClr-NoPres	V8260STARS 40ml/NaHSO4/Syr/MeOH	Vol. Screen/GRO 2ozClr-NoPres		Remarks/Contaminant	Sample # (lab only)
B-5 2-5'	G	SS	2-5'	4/18/07	1460	8	X	X	X	X	X	X			L2890655-01
B-6 6-9'	↓	SS	6-9	↓	1435	8	X	X	X	X	X	X			-02
B-7 2-5'		SS	2-5'		1520	8	X	X	X	X	X	X			-03
B-8 6-9'	↓	SS	6-9'	↓	1600	8	X	X	X	X	X	X			-04

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

7199 3085 0825

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Anthony Hill	4/18/07	1650	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐
Temp: 3.4°C Bottles Received: 32+TB
Date: 4-19-07 Time: 09:00

Condition: (lab use only) OK
pH Checked: NCF:

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. David Russian
Professional Service Industries, Inc.
4421 Harrison St.

Hillside, IL 60162

Report Summary

Wednesday April 25, 2007

Report Number: L289862
Samples Received: 04/20/07
Client Project: 046-7E014

Description: Staten Island

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Reviewed By: Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, WA - C1915

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289862-01

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-9 5-7 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 09:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.5		%	2540G	04/25/07	1
TPH (GC/FID) Low Fraction	0.30	0.18	mg/kg	5035/GRO	04/24/07	1.46
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	91.5		% Rec.	5035/GRO	04/24/07	1.46
Volatile Organics						
Acetone	BDL	0.070	mg/kg	8260B	04/21/07	1.15
Acrylonitrile	BDL	0.014	mg/kg	8260B	04/21/07	1.15
Benzene	0.16	0.0014	mg/kg	8260B	04/21/07	1.15
Bromobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Bromodichloromethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Bromoform	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Bromomethane	BDL	0.0070	mg/kg	8260B	04/21/07	1.15
n-Butylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
sec-Butylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
tert-Butylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Carbon tetrachloride	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Chlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Chlorodibromomethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Chloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
2-Chloroethyl vinyl ether	BDL	0.070	mg/kg	8260B	04/21/07	1.15
Chloroform	BDL	0.0070	mg/kg	8260B	04/21/07	1.15
Chloromethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
2-Chlorotoluene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
4-Chlorotoluene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,2-Dibromo-3-Chloropropane	BDL	0.0070	mg/kg	8260B	04/21/07	1.15
1,2-Dibromoethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Dibromomethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,2-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,3-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,4-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Dichlorodifluoromethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,1-Dichloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,2-Dichloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,1-Dichloroethene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
cis-1,2-Dichloroethene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
trans-1,2-Dichloroethene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,2-Dichloropropane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,1-Dichloropropene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,3-Dichloropropane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
cis-1,3-Dichloropropene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
trans-1,3-Dichloropropene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
2,2-Dichloropropane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289862-01

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-9 5-7 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 09:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Ethylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Hexachlorobutadiene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Isopropylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
p-Isopropyltoluene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
2-Butanone (MEK)	BDL	0.014	mg/kg	8260B	04/21/07	1.15
Methylene Chloride	BDL	0.0070	mg/kg	8260B	04/21/07	1.15
4-Methyl-2-pentanone (MIBK)	BDL	0.014	mg/kg	8260B	04/21/07	1.15
Methyl tert-butyl ether	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Naphthalene	BDL	0.0070	mg/kg	8260B	04/21/07	1.15
n-Propylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Styrene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,1,1,2-Tetrachloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,1,2,2-Tetrachloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Tetrachloroethene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Toluene	0.062	0.0070	mg/kg	8260B	04/21/07	1.15
1,2,3-Trichlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,2,4-Trichlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,1,1-Trichloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,1,2-Trichloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Trichloroethene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Trichlorofluoromethane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,2,3-Trichloropropane	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,2,4-Trimethylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
1,2,3-Trimethylbenzene	0.0020	0.0014	mg/kg	8260B	04/21/07	1.15
1,3,5-Trimethylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Vinyl chloride	BDL	0.0014	mg/kg	8260B	04/21/07	1.15
Xylenes, Total	0.012	0.0042	mg/kg	8260B	04/21/07	1.15
Surrogate Recovery						
Toluene-d8	90.0		% Rec.	8260B	04/21/07	1.15
Dibromofluoromethane	96.4		% Rec.	8260B	04/21/07	1.15
4-Bromofluorobenzene	33.9		% Rec.	8260B	04/21/07	1.15
TPH (GC/FID) High Fraction	710	24.	mg/kg	3546/DRO	04/25/07	5
Surrogate Recovery (50-150)						
o-Terphenyl	117.		% Rec.	3546/DRO	04/25/07	5
TPH as Waste Oil						
Misc. TPH (C10-C40)	2300	240	mg/kg	8015M	04/24/07	50
Surrogate Recovery						
o-Terphenyl	0.00		% Rec.	8015M	04/24/07	50

Base/Neutral Extractables

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289862-01

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-9 5-7 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 09:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Acenaphthene	BDL	4.0	mg/kg	8270C	04/24/07	10
Acenaphthylene	BDL	4.0	mg/kg	8270C	04/24/07	10
Anthracene	BDL	4.0	mg/kg	8270C	04/24/07	10
Benzo(a)anthracene	14.	4.0	mg/kg	8270C	04/24/07	10
Benzo(b)fluoranthene	17.	4.0	mg/kg	8270C	04/24/07	10
Benzo(k)fluoranthene	BDL	4.0	mg/kg	8270C	04/24/07	10
Benzo(g,h,i)perylene	11.	4.0	mg/kg	8270C	04/24/07	10
Benzo(a)pyrene	14.	4.0	mg/kg	8270C	04/24/07	10
Chrysene	14.	4.0	mg/kg	8270C	04/24/07	10
Dibenz(a,h)anthracene	BDL	4.0	mg/kg	8270C	04/24/07	10
Fluoranthene	26.	4.0	mg/kg	8270C	04/24/07	10
Fluorene	BDL	4.0	mg/kg	8270C	04/24/07	10
Indeno(1,2,3-cd)pyrene	9.2	4.0	mg/kg	8270C	04/24/07	10
Naphthalene	BDL	4.0	mg/kg	8270C	04/24/07	10
Phenanthrene	18.	4.0	mg/kg	8270C	04/24/07	10
Pyrene	26.	4.0	mg/kg	8270C	04/24/07	10
Surrogate Recovery						
Nitrobenzene-d5	94.4		% Rec.	8270C	04/24/07	10
2-Fluorobiphenyl	120.		% Rec.	8270C	04/24/07	10
p-Terphenyl-d14	130.		% Rec.	8270C	04/24/07	10
Polychlorinated Biphenyls						
PCB 1016	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1221	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1232	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1242	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1248	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1254	BDL	0.21	mg/kg	8082	04/23/07	10
PCB 1260	BDL	0.21	mg/kg	8082	04/23/07	10
PCBs Surrogates						
Decachlorobiphenyl	69.0		% Rec.	8082	04/23/07	10
Tetrachloro-m-xylene	65.0		% Rec.	8082	04/23/07	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 16:01 Printed: 04/25/07 17:33

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289862-02

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-10 3-8 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 10:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
pH	8.2	8.2@20.8C	su	9045C	04/21/07	1
Total Solids	74.9		%	2540G	04/25/07	1
TPH (GC/FID) Low Fraction	BDL	0.13	mg/kg	5035/GRO	04/24/07	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.4		% Rec.	5035/GRO	04/24/07	1
Volatile Organics						
Acetone	BDL	0.067	mg/kg	8260B	04/21/07	1
Acrylonitrile	BDL	0.013	mg/kg	8260B	04/21/07	1
Benzene	0.0052	0.0013	mg/kg	8260B	04/21/07	1
Bromobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Bromodichloromethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
Bromoform	BDL	0.0013	mg/kg	8260B	04/21/07	1
Bromomethane	BDL	0.0067	mg/kg	8260B	04/21/07	1
n-Butylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
sec-Butylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
tert-Butylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Carbon tetrachloride	BDL	0.0013	mg/kg	8260B	04/21/07	1
Chlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Chlorodibromomethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
Chloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
2-Chloroethyl vinyl ether	BDL	0.067	mg/kg	8260B	04/21/07	1
Chloroform	BDL	0.0067	mg/kg	8260B	04/21/07	1
Chloromethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
2-Chlorotoluene	BDL	0.0013	mg/kg	8260B	04/21/07	1
4-Chlorotoluene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0067	mg/kg	8260B	04/21/07	1
1,2-Dibromoethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
Dibromomethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2-Dichlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,3-Dichlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,4-Dichlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Dichlorodifluoromethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1-Dichloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2-Dichloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1-Dichloroethene	BDL	0.0013	mg/kg	8260B	04/21/07	1
cis-1,2-Dichloroethene	BDL	0.0013	mg/kg	8260B	04/21/07	1
trans-1,2-Dichloroethene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2-Dichloropropane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1-Dichloropropene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,3-Dichloropropane	BDL	0.0013	mg/kg	8260B	04/21/07	1
cis-1,3-Dichloropropene	BDL	0.0013	mg/kg	8260B	04/21/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289862-02

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-10 3-8 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 10:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
trans-1,3-Dichloropropene	BDL	0.0013	mg/kg	8260B	04/21/07	1
2,2-Dichloropropane	BDL	0.0013	mg/kg	8260B	04/21/07	1
Di-isopropyl ether	BDL	0.0013	mg/kg	8260B	04/21/07	1
Ethylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Hexachlorobutadiene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Isopropylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
p-Isopropyltoluene	BDL	0.0013	mg/kg	8260B	04/21/07	1
2-Butanone (MEK)	BDL	0.013	mg/kg	8260B	04/21/07	1
Methylene Chloride	BDL	0.0067	mg/kg	8260B	04/21/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.013	mg/kg	8260B	04/21/07	1
Methyl tert-butyl ether	BDL	0.0013	mg/kg	8260B	04/21/07	1
Naphthalene	BDL	0.0067	mg/kg	8260B	04/21/07	1
n-Propylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Styrene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0013	mg/kg	8260B	04/21/07	1
Tetrachloroethene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Toluene	BDL	0.0067	mg/kg	8260B	04/21/07	1
1,2,3-Trichlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2,4-Trichlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1,1-Trichloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1,2-Trichloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
Trichloroethene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Trichlorofluoromethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2,3-Trichloropropane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2,4-Trimethylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2,3-Trimethylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,3,5-Trimethylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Vinyl chloride	BDL	0.0013	mg/kg	8260B	04/21/07	1
Xylenes, Total	BDL	0.0040	mg/kg	8260B	04/21/07	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/07	1
Dibromofluoromethane	90.9		% Rec.	8260B	04/21/07	1
4-Bromofluorobenzene	61.6		% Rec.	8260B	04/21/07	1
TPH (GC/FID) High Fraction	72.	5.3	mg/kg	3546/DRO	04/25/07	1
Surrogate Recovery (50-150)						
o-Terphenyl	83.6		% Rec.	3546/DRO	04/25/07	1
TPH as Waste Oil						
Misc. TPH (C10-C40)	95.	5.3	mg/kg	8015M	04/24/07	1
Surrogate Recovery						
o-Terphenyl	115.		% Rec.	8015M	04/24/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289862-02

Site ID :

Project # : 046-7E014

Date Received : April 20, 2007
Description : Staten Island

Sample ID : B-10 3-8 FT

Collected By : A. Hill
Collection Date : 04/18/07 10:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Base/Neutral Extractables						
Acenaphthene	BDL	0.44	mg/kg	8270C	04/24/07	1
Acenaphthylene	BDL	0.44	mg/kg	8270C	04/24/07	1
Anthracene	BDL	0.44	mg/kg	8270C	04/24/07	1
Benzo(a)anthracene	0.65	0.44	mg/kg	8270C	04/24/07	1
Benzo(b)fluoranthene	0.66	0.44	mg/kg	8270C	04/24/07	1
Benzo(k)fluoranthene	BDL	0.44	mg/kg	8270C	04/24/07	1
Benzo(g,h,i)perylene	0.48	0.44	mg/kg	8270C	04/24/07	1
Benzo(a)pyrene	0.70	0.44	mg/kg	8270C	04/24/07	1
Chrysene	0.71	0.44	mg/kg	8270C	04/24/07	1
Dibenz(a,h)anthracene	BDL	0.44	mg/kg	8270C	04/24/07	1
Fluoranthene	1.4	0.44	mg/kg	8270C	04/24/07	1
Fluorene	BDL	0.44	mg/kg	8270C	04/24/07	1
Indeno(1,2,3-cd)pyrene	0.45	0.44	mg/kg	8270C	04/24/07	1
Naphthalene	BDL	0.44	mg/kg	8270C	04/24/07	1
Phenanthrene	0.95	0.44	mg/kg	8270C	04/24/07	1
Pyrene	1.2	0.44	mg/kg	8270C	04/24/07	1
Surrogate Recovery						
Nitrobenzene-d5	92.8		% Rec.	8270C	04/24/07	1
2-Fluorobiphenyl	102.		% Rec.	8270C	04/24/07	1
p-Terphenyl-d14	94.6		% Rec.	8270C	04/24/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1221	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1232	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1242	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1248	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1254	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1260	BDL	0.11	mg/kg	8082	04/23/07	5
PCBs Surrogates						
Decachlorobiphenyl	123.		% Rec.	8082	04/23/07	5
Tetrachloro-m-xylene	98.6		% Rec.	8082	04/23/07	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 16:01 Printed: 04/25/07 17:33

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289862-03

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-11 6-8 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 11:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
pH	6.9	6.9@20.8C	su	9045C	04/21/07	1
Total Solids	79.1		%	2540G	04/25/07	1
TPH (GC/FID) Low Fraction	BDL	0.13	mg/kg	5035/GRO	04/24/07	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.1		% Rec.	5035/GRO	04/24/07	1
Volatile Organics						
Acetone	BDL	0.063	mg/kg	8260B	04/21/07	1
Acrylonitrile	BDL	0.013	mg/kg	8260B	04/21/07	1
Benzene	0.0018	0.0013	mg/kg	8260B	04/21/07	1
Bromobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Bromodichloromethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
Bromoform	BDL	0.0013	mg/kg	8260B	04/21/07	1
Bromomethane	BDL	0.0063	mg/kg	8260B	04/21/07	1
n-Butylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
sec-Butylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
tert-Butylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Carbon tetrachloride	BDL	0.0013	mg/kg	8260B	04/21/07	1
Chlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Chlorodibromomethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
Chloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
2-Chloroethyl vinyl ether	BDL	0.063	mg/kg	8260B	04/21/07	1
Chloroform	BDL	0.0063	mg/kg	8260B	04/21/07	1
Chloromethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
2-Chlorotoluene	BDL	0.0013	mg/kg	8260B	04/21/07	1
4-Chlorotoluene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0063	mg/kg	8260B	04/21/07	1
1,2-Dibromoethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
Dibromomethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2-Dichlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,3-Dichlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,4-Dichlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Dichlorodifluoromethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1-Dichloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2-Dichloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1-Dichloroethene	BDL	0.0013	mg/kg	8260B	04/21/07	1
cis-1,2-Dichloroethene	BDL	0.0013	mg/kg	8260B	04/21/07	1
trans-1,2-Dichloroethene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2-Dichloropropane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1-Dichloropropene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,3-Dichloropropane	BDL	0.0013	mg/kg	8260B	04/21/07	1
cis-1,3-Dichloropropene	BDL	0.0013	mg/kg	8260B	04/21/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289862-03

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-11 6-8 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 11:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
trans-1,3-Dichloropropene	BDL	0.0013	mg/kg	8260B	04/21/07	1
2,2-Dichloropropane	BDL	0.0013	mg/kg	8260B	04/21/07	1
Di-isopropyl ether	BDL	0.0013	mg/kg	8260B	04/21/07	1
Ethylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Hexachlorobutadiene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Isopropylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
p-Isopropyltoluene	BDL	0.0013	mg/kg	8260B	04/21/07	1
2-Butanone (MEK)	BDL	0.013	mg/kg	8260B	04/21/07	1
Methylene Chloride	BDL	0.0063	mg/kg	8260B	04/21/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.013	mg/kg	8260B	04/21/07	1
Methyl tert-butyl ether	0.0031	0.0013	mg/kg	8260B	04/21/07	1
Naphthalene	BDL	0.0063	mg/kg	8260B	04/21/07	1
n-Propylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Styrene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0013	mg/kg	8260B	04/21/07	1
Tetrachloroethene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Toluene	BDL	0.0063	mg/kg	8260B	04/21/07	1
1,2,3-Trichlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2,4-Trichlorobenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1,1-Trichloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,1,2-Trichloroethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
Trichloroethene	0.0032	0.0013	mg/kg	8260B	04/21/07	1
Trichlorofluoromethane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2,3-Trichloropropane	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2,4-Trimethylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,2,3-Trimethylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
1,3,5-Trimethylbenzene	BDL	0.0013	mg/kg	8260B	04/21/07	1
Vinyl chloride	BDL	0.0013	mg/kg	8260B	04/21/07	1
Xylenes, Total	BDL	0.0038	mg/kg	8260B	04/21/07	1
Surrogate Recovery						
Toluene-d8	97.0		% Rec.	8260B	04/21/07	1
Dibromofluoromethane	90.3		% Rec.	8260B	04/21/07	1
4-Bromofluorobenzene	82.5		% Rec.	8260B	04/21/07	1
TPH (GC/FID) High Fraction	BDL	5.0	mg/kg	3546/DRO	04/25/07	1
Surrogate Recovery (50-150)						
o-Terphenyl	70.4		% Rec.	3546/DRO	04/25/07	1
TPH as Waste Oil						
Misc. TPH (C10-C40)	16.	5.0	mg/kg	8015M	04/23/07	1
Surrogate Recovery						
o-Terphenyl	60.4		% Rec.	8015M	04/23/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25,2007

ESC Sample # : L289862-03

Site ID :

Project # : 046-7E014

Date Received : April 20, 2007
Description : Staten Island

Sample ID : B-11 6-8 FT

Collected By : A. Hill
Collection Date : 04/18/07 11:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Base/Neutral Extractables						
Acenaphthene	BDL	0.42	mg/kg	8270C	04/24/07	1
Acenaphthylene	BDL	0.42	mg/kg	8270C	04/24/07	1
Anthracene	BDL	0.42	mg/kg	8270C	04/24/07	1
Benzo(a)anthracene	BDL	0.42	mg/kg	8270C	04/24/07	1
Benzo(b)fluoranthene	BDL	0.42	mg/kg	8270C	04/24/07	1
Benzo(k)fluoranthene	BDL	0.42	mg/kg	8270C	04/24/07	1
Benzo(g,h,i)perylene	BDL	0.42	mg/kg	8270C	04/24/07	1
Benzo(a)pyrene	BDL	0.42	mg/kg	8270C	04/24/07	1
Chrysene	BDL	0.42	mg/kg	8270C	04/24/07	1
Dibenz(a,h)anthracene	BDL	0.42	mg/kg	8270C	04/24/07	1
Fluoranthene	BDL	0.42	mg/kg	8270C	04/24/07	1
Fluorene	BDL	0.42	mg/kg	8270C	04/24/07	1
Indeno(1,2,3-cd)pyrene	BDL	0.42	mg/kg	8270C	04/24/07	1
Naphthalene	BDL	0.42	mg/kg	8270C	04/24/07	1
Phenanthrene	BDL	0.42	mg/kg	8270C	04/24/07	1
Pyrene	BDL	0.42	mg/kg	8270C	04/24/07	1
Surrogate Recovery						
Nitrobenzene-d5	100.		% Rec.	8270C	04/24/07	1
2-Fluorobiphenyl	100.		% Rec.	8270C	04/24/07	1
p-Terphenyl-d14	97.2		% Rec.	8270C	04/24/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1221	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1232	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1242	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1248	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1254	BDL	0.11	mg/kg	8082	04/23/07	5
PCB 1260	BDL	0.11	mg/kg	8082	04/23/07	5
PCBs Surrogates						
Decachlorobiphenyl	98.8		% Rec.	8082	04/23/07	5
Tetrachloro-m-xylene	93.6		% Rec.	8082	04/23/07	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 16:01 Printed: 04/25/07 17:33

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25, 2007

ESC Sample # : L289862-04

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-13 2-4 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 12:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	73.5		%	2540G	04/25/07	1
TPH (GC/FID) Low Fraction	BDL	0.14	mg/kg	5035/GRO	04/24/07	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.9		% Rec.	5035/GRO	04/24/07	1
Volatile Organics						
Acetone	BDL	0.068	mg/kg	8260B	04/21/07	1
Acrylonitrile	BDL	0.014	mg/kg	8260B	04/21/07	1
Benzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Bromobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Bromodichloromethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
Bromoform	BDL	0.0014	mg/kg	8260B	04/21/07	1
Bromomethane	BDL	0.0068	mg/kg	8260B	04/21/07	1
n-Butylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
sec-Butylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
tert-Butylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Carbon tetrachloride	BDL	0.0014	mg/kg	8260B	04/21/07	1
Chlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Chlorodibromomethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
Chloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
2-Chloroethyl vinyl ether	BDL	0.068	mg/kg	8260B	04/21/07	1
Chloroform	BDL	0.0068	mg/kg	8260B	04/21/07	1
Chloromethane	0.0025	0.0014	mg/kg	8260B	04/21/07	1
2-Chlorotoluene	BDL	0.0014	mg/kg	8260B	04/21/07	1
4-Chlorotoluene	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0068	mg/kg	8260B	04/21/07	1
1,2-Dibromoethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
Dibromomethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,2-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,3-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,4-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Dichlorodifluoromethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,1-Dichloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,2-Dichloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,1-Dichloroethene	BDL	0.0014	mg/kg	8260B	04/21/07	1
cis-1,2-Dichloroethene	BDL	0.0014	mg/kg	8260B	04/21/07	1
trans-1,2-Dichloroethene	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,2-Dichloropropane	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,1-Dichloropropene	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,3-Dichloropropane	BDL	0.0014	mg/kg	8260B	04/21/07	1
cis-1,3-Dichloropropene	BDL	0.0014	mg/kg	8260B	04/21/07	1
trans-1,3-Dichloropropene	BDL	0.0014	mg/kg	8260B	04/21/07	1
2,2-Dichloropropane	BDL	0.0014	mg/kg	8260B	04/21/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25, 2007

ESC Sample # : L289862-04

Site ID :

Project # : 046-7E014

Date Received : April 20, 2007
Description : Staten Island

Sample ID : B-13 2-4 FT

Collected By : A. Hill
Collection Date : 04/18/07 12:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0014	mg/kg	8260B	04/21/07	1
Ethylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Hexachlorobutadiene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Isopropylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
p-Isopropyltoluene	BDL	0.0014	mg/kg	8260B	04/21/07	1
2-Butanone (MEK)	BDL	0.014	mg/kg	8260B	04/21/07	1
Methylene Chloride	BDL	0.0068	mg/kg	8260B	04/21/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.014	mg/kg	8260B	04/21/07	1
Methyl tert-butyl ether	BDL	0.0014	mg/kg	8260B	04/21/07	1
Naphthalene	BDL	0.0068	mg/kg	8260B	04/21/07	1
n-Propylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Styrene	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0014	mg/kg	8260B	04/21/07	1
Tetrachloroethene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Toluene	BDL	0.0068	mg/kg	8260B	04/21/07	1
1,2,3-Trichlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,2,4-Trichlorobenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,1,1-Trichloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,1,2-Trichloroethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
Trichloroethene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Trichlorofluoromethane	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,2,3-Trichloropropane	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,2,4-Trimethylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,2,3-Trimethylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
1,3,5-Trimethylbenzene	BDL	0.0014	mg/kg	8260B	04/21/07	1
Vinyl chloride	BDL	0.0014	mg/kg	8260B	04/21/07	1
Xylenes, Total	BDL	0.0041	mg/kg	8260B	04/21/07	1
Surrogate Recovery						
Toluene-d8	98.3		% Rec.	8260B	04/21/07	1
Dibromofluoromethane	92.4		% Rec.	8260B	04/21/07	1
4-Bromofluorobenzene	82.2		% Rec.	8260B	04/21/07	1
TPH (GC/FID) High Fraction	18.	5.4	mg/kg	3546/DRO	04/25/07	1
Surrogate Recovery (50-150)						
o-Terphenyl	81.5		% Rec.	3546/DRO	04/25/07	1
TPH as Waste Oil						
Misc. TPH (C10-C40)	170	5.4	mg/kg	8015M	04/24/07	1
Surrogate Recovery						
o-Terphenyl	125.		% Rec.	8015M	04/24/07	1

Base/Neutral Extractables

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

April 25, 2007

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

ESC Sample # : L289862-04

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-13 2-4 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 12:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Acenaphthene	BDL	0.45	mg/kg	8270C	04/24/07	1
Acenaphthylene	BDL	0.45	mg/kg	8270C	04/24/07	1
Anthracene	BDL	0.45	mg/kg	8270C	04/24/07	1
Benzo(a)anthracene	BDL	0.45	mg/kg	8270C	04/24/07	1
Benzo(b)fluoranthene	BDL	0.45	mg/kg	8270C	04/24/07	1
Benzo(k)fluoranthene	BDL	0.45	mg/kg	8270C	04/24/07	1
Benzo(g,h,i)perylene	0.55	0.45	mg/kg	8270C	04/24/07	1
Benzo(a)pyrene	BDL	0.45	mg/kg	8270C	04/24/07	1
Chrysene	BDL	0.45	mg/kg	8270C	04/24/07	1
Dibenz(a,h)anthracene	BDL	0.45	mg/kg	8270C	04/24/07	1
Fluoranthene	BDL	0.45	mg/kg	8270C	04/24/07	1
Fluorene	BDL	0.45	mg/kg	8270C	04/24/07	1
Indeno(1,2,3-cd)pyrene	BDL	0.45	mg/kg	8270C	04/24/07	1
Naphthalene	BDL	0.45	mg/kg	8270C	04/24/07	1
Phenanthrene	BDL	0.45	mg/kg	8270C	04/24/07	1
Pyrene	BDL	0.45	mg/kg	8270C	04/24/07	1
Surrogate Recovery						
Nitrobenzene-d5	101.		% Rec.	8270C	04/24/07	1
2-Fluorobiphenyl	97.0		% Rec.	8270C	04/24/07	1
p-Terphenyl-d14	121.		% Rec.	8270C	04/24/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.12	mg/kg	8082	04/23/07	5
PCB 1221	BDL	0.12	mg/kg	8082	04/23/07	5
PCB 1232	BDL	0.12	mg/kg	8082	04/23/07	5
PCB 1242	BDL	0.12	mg/kg	8082	04/23/07	5
PCB 1248	BDL	0.12	mg/kg	8082	04/23/07	5
PCB 1254	BDL	0.12	mg/kg	8082	04/23/07	5
PCB 1260	BDL	0.12	mg/kg	8082	04/23/07	5
PCBs Surrogates						
Decachlorobiphenyl	98.5		% Rec.	8082	04/23/07	5
Tetrachloro-m-xylene	87.8		% Rec.	8082	04/23/07	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 04/25/07 16:01 Printed: 04/25/07 17:33

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25, 2007

ESC Sample # : L289862-05

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-10 9-10 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Fractional Organic Carbon	0.0054		g C/g soil	D2974	04/24/07	1
Fractional Organic Matter	0.93		%	D2974	04/24/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/25/07 16:01 Printed: 04/25/07 17:33

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L289862-01	o-Terphenyl	J7
	n-Butylbenzene	V3
	1,2-Dibromo-3-Chloropropane	V3
	1,2-Dichlorobenzene	V3
	1,4-Dichlorobenzene	V3
	1,2-Dichloroethane	J3
	Hexachlorobutadiene	V3
	Naphthalene	V3
	1,2,3-Trichlorobenzene	V3
	1,2,4-Trichlorobenzene	V3
	1,2,3-Trimethylbenzene	V3
	4-Bromofluorobenzene	J2
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
L289862-02	1,2-Dichloroethane	J3
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
L289862-03	1,2-Dichloroethane	J3
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
L289862-04	1,2-Dichloroethane	J3
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
V3	(ESC) - Additional QC Info: The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	68-128	64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115	69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127	61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
04/25/07 at 17:33:50

TSR Signing Reports: 044
RX - Priority Rush

Invoice and Hard copy of report to David Russian. Email copy to Paul. ln 4/19/07

Sample: L289862-01 Account: PSISNY Received: 04/20/07 09:00 Due Date: 04/25/07 00:00 RPT Date: 04/25/07 16:01
Accounting Alert.
Sample: L289862-02 Account: PSISNY Received: 04/20/07 09:00 Due Date: 04/25/07 00:00 RPT Date: 04/25/07 16:01

Sample: L289862-03 Account: PSISNY Received: 04/20/07 09:00 Due Date: 04/25/07 00:00 RPT Date: 04/25/07 16:01

Sample: L289862-04 Account: PSISNY Received: 04/20/07 09:00 Due Date: 04/25/07 00:00 RPT Date: 04/25/07 16:01

Sample: L289862-05 Account: PSISNY Received: 04/20/07 09:00 Due Date: 04/25/07 00:00 RPT Date: 04/25/07 16:01

PSI - Schenectady, NY

104 Erie Boulevard.. Ste. 1
Schenectady,NY 12305

Alternate billing information:

Chain of Custody
Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Paul Misiaszek
Email: paul.misiaszek@psiusa.com
Project Description: Staten Island
City/State Collected: Staten Island NY
Phone: (518) 377-9841
FAX: (518) 377-9847
Client Project #: 046-7E014
Lab Project #: PSISNY-0467E014
Collected by (print): A. Hill
Site/Facility ID#:
P.O.#:
Collected by (signature):
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
X Three Day 25%

Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: PSISNY (lab use only)
Template/Prelogin: T42775/P207284
Cooler #: 4/13 B
Shipped Via: FedEX Standard

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	DRO,PCB's 4ozClr-NoPres	SV8270PAHSTARS 4ozAmb-NoPres	TPH Waste Oil 4ozClr-NoPres	TS,pH 2ozClr-NoPres	V8260STARS 40ml/NaHSO4/Syr/MeOH	Vol. Screen/GRO 2ozClr-NoPres	P.O.C. 4oz clr-No pres	Remarks/Contaminant	Sample # (lab only)
B-9 5-7'	G	SS	5-7'	4/19/07	0900	8	X	X	X	X	X	X			L289862-01
B-10 3-8'		SS	3-8'		1030	8	X	X	X	X	X	X			-02
B-11 6-8'		SS	6-8'		1110	8	X	X	X	X	X	X			-03
~~B-12~~ B-13 2-4'		SS	2-4'		1205	8	X	X	X	X	X	X			-04
B-10 9-10'		SS	9-10'		1030	1							X		-05
~~B-13~~															

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

7199 3085 0744

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	4/19/07	1400			OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6° Bottles Received: 31+TB	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-20-7 Time: 9:00	pH Checked: NCF:

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. David Russian
Professional Service Industries, Inc.
4421 Harrison St.

Hillside, IL 60162

Report Summary

Friday May 11, 2007

Report Number: L292288
Samples Received: 04/20/07
Client Project: 046-7E014

Description: Staten Island

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, WA - C1915

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-01

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-9 5-7 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 09:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.5		%	2540G	04/25/07	1
Mercury	0.49	0.024	mg/kg	7471	05/10/07	1
Arsenic	12.	1.2	mg/kg	6010B	05/09/07	1
Barium	240	0.31	mg/kg	6010B	05/09/07	1
Cadmium	1.6	0.31	mg/kg	6010B	05/09/07	1
Chromium	18.	0.61	mg/kg	6010B	05/09/07	1
Lead	2900	0.31	mg/kg	6010B	05/09/07	1
Selenium	7.5	1.2	mg/kg	6010B	05/09/07	1
Silver	BDL	0.61	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:45

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-02

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-10 3-8 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 10:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	74.9		%	2540G	04/25/07	1
Mercury	2.4	0.27	mg/kg	7471	05/10/07	10
Arsenic	10.	1.3	mg/kg	6010B	05/09/07	1
Barium	170	0.33	mg/kg	6010B	05/09/07	1
Cadmium	0.59	0.33	mg/kg	6010B	05/09/07	1
Chromium	12.	0.67	mg/kg	6010B	05/09/07	1
Lead	380	0.33	mg/kg	6010B	05/09/07	1
Selenium	6.8	1.3	mg/kg	6010B	05/09/07	1
Silver	BDL	0.67	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:45

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-03

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-11 6-8 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 11:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.1		%	2540G	04/25/07	1
Mercury	0.058	0.025	mg/kg	7471	05/10/07	1
Arsenic	3.8	1.3	mg/kg	6010B	05/09/07	1
Barium	69.	0.32	mg/kg	6010B	05/09/07	1
Cadmium	BDL	0.32	mg/kg	6010B	05/09/07	1
Chromium	9.2	0.63	mg/kg	6010B	05/09/07	1
Lead	37.	0.32	mg/kg	6010B	05/09/07	1
Selenium	3.0	1.3	mg/kg	6010B	05/09/07	1
Silver	BDL	0.63	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:45

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-04

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : B-13 2-4 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 12:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	73.5		%	2540G	04/25/07	1
Mercury	BDL	0.027	mg/kg	7471	05/10/07	1
Arsenic	2.4	1.4	mg/kg	6010B	05/09/07	1
Barium	26.	0.34	mg/kg	6010B	05/09/07	1
Cadmium	BDL	0.34	mg/kg	6010B	05/09/07	1
Chromium	8.2	0.68	mg/kg	6010B	05/09/07	1
Lead	14.	0.34	mg/kg	6010B	05/09/07	1
Selenium	4.8	1.4	mg/kg	6010B	05/09/07	1
Silver	BDL	0.68	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:45

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-05

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-5 2-5 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 14:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.2		%	2540G	04/23/07	1
Mercury	0.071	0.024	mg/kg	7471	05/10/07	1
Arsenic	10.	1.2	mg/kg	6010B	05/09/07	1
Barium	34.	0.30	mg/kg	6010B	05/09/07	1
Cadmium	BDL	0.30	mg/kg	6010B	05/09/07	1
Chromium	5.0	0.61	mg/kg	6010B	05/09/07	1
Lead	86.	0.30	mg/kg	6010B	05/09/07	1
Selenium	8.9	1.2	mg/kg	6010B	05/09/07	1
Silver	BDL	0.61	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:45

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-06

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-6 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 14:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	80.2		%	2540G	04/23/07	1
Mercury	0.066	0.020	mg/kg	7471	05/10/07	1
Arsenic	13.	1.2	mg/kg	6010B	05/09/07	1
Barium	130	0.31	mg/kg	6010B	05/09/07	1
Cadmium	0.43	0.31	mg/kg	6010B	05/09/07	1
Chromium	7.7	0.62	mg/kg	6010B	05/09/07	1
Lead	130	0.31	mg/kg	6010B	05/09/07	1
Selenium	16.	1.2	mg/kg	6010B	05/09/07	1
Silver	BDL	0.62	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:45

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-07

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-7 2-5 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 15:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.4		%	2540G	04/23/07	1
Mercury	0.041	0.020	mg/kg	7471	05/10/07	1
Arsenic	3.6	1.2	mg/kg	6010B	05/09/07	1
Barium	17.	0.30	mg/kg	6010B	05/09/07	1
Cadmium	BDL	0.30	mg/kg	6010B	05/09/07	1
Chromium	4.5	0.60	mg/kg	6010B	05/09/07	1
Lead	26.	0.30	mg/kg	6010B	05/09/07	1
Selenium	3.5	1.2	mg/kg	6010B	05/09/07	1
Silver	BDL	0.60	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:45

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-08

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-8 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 16:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	80.9		%	2540G	04/23/07	1
Mercury	0.28	0.020	mg/kg	7471	05/10/07	1
Arsenic	8.2	1.2	mg/kg	6010B	05/09/07	1
Barium	51.	0.31	mg/kg	6010B	05/09/07	1
Cadmium	0.72	0.31	mg/kg	6010B	05/09/07	1
Chromium	7.3	0.62	mg/kg	6010B	05/09/07	1
Lead	210	0.31	mg/kg	6010B	05/09/07	1
Selenium	1.9	1.2	mg/kg	6010B	05/09/07	1
Silver	BDL	0.62	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:45

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-09

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-2 2-4 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 11:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.5		%	2540G	04/23/07	1
Mercury	0.22	0.020	mg/kg	7471	05/10/07	1
Arsenic	11.	1.2	mg/kg	6010B	05/09/07	1
Barium	120	0.31	mg/kg	6010B	05/09/07	1
Cadmium	2.7	0.31	mg/kg	6010B	05/09/07	1
Chromium	15.	0.61	mg/kg	6010B	05/09/07	1
Lead	160	0.31	mg/kg	6010B	05/09/07	1
Selenium	13.	1.2	mg/kg	6010B	05/09/07	1
Silver	BDL	0.61	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:45

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-10

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-2 5-8 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 11:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	37.2		%	2540G	04/23/07	1
Mercury	0.058	0.020	mg/kg	7471	05/10/07	1
Arsenic	3.0	2.7	mg/kg	6010B	05/09/07	1
Barium	65.	0.67	mg/kg	6010B	05/09/07	1
Cadmium	0.70	0.67	mg/kg	6010B	05/09/07	1
Chromium	30.	1.3	mg/kg	6010B	05/09/07	1
Lead	130	0.67	mg/kg	6010B	05/09/07	1
Selenium	5.4	2.7	mg/kg	6010B	05/09/07	1
Silver	BDL	1.3	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:46

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-11

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-1 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 10:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	70.4		%	2540G	04/23/07	1
Mercury	0.19	0.020	mg/kg	7471	05/10/07	1
Arsenic	6.3	1.4	mg/kg	6010B	05/09/07	1
Barium	22.	0.36	mg/kg	6010B	05/09/07	1
Cadmium	0.46	0.36	mg/kg	6010B	05/09/07	1
Chromium	8.5	0.71	mg/kg	6010B	05/09/07	1
Lead	110	0.36	mg/kg	6010B	05/09/07	1
Selenium	3.2	1.4	mg/kg	6010B	05/09/07	1
Silver	BDL	0.71	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:46

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-12

Site ID :

Project # : 046-7E014

Date Received : April 19, 2007
Description : Staten Island

Sample ID : B-4 2-5 FT

Collected By : A. Hill
Collection Date : 04/18/07 13:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	80.3		%	2540G	04/23/07	1
Mercury	0.17	0.020	mg/kg	7471	05/10/07	1
Arsenic	8.6	1.2	mg/kg	6010B	05/09/07	1
Barium	140	0.31	mg/kg	6010B	05/09/07	1
Cadmium	0.62	0.31	mg/kg	6010B	05/09/07	1
Chromium	14.	0.62	mg/kg	6010B	05/09/07	1
Lead	150	0.31	mg/kg	6010B	05/09/07	1
Selenium	14.	1.2	mg/kg	6010B	05/09/07	1
Silver	BDL	0.62	mg/kg	6010B	05/09/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:46

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 11,2007

ESC Sample # : L292288-13

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-3 6-9 FT

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 12:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.4		%	2540G	04/23/07	1
Mercury	0.66	0.10	mg/kg	7471	05/10/07	5
Arsenic	16.	6.3	mg/kg	6010B	05/09/07	5
Barium	190	1.6	mg/kg	6010B	05/09/07	5
Cadmium	2.8	1.6	mg/kg	6010B	05/09/07	5
Chromium	38.	3.1	mg/kg	6010B	05/09/07	5
Lead	2000	1.6	mg/kg	6010B	05/09/07	5
Selenium	38.	6.3	mg/kg	6010B	05/09/07	5
Silver	BDL	3.1	mg/kg	6010B	05/09/07	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 05/11/07 14:44 Printed: 05/11/07 14:46

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L292288-13	Silver	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	68-128	64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115	69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127	61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
05/11/07 at 14:46:05

TSR Signing Reports: 044
R3 - Rush: Two Day

Invoice and Hard copy of report to David Russian. Email copy to Paul. ln 4/19/07

Sample: L292288-01 Account: PSISNY Received: 04/20/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289862-01 jg-5/8
Sample: L292288-02 Account: PSISNY Received: 04/20/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289862-02 jg-5/8
Sample: L292288-03 Account: PSISNY Received: 04/20/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289862-03 jg-5/8
Sample: L292288-04 Account: PSISNY Received: 04/20/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289862-04 jg-5/8
Sample: L292288-05 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289635-01 jg-5/8
Sample: L292288-06 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289635-02 jg-5/8
Sample: L292288-07 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289635-03 jg-5/8
Sample: L292288-08 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289635-04 jg-5/8
Sample: L292288-09 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289637-01 jg-5/8
Sample: L292288-10 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289637-02 jg-5/8
Sample: L292288-11 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289637-03 jg-5/8
Sample: L292288-12 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289637-05 jg-5/8
Sample: L292288-13 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/10/07 00:00 RPT Date: 05/11/07 14:44
Relogged from L289637-07 jg-5/8

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. David Russian
Professional Service Industries, Inc.
4421 Harrison St.

Hillside, IL 60162

Report Summary

Thursday May 24, 2007

Report Number: L294208
Samples Received: 04/19/07
Client Project: 046-7E014

Description: Staten Island

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Leslie Newton
Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.
2 Samples Reported: 05/24/07 10:20 Printed: 05/24/07 11:50

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 24,2007

ESC Sample # : L294208-01

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-9 5-7 FT

Project : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 11:40

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	05/22/07 1005	LJN	1
Lead	2.4	0.050	mg/l	5.0	6010B	05/22/07 1612	LF	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/24/07 10:20 Printed: 05/24/07 11:52

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

May 24,2007

ESC Sample # : L294208-02

Date Received : April 19, 2007
Description : Staten Island

Site ID :

Sample ID : B-4 2-5 FT

Project : 046-7E014

Collected By : A. Hill
Collection Date : 04/18/07 13:15

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	05/23/07 1000	AJN	1
Lead	BDL	0.050	mg/l	5.0	6010B	05/24/07 0410	JDB	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/24/07 10:20 Printed: 05/24/07 11:52

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L294208-02	Lead	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	68-128	64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115	69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127	61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
05/24/07 at 11:52:39

TSR Signing Reports: 044
R3 - Rush: Two Day

Invoice and Hard copy of report to David Russian. Email copy to Paul. ln 4/19/07

Sample: L294208-01 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/23/07 00:00 RPT Date: 05/24/07 10:20
Relogged from L289862-01 jg-5/8 Relogged from L29228862-01 MS 5/18
Sample: L294208-02 Account: PSISNY Received: 04/19/07 09:00 Due Date: 05/24/07 00:00 RPT Date: 05/24/07 10:20
Relogged from L289637-07 jg-5/8. Relogged from L292288-13 Ms 5/18

ATTACHMENT 5

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. David Russian
Professional Service Industries, Inc.
4421 Harrison St.

Hillside, IL 60162

Report Summary

Wednesday April 25, 2007

Report Number: L289849
Samples Received: 04/20/07
Client Project: 046-7E014

Description: Staten Island

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Reviewed By: Leslie Newton
Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, WA - C1915

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25, 2007

ESC Sample # : L289849-01

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : TMW-1

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/19/07 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.00020	mg/l	7470A	04/22/07	1
Arsenic	BDL	0.020	mg/l	6010B	04/21/07	1
Barium	0.099	0.0050	mg/l	6010B	04/21/07	1
Cadmium	BDL	0.0050	mg/l	6010B	04/21/07	1
Chromium	BDL	0.010	mg/l	6010B	04/21/07	1
Lead	0.11	0.0050	mg/l	6010B	04/21/07	1
Selenium	0.10	0.020	mg/l	6010B	04/21/07	1
Silver	BDL	0.010	mg/l	6010B	04/21/07	1
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/23/07	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/23/07	1
Benzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/23/07	1
Bromoform	BDL	0.0010	mg/l	8260B	04/23/07	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/23/07	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/23/07	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/23/07	1
Chloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/23/07	1
Chloroform	BDL	0.0050	mg/l	8260B	04/23/07	1
Chloromethane	BDL	0.0010	mg/l	8260B	04/23/07	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/23/07	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/23/07	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/23/07	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Dichlorodifluoromethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/23/07	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/23/07	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/23/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25, 2007

ESC Sample # : L289849-01

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : TMW-1

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/19/07 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/23/07	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/23/07	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/23/07	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/23/07	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/23/07	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Hexachlorobutadiene	BDL	0.0010	mg/l	8260B	04/23/07	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/23/07	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/23/07	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/23/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/23/07	1
Methyl tert-butyl ether	0.0012	0.0010	mg/l	8260B	04/23/07	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/23/07	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Styrene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	04/23/07	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	04/23/07	1
Toluene	BDL	0.0050	mg/l	8260B	04/23/07	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
Trichloroethene	BDL	0.0010	mg/l	8260B	04/23/07	1
Trichlorofluoromethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/23/07	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/23/07	1
Surrogate Recovery						
Toluene-d8	93.8		% Rec.	8260B	04/23/07	1
Dibromofluoromethane	96.5		% Rec.	8260B	04/23/07	1
4-Bromofluorobenzene	98.6		% Rec.	8260B	04/23/07	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.010	mg/l	8270C	04/23/07	1
Acenaphthylene	BDL	0.010	mg/l	8270C	04/23/07	1
Anthracene	BDL	0.010	mg/l	8270C	04/23/07	1
Benzo(a)anthracene	BDL	0.010	mg/l	8270C	04/23/07	1
Benzo(b)fluoranthene	BDL	0.010	mg/l	8270C	04/23/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25, 2007

ESC Sample # : L289849-01

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : TMW-1

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/19/07 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.010	mg/l	8270C	04/23/07	1
Benzo(g,h,i)perylene	BDL	0.010	mg/l	8270C	04/23/07	1
Benzo(a)pyrene	BDL	0.010	mg/l	8270C	04/23/07	1
Chrysene	BDL	0.010	mg/l	8270C	04/23/07	1
Dibenz(a,h)anthracene	BDL	0.010	mg/l	8270C	04/23/07	1
Fluoranthene	BDL	0.010	mg/l	8270C	04/23/07	1
Fluorene	BDL	0.010	mg/l	8270C	04/23/07	1
Indeno(1,2,3-cd)pyrene	BDL	0.010	mg/l	8270C	04/23/07	1
Naphthalene	BDL	0.010	mg/l	8270C	04/23/07	1
Phenanthrene	BDL	0.010	mg/l	8270C	04/23/07	1
Pyrene	BDL	0.010	mg/l	8270C	04/23/07	1
Surrogate Recovery						
Nitrobenzene-d5	45.4		% Rec.	8270C	04/23/07	1
2-Fluorobiphenyl	53.8		% Rec.	8270C	04/23/07	1
p-Terphenyl-d14	54.7		% Rec.	8270C	04/23/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1221	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1232	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1242	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1248	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1254	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1260	BDL	0.0050	mg/l	8082	04/25/07	10
PCBs Surrogates						
Decachlorobiphenyl	60.0		% Rec.	8082	04/25/07	10
Tetrachloro-m-xylene	90.0		% Rec.	8082	04/25/07	10

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/25/07 17:22 Printed: 04/25/07 17:22

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25, 2007

ESC Sample # : L289849-02

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : TMW-2

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/19/07 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.00020	mg/l	7470A	04/22/07	1
Arsenic	0.023	0.020	mg/l	6010B	04/21/07	1
Barium	0.044	0.0050	mg/l	6010B	04/21/07	1
Cadmium	BDL	0.0050	mg/l	6010B	04/21/07	1
Chromium	BDL	0.010	mg/l	6010B	04/21/07	1
Lead	0.012	0.0050	mg/l	6010B	04/21/07	1
Selenium	0.13	0.020	mg/l	6010B	04/21/07	1
Silver	BDL	0.010	mg/l	6010B	04/21/07	1
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/23/07	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/23/07	1
Benzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/23/07	1
Bromoform	BDL	0.0010	mg/l	8260B	04/23/07	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/23/07	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/23/07	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/23/07	1
Chloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/23/07	1
Chloroform	BDL	0.0050	mg/l	8260B	04/23/07	1
Chloromethane	BDL	0.0010	mg/l	8260B	04/23/07	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/23/07	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/23/07	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/23/07	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Dichlorodifluoromethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/23/07	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/23/07	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/23/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25, 2007

ESC Sample # : L289849-02

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : TMW-2

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/19/07 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/23/07	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/23/07	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/23/07	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/23/07	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/23/07	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Hexachlorobutadiene	BDL	0.0010	mg/l	8260B	04/23/07	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/23/07	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/23/07	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/23/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/23/07	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	04/23/07	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/23/07	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Styrene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	04/23/07	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	04/23/07	1
Toluene	BDL	0.0050	mg/l	8260B	04/23/07	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/23/07	1
Trichloroethene	0.0010	0.0010	mg/l	8260B	04/23/07	1
Trichlorofluoromethane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/23/07	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/23/07	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/23/07	1
Surrogate Recovery						
Toluene-d8	94.0		% Rec.	8260B	04/23/07	1
Dibromofluoromethane	97.5		% Rec.	8260B	04/23/07	1
4-Bromofluorobenzene	97.9		% Rec.	8260B	04/23/07	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.010	mg/l	8270C	04/23/07	1
Acenaphthylene	BDL	0.010	mg/l	8270C	04/23/07	1
Anthracene	BDL	0.010	mg/l	8270C	04/23/07	1
Benzo(a)anthracene	BDL	0.010	mg/l	8270C	04/23/07	1
Benzo(b)fluoranthene	BDL	0.010	mg/l	8270C	04/23/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 25, 2007

ESC Sample # : L289849-02

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : TMW-2

Project # : 046-7E014

Collected By : A. Hill
Collection Date : 04/19/07 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.010	mg/l	8270C	04/23/07	1
Benzo(g,h,i)perylene	BDL	0.010	mg/l	8270C	04/23/07	1
Benzo(a)pyrene	BDL	0.010	mg/l	8270C	04/23/07	1
Chrysene	BDL	0.010	mg/l	8270C	04/23/07	1
Dibenz(a,h)anthracene	BDL	0.010	mg/l	8270C	04/23/07	1
Fluoranthene	BDL	0.010	mg/l	8270C	04/23/07	1
Fluorene	BDL	0.010	mg/l	8270C	04/23/07	1
Indeno(1,2,3-cd)pyrene	BDL	0.010	mg/l	8270C	04/23/07	1
Naphthalene	BDL	0.010	mg/l	8270C	04/23/07	1
Phenanthrene	BDL	0.010	mg/l	8270C	04/23/07	1
Pyrene	BDL	0.010	mg/l	8270C	04/23/07	1
Surrogate Recovery						
Nitrobenzene-d5	54.7		% Rec.	8270C	04/23/07	1
2-Fluorobiphenyl	63.2		% Rec.	8270C	04/23/07	1
p-Terphenyl-d14	60.7		% Rec.	8270C	04/23/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1221	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1232	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1242	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1248	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1254	BDL	0.0050	mg/l	8082	04/25/07	10
PCB 1260	BDL	0.0050	mg/l	8082	04/25/07	10
PCBs Surrogates						
Decachlorobiphenyl	80.0		% Rec.	8082	04/25/07	10
Tetrachloro-m-xylene	100.		% Rec.	8082	04/25/07	10

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/25/07 17:22 Printed: 04/25/07 17:22

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L289849-01	trans-1,3-Dichloropropene	J4
	2-Butanone (MEK)	J4
	p-Terphenyl-d14	J2
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
L289849-02	trans-1,3-Dichloropropene	J4
	2-Butanone (MEK)	J4
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J4	The associated batch QC was outside the established quality control range for accuracy.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	68-128	64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115	69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127	61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
04/25/07 at 17:22:57

TSR Signing Reports: 044
RX - Priority Rush

Invoice and Hard copy of report to David Russian. Email copy to Paul. ln 4/19/07

Sample: L289849-01 Account: PSISNY Received: 04/20/07 09:00 Due Date: 04/25/07 00:00 RPT Date: 04/25/07 17:22

Sample: L289849-02 Account: PSISNY Received: 04/20/07 09:00 Due Date: 04/25/07 00:00 RPT Date: 04/25/07 17:22

PSI - Schenectady, NY

104 Erie Boulevard.. Ste. 1
Schenectady,NY 12305

Alternate billing information:

Report to: Mr. Paul Misiaszek

Email: paul.misiaszek@psiusa.com

Project Description: Staten Island

City/State Collected: Staten Island NY

Phone: (518) 377-9841
FAX: (518) 377-9847

Client Project #: 046-7E014

Lab Project #: PSISNY-0467E014

Collected by (print): A. Hill

Site/Facility ID#:

P.O.#:

Collected by (signature):

Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
X Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Chain of Custody
Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: PSISNY (lab use only)
Template/Prelogin: T42773/ P207288
Cooler #:
Shipped Via: FedEX Standard

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	PCB's 1L-Amb NoPres	RCRA Metals 500mlHDPE-HNO3	SV8270PAHSTARS 1L-Amb-NoPres	V8260STARS 40mlAmb-HCl				Remarks/Contaminant	Sample # (lab only)
TMW-1	G	GW		4/19/07	1430	7	X	X	X	X					6289849-01
TMW-2	↓	GW		↓	1500	7	X	X	X	X					-02
		GW				7	X	X	X	X					

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

7993085 0836

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
	4/19/07	1525			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.5°C Bottles Received: 14 ftb	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/20/07 Time: 9:00	pH Checked: NCF:

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. David Russian
Professional Service Industries, Inc.
4421 Harrison St.

Hillside, IL 60162

Report Summary

Friday April 27, 2007

Report Number: L289935
Samples Received: 04/20/07
Client Project: 046-7E014

Description: Staten Island

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Reviewed By: Leslie Newton
Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, WA - C1915

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 27, 2007

ESC Sample # : L289935-01

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : TMW-3

Project # : 046-7E014

Collected By : A Hill
Collection Date : 04/19/07 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	0.0074	0.0010	mg/l	7470A	04/27/07	5
Arsenic	0.13	0.020	mg/l	6010B	04/23/07	1
Barium	2.0	0.0050	mg/l	6010B	04/23/07	1
Cadmium	BDL	0.0050	mg/l	6010B	04/23/07	1
Chromium	0.26	0.010	mg/l	6010B	04/23/07	1
Lead	4.1	0.0050	mg/l	6010B	04/23/07	1
Selenium	BDL	0.020	mg/l	6010B	04/23/07	1
Silver	BDL	0.010	mg/l	6010B	04/23/07	1
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/24/07	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/24/07	1
Benzene	BDL	0.0010	mg/l	8260B	04/24/07	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/24/07	1
Bromoform	BDL	0.0010	mg/l	8260B	04/24/07	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/24/07	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/24/07	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/24/07	1
Chloroethane	BDL	0.0010	mg/l	8260B	04/24/07	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/24/07	1
Chloroform	BDL	0.0050	mg/l	8260B	04/24/07	1
Chloromethane	BDL	0.0010	mg/l	8260B	04/24/07	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/24/07	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/24/07	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/24/07	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/24/07	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/24/07	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
Dichlorodifluoromethane	BDL	0.0010	mg/l	8260B	04/24/07	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/24/07	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/24/07	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/24/07	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/24/07	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/24/07	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/24/07	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/24/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 27, 2007

ESC Sample # : L289935-01

Site ID :

Project # : 046-7E014

Date Received : April 20, 2007
Description : Staten Island

Sample ID : TMW-3

Collected By : A Hill
Collection Date : 04/19/07 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/24/07	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/24/07	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/24/07	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/24/07	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/24/07	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
Hexachlorobutadiene	BDL	0.0010	mg/l	8260B	04/24/07	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/24/07	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/24/07	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/24/07	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/24/07	1
Methyl tert-butyl ether	0.0070	0.0010	mg/l	8260B	04/24/07	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/24/07	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
Styrene	BDL	0.0010	mg/l	8260B	04/24/07	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/24/07	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/24/07	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	04/24/07	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	04/24/07	1
Toluene	BDL	0.0050	mg/l	8260B	04/24/07	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/24/07	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/24/07	1
Trichloroethene	BDL	0.0010	mg/l	8260B	04/24/07	1
Trichlorofluoromethane	BDL	0.0010	mg/l	8260B	04/24/07	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	04/24/07	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/24/07	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/24/07	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/24/07	1
Surrogate Recovery						
Toluene-d8	95.5		% Rec.	8260B	04/24/07	1
Dibromofluoromethane	103.		% Rec.	8260B	04/24/07	1
4-Bromofluorobenzene	98.5		% Rec.	8260B	04/24/07	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.010	mg/l	8270C	04/26/07	1
Acenaphthylene	BDL	0.010	mg/l	8270C	04/26/07	1
Anthracene	BDL	0.010	mg/l	8270C	04/26/07	1
Benzo(a)anthracene	BDL	0.010	mg/l	8270C	04/26/07	1
Benzo(b)fluoranthene	BDL	0.010	mg/l	8270C	04/26/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. David Russian
PSI - Schenectady, NY
4421 Harrison St.
Hillside, IL 60162

April 27, 2007

ESC Sample # : L289935-01

Date Received : April 20, 2007
Description : Staten Island

Site ID :

Sample ID : TMW-3

Project # : 046-7E014

Collected By : A Hill
Collection Date : 04/19/07 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.010	mg/l	8270C	04/26/07	1
Benzo(g,h,i)perylene	BDL	0.010	mg/l	8270C	04/26/07	1
Benzo(a)pyrene	BDL	0.010	mg/l	8270C	04/26/07	1
Chrysene	BDL	0.010	mg/l	8270C	04/26/07	1
Dibenz(a,h)anthracene	BDL	0.010	mg/l	8270C	04/26/07	1
Fluoranthene	BDL	0.010	mg/l	8270C	04/26/07	1
Fluorene	BDL	0.010	mg/l	8270C	04/26/07	1
Indeno(1,2,3-cd)pyrene	BDL	0.010	mg/l	8270C	04/26/07	1
Naphthalene	BDL	0.010	mg/l	8270C	04/26/07	1
Phenanthrene	BDL	0.010	mg/l	8270C	04/26/07	1
Pyrene	BDL	0.010	mg/l	8270C	04/26/07	1
Surrogate Recovery						
Nitrobenzene-d5	72.4		% Rec.	8270C	04/26/07	1
2-Fluorobiphenyl	78.4		% Rec.	8270C	04/26/07	1
p-Terphenyl-d14	83.0		% Rec.	8270C	04/26/07	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.0050	mg/l	8082	04/26/07	10
PCB 1221	BDL	0.0050	mg/l	8082	04/26/07	10
PCB 1232	BDL	0.0050	mg/l	8082	04/26/07	10
PCB 1242	BDL	0.0050	mg/l	8082	04/26/07	10
PCB 1248	BDL	0.0050	mg/l	8082	04/26/07	10
PCB 1254	BDL	0.0050	mg/l	8082	04/26/07	10
PCB 1260	BDL	0.0050	mg/l	8082	04/26/07	10
PCBs Surrogates						
Decachlorobiphenyl	185.		% Rec.	8082	04/26/07	10
Tetrachloro-m-xylene	145.		% Rec.	8082	04/26/07	10

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/27/07 14:12 Printed: 04/27/07 15:25

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L289935-01	trans-1,3-Dichloropropene	J4
	Hexachlorobutadiene	J4
	1,1,2-Trichloro-1,2,2-trifluoroethane	J4
	PCB 1016	O
	PCB 1221	O
	PCB 1232	O
	PCB 1242	O
	PCB 1248	O
	PCB 1254	O
	PCB 1260	O
	Decachlorobiphenyl	J1
	Tetrachloro-m-xylene	J1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J4	The associated batch QC was outside the established quality control range for accuracy.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	68-128	64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115	69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127	61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
04/27/07 at 15:25:39

TSR Signing Reports: 044
R4 - Rush: Three Day

Invoice and Hard copy of report to David Russian. Email copy to Paul. ln 4/19/07

Sample: L289935-01 Account: PSISNY Received: 04/20/07 09:00 Due Date: 04/27/07 00:00 RPT Date: 04/27/07 14:12

PSI - Schenectady, NY

104 Erie Boulevard., Ste. 1
Schenectady,NY 12305

Alternate billing information:

Report to: Mr. Paul Misiaszek

Email: paul.misiaszek@psiusa.com

Project Description: Staten Island

City/State Collected: Staten Island NY

Phone: (518) 377-9841
FAX: (518) 377-9847

Client Project #: 046-7E014

Lab Project #: PSISNY-0467E014

Collected by (print): A. Hill

Site/Facility ID#:

P.O.#:

Collected by (signature): [signature]

Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	PCBs 1L-Amb-NoPres	RCRA Metals 500mlHDPE-HNO3	SV8270PAHSTARS 1L-Amb-NoPres	V8260STARS 40mlAmb-HCl				Remarks/Contaminant	Sample # (lab only)
TMW-3	G	GW		4/19/07	1600	7	X	X	X	X					1789135-01
		GW				7	X	X	X	X					
		GW				7	X	X	X	X					

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

7199 3085 0847

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
[signature]					ph adjusted @ lab - [illegible]
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4°C Bottles Received: 7+1TB	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/20/07 Time: 0900	pH Checked: NCF:

Chain of Custody
Page ___ of ___

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: PSISNY (lab use only)
Template/Prelogin: T42773/P207287
Cooler #:
Shipped Via: FedEX Standard

APPENDIX E

Non-Hazardous Waste Disposal Manifest

5163

MXI

MXI Maumee Express, Inc. BR21863 MANIFEST

297 Zimmerman Lane
Langhorne, PA 19047
Phone: (267) 590-0043
Fax: (267) 590-0050

26319 Old Trail Road
Abingdon, VA 24210
Phone: (276) 628-1156
Fax: (276) 628-4435

14750 Boyle Ave.
Fontana, CA 92337
Phone: (909) 350-9090
Fax: (909) 350-9287

Transporter EPA ID#: NJD986607380

№ 4293

GENERATOR NAME / MAILING ADDRESS	TELEPHONE NUMBER:	GENERATOR EPA ID NO.:
DEVON SELF STORAGE 3131 RICHMOND TERRACE STATEN ISLAND NY 10303 GENERATOR SITE ADDRESS (IF DIFFERENT)	631-232-2600 TRACTOR 506 / TRAILER	NOT REQUIRed APPOINTMENT TIME :

DRIVER PRINT NAME	SIGNATURE	BOX SPOTTED	BOX REMOVED	TIME AT GENERATOR (MILITARY TIME ONLY)
CARL ADELHOCK	C Adelhock			ARRIVAL TIME : / DEPARTURE TIME :

COMMENTS OR DELAYS AT GENERATOR / EQUIPMENT & MATERIALS USED

STATE MANIFEST NO.:

(X) HM		PROPER U.S. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	APPROVAL NUMBER
	1	NON REGULATED MATERIAL SOIL CUTTINGS				2	DM	900	P	DEVONY 001-LF
	2	NON REGULATED MATERIAL PURGE WATER				1	DM	20	G	DEVONY 002-SS
	3									
	4									

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION

24 HOUR EMERGENCY TELEPHONE NUMBER
276-628-1156

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transporter named. The Treatment, Storage or Disposal Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the forgoing is true and correct to the best of my knowledge.

Payment to the contractor/broker for waste removal does not constitute payment to the carrier and if the contractor/broker does not pay the carrier, the generator is obligated to pay the agreed rate offered to the contractor/broker.

GENERATOR'S NAME (PRINT)	GENERATOR'S SIGNATURE	DATE LOADED
Ken Stockman	X [signature] I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT	9 / 26 / 11 MO. DAY YR.

TSDF NAME / ADDRESS	TELEPHONE NUMBER	TSDF EPA ID NO.:
MXI Enviromental Services 26319 Old Trail Road Abingdon, VA 24210	(276) 628-1156 TRACTOR / TRAILER	VAR000503920 APPOINTMENT TIME :

DRIVER UNLOADING PRINT NAME	SIGNATURE	BOX SPOTTED	BOX REMOVED	TIME AT TSDF (MILITARY TIME ONLY)
				ARRIVAL TIME : / DEPARTURE TIME :

COMMENTS OR DELAYS AT TSDF

EQUIPMENT USED

TSDF PRINT NAME / TITLE	TSDF SIGNATURE	DATE UNLOADED
Scott Cottrill, MRF Mgr.	X Scott Cottrill	10 / 5 / 11 MO. DAY YR.

ADDITIONAL INFORMATION:

White: MXI Original **Canary**: Retained by TSDF **Pink**: Retained by Transporter **Goldenrod**: Retained by Generator

APPENDIX F

Soil Boring and Monitoring Well Logs

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

WELL CONSTRUCTION LOG

WELL NO.	NORTHING	EASTING
B-14/MW-2	**Not Measured**	**Not Measured**

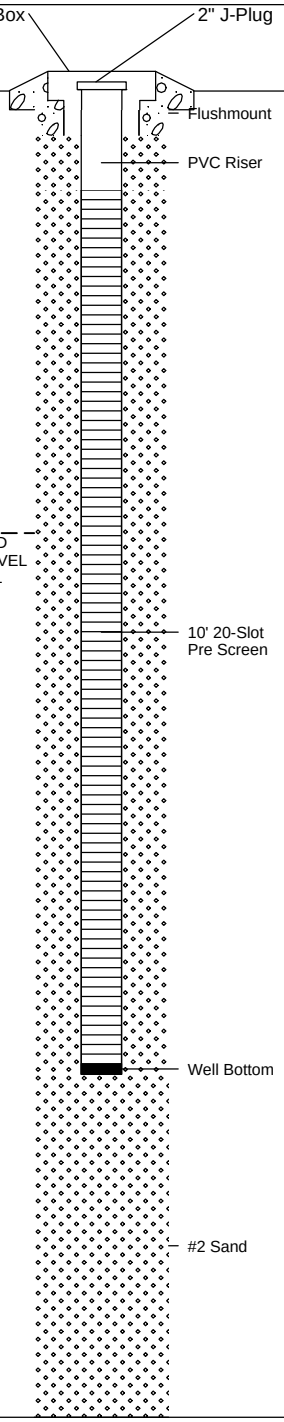
PROJECT NO./NAME	LOCATION
02077.0001Y000 / Devon	**3131 Richmond Terrace**
APPROVED BY: **J. Levine** / LOGGED BY: **L. Livingstone**	**Staten Island, NY**
DRILLING CONTRACTOR/DRILLER: **ADT / Juri**	GEOGRAPHIC AREA

DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 / Geoprobe**	**2" Macro-Core**	**9/8/11-9/8/11**

CASING MAT./DIA.: **PVC / 2-inch**

SCREEN: TYPE **Pre-Packed** MAT. **PVC** TOTAL LENGTH **10.0** ft DIA. **2-inch** SLOT SIZE **20-Slot**

ELEVATION OF: (Feet) GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN **/** GRAVEL PACK SIZES **#2**



Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		FILL (Dark brown, fine to coarse SAND, some gravel, trace silt), moist.	G	0.0	
5		FILL (Dark brown, fine to coarse SAND, some gravel, trace silt), wet.		0.0	
		FILL (Red brown, fine to coarse SAND, trace silt), wet.		8.0	Collect sample B-12/MW-2/7-9'
		FILL (Red brown, fine to coarse SAND, trace silt), wet.		6.4	
10				0.0	
		FILL (Brown to red brown, fine to coarse SAND, trace silt), wet.		0.0	
		FILL (Brown red to tan, fine to coarse SAND, trace silt), wet.		0.0	
15					End of Boring

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

SOIL BORING LOG

WELL NO.	NORTHING	EASTING
B-15	**Not Measured**	**Not Measured**

PROJECT NO./NAME	LOCATION
02077.0001Y000 / Devon	**3131 Richmond Terrace**
APPROVED BY: **J. Levine** / LOGGED BY: **L. Livingstone**	**Staten Island, NY**
DRILLING CONTRACTOR/DRILLER: **ADT / Juri**	GEOGRAPHIC AREA

DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 / Geoprobe**	**2" Macro-Core**	**9/6/11-9/8/11**

LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL
Not Measured	**Not Measured**	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced Concrete.			
		FILL (Medium to dark brown, GRAVEL, some medium to coarse sand), moist.	G	101	
		FILL (Dark brown to black, medium to coarse SAND and fine to coarse GRAVEL, little to trace silt), moist.	G	0.0	
5	GROUND WATER LEVEL 9/8/2011	FILL (Dark brown, fine to coarse SAND, some Silt), wet.		0.0	5-10' ~15% recovery
		FILL (Dark brown, fine to coarse SAND and GRAVEL, little Silt), wet.		567	Collect Sample B-15/7-9'
10				32.4	
		Dark brown to brown, Silt, little clay, organic matterial, moist.		214	Organic odor
		Brown to gray, SILTY CLAY, some fine to medium Sand, moist.		89.2	
		Dark brown, SILT and fine to coarse SAND, wood chips, wet		51.4	Organic odor
15					End of Boring

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

WELL CONSTRUCTION LOG

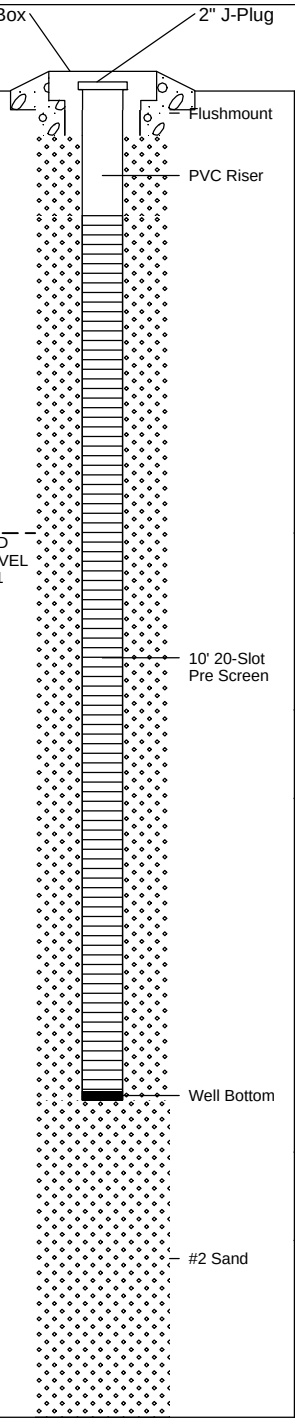
WELL NO.	NORTHING	EASTING
B-16/MW-1	**Not Measured**	**Not Measured**

PROJECT NO./NAME	LOCATION
02077.0001Y000 / Devon	**3131 Richmond Terrace**
APPROVED BY: **J. Levine** / LOGGED BY: **L. Livingstone**	**Staten Island, NY**
DRILLING CONTRACTOR/DRILLER: **ADT / Juri**	GEOGRAPHIC AREA

DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 / Geoprobe**	**2" Macro-Core**	**9/8/11-9/9/11**

CASING MAT./DIA.	SCREEN: TYPE	MAT.	TOTAL LENGTH	DIA.	SLOT SIZE
PVC / 2-inch	**Pre-Packed**	**PVC**	**10.0** ft	**2-inch**	**20-Slot**

ELEVATION OF: (Feet)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GRAVEL PACK SIZES
			/	**#2**



Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
	FILL (Dark brown, fine to coarse SAND and GRAVEL, trace silt), moist.		0.0	
5	FILL (Dark brown to black, fine to coarse SAND and GRAVEL), moist.		0.0	Collect sample B-16/MW-1/5-7'
				5-10' ~50% recovery
	FILL (Dark brown, fine to medium SAND, some silt), moist.		0.0	
	FILL (Tan, fine to coarse SAND), wet.		0.0	
10				
	FILL (Red brown, fine to coarse SAND, trace gravel), wet.		0.0	
	FILL (Red brown, fine to coarse SAND, some gravel, trace silt), wet.		0.0	
15				End of Boring

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

WELL CONSTRUCTION LOG

WELL NO.	NORTHING	EASTING
B-17/MW-3	**Not Measured**	**Not Measured**

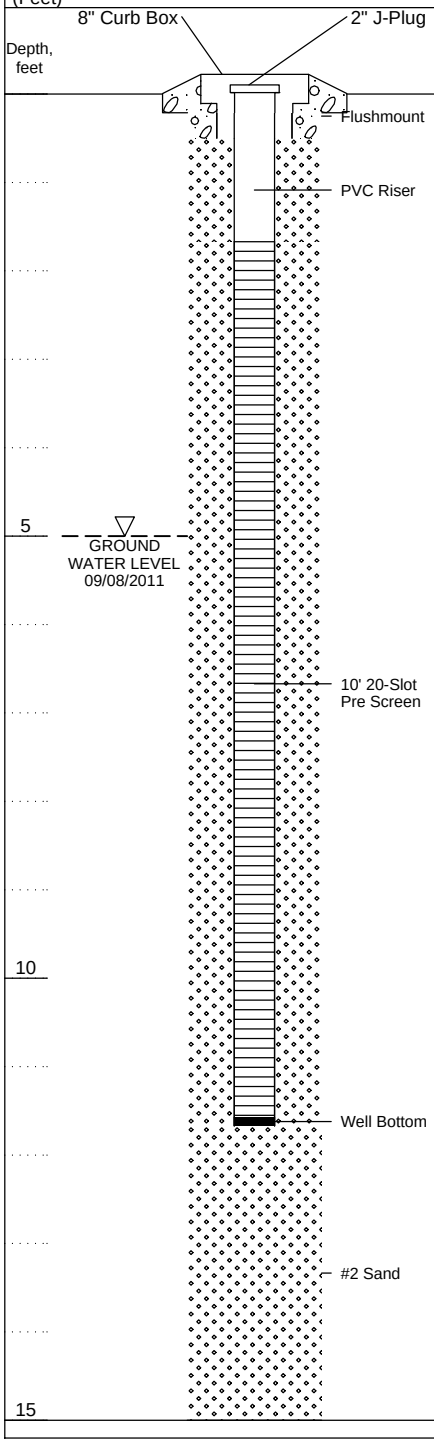
PROJECT NO./NAME	LOCATION
02077.0001Y000 / Devon	**3131 Richmond Terrace**
APPROVED BY: **J. Levine** / LOGGED BY: **L. Livingstone**	**Staten Island, NY**
DRILLING CONTRACTOR/DRILLER: **ADT / Juri**	GEOGRAPHIC AREA

DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 / Geoprobe**	**2" Macro-Core**	**9/8/11-9/8/11**

CASING MAT./DIA.: **PVC / 2-inch**

SCREEN: TYPE **Pre-Packed** MAT. **PVC** TOTAL LENGTH **10.0** ft DIA. **2-inch** SLOT SIZE **20-Slot**

ELEVATION OF: (Feet) GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN **/** GRAVEL PACK SIZES **#2**



Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
	FILL (Dark brown, medium to coarse SAND, some gravel), dry.	G		Collect Sample B-17/MW-3/4-5'
5	FILL (Dark brown, fine to coarse GRAVEL, some medium to coarse sand, trace silt, organic material), wet.		0.0	
	FILL (Dark brown, fine to coarse SAND, little gravel, trace silt), wet.		0.0	
	FILL (Dark brown, fine to coarse SAND, some gravel, trace silt), wet.		0.0	Pieces of shell identified
10	Dark brown to gray, SILTY CLAY, little sand, organic material.		0.0	Organic odor
	Dark brown to black, SILT, organic material, moist.			
15				End of Boring

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

SOIL BORING LOG

WELL NO.	NORTHING	EASTING
B-18	**Not Measured**	**Not Measured**

PROJECT NO./NAME	LOCATION
02077.0001Y000 / Devon	**3131 Richmond Terrace**
APPROVED BY: **J. Levine** / LOGGED BY: **L. Livingstone**	**Staten Island, NY**
DRILLING CONTRACTOR/DRILLER: **ADT / Juri**	GEOGRAPHIC AREA

DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 / Geoprobe**	**2" Macro-Core**	**9/9/11-9/9/11**

LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL
Not Measured	**Not Measured**	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced Concrete.			
		FILL (Dark brown, fine to coarse SAND and GRAVEL), moist.			
5		FILL (Brown, medium to coarse SAND and GRAVEL, trace silt), moist.		5.5	5-10' ~60% recovery Hydrocarbon odor
	GROUND WATER LEVEL	FILL (Dark brown, medium to coarse SAND and GRAVEL, trace silt), wet.		10.0	Collect sample B-18/7-9' Hydrocarbon odor
		FILL (Wood).		80.9	Hydrocarbon odor
10		FILL (Dark brown, coarse SAND and GRAVEL), wet.		2.4	Hydrocarbon odor
		Dark gray to brown, medium to coarse SAND, some silty clay, organic material.		0.0	Organic odor
		Dark brown to gray, SILTY CLAY, organic material, wet.		2.7	Organic odor
15					End of Boring

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

SOIL BORING LOG

WELL NO.	NORTHING	EASTING
B-19	**Not Measured**	**Not Measured**

PROJECT NO./NAME	LOCATION
02077.0001Y000 / Devon	**3131 Richmond Terrace**
APPROVED BY: **J. Levine** / LOGGED BY: **L. Livingstone**	**Staten Island, NY**
DRILLING CONTRACTOR/DRILLER: **ADT / Juri**	GEOGRAPHIC AREA

DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 / Geoprobe**	**2" Macro-Core**	**9/9/11-9/9/11**

LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL
Not Measured	**Not Measured**	

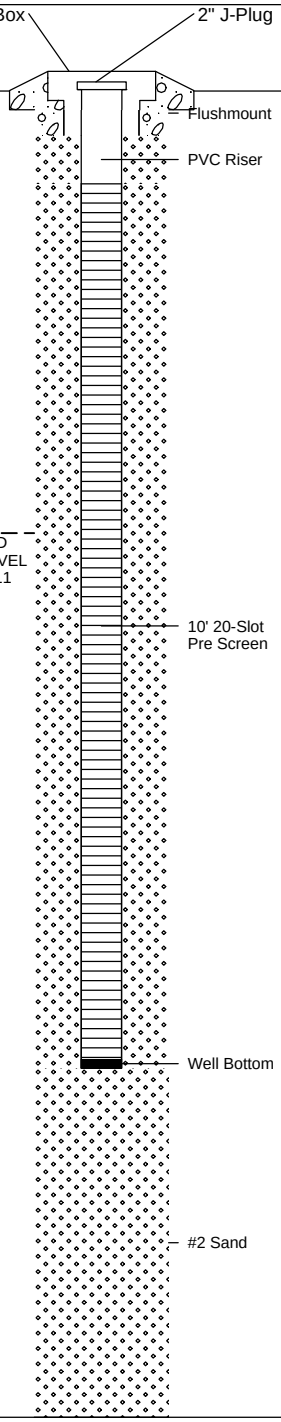
Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced Concrete.			
		FILL (Dark brown to brown, medium to coarse SAND and GRAVEL, wood chips), moist.			
5	GROUND WATER LEVEL 9/9/2011	FILL (Dark brown, medium to coarse SAND and GRAVEL), moist.		5.6	Hydrocarbon odor
		FILL (Black to dark brown, medium to coarse SAND and GRAVEL, trace silt), moist.		58.0	Collect sample B-19/7-8'
		FILL (Brown to dark brown, medium to coarse SAND and GRAVEL, trace silt), wet.		2.8	Hydrocarbon odor
10		FILL (Black, medium to coarse SAND, some Gravel), wet.		5.7	
		Brown to gray, SILT and ORGANIC MATERIAL, moist.		9.3	Hydrocarbon odor
		Dark brown, SILT and ORGANIC MATERIAL, moist.		0.7	Hydrocarbon odor
15					End of Boring

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

WELL CONSTRUCTION LOG

WELL NO. **B-20/MW-4**	NORTHING **Not Measured**	EASTING **Not Measured**		
PROJECT NO./NAME **02077.0001Y000 / Devon**		LOCATION **3131 Richmond Terrace Staten Island, NY**		
APPROVED BY **J. Levine**	LOGGED BY **L. Livingstone**			
DRILLING CONTRACTOR/DRILLER **ADT / Juri**		GEOGRAPHIC AREA		
DRILL BIT DIAMETER/TYPE **2-in. / Drive Sampler**	BOREHOLE DIAMETER **2-inches**	DRILLING EQUIPMENT/METHOD **6620 / Geoprobe**	SAMPLING METHOD **2" Macro-Core**	START-FINISH DATE **9/8/11-9/8/11**
CASING MAT./DIA. **PVC / 2-inch**	SCREEN: TYPE **Pre-Packed** MAT. **PVC** TOTAL LENGTH **10.0** ft DIA. **2-inch** SLOT SIZE **20-Slot**			
ELEVATION OF: (Feet)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN **/**	GRAVEL PACK SIZES **#2**



Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
	Reinforced Concrete.			
	FILL (Dark Brown, fine to coarse SAND, some gravel, trace silt), moist.	G		
5	FILL (Dark brown to black, fine to coarse SAND and GRAVEL, trace silt), wet.		98.3	Collect sample B-20/MW-4/5-7'
	FILL (Dark brown, fine to coarse SAND and GRAVEL, trace silt), wet.			
	FILL (Brown to gray, medium to coarse SAND and GRAVEL), wet.			
	FILL (Dark brown, medium to coarse SAND and GRAVEL, trace silt), wet.		18.8	Organic odor
10	FILL (Dark brown to black, medium to coarse SAND and GRAVEL), wet.		70.2	Hydrocarbon odor
	Brown to gray, SILTY CLAY, some organic material, wet.		69.6	Organic odor
	Dark brown, SILTY CLAY, some organic material, wet.		10.1	Organic odor
15				End of Boring

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

SOIL BORING LOG

WELL NO.	NORTHING	EASTING
B-21	**Not Measured**	**Not Measured**

PROJECT NO./NAME	LOCATION
02077.0001Y000 / Devon	**3131 Richmond Terrace**
APPROVED BY: **J. Levine** / LOGGED BY: **L. Livingstone**	**Staten Island, NY**
DRILLING CONTRACTOR/DRILLER: **ADT / Juri**	GEOGRAPHIC AREA

DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-in. / Drive Sampler	**2-inches**	**6620 / Geoprobe**	**2" Macro-Core**	**9/9/11-9/9/11**

LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL
Not Measured	**Not Measured**	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Reinforced concrete.			
		FILL (Brown, fine to coarse SAND and GRAVEL), moist.		G	
5		FILL (Dark brown, medium to coarse SAND and GRAVEL, trace silt), moist.		0.1	
	GROUND WATER LEVEL 09/09/2011	FILL (Brown to Brown-red, medium to coarse SAND and GRAVEL, trace silt), wet.		0.1	
		FILL (Dark brown, medium to coarse SAND and GRAVEL, trace silt), wet.		0.3	
10		FILL (Dark brown, medium to coarse SAND and GRAVEL, trace silt), wet.		1.9	
		Dark brown, SILTY CLAY and ORGANIC MATERIAL, wet.		54.3	Collect sample B-21/12-14' Organic odor
15					End of Boring

APPENDIX G

Groundwater Sampling Logs

SITE NAME: Devon Storage **Project Number:** 2077.0001Y000

Weather: Sunny, 70s Date: 9/9/2011
Well ID: MW-1 Intake depth: 10'
DTW: 4.79' Vol Purged: 2.5 gallons
DTB: 11.41'
Sampler: C. Prete
Purge Start: 1215 Purge End Time: 1250 (sample time: 1255)
Purge Water Description: Cloudy, organic odor

Time	DTW (ft bls) (+/- 0.3 ft)	Flow Rate (ml/Min)	Temp (Degree C) (+/- 3%)	Conductivity (mS/cm) (+/- 3%)	DO (mg/L) (+/- 10%)	pH (+/- 0.1 SU)	ORP (mV) (+/- 10)	Turbidity (NTU) (+/- 10%)
1220	4.79	200	20.29	1.14	0.82	7.66	-9	264
1225	4.98	200	20.16	1.10	0.00	8.80	-70	150
1230	5.07	200	20.38	1.08	0.00	9.10	-88	200
1235	5.01	200	20.26	1.07	0.00	9.15	-91	178
1240	5.07	200	20.26	1.07	0.00	9.18	-94	132
1245	5.05	200	20.34	1.06	0.00	9.18	-94	120
1250	5.05	200	20.32	1.06	0.00	9.12	-93	129

SITE NAME: Devon Storage **Project Number:** 2077.0001Y000

Weather: Sunny, 70s Date: 9/9/2011
Well ID: MW-2 Intake depth: 10'
DTW: 3.07' Vol Purged: 3 gallons
DTB: 11.12'
Sampler: C. Prete
Purge Start: 1100 Purge End Time: 1135 (sample time: 1140)
Purge Water Description: clear

Time	DTW (ft bls) (+/- 0.3 ft)	Flow Rate (ml/Min)	Temp (Degree C) (+/- 3%)	Conductivity (mS/cm) (+/- 3%)	DO (mg/L) (+/- 10%)	pH (+/- 0.1 SU)	ORP (mV) (+/- 10)	Turbidity (NTU) (+/- 10%)
1100		200	21.45	2.18	0.00	10.92	-200	75.1
1105		200	21.33	2.17	0.00	11.07	-209	29.0
1110		200	21.33	2.17	0.00	11.07	-210	28.0
1115		200	21.48	2.17	0.00	11.05	-211	31.2
1120		200	21.48	2.14	0.00	11.03	-208	29.5
1125		200	20.96	2.11	0.00	11.04	-209	31.3
1130		200	20.68	2.11	0.00	11.10	-212	33.8
1135		200	20.61	2.11	0.00	11.07	-211	35.0

SITE NAME: Devon Storage **Project Number:** 2077.0001Y000

Weather: Cloudy, 70s Date: 9/9/2011
Well ID: MW-3 Intake depth: 10'
DTW: 4.87' Vol Purged: 3 gallons
DTB: 11.67'
Sampler: C. Prete
Purge Start: 920 Purge End Time: 0955 (sample time: 1000)
Purge Water Description: yellow, cloudy, organic odor

Time	DTW (ft bls) (+/- 0.3 ft)	Flow Rate (ml/Min)	Temp (Degree C) (+/- 3%)	Conductivity (mS/cm) (+/- 3%)	DO (mg/L) (+/- 10%)	pH (+/- 0.1 SU)	ORP (mV) (+/- 10)	Turbidity (NTU) (+/- 10%)
925		200	22.62	7.91	0.00	12.05	-272	61.7
930		200	22.71	7.72	0.00	12.17	-278	13.3
935		200	22.77	7.64	0.00	12.20	-281	15.5
940		200	22.82	7.51	0.00	12.19	-268	6.5
945		200	22.85	7.44	0.00	12.22	-281	34.8
950		200	22.95	7.37	0.00	12.24	-283	32.6
955		200	22.97	7.35	0.00	12.23	-284	31.8

SITE NAME: Devon Storage **Project Number:** 2077.0001Y000

Weather: Inside
Date: 9/9/2011
Well ID: MW-4
Intake depth: 10'
DTW: 5.40'
Vol Purged: 2 gallons
DTB: 11.05'
Sampler: C. Prete
Purge Start: 1345
Purge End Time: sample time: 1530
Purge Water Description: yellowish, cloudy
DUP2-090911 sample time: 1540

Note: pump battery died; sampled with bailer

Time	DTW (ft bls) (+/- 0.3 ft)	Flow Rate (ml/Min)	Temp (Degree C) (+/- 3%)	Conductivity (mS/cm) (+/- 3%)	DO (mg/L) (+/- 10%)	pH (+/- 0.1 SU)	ORP (mV) (+/- 10)	Turbidity (NTU) (+/- 10%)
1350	5.40	200	21.09	15.5	0.00	11.01	-208	20.1
1355	5.40	200	21.12	15.5	0.00	11.26	-221	3.7
1400	5.40	200	21.20	15.5	0.00	11.35	-226	0.0
PUMP BATTERY DIED								
1505	5.40	200	21.02	15.4	0.00	11.02	-205	0.0
1510	5.40	200	21.05	15.5	0.00	11.34	-226	0.0

APPENDIX H

Soil Vapor Sampling Logs

Soil Vapor Sampling Form
Devon Self Storage Facility, Staten Island, New York

Date: 9/9/2011 **Time:** 1420
Temperature: 83° F
Barometric Pressure: 29.79 in

Sampling Team: E. Livingstone
Sampling Location: AMB-090911
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)
In Devon office area, near SV-1

Prior to commencing the sampling activity, remove the brass cap from the end of the sample tubing and fit a new brass hose barb fitting onto the sample tubing.

Calibrate the Helium detection meter

Utility Clearance Completed: Yes

Sampling Depth: 3-5 feet below land surface (If ambient air sample, elevate can to approx. 3 ft - 5 ft above land surface)
Sealed with bentonite: N/A
Apparent Moisture Content: N/A
Purge Rate: N/A Must be less than 0.2 L/min
Purge Time: N/A
Helium Rate at enclosure: N/A
Helium Rate from sample tubing: N/A Is this rate <10% of the rate at the enclosure **Yes / No**

If the Helium readings have a greater ratio than 10% the seals should be rechecked and the tracer gas should be reapplied.

Starting Pressure: -31.0 in. of Hg
Starting Time: 1427
Ending Time: 1633
Ending Pressure: -5 in. of Hg

Summa Canister Identification #: 2556
Flow Regulator ID # 3132
Sample ID # AMB-090911
Time 2 hour
Analysis VOCS (TO-15)

Soil Vapor Sampling Form
Devon Self Storage Facility, Staten Island, New York

Date: 9/9/2011 **Time:** 1430
Temperature: 83° F
Barometric Pressure: 29.79 in

Sampling Team: E. Livingstone
Sampling Location: SV-1
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)
In Devon office area

Prior to commencing the sampling activity, remove the brass cap from the end of the sample tubing and fit a new brass hose barb fitting onto the sample tubing.

Calibrate the Helium detection meter

Utility Clearance Completed: Yes

Sampling Depth: approx. 1 feet below land surface (If ambient air sample, elevate can to approx. 3 ft - 5 ft above land surface)
Sealed with bentonite: Yes
Apparent Moisture Content: No
Purge Rate: 0.1956 Must be less than 0.2 L/min
Purge Time: 1 minute
Helium Rate at enclosure: 26%
Helium Rate from sample tubing: 0 ppm Is this rate <10% of the rate at the enclosure **Yes / No**

If the Helium readings have a greater ratio than 10% the seals should be rechecked and the tracer gas should be reapplied.

Starting Pressure: -30.0 in. of Hg
Starting Time: 1435
Ending Time: 1635
Ending Pressure: -5.5 in. of Hg

Summa Canister Identification #: 2708
Flow Regulator ID # 2617
Sample ID # SV-1
Time 2 hour
Analysis VOCS (TO-15)

Soil Vapor Sampling Form
Devon Self Storage Facility, Staten Island, New York

Date: 9/9/2011 **Time:** 1440
Temperature: 83° F
Barometric Pressure: 29.79 in

Sampling Team: E. Livingstone
Sampling Location: SV-2
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)

Prior to commencing the sampling activity, remove the brass cap from the end of the sample tubing and fit a new brass hose barb fitting onto the sample tubing.

Calibrate the Helium detection meter

Utility Clearance Completed: Yes

Sampling Depth: approx. 1 feet below land surface (If ambient air sample, elevate can to approx. 3 ft - 5 ft above land surface)
Sealed with bentonite: Yes
Apparent Moisture Content: No
Purge Rate: 0.1956 Must be less than 0.2 L/min
Purge Time: 1 minute
Helium Rate at enclosure: 34.8%
Helium Rate from sample tubing: 0 ppm Is this rate <10% of the rate at the enclosure **Yes / No**

If the Helium readings have a greater ratio than 10% the seals should be rechecked and the tracer gas should be reapplied.

Starting Pressure: -32.0 in. of Hg
Starting Time: 1455
Ending Time: 1733
Ending Pressure: -4 in. of Hg

Summa Canister Identification #: 2781
Flow Regulator ID # 4034
Sample ID # SV-2
Time 2 hour
Analysis VOCS (TO-15)

Soil Vapor Sampling Form
Devon Self Storage Facility, Staten Island, New York

Date: 9/9/2011 **Time:** 1512
Temperature: 83° F
Barometric Pressure: 29.79 in

Sampling Team: E. Livingstone
Sampling Location: SV-3
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)

Prior to commencing the sampling activity, remove the brass cap from the end of the sample tubing and fit a new brass hose barb fitting onto the sample tubing.

Calibrate the Helium detection meter

Utility Clearance Completed: Yes

Sampling Depth: approx. 1 feet below land surface (If ambient air sample, elevate can to approx. 3 ft - 5 ft above land surface)
Sealed with bentonite: Yes
Apparent Moisture Content: No
Purge Rate: 0.1956 Must be less than 0.2 L/min
Purge Time: 1 minute
Helium Rate at enclosure: 26.2%
Helium Rate from sample tubing: 0 ppm Is this rate <10% of the rate at the enclosure **Yes / No**

If the Helium readings have a greater ratio than 10% the seals should be rechecked and the tracer gas should be reapplied.

Starting Pressure: -31.0 in. of Hg
Starting Time: 1519
Ending Time: 1734
Ending Pressure: -5 in. of Hg

Summa Canister Identification #: 2988
Flow Regulator ID # 4043
Sample ID # SV-3
Time 2 hour
Analysis VOCS (TO-15)

Soil Vapor Sampling Form
Devon Self Storage Facility, Staten Island, New York

Date: 9/9/2011 **Time:** 1500
Temperature: 83° F
Barometric Pressure: 29.79 in

Sampling Team: E. Livingstone
Sampling Location: SV-4
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)

Prior to commencing the sampling activity, remove the brass cap from the end of the sample tubing and fit a new brass hose barb fitting onto the sample tubing.

Calibrate the Helium detection meter

Utility Clearance Completed: Yes

Sampling Depth: approx. 1 feet below land surface (If ambient air sample, elevate can to approx. 3 ft - 5 ft above land surface)
Sealed with bentonite: Yes
Apparent Moisture Content: No
Purge Rate: 0.1956 Must be less than 0.2 L/min
Purge Time: 1 minute
Helium Rate at enclosure: 24.5%
Helium Rate from sample tubing: 0 ppm Is this rate <10% of the rate at the enclosure **Yes / No**

If the Helium readings have a greater ratio than 10% the seals should be rechecked and the tracer gas should be reapplied.

Starting Pressure: -31.0 in. of Hg
Starting Time: 1510
Ending Time: 1733
Ending Pressure: -5 in. of Hg

Summa Canister Identification #: 3230
Flow Regulator ID # 4991
Sample ID # SV-4
Time 2 hour
Analysis VOCS (TO-15)

Soil Vapor Sampling Form
Devon Self Storage Facility, Staten Island, New York

Date: 9/9/2011 **Time:** 1526
Temperature: 83° F
Barometric Pressure: 29.79 in

Sampling Team: E. Livingstone
Sampling Location: SV-5
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)

Prior to commencing the sampling activity, remove the brass cap from the end of the sample tubing and fit a new brass hose barb fitting onto the sample tubing.

Calibrate the Helium detection meter

Utility Clearance Completed: Yes

Sampling Depth: approx. 1 feet below land surface (If ambient air sample, elevate can to approx. 3 ft - 5 ft above land surface)
Sealed with bentonite: Yes
Apparent Moisture Content: No
Purge Rate: 0.1956 Must be less than 0.2 L/min
Purge Time: 1 minute
Helium Rate at enclosure: 18.4%
Helium Rate from sample tubing: 0 ppm Is this rate <10% of the rate at the enclosure **Yes / No**

If the Helium readings have a greater ratio than 10% the seals should be rechecked and the tracer gas should be reapplied.

Starting Pressure: -30.0 in. of Hg
Starting Time: 1529
Ending Time: 1754
Ending Pressure: -4 in. of Hg

Summa Canister Identification #: 3208
Flow Regulator ID # 4496
Sample ID # SV-5
Time 2 hour
Analysis VOCS (TO-15)

Soil Vapor Sampling Form
Devon Self Storage Facility, Staten Island, New York

Date: 9/9/2011 **Time:** 1529
Temperature: 83° F
Barometric Pressure: 29.79 in

Sampling Team: E. Livingstone
Sampling Location: SV-6
Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc. and what type of basements are present)

Prior to commencing the sampling activity, remove the brass cap from the end of the sample tubing and fit a new brass hose barb fitting onto the sample tubing.

Calibrate the Helium detection meter

Utility Clearance Completed: Yes

Sampling Depth: approx. 1 feet below land surface (If ambient air sample, elevate can to approx. 3 ft - 5 ft above land surface)
Sealed with bentonite: Yes
Apparent Moisture Content: No
Purge Rate: 0.1956 Must be less than 0.2 L/min
Purge Time: 1 minute
Helium Rate at enclosure: 17.8%
Helium Rate from sample tubing: 0 ppm Is this rate <10% of the rate at the enclosure **Yes / No**

If the Helium readings have a greater ratio than 10% the seals should be rechecked and the tracer gas should be reapplied.

Starting Pressure: -32.0 in. of Hg
Starting Time: 1535
Ending Time: 1823
Ending Pressure: -7 in. of Hg

Summa Canister Identification #: 3208
Flow Regulator ID # 2817
Sample ID # SV-6
Time 2 hour
Analysis VOCS (TO-15)

APPENDIX I

Laboratory Data
(Electronic Copy)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 200-6944-1

Job Description: Devon Self Storage

For:
Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749-5074

Attention: Mr. Josh Levine

Approved for release.
Steve C Timmons
Customer Service Manager
9/26/2011 2:52 PM

Steve C Timmons
Customer Service Manager
steve.timmons@testamericainc.com
09/26/2011

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Manual Integration Summary 5

Sample Summary 8

Executive Summary 9

Method Summary 14

Method / Analyst Summary 15

Sample Datasheets 16

QC Data Summary 44

Data Qualifiers 50

QC Association Summary 51

Lab Chronicle 52

Reagent Traceability 54

Certification Summary 130

Organic Sample Data 131

Air - GC/MS VOA 131

Method TO15 131

Method TO15 QC Summary 132

Method TO15 Sample Data 139

Standards Data 308

Method TO15 ICAL Data 308

Method TO15 CCAL Data 347

Raw QC Data 361

Method TO15 Tune Data 361

Method TO15 Blank Data 369

Table of Contents

Method TO15 LCS/LCSD Data 380

Method TO15 Run Logs 387

Method TO15 Prep Data 391

Air Canister Dilution 392

Pre-shipment Certification 393

LCS Data 394

Blank Data 396

Tune Data 404

IS/RT Data 406

Clean Canister Data 408

ICAL Data 415

ICV/CCV Data 425

Run Logs 431

Shipping and Receiving Documents 435

Client Chain of Custody 436

Sample Receipt Checklist 438

CASE NARRATIVE

Client: Roux Associates, Inc.

Project: Devon Self Storage

Report Number: 200-6944-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/12/2011; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples AMB-090911, SV-1, SV-2, SV-4, SV-3, SV-5 and SV-6 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 09/21/2011 and 09/22/2011.

Samples SV-1[9X], SV-2[34X], SV-4[17X], SV-3[10X], SV-5[10X] and SV-6[14X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Instrument ID: B.i Analysis Batch Number: 25331

Lab Sample ID: IC 200-25331/3 Client Sample ID:

Date Analyzed: 09/15/11 13:01 Lab File ID: bkh003.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl acetate	7.97	Baseline event	pd	09/16/11 08:59

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Instrument ID: B.i Analysis Batch Number: 25690

Lab Sample ID: MB 200-25690/5 Client Sample ID:

Date Analyzed: 09/21/11 14:52 Lab File ID: bkhe005.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	3.34	Poor chromatography	jd1	09/23/11 12:35

Lab Sample ID: 200-6944-1 Client Sample ID: AMB-090911

Date Analyzed: 09/21/11 19:15 Lab File ID: bkhe010.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	9.26	Baseline event	wrd	09/23/11 09:12
Carbon tetrachloride	9.71	Baseline event	wrd	09/23/11 09:13
Tetrachloroethene	13.51	Baseline event	wrd	09/23/11 09:13
4-Ethyltoluene	16.57	Baseline event	wrd	09/23/11 09:14

Lab Sample ID: 200-6944-2 Client Sample ID: SV-1

Date Analyzed: 09/21/11 20:07 Lab File ID: bkhe011.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
methyl isobutyl ketone	12.58	Baseline event	wrd	09/23/11 09:17

Lab Sample ID: 200-6944-4 Client Sample ID: SV-4

Date Analyzed: 09/21/11 21:51 Lab File ID: bkhe013.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	6.79	Baseline event	wrd	09/23/11 09:22

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Instrument ID: B.i Analysis Batch Number: 25690

Lab Sample ID: 200-6944-5 Client Sample ID: SV-3

Date Analyzed: 09/22/11 06:34 Lab File ID: bkhe023.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol	7.14	Baseline event	wrd	09/23/11 09:32
4-Ethyltoluene	16.56	Baseline event	wrd	09/23/11 09:33

Lab Sample ID: 200-6944-6 Client Sample ID: SV-5

Date Analyzed: 09/22/11 07:27 Lab File ID: bkhe024.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,2,4-Trimethylpentane	10.00	Baseline event	wrd	09/23/11 09:35
4-Ethyltoluene	16.56	Baseline event	wrd	09/23/11 09:37

Lab Sample ID: 200-6944-7 Client Sample ID: SV-6

Date Analyzed: 09/22/11 08:19 Lab File ID: bkhe025.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	4.33	Baseline event	wrd	09/23/11 09:38
Trichloroethene	10.95	Baseline event	wrd	09/23/11 09:40
4-Ethyltoluene	16.57	Baseline event	wrd	09/23/11 09:41

SAMPLE SUMMARY

Client: Roux Associates, Inc. Job Number: 200-6944-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-6944-1	AMB-090911	Air	09/09/2011 1633	09/12/2011 0920
200-6944-2	SV-1	Air	09/09/2011 1635	09/12/2011 0920
200-6944-3	SV-2	Air	09/09/2011 1733	09/12/2011 0920
200-6944-4	SV-4	Air	09/09/2011 1733	09/12/2011 0920
200-6944-5	SV-3	Air	09/09/2011 1734	09/12/2011 0920
200-6944-6	SV-5	Air	09/09/2011 1754	09/12/2011 0920
200-6944-7	SV-6	Air	09/09/2011 1823	09/12/2011 0920

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 200-6944-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-6944-1	**AMB-090911**					
Dichlorodifluoromethane		0.76		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		3.7		2.5	ug/m3	TO-15
Freon 22		0.74		0.50	ppb v/v	TO-15
Freon 22		2.6		1.8	ug/m3	TO-15
Chloromethane		0.88		0.50	ppb v/v	TO-15
Chloromethane		1.8		1.0	ug/m3	TO-15
n-Butane		1.2		0.50	ppb v/v	TO-15
n-Butane		2.8		1.2	ug/m3	TO-15
Trichlorofluoromethane		0.28		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.6		1.1	ug/m3	TO-15
Acetone		12		5.0	ppb v/v	TO-15
Acetone		29		12	ug/m3	TO-15
Isopropyl alcohol		8.1		5.0	ppb v/v	TO-15
Isopropyl alcohol		20		12	ug/m3	TO-15
Carbon disulfide		0.96		0.50	ppb v/v	TO-15
Carbon disulfide		3.0		1.6	ug/m3	TO-15
Methylene Chloride		0.50		0.50	ppb v/v	TO-15
Methylene Chloride		1.7		1.7	ug/m3	TO-15
n-Hexane		0.63		0.20	ppb v/v	TO-15
n-Hexane		2.2		0.70	ug/m3	TO-15
Methyl Ethyl Ketone		0.79		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		2.3		1.5	ug/m3	TO-15
Cyclohexane		0.29		0.20	ppb v/v	TO-15
Cyclohexane		1.0		0.69	ug/m3	TO-15
2,2,4-Trimethylpentane		0.30		0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		1.4		0.93	ug/m3	TO-15
Benzene		0.34		0.20	ppb v/v	TO-15
Benzene		1.1		0.64	ug/m3	TO-15
n-Heptane		0.38		0.20	ppb v/v	TO-15
n-Heptane		1.6		0.82	ug/m3	TO-15
1,2-Dichloropropane		0.38		0.20	ppb v/v	TO-15
1,2-Dichloropropane		1.7		0.92	ug/m3	TO-15
methyl isobutyl ketone		0.88		0.50	ppb v/v	TO-15
methyl isobutyl ketone		3.6		2.0	ug/m3	TO-15
Toluene		6.1		0.20	ppb v/v	TO-15
Toluene		23		0.75	ug/m3	TO-15
Ethylbenzene		0.31		0.20	ppb v/v	TO-15
Ethylbenzene		1.4		0.87	ug/m3	TO-15
m,p-Xylene		0.96		0.50	ppb v/v	TO-15
m,p-Xylene		4.2		2.2	ug/m3	TO-15
Xylene, o-		0.36		0.20	ppb v/v	TO-15
Xylene, o-		1.6		0.87	ug/m3	TO-15
Xylene (total)		1.3		0.20	ppb v/v	TO-15
Xylene (total)		5.7		0.87	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.33		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		1.6		0.98	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 200-6944-1

Lab Sample ID	Client Sample ID					
Analyte		Result	Qualifier	Reporting Limit	Units	Method
200-6944-2	**SV-1**					
Acetone		210		44	ppb v/v	TO-15
Acetone		500		100	ug/m3	TO-15
Carbon disulfide		6.9		4.4	ppb v/v	TO-15
Carbon disulfide		22		14	ug/m3	TO-15
Methyl Ethyl Ketone		13		4.4	ppb v/v	TO-15
Methyl Ethyl Ketone		38		13	ug/m3	TO-15
Chloroform		6.9		1.7	ppb v/v	TO-15
Chloroform		34		8.5	ug/m3	TO-15
Carbon tetrachloride		2.5		1.7	ppb v/v	TO-15
Carbon tetrachloride		16		11	ug/m3	TO-15
Trichloroethene		11		1.7	ppb v/v	TO-15
Trichloroethene		60		9.4	ug/m3	TO-15
Toluene		3.8		1.7	ppb v/v	TO-15
Toluene		14		6.6	ug/m3	TO-15
Tetrachloroethene		1.9		1.7	ppb v/v	TO-15
Tetrachloroethene		13		12	ug/m3	TO-15
Xylene (total)		5.3		1.7	ppb v/v	TO-15
Xylene (total)		23		7.6	ug/m3	TO-15
200-6944-3	**SV-2**					
n-Butane		17		17	ppb v/v	TO-15
n-Butane		40		40	ug/m3	TO-15
Trichlorofluoromethane		8.0		6.7	ppb v/v	TO-15
Trichlorofluoromethane		45		38	ug/m3	TO-15
Acetone		600		170	ppb v/v	TO-15
Acetone		1400		400	ug/m3	TO-15
Carbon disulfide		72		17	ppb v/v	TO-15
Carbon disulfide		230		52	ug/m3	TO-15
Methyl Ethyl Ketone		32		17	ppb v/v	TO-15
Methyl Ethyl Ketone		94		50	ug/m3	TO-15
Chloroform		890		6.7	ppb v/v	TO-15
Chloroform		4300		33	ug/m3	TO-15
Carbon tetrachloride		680		6.7	ppb v/v	TO-15
Carbon tetrachloride		4300		42	ug/m3	TO-15
Trichloroethene		380		6.7	ppb v/v	TO-15
Trichloroethene		2100		36	ug/m3	TO-15
Tetrachloroethene		12		6.7	ppb v/v	TO-15
Tetrachloroethene		83		46	ug/m3	TO-15
Xylene (total)		8.3		6.7	ppb v/v	TO-15
Xylene (total)		36		29	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 200-6944-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-6944-4	**SV-4**					
Acetone		450		84	ppb v/v	TO-15
Acetone		1100		200	ug/m3	TO-15
Carbon disulfide		67		8.4	ppb v/v	TO-15
Carbon disulfide		210		26	ug/m3	TO-15
n-Hexane		3.3		3.3	ppb v/v	TO-15
n-Hexane		12		12	ug/m3	TO-15
Methyl Ethyl Ketone		23		8.4	ppb v/v	TO-15
Methyl Ethyl Ketone		67		25	ug/m3	TO-15
Chloroform		6.0		3.3	ppb v/v	TO-15
Chloroform		29		16	ug/m3	TO-15
Trichloroethene		4.3		3.3	ppb v/v	TO-15
Trichloroethene		23		18	ug/m3	TO-15
Toluene		11		3.3	ppb v/v	TO-15
Toluene		41		13	ug/m3	TO-15
Xylene (total)		5.0		3.3	ppb v/v	TO-15
Xylene (total)		22		15	ug/m3	TO-15
200-6944-5	**SV-3**					
Trichlorofluoromethane		26		2.0	ppb v/v	TO-15
Trichlorofluoromethane		140		11	ug/m3	TO-15
Acetone		370		50	ppb v/v	TO-15
Acetone		870		120	ug/m3	TO-15
Carbon disulfide		43		5.0	ppb v/v	TO-15
Carbon disulfide		130		16	ug/m3	TO-15
Methyl Ethyl Ketone		13		5.0	ppb v/v	TO-15
Methyl Ethyl Ketone		40		15	ug/m3	TO-15
Chloroform		24		2.0	ppb v/v	TO-15
Chloroform		120		9.8	ug/m3	TO-15
Carbon tetrachloride		3.0		2.0	ppb v/v	TO-15
Carbon tetrachloride		19		13	ug/m3	TO-15
Trichloroethene		6.1		2.0	ppb v/v	TO-15
Trichloroethene		33		11	ug/m3	TO-15
Toluene		4.4		2.0	ppb v/v	TO-15
Toluene		17		7.5	ug/m3	TO-15
Tetrachloroethene		10		2.0	ppb v/v	TO-15
Tetrachloroethene		68		14	ug/m3	TO-15
m,p-Xylene		5.3		5.0	ppb v/v	TO-15
m,p-Xylene		23		22	ug/m3	TO-15
Xylene, o-		2.2		2.0	ppb v/v	TO-15
Xylene, o-		9.6		8.7	ug/m3	TO-15
Xylene (total)		7.5		2.0	ppb v/v	TO-15
Xylene (total)		33		8.7	ug/m3	TO-15
1,2,4-Trimethylbenzene		2.0		2.0	ppb v/v	TO-15
1,2,4-Trimethylbenzene		10		9.8	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 200-6944-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-6944-6	**SV-5**					
n-Butane		7.9		5.0	ppb v/v	TO-15
n-Butane		19		12	ug/m3	TO-15
Acetone		210		50	ppb v/v	TO-15
Acetone		500		120	ug/m3	TO-15
Carbon disulfide		56		5.0	ppb v/v	TO-15
Carbon disulfide		170		16	ug/m3	TO-15
Methyl tert-butyl ether		2.3		2.0	ppb v/v	TO-15
Methyl tert-butyl ether		8.1		7.2	ug/m3	TO-15
n-Hexane		2.2		2.0	ppb v/v	TO-15
n-Hexane		7.9		7.0	ug/m3	TO-15
Methyl Ethyl Ketone		7.4		5.0	ppb v/v	TO-15
Methyl Ethyl Ketone		22		15	ug/m3	TO-15
Chloroform		290		2.0	ppb v/v	TO-15
Chloroform		1400		9.8	ug/m3	TO-15
Carbon tetrachloride		26		2.0	ppb v/v	TO-15
Carbon tetrachloride		160		13	ug/m3	TO-15
Trichloroethene		160		2.0	ppb v/v	TO-15
Trichloroethene		880		11	ug/m3	TO-15
Toluene		11		2.0	ppb v/v	TO-15
Toluene		43		7.5	ug/m3	TO-15
Tetrachloroethene		18		2.0	ppb v/v	TO-15
Tetrachloroethene		120		14	ug/m3	TO-15
Ethylbenzene		2.4		2.0	ppb v/v	TO-15
Ethylbenzene		10		8.7	ug/m3	TO-15
m,p-Xylene		7.2		5.0	ppb v/v	TO-15
m,p-Xylene		31		22	ug/m3	TO-15
Xylene, o-		3.4		2.0	ppb v/v	TO-15
Xylene, o-		15		8.7	ug/m3	TO-15
Xylene (total)		11		2.0	ppb v/v	TO-15
Xylene (total)		46		8.7	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: Roux Associates, Inc. Job Number: 200-6944-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-6944-7	**SV-6**					
n-Butane		11		7.0	ppb v/v	TO-15
n-Butane		26		17	ug/m3	TO-15
Acetone		470		70	ppb v/v	TO-15
Acetone		1100		170	ug/m3	TO-15
Carbon disulfide		81		7.0	ppb v/v	TO-15
Carbon disulfide		250		22	ug/m3	TO-15
n-Hexane		2.8		2.8	ppb v/v	TO-15
n-Hexane		9.9		9.8	ug/m3	TO-15
Methyl Ethyl Ketone		19		7.0	ppb v/v	TO-15
Methyl Ethyl Ketone		56		20	ug/m3	TO-15
Chloroform		7.1		2.8	ppb v/v	TO-15
Chloroform		35		14	ug/m3	TO-15
Toluene		12		2.8	ppb v/v	TO-15
Toluene		44		10	ug/m3	TO-15
Tetrachloroethene		24		2.8	ppb v/v	TO-15
Tetrachloroethene		160		19	ug/m3	TO-15
Ethylbenzene		4.3		2.8	ppb v/v	TO-15
Ethylbenzene		19		12	ug/m3	TO-15
m,p-Xylene		14		7.0	ppb v/v	TO-15
m,p-Xylene		61		30	ug/m3	TO-15
Xylene, o-		7.7		2.8	ppb v/v	TO-15
Xylene, o-		33		12	ug/m3	TO-15
Xylene (total)		22		2.8	ppb v/v	TO-15
Xylene (total)		94		12	ug/m3	TO-15
Cumene		2.8		2.8	ppb v/v	TO-15
Cumene		14		14	ug/m3	TO-15
1,3,5-Trimethylbenzene		5.2		2.8	ppb v/v	TO-15
1,3,5-Trimethylbenzene		25		14	ug/m3	TO-15
1,2,4-Trimethylbenzene		6.4		2.8	ppb v/v	TO-15
1,2,4-Trimethylbenzene		32		14	ug/m3	TO-15

METHOD SUMMARY

Client: Roux Associates, Inc. Job Number: 200-6944-1

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Can

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Roux Associates, Inc.

Job Number: 200-6944-1

Method	Analyst	Analyst ID
EPA TO-15	Desjardins, William R	WRD

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **AMB-090911**

Lab Sample ID: 200-6944-1 Date Sampled: 09/09/2011 1633
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/21/2011 1915			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 1915			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.76		0.50
Freon 22	0.74		0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.88		0.50
n-Butane	1.2		0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.20
Trichlorofluoromethane	0.28		0.20
Freon TF	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	12		5.0
Isopropyl alcohol	8.1		5.0
Carbon disulfide	0.96		0.50
3-Chloropropene	0.50	U	0.50
Methylene Chloride	0.50		0.50
tert-Butyl alcohol	5.0	U	5.0
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.63		0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.79		0.50
cis-1,2-Dichloroethene	0.20	U	0.20
1,2-Dichloroethene, Total	0.20	U	0.20
Chloroform	0.20	U	0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.29		0.20
Carbon tetrachloride	0.20	U	0.20
2,2,4-Trimethylpentane	0.30		0.20
Benzene	0.34		0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.38		0.20
Trichloroethene	0.20	U	0.20
Methyl methacrylate	0.50	U	0.50
1,2-Dichloropropane	0.38		0.20
1,4-Dioxane	5.0	U	5.0
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.88		0.50
Toluene	6.1		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **AMB-090911**

Lab Sample ID: 200-6944-1 Date Sampled: 09/09/2011 1633
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/21/2011 1915			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 1915			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.31		0.20
m,p-Xylene	0.96		0.50
Xylene, o-	0.36		0.20
Xylene (total)	1.3		0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
n-Propylbenzene	0.20	U	0.20
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
2-Chlorotoluene	0.20	U	0.20
tert-Butylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.33		0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
Benzyl chloride	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20
Naphthalene	0.50	U	0.50

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	3.7		2.5
Freon 22	2.6		1.8
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.8		1.0
n-Butane	2.8		1.2
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.87
Trichlorofluoromethane	1.6		1.1
Freon TF	1.5	U	1.5
1,1-Dichloroethene	0.79	U	0.79
Acetone	29		12
Isopropyl alcohol	20		12
Carbon disulfide	3.0		1.6

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **AMB-090911**

Lab Sample ID: 200-6944-1 Date Sampled: 09/09/2011 1633
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/21/2011 1915			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 1915			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	1.6	U	1.6
Methylene Chloride	1.7		1.7
tert-Butyl alcohol	15	U	15
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	2.2		0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	2.3		1.5
cis-1,2-Dichloroethene	0.79	U	0.79
1,2-Dichloroethene, Total	0.79	U	0.79
Chloroform	0.98	U	0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	1.0		0.69
Carbon tetrachloride	1.3	U	1.3
2,2,4-Trimethylpentane	1.4		0.93
Benzene	1.1		0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	1.6		0.82
Trichloroethene	1.1	U	1.1
Methyl methacrylate	2.0	U	2.0
1,2-Dichloropropane	1.7		0.92
1,4-Dioxane	18	U	18
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	3.6		2.0
Toluene	23		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	1.4		0.87
m,p-Xylene	4.2		2.2
Xylene, o-	1.6		0.87
Xylene (total)	5.7		0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
n-Propylbenzene	0.98	U	0.98
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
2-Chlorotoluene	1.0	U	1.0

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **AMB-090911**

Lab Sample ID: 200-6944-1 Date Sampled: 09/09/2011 1633
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/21/2011 1915			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 1915			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	1.1	U	1.1
1,2,4-Trimethylbenzene	1.6		0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.1	U	1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
Benzyl chloride	1.0	U	1.0
n-Butylbenzene	1.1	U	1.1
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1
Naphthalene	2.6	U	2.6

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-1**

Lab Sample ID: 200-6944-2 Date Sampled: 09/09/2011 1635
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe011.d
Dilution:	8.7			Initial Weight/Volume:	23 mL
Analysis Date:	09/21/2011 2007			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2007			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	4.4	U	4.4
Freon 22	4.4	U	4.4
1,2-Dichlorotetrafluoroethane	1.7	U	1.7
Chloromethane	4.4	U	4.4
n-Butane	4.4	U	4.4
Vinyl chloride	1.7	U	1.7
1,3-Butadiene	1.7	U	1.7
Bromomethane	1.7	U	1.7
Chloroethane	4.4	U	4.4
Bromoethene(Vinyl Bromide)	1.7	U	1.7
Trichlorofluoromethane	1.7	U	1.7
Freon TF	1.7	U	1.7
1,1-Dichloroethene	1.7	U	1.7
Acetone	210		44
Isopropyl alcohol	44	U	44
Carbon disulfide	6.9		4.4
3-Chloropropene	4.4	U	4.4
Methylene Chloride	4.4	U	4.4
tert-Butyl alcohol	44	U	44
Methyl tert-butyl ether	1.7	U	1.7
trans-1,2-Dichloroethene	1.7	U	1.7
n-Hexane	1.7	U	1.7
1,1-Dichloroethane	1.7	U	1.7
Methyl Ethyl Ketone	13		4.4
cis-1,2-Dichloroethene	1.7	U	1.7
1,2-Dichloroethene, Total	1.7	U	1.7
Chloroform	6.9		1.7
Tetrahydrofuran	44	U	44
1,1,1-Trichloroethane	1.7	U	1.7
Cyclohexane	1.7	U	1.7
Carbon tetrachloride	2.5		1.7
2,2,4-Trimethylpentane	1.7	U	1.7
Benzene	1.7	U	1.7
1,2-Dichloroethane	1.7	U	1.7
n-Heptane	1.7	U	1.7
Trichloroethene	11		1.7
Methyl methacrylate	4.4	U	4.4
1,2-Dichloropropane	1.7	U	1.7
1,4-Dioxane	44	U	44
Bromodichloromethane	1.7	U	1.7
cis-1,3-Dichloropropene	1.7	U	1.7
methyl isobutyl ketone	4.4	U	4.4
Toluene	3.8		1.7
trans-1,3-Dichloropropene	1.7	U	1.7
1,1,2-Trichloroethane	1.7	U	1.7
Tetrachloroethene	1.9		1.7

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-1**

Lab Sample ID: 200-6944-2 Date Sampled: 09/09/2011 1635
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe011.d
Dilution:	8.7			Initial Weight/Volume:	23 mL
Analysis Date:	09/21/2011 2007			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2007			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	4.4	U	4.4
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.7	U	1.7
Chlorobenzene	1.7	U	1.7
Ethylbenzene	1.7	U	1.7
m,p-Xylene	4.4	U	4.4
Xylene, o-	1.7	U	1.7
Xylene (total)	5.3		1.7
Styrene	1.7	U	1.7
Bromoform	1.7	U	1.7
Cumene	1.7	U	1.7
1,1,2,2-Tetrachloroethane	1.7	U	1.7
n-Propylbenzene	1.7	U	1.7
4-Ethyltoluene	1.7	U	1.7
1,3,5-Trimethylbenzene	1.7	U	1.7
2-Chlorotoluene	1.7	U	1.7
tert-Butylbenzene	1.7	U	1.7
1,2,4-Trimethylbenzene	1.7	U	1.7
sec-Butylbenzene	1.7	U	1.7
4-Isopropyltoluene	1.7	U	1.7
1,3-Dichlorobenzene	1.7	U	1.7
1,4-Dichlorobenzene	1.7	U	1.7
Benzyl chloride	1.7	U	1.7
n-Butylbenzene	1.7	U	1.7
1,2-Dichlorobenzene	1.7	U	1.7
1,2,4-Trichlorobenzene	4.4	U	4.4
Hexachlorobutadiene	1.7	U	1.7
Naphthalene	4.4	U	4.4

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	22	U	22
Freon 22	15	U	15
1,2-Dichlorotetrafluoroethane	12	U	12
Chloromethane	9.0	U	9.0
n-Butane	10	U	10
Vinyl chloride	4.4	U	4.4
1,3-Butadiene	3.8	U	3.8
Bromomethane	6.8	U	6.8
Chloroethane	11	U	11
Bromoethene(Vinyl Bromide)	7.6	U	7.6
Trichlorofluoromethane	9.8	U	9.8
Freon TF	13	U	13
1,1-Dichloroethene	6.9	U	6.9
Acetone	500		100
Isopropyl alcohol	110	U	110
Carbon disulfide	22		14

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-1**

Lab Sample ID: 200-6944-2 Date Sampled: 09/09/2011 1635
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe011.d
Dilution:	8.7			Initial Weight/Volume:	23 mL
Analysis Date:	09/21/2011 2007			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2007			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	14	U	14
Methylene Chloride	15	U	15
tert-Butyl alcohol	130	U	130
Methyl tert-butyl ether	6.3	U	6.3
trans-1,2-Dichloroethene	6.9	U	6.9
n-Hexane	6.1	U	6.1
1,1-Dichloroethane	7.0	U	7.0
Methyl Ethyl Ketone	38		13
cis-1,2-Dichloroethene	6.9	U	6.9
1,2-Dichloroethene, Total	6.9	U	6.9
Chloroform	34		8.5
Tetrahydrofuran	130	U	130
1,1,1-Trichloroethane	9.5	U	9.5
Cyclohexane	6.0	U	6.0
Carbon tetrachloride	16		11
2,2,4-Trimethylpentane	8.1	U	8.1
Benzene	5.6	U	5.6
1,2-Dichloroethane	7.0	U	7.0
n-Heptane	7.1	U	7.1
Trichloroethene	60		9.4
Methyl methacrylate	18	U	18
1,2-Dichloropropane	8.0	U	8.0
1,4-Dioxane	160	U	160
Bromodichloromethane	12	U	12
cis-1,3-Dichloropropene	7.9	U	7.9
methyl isobutyl ketone	18	U	18
Toluene	14		6.6
trans-1,3-Dichloropropene	7.9	U	7.9
1,1,2-Trichloroethane	9.5	U	9.5
Tetrachloroethene	13		12
Methyl Butyl Ketone (2-Hexanone)	18	U	18
Dibromochloromethane	15	U	15
1,2-Dibromoethane	13	U	13
Chlorobenzene	8.0	U	8.0
Ethylbenzene	7.6	U	7.6
m,p-Xylene	19	U	19
Xylene, o-	7.6	U	7.6
Xylene (total)	23		7.6
Styrene	7.4	U	7.4
Bromoform	18	U	18
Cumene	8.6	U	8.6
1,1,2,2-Tetrachloroethane	12	U	12
n-Propylbenzene	8.6	U	8.6
4-Ethyltoluene	8.6	U	8.6
1,3,5-Trimethylbenzene	8.6	U	8.6
2-Chlorotoluene	9.0	U	9.0

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-1**

Lab Sample ID: 200-6944-2 Date Sampled: 09/09/2011 1635
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe011.d
Dilution:	8.7			Initial Weight/Volume:	23 mL
Analysis Date:	09/21/2011 2007			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2007			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	9.6	U	9.6
1,2,4-Trimethylbenzene	8.6	U	8.6
sec-Butylbenzene	9.6	U	9.6
4-Isopropyltoluene	9.6	U	9.6
1,3-Dichlorobenzene	10	U	10
1,4-Dichlorobenzene	10	U	10
Benzyl chloride	9.0	U	9.0
n-Butylbenzene	9.6	U	9.6
1,2-Dichlorobenzene	10	U	10
1,2,4-Trichlorobenzene	32	U	32
Hexachlorobutadiene	19	U	19
Naphthalene	23	U	23

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-2**

Lab Sample ID: 200-6944-3 Date Sampled: 09/09/2011 1733
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe012.d
Dilution:	33.6			Initial Weight/Volume:	22 mL
Analysis Date:	09/21/2011 2059			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2059			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	17	U	17
Freon 22	17	U	17
1,2-Dichlorotetrafluoroethane	6.7	U	6.7
Chloromethane	17	U	17
n-Butane	17		17
Vinyl chloride	6.7	U	6.7
1,3-Butadiene	6.7	U	6.7
Bromomethane	6.7	U	6.7
Chloroethane	17	U	17
Bromoethene(Vinyl Bromide)	6.7	U	6.7
Trichlorofluoromethane	8.0		6.7
Freon TF	6.7	U	6.7
1,1-Dichloroethene	6.7	U	6.7
Acetone	600		170
Isopropyl alcohol	170	U	170
Carbon disulfide	72		17
3-Chloropropene	17	U	17
Methylene Chloride	17	U	17
tert-Butyl alcohol	170	U	170
Methyl tert-butyl ether	6.7	U	6.7
trans-1,2-Dichloroethene	6.7	U	6.7
n-Hexane	6.7	U	6.7
1,1-Dichloroethane	6.7	U	6.7
Methyl Ethyl Ketone	32		17
cis-1,2-Dichloroethene	6.7	U	6.7
1,2-Dichloroethene, Total	6.7	U	6.7
Chloroform	890		6.7
Tetrahydrofuran	170	U	170
1,1,1-Trichloroethane	6.7	U	6.7
Cyclohexane	6.7	U	6.7
Carbon tetrachloride	680		6.7
2,2,4-Trimethylpentane	6.7	U	6.7
Benzene	6.7	U	6.7
1,2-Dichloroethane	6.7	U	6.7
n-Heptane	6.7	U	6.7
Trichloroethene	380		6.7
Methyl methacrylate	17	U	17
1,2-Dichloropropane	6.7	U	6.7
1,4-Dioxane	170	U	170
Bromodichloromethane	6.7	U	6.7
cis-1,3-Dichloropropene	6.7	U	6.7
methyl isobutyl ketone	17	U	17
Toluene	6.7	U	6.7
trans-1,3-Dichloropropene	6.7	U	6.7
1,1,2-Trichloroethane	6.7	U	6.7
Tetrachloroethene	12		6.7

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-2**

Lab Sample ID: 200-6944-3 Date Sampled: 09/09/2011 1733
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe012.d
Dilution:	33.6			Initial Weight/Volume:	22 mL
Analysis Date:	09/21/2011 2059			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2059			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	17	U	17
Dibromochloromethane	6.7	U	6.7
1,2-Dibromoethane	6.7	U	6.7
Chlorobenzene	6.7	U	6.7
Ethylbenzene	6.7	U	6.7
m,p-Xylene	17	U	17
Xylene, o-	6.7	U	6.7
Xylene (total)	8.3		6.7
Styrene	6.7	U	6.7
Bromoform	6.7	U	6.7
Cumene	6.7	U	6.7
1,1,2,2-Tetrachloroethane	6.7	U	6.7
n-Propylbenzene	6.7	U	6.7
4-Ethyltoluene	6.7	U	6.7
1,3,5-Trimethylbenzene	6.7	U	6.7
2-Chlorotoluene	6.7	U	6.7
tert-Butylbenzene	6.7	U	6.7
1,2,4-Trimethylbenzene	6.7	U	6.7
sec-Butylbenzene	6.7	U	6.7
4-Isopropyltoluene	6.7	U	6.7
1,3-Dichlorobenzene	6.7	U	6.7
1,4-Dichlorobenzene	6.7	U	6.7
Benzyl chloride	6.7	U	6.7
n-Butylbenzene	6.7	U	6.7
1,2-Dichlorobenzene	6.7	U	6.7
1,2,4-Trichlorobenzene	17	U	17
Hexachlorobutadiene	6.7	U	6.7
Naphthalene	17	U	17

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	83	U	83
Freon 22	59	U	59
1,2-Dichlorotetrafluoroethane	47	U	47
Chloromethane	35	U	35
n-Butane	40		40
Vinyl chloride	17	U	17
1,3-Butadiene	15	U	15
Bromomethane	26	U	26
Chloroethane	44	U	44
Bromoethene(Vinyl Bromide)	29	U	29
Trichlorofluoromethane	45		38
Freon TF	52	U	52
1,1-Dichloroethene	27	U	27
Acetone	1400		400
Isopropyl alcohol	410	U	410
Carbon disulfide	230		52

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-2**

Lab Sample ID: 200-6944-3 Date Sampled: 09/09/2011 1733
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe012.d
Dilution:	33.6			Initial Weight/Volume:	22 mL
Analysis Date:	09/21/2011 2059			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2059			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	53	U	53
Methylene Chloride	58	U	58
tert-Butyl alcohol	510	U	510
Methyl tert-butyl ether	24	U	24
trans-1,2-Dichloroethene	27	U	27
n-Hexane	24	U	24
1,1-Dichloroethane	27	U	27
Methyl Ethyl Ketone	94		50
cis-1,2-Dichloroethene	27	U	27
1,2-Dichloroethene, Total	27	U	27
Chloroform	4300		33
Tetrahydrofuran	500	U	500
1,1,1-Trichloroethane	37	U	37
Cyclohexane	23	U	23
Carbon tetrachloride	4300		42
2,2,4-Trimethylpentane	31	U	31
Benzene	21	U	21
1,2-Dichloroethane	27	U	27
n-Heptane	28	U	28
Trichloroethene	2100		36
Methyl methacrylate	69	U	69
1,2-Dichloropropane	31	U	31
1,4-Dioxane	610	U	610
Bromodichloromethane	45	U	45
cis-1,3-Dichloropropene	30	U	30
methyl isobutyl ketone	69	U	69
Toluene	25	U	25
trans-1,3-Dichloropropene	30	U	30
1,1,2-Trichloroethane	37	U	37
Tetrachloroethene	83		46
Methyl Butyl Ketone (2-Hexanone)	69	U	69
Dibromochloromethane	57	U	57
1,2-Dibromoethane	52	U	52
Chlorobenzene	31	U	31
Ethylbenzene	29	U	29
m,p-Xylene	73	U	73
Xylene, o-	29	U	29
Xylene (total)	36		29
Styrene	29	U	29
Bromoform	69	U	69
Cumene	33	U	33
1,1,2,2-Tetrachloroethane	46	U	46
n-Propylbenzene	33	U	33
4-Ethyltoluene	33	U	33
1,3,5-Trimethylbenzene	33	U	33
2-Chlorotoluene	35	U	35

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-2**

Lab Sample ID: 200-6944-3 Date Sampled: 09/09/2011 1733
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe012.d
Dilution:	33.6			Initial Weight/Volume:	22 mL
Analysis Date:	09/21/2011 2059			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2059			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	37	U	37
1,2,4-Trimethylbenzene	33	U	33
sec-Butylbenzene	37	U	37
4-Isopropyltoluene	37	U	37
1,3-Dichlorobenzene	40	U	40
1,4-Dichlorobenzene	40	U	40
Benzyl chloride	35	U	35
n-Butylbenzene	37	U	37
1,2-Dichlorobenzene	40	U	40
1,2,4-Trichlorobenzene	120	U	120
Hexachlorobutadiene	72	U	72
Naphthalene	88	U	88

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-4**

Lab Sample ID: 200-6944-4 Date Sampled: 09/09/2011 1733
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe013.d
Dilution:	16.7			Initial Weight/Volume:	12 mL
Analysis Date:	09/21/2011 2151			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2151			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	8.4	U	8.4
Freon 22	8.4	U	8.4
1,2-Dichlorotetrafluoroethane	3.3	U	3.3
Chloromethane	8.4	U	8.4
n-Butane	8.4	U	8.4
Vinyl chloride	3.3	U	3.3
1,3-Butadiene	3.3	U	3.3
Bromomethane	3.3	U	3.3
Chloroethane	8.4	U	8.4
Bromoethene(Vinyl Bromide)	3.3	U	3.3
Trichlorofluoromethane	3.3	U	3.3
Freon TF	3.3	U	3.3
1,1-Dichloroethene	3.3	U	3.3
Acetone	450		84
Isopropyl alcohol	84	U	84
Carbon disulfide	67		8.4
3-Chloropropene	8.4	U	8.4
Methylene Chloride	8.4	U	8.4
tert-Butyl alcohol	84	U	84
Methyl tert-butyl ether	3.3	U	3.3
trans-1,2-Dichloroethene	3.3	U	3.3
n-Hexane	3.3		3.3
1,1-Dichloroethane	3.3	U	3.3
Methyl Ethyl Ketone	23		8.4
cis-1,2-Dichloroethene	3.3	U	3.3
1,2-Dichloroethene, Total	3.3	U	3.3
Chloroform	6.0		3.3
Tetrahydrofuran	84	U	84
1,1,1-Trichloroethane	3.3	U	3.3
Cyclohexane	3.3	U	3.3
Carbon tetrachloride	3.3	U	3.3
2,2,4-Trimethylpentane	3.3	U	3.3
Benzene	3.3	U	3.3
1,2-Dichloroethane	3.3	U	3.3
n-Heptane	3.3	U	3.3
Trichloroethene	4.3		3.3
Methyl methacrylate	8.4	U	8.4
1,2-Dichloropropane	3.3	U	3.3
1,4-Dioxane	84	U	84
Bromodichloromethane	3.3	U	3.3
cis-1,3-Dichloropropene	3.3	U	3.3
methyl isobutyl ketone	8.4	U	8.4
Toluene	11		3.3
trans-1,3-Dichloropropene	3.3	U	3.3
1,1,2-Trichloroethane	3.3	U	3.3
Tetrachloroethene	3.3	U	3.3

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-4**

Lab Sample ID: 200-6944-4 Date Sampled: 09/09/2011 1733
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe013.d
Dilution:	16.7			Initial Weight/Volume:	12 mL
Analysis Date:	09/21/2011 2151			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2151			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	8.4	U	8.4
Dibromochloromethane	3.3	U	3.3
1,2-Dibromoethane	3.3	U	3.3
Chlorobenzene	3.3	U	3.3
Ethylbenzene	3.3	U	3.3
m,p-Xylene	8.4	U	8.4
Xylene, o-	3.3	U	3.3
Xylene (total)	5.0		3.3
Styrene	3.3	U	3.3
Bromoform	3.3	U	3.3
Cumene	3.3	U	3.3
1,1,2,2-Tetrachloroethane	3.3	U	3.3
n-Propylbenzene	3.3	U	3.3
4-Ethyltoluene	3.3	U	3.3
1,3,5-Trimethylbenzene	3.3	U	3.3
2-Chlorotoluene	3.3	U	3.3
tert-Butylbenzene	3.3	U	3.3
1,2,4-Trimethylbenzene	3.3	U	3.3
sec-Butylbenzene	3.3	U	3.3
4-Isopropyltoluene	3.3	U	3.3
1,3-Dichlorobenzene	3.3	U	3.3
1,4-Dichlorobenzene	3.3	U	3.3
Benzyl chloride	3.3	U	3.3
n-Butylbenzene	3.3	U	3.3
1,2-Dichlorobenzene	3.3	U	3.3
1,2,4-Trichlorobenzene	8.4	U	8.4
Hexachlorobutadiene	3.3	U	3.3
Naphthalene	8.4	U	8.4

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	41	U	41
Freon 22	30	U	30
1,2-Dichlorotetrafluoroethane	23	U	23
Chloromethane	17	U	17
n-Butane	20	U	20
Vinyl chloride	8.5	U	8.5
1,3-Butadiene	7.4	U	7.4
Bromomethane	13	U	13
Chloroethane	22	U	22
Bromoethene(Vinyl Bromide)	15	U	15
Trichlorofluoromethane	19	U	19
Freon TF	26	U	26
1,1-Dichloroethene	13	U	13
Acetone	1100		200
Isopropyl alcohol	210	U	210
Carbon disulfide	210		26

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-4**

Lab Sample ID: 200-6944-4 Date Sampled: 09/09/2011 1733
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe013.d
Dilution:	16.7			Initial Weight/Volume:	12 mL
Analysis Date:	09/21/2011 2151			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2151			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	26	U	26
Methylene Chloride	29	U	29
tert-Butyl alcohol	250	U	250
Methyl tert-butyl ether	12	U	12
trans-1,2-Dichloroethene	13	U	13
n-Hexane	12		12
1,1-Dichloroethane	14	U	14
Methyl Ethyl Ketone	67		25
cis-1,2-Dichloroethene	13	U	13
1,2-Dichloroethene, Total	13	U	13
Chloroform	29		16
Tetrahydrofuran	250	U	250
1,1,1-Trichloroethane	18	U	18
Cyclohexane	11	U	11
Carbon tetrachloride	21	U	21
2,2,4-Trimethylpentane	16	U	16
Benzene	11	U	11
1,2-Dichloroethane	14	U	14
n-Heptane	14	U	14
Trichloroethene	23		18
Methyl methacrylate	34	U	34
1,2-Dichloropropane	15	U	15
1,4-Dioxane	300	U	300
Bromodichloromethane	22	U	22
cis-1,3-Dichloropropene	15	U	15
methyl isobutyl ketone	34	U	34
Toluene	41		13
trans-1,3-Dichloropropene	15	U	15
1,1,2-Trichloroethane	18	U	18
Tetrachloroethene	23	U	23
Methyl Butyl Ketone (2-Hexanone)	34	U	34
Dibromochloromethane	28	U	28
1,2-Dibromoethane	26	U	26
Chlorobenzene	15	U	15
Ethylbenzene	15	U	15
m,p-Xylene	36	U	36
Xylene, o-	15	U	15
Xylene (total)	22		15
Styrene	14	U	14
Bromoform	35	U	35
Cumene	16	U	16
1,1,2,2-Tetrachloroethane	23	U	23
n-Propylbenzene	16	U	16
4-Ethyltoluene	16	U	16
1,3,5-Trimethylbenzene	16	U	16
2-Chlorotoluene	17	U	17

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-4**

Lab Sample ID: 200-6944-4 Date Sampled: 09/09/2011 1733
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe013.d
Dilution:	16.7			Initial Weight/Volume:	12 mL
Analysis Date:	09/21/2011 2151			Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 2151			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	18	U	18
1,2,4-Trimethylbenzene	16	U	16
sec-Butylbenzene	18	U	18
4-Isopropyltoluene	18	U	18
1,3-Dichlorobenzene	20	U	20
1,4-Dichlorobenzene	20	U	20
Benzyl chloride	17	U	17
n-Butylbenzene	18	U	18
1,2-Dichlorobenzene	20	U	20
1,2,4-Trichlorobenzene	62	U	62
Hexachlorobutadiene	36	U	36
Naphthalene	44	U	44

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-3**

Lab Sample ID: 200-6944-5 Date Sampled: 09/09/2011 1734
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe023.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 0634			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0634			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	5.0	U	5.0
Freon 22	5.0	U	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	2.0
Chloromethane	5.0	U	5.0
n-Butane	5.0	U	5.0
Vinyl chloride	2.0	U	2.0
1,3-Butadiene	2.0	U	2.0
Bromomethane	2.0	U	2.0
Chloroethane	5.0	U	5.0
Bromoethene(Vinyl Bromide)	2.0	U	2.0
Trichlorofluoromethane	26		2.0
Freon TF	2.0	U	2.0
1,1-Dichloroethene	2.0	U	2.0
Acetone	370		50
Isopropyl alcohol	50	U	50
Carbon disulfide	43		5.0
3-Chloropropene	5.0	U	5.0
Methylene Chloride	5.0	U	5.0
tert-Butyl alcohol	50	U	50
Methyl tert-butyl ether	2.0	U	2.0
trans-1,2-Dichloroethene	2.0	U	2.0
n-Hexane	2.0	U	2.0
1,1-Dichloroethane	2.0	U	2.0
Methyl Ethyl Ketone	13		5.0
cis-1,2-Dichloroethene	2.0	U	2.0
1,2-Dichloroethene, Total	2.0	U	2.0
Chloroform	24		2.0
Tetrahydrofuran	50	U	50
1,1,1-Trichloroethane	2.0	U	2.0
Cyclohexane	2.0	U	2.0
Carbon tetrachloride	3.0		2.0
2,2,4-Trimethylpentane	2.0	U	2.0
Benzene	2.0	U	2.0
1,2-Dichloroethane	2.0	U	2.0
n-Heptane	2.0	U	2.0
Trichloroethene	6.1		2.0
Methyl methacrylate	5.0	U	5.0
1,2-Dichloropropane	2.0	U	2.0
1,4-Dioxane	50	U	50
Bromodichloromethane	2.0	U	2.0
cis-1,3-Dichloropropene	2.0	U	2.0
methyl isobutyl ketone	5.0	U	5.0
Toluene	4.4		2.0
trans-1,3-Dichloropropene	2.0	U	2.0
1,1,2-Trichloroethane	2.0	U	2.0
Tetrachloroethene	10		2.0

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-3**

Lab Sample ID: 200-6944-5 Date Sampled: 09/09/2011 1734
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe023.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 0634			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0634			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0
Dibromochloromethane	2.0	U	2.0
1,2-Dibromoethane	2.0	U	2.0
Chlorobenzene	2.0	U	2.0
Ethylbenzene	2.0	U	2.0
m,p-Xylene	5.3		5.0
Xylene, o-	2.2		2.0
Xylene (total)	7.5		2.0
Styrene	2.0	U	2.0
Bromoform	2.0	U	2.0
Cumene	2.0	U	2.0
1,1,2,2-Tetrachloroethane	2.0	U	2.0
n-Propylbenzene	2.0	U	2.0
4-Ethyltoluene	2.0	U	2.0
1,3,5-Trimethylbenzene	2.0	U	2.0
2-Chlorotoluene	2.0	U	2.0
tert-Butylbenzene	2.0	U	2.0
1,2,4-Trimethylbenzene	2.0		2.0
sec-Butylbenzene	2.0	U	2.0
4-Isopropyltoluene	2.0	U	2.0
1,3-Dichlorobenzene	2.0	U	2.0
1,4-Dichlorobenzene	2.0	U	2.0
Benzyl chloride	2.0	U	2.0
n-Butylbenzene	2.0	U	2.0
1,2-Dichlorobenzene	2.0	U	2.0
1,2,4-Trichlorobenzene	5.0	U	5.0
Hexachlorobutadiene	2.0	U	2.0
Naphthalene	5.0	U	5.0

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	25	U	25
Freon 22	18	U	18
1,2-Dichlorotetrafluoroethane	14	U	14
Chloromethane	10	U	10
n-Butane	12	U	12
Vinyl chloride	5.1	U	5.1
1,3-Butadiene	4.4	U	4.4
Bromomethane	7.8	U	7.8
Chloroethane	13	U	13
Bromoethene(Vinyl Bromide)	8.7	U	8.7
Trichlorofluoromethane	140		11
Freon TF	15	U	15
1,1-Dichloroethene	7.9	U	7.9
Acetone	870		120
Isopropyl alcohol	120	U	120
Carbon disulfide	130		16

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-3**

Lab Sample ID: 200-6944-5 Date Sampled: 09/09/2011 1734
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe023.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 0634			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0634			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	16	U	16
Methylene Chloride	17	U	17
tert-Butyl alcohol	150	U	150
Methyl tert-butyl ether	7.2	U	7.2
trans-1,2-Dichloroethene	7.9	U	7.9
n-Hexane	7.0	U	7.0
1,1-Dichloroethane	8.1	U	8.1
Methyl Ethyl Ketone	40		15
cis-1,2-Dichloroethene	7.9	U	7.9
1,2-Dichloroethene, Total	7.9	U	7.9
Chloroform	120		9.8
Tetrahydrofuran	150	U	150
1,1,1-Trichloroethane	11	U	11
Cyclohexane	6.9	U	6.9
Carbon tetrachloride	19		13
2,2,4-Trimethylpentane	9.3	U	9.3
Benzene	6.4	U	6.4
1,2-Dichloroethane	8.1	U	8.1
n-Heptane	8.2	U	8.2
Trichloroethene	33		11
Methyl methacrylate	20	U	20
1,2-Dichloropropane	9.2	U	9.2
1,4-Dioxane	180	U	180
Bromodichloromethane	13	U	13
cis-1,3-Dichloropropene	9.1	U	9.1
methyl isobutyl ketone	20	U	20
Toluene	17		7.5
trans-1,3-Dichloropropene	9.1	U	9.1
1,1,2-Trichloroethane	11	U	11
Tetrachloroethene	68		14
Methyl Butyl Ketone (2-Hexanone)	20	U	20
Dibromochloromethane	17	U	17
1,2-Dibromoethane	15	U	15
Chlorobenzene	9.2	U	9.2
Ethylbenzene	8.7	U	8.7
m,p-Xylene	23		22
Xylene, o-	9.6		8.7
Xylene (total)	33		8.7
Styrene	8.5	U	8.5
Bromoform	21	U	21
Cumene	9.8	U	9.8
1,1,2,2-Tetrachloroethane	14	U	14
n-Propylbenzene	9.8	U	9.8
4-Ethyltoluene	9.8	U	9.8
1,3,5-Trimethylbenzene	9.8	U	9.8
2-Chlorotoluene	10	U	10

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-3**

Lab Sample ID: 200-6944-5 Date Sampled: 09/09/2011 1734
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe023.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 0634			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0634			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	11	U	11
1,2,4-Trimethylbenzene	10		9.8
sec-Butylbenzene	11	U	11
4-Isopropyltoluene	11	U	11
1,3-Dichlorobenzene	12	U	12
1,4-Dichlorobenzene	12	U	12
Benzyl chloride	10	U	10
n-Butylbenzene	11	U	11
1,2-Dichlorobenzene	12	U	12
1,2,4-Trichlorobenzene	37	U	37
Hexachlorobutadiene	21	U	21
Naphthalene	26	U	26

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-5**

Lab Sample ID: 200-6944-6 Date Sampled: 09/09/2011 1754
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe024.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 0727			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0727			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	5.0	U	5.0
Freon 22	5.0	U	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	2.0
Chloromethane	5.0	U	5.0
n-Butane	7.9		5.0
Vinyl chloride	2.0	U	2.0
1,3-Butadiene	2.0	U	2.0
Bromomethane	2.0	U	2.0
Chloroethane	5.0	U	5.0
Bromoethene(Vinyl Bromide)	2.0	U	2.0
Trichlorofluoromethane	2.0	U	2.0
Freon TF	2.0	U	2.0
1,1-Dichloroethene	2.0	U	2.0
Acetone	210		50
Isopropyl alcohol	50	U	50
Carbon disulfide	56		5.0
3-Chloropropene	5.0	U	5.0
Methylene Chloride	5.0	U	5.0
tert-Butyl alcohol	50	U	50
Methyl tert-butyl ether	2.3		2.0
trans-1,2-Dichloroethene	2.0	U	2.0
n-Hexane	2.2		2.0
1,1-Dichloroethane	2.0	U	2.0
Methyl Ethyl Ketone	7.4		5.0
cis-1,2-Dichloroethene	2.0	U	2.0
1,2-Dichloroethene, Total	2.0	U	2.0
Chloroform	290		2.0
Tetrahydrofuran	50	U	50
1,1,1-Trichloroethane	2.0	U	2.0
Cyclohexane	2.0	U	2.0
Carbon tetrachloride	26		2.0
2,2,4-Trimethylpentane	2.0	U	2.0
Benzene	2.0	U	2.0
1,2-Dichloroethane	2.0	U	2.0
n-Heptane	2.0	U	2.0
Trichloroethene	160		2.0
Methyl methacrylate	5.0	U	5.0
1,2-Dichloropropane	2.0	U	2.0
1,4-Dioxane	50	U	50
Bromodichloromethane	2.0	U	2.0
cis-1,3-Dichloropropene	2.0	U	2.0
methyl isobutyl ketone	5.0	U	5.0
Toluene	11		2.0
trans-1,3-Dichloropropene	2.0	U	2.0
1,1,2-Trichloroethane	2.0	U	2.0
Tetrachloroethene	18		2.0

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-5**

Lab Sample ID: 200-6944-6 Date Sampled: 09/09/2011 1754
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe024.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 0727			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0727			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0
Dibromochloromethane	2.0	U	2.0
1,2-Dibromoethane	2.0	U	2.0
Chlorobenzene	2.0	U	2.0
Ethylbenzene	2.4		2.0
m,p-Xylene	7.2		5.0
Xylene, o-	3.4		2.0
Xylene (total)	11		2.0
Styrene	2.0	U	2.0
Bromoform	2.0	U	2.0
Cumene	2.0	U	2.0
1,1,2,2-Tetrachloroethane	2.0	U	2.0
n-Propylbenzene	2.0	U	2.0
4-Ethyltoluene	2.0	U	2.0
1,3,5-Trimethylbenzene	2.0	U	2.0
2-Chlorotoluene	2.0	U	2.0
tert-Butylbenzene	2.0	U	2.0
1,2,4-Trimethylbenzene	2.0	U	2.0
sec-Butylbenzene	2.0	U	2.0
4-Isopropyltoluene	2.0	U	2.0
1,3-Dichlorobenzene	2.0	U	2.0
1,4-Dichlorobenzene	2.0	U	2.0
Benzyl chloride	2.0	U	2.0
n-Butylbenzene	2.0	U	2.0
1,2-Dichlorobenzene	2.0	U	2.0
1,2,4-Trichlorobenzene	5.0	U	5.0
Hexachlorobutadiene	2.0	U	2.0
Naphthalene	5.0	U	5.0

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	25	U	25
Freon 22	18	U	18
1,2-Dichlorotetrafluoroethane	14	U	14
Chloromethane	10	U	10
n-Butane	19		12
Vinyl chloride	5.1	U	5.1
1,3-Butadiene	4.4	U	4.4
Bromomethane	7.8	U	7.8
Chloroethane	13	U	13
Bromoethene(Vinyl Bromide)	8.7	U	8.7
Trichlorofluoromethane	11	U	11
Freon TF	15	U	15
1,1-Dichloroethene	7.9	U	7.9
Acetone	500		120
Isopropyl alcohol	120	U	120
Carbon disulfide	170		16

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-5**

Lab Sample ID: 200-6944-6 Date Sampled: 09/09/2011 1754
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe024.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 0727			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0727			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	16	U	16
Methylene Chloride	17	U	17
tert-Butyl alcohol	150	U	150
Methyl tert-butyl ether	8.1		7.2
trans-1,2-Dichloroethene	7.9	U	7.9
n-Hexane	7.9		7.0
1,1-Dichloroethane	8.1	U	8.1
Methyl Ethyl Ketone	22		15
cis-1,2-Dichloroethene	7.9	U	7.9
1,2-Dichloroethene, Total	7.9	U	7.9
Chloroform	1400		9.8
Tetrahydrofuran	150	U	150
1,1,1-Trichloroethane	11	U	11
Cyclohexane	6.9	U	6.9
Carbon tetrachloride	160		13
2,2,4-Trimethylpentane	9.3	U	9.3
Benzene	6.4	U	6.4
1,2-Dichloroethane	8.1	U	8.1
n-Heptane	8.2	U	8.2
Trichloroethene	880		11
Methyl methacrylate	20	U	20
1,2-Dichloropropane	9.2	U	9.2
1,4-Dioxane	180	U	180
Bromodichloromethane	13	U	13
cis-1,3-Dichloropropene	9.1	U	9.1
methyl isobutyl ketone	20	U	20
Toluene	43		7.5
trans-1,3-Dichloropropene	9.1	U	9.1
1,1,2-Trichloroethane	11	U	11
Tetrachloroethene	120		14
Methyl Butyl Ketone (2-Hexanone)	20	U	20
Dibromochloromethane	17	U	17
1,2-Dibromoethane	15	U	15
Chlorobenzene	9.2	U	9.2
Ethylbenzene	10		8.7
m,p-Xylene	31		22
Xylene, o-	15		8.7
Xylene (total)	46		8.7
Styrene	8.5	U	8.5
Bromoform	21	U	21
Cumene	9.8	U	9.8
1,1,2,2-Tetrachloroethane	14	U	14
n-Propylbenzene	9.8	U	9.8
4-Ethyltoluene	9.8	U	9.8
1,3,5-Trimethylbenzene	9.8	U	9.8
2-Chlorotoluene	10	U	10

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-5**

Lab Sample ID: 200-6944-6 Date Sampled: 09/09/2011 1754
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe024.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 0727			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0727			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	11	U	11
1,2,4-Trimethylbenzene	9.8	U	9.8
sec-Butylbenzene	11	U	11
4-Isopropyltoluene	11	U	11
1,3-Dichlorobenzene	12	U	12
1,4-Dichlorobenzene	12	U	12
Benzyl chloride	10	U	10
n-Butylbenzene	11	U	11
1,2-Dichlorobenzene	12	U	12
1,2,4-Trichlorobenzene	37	U	37
Hexachlorobutadiene	21	U	21
Naphthalene	26	U	26

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-6**

Lab Sample ID: 200-6944-7 Date Sampled: 09/09/2011 1823
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe025.d
Dilution:	13.9			Initial Weight/Volume:	29 mL
Analysis Date:	09/22/2011 0819			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0819			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	7.0	U	7.0
Freon 22	7.0	U	7.0
1,2-Dichlorotetrafluoroethane	2.8	U	2.8
Chloromethane	7.0	U	7.0
n-Butane	11		7.0
Vinyl chloride	2.8	U	2.8
1,3-Butadiene	2.8	U	2.8
Bromomethane	2.8	U	2.8
Chloroethane	7.0	U	7.0
Bromoethene(Vinyl Bromide)	2.8	U	2.8
Trichlorofluoromethane	2.8	U	2.8
Freon TF	2.8	U	2.8
1,1-Dichloroethene	2.8	U	2.8
Acetone	470		70
Isopropyl alcohol	70	U	70
Carbon disulfide	81		7.0
3-Chloropropene	7.0	U	7.0
Methylene Chloride	7.0	U	7.0
tert-Butyl alcohol	70	U	70
Methyl tert-butyl ether	2.8	U	2.8
trans-1,2-Dichloroethene	2.8	U	2.8
n-Hexane	2.8		2.8
1,1-Dichloroethane	2.8	U	2.8
Methyl Ethyl Ketone	19		7.0
cis-1,2-Dichloroethene	2.8	U	2.8
1,2-Dichloroethene, Total	2.8	U	2.8
Chloroform	7.1		2.8
Tetrahydrofuran	70	U	70
1,1,1-Trichloroethane	2.8	U	2.8
Cyclohexane	2.8	U	2.8
Carbon tetrachloride	2.8	U	2.8
2,2,4-Trimethylpentane	2.8	U	2.8
Benzene	2.8	U	2.8
1,2-Dichloroethane	2.8	U	2.8
n-Heptane	2.8	U	2.8
Trichloroethene	2.8	U	2.8
Methyl methacrylate	7.0	U	7.0
1,2-Dichloropropane	2.8	U	2.8
1,4-Dioxane	70	U	70
Bromodichloromethane	2.8	U	2.8
cis-1,3-Dichloropropene	2.8	U	2.8
methyl isobutyl ketone	7.0	U	7.0
Toluene	12		2.8
trans-1,3-Dichloropropene	2.8	U	2.8
1,1,2-Trichloroethane	2.8	U	2.8
Tetrachloroethene	24		2.8

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-6**

Lab Sample ID: 200-6944-7 Date Sampled: 09/09/2011 1823
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe025.d
Dilution:	13.9			Initial Weight/Volume:	29 mL
Analysis Date:	09/22/2011 0819			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0819			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	7.0	U	7.0
Dibromochloromethane	2.8	U	2.8
1,2-Dibromoethane	2.8	U	2.8
Chlorobenzene	2.8	U	2.8
Ethylbenzene	4.3		2.8
m,p-Xylene	14		7.0
Xylene, o-	7.7		2.8
Xylene (total)	22		2.8
Styrene	2.8	U	2.8
Bromoform	2.8	U	2.8
Cumene	2.8		2.8
1,1,2,2-Tetrachloroethane	2.8	U	2.8
n-Propylbenzene	2.8	U	2.8
4-Ethyltoluene	2.8	U	2.8
1,3,5-Trimethylbenzene	5.2		2.8
2-Chlorotoluene	2.8	U	2.8
tert-Butylbenzene	2.8	U	2.8
1,2,4-Trimethylbenzene	6.4		2.8
sec-Butylbenzene	2.8	U	2.8
4-Isopropyltoluene	2.8	U	2.8
1,3-Dichlorobenzene	2.8	U	2.8
1,4-Dichlorobenzene	2.8	U	2.8
Benzyl chloride	2.8	U	2.8
n-Butylbenzene	2.8	U	2.8
1,2-Dichlorobenzene	2.8	U	2.8
1,2,4-Trichlorobenzene	7.0	U	7.0
Hexachlorobutadiene	2.8	U	2.8
Naphthalene	7.0	U	7.0

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	34	U	34
Freon 22	25	U	25
1,2-Dichlorotetrafluoroethane	19	U	19
Chloromethane	14	U	14
n-Butane	26		17
Vinyl chloride	7.1	U	7.1
1,3-Butadiene	6.2	U	6.2
Bromomethane	11	U	11
Chloroethane	18	U	18
Bromoethene(Vinyl Bromide)	12	U	12
Trichlorofluoromethane	16	U	16
Freon TF	21	U	21
1,1-Dichloroethene	11	U	11
Acetone	1100		170
Isopropyl alcohol	170	U	170
Carbon disulfide	250		22

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-6**

Lab Sample ID: 200-6944-7 Date Sampled: 09/09/2011 1823
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe025.d
Dilution:	13.9			Initial Weight/Volume:	29 mL
Analysis Date:	09/22/2011 0819			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0819			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	22	U	22
Methylene Chloride	24	U	24
tert-Butyl alcohol	210	U	210
Methyl tert-butyl ether	10	U	10
trans-1,2-Dichloroethene	11	U	11
n-Hexane	9.9		9.8
1,1-Dichloroethane	11	U	11
Methyl Ethyl Ketone	56		20
cis-1,2-Dichloroethene	11	U	11
1,2-Dichloroethene, Total	11	U	11
Chloroform	35		14
Tetrahydrofuran	200	U	200
1,1,1-Trichloroethane	15	U	15
Cyclohexane	9.6	U	9.6
Carbon tetrachloride	17	U	17
2,2,4-Trimethylpentane	13	U	13
Benzene	8.9	U	8.9
1,2-Dichloroethane	11	U	11
n-Heptane	11	U	11
Trichloroethene	15	U	15
Methyl methacrylate	28	U	28
1,2-Dichloropropane	13	U	13
1,4-Dioxane	250	U	250
Bromodichloromethane	19	U	19
cis-1,3-Dichloropropene	13	U	13
methyl isobutyl ketone	28	U	28
Toluene	44		10
trans-1,3-Dichloropropene	13	U	13
1,1,2-Trichloroethane	15	U	15
Tetrachloroethene	160		19
Methyl Butyl Ketone (2-Hexanone)	28	U	28
Dibromochloromethane	24	U	24
1,2-Dibromoethane	21	U	21
Chlorobenzene	13	U	13
Ethylbenzene	19		12
m,p-Xylene	61		30
Xylene, o-	33		12
Xylene (total)	94		12
Styrene	12	U	12
Bromoform	29	U	29
Cumene	14		14
1,1,2,2-Tetrachloroethane	19	U	19
n-Propylbenzene	14	U	14
4-Ethyltoluene	14	U	14
1,3,5-Trimethylbenzene	25		14
2-Chlorotoluene	14	U	14

Client: Roux Associates, Inc. Job Number: 200-6944-1

Client Sample ID: **SV-6**

Lab Sample ID: 200-6944-7 Date Sampled: 09/09/2011 1823
Client Matrix: Air Date Received: 09/12/2011 0920

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25690	Instrument ID:	B.i
Prep Method:	Summa Can	Prep Batch:	N/A	Lab File ID:	bkhe025.d
Dilution:	13.9			Initial Weight/Volume:	29 mL
Analysis Date:	09/22/2011 0819			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 0819			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	15	U	15
1,2,4-Trimethylbenzene	32		14
sec-Butylbenzene	15	U	15
4-Isopropyltoluene	15	U	15
1,3-Dichlorobenzene	17	U	17
1,4-Dichlorobenzene	17	U	17
Benzyl chloride	14	U	14
n-Butylbenzene	15	U	15
1,2-Dichlorobenzene	17	U	17
1,2,4-Trichlorobenzene	52	U	52
Hexachlorobutadiene	30	U	30
Naphthalene	36	U	36

Client: Roux Associates, Inc. Job Number: 200-6944-1

Method Blank - Batch: 200-25690

Method: TO-15
Preparation: Summa Can

Lab Sample ID:	MB 200-25690/5	Analysis Batch:	200-25690	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhe005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/21/2011 1452	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 1452			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	0.50	U	0.50
Freon 22	0.50	U	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.50	U	0.50
n-Butane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.20
Trichlorofluoromethane	0.20	U	0.20
Freon TF	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	5.0	U	5.0
Isopropyl alcohol	5.0	U	5.0
Carbon disulfide	0.50	U	0.50
3-Chloropropene	0.50	U	0.50
Methylene Chloride	0.50	U	0.50
tert-Butyl alcohol	5.0	U	5.0
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
1,2-Dichloroethene, Total	0.20	U	0.20
Chloroform	0.20	U	0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
2,2,4-Trimethylpentane	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
Methyl methacrylate	0.50	U	0.50
1,2-Dichloropropane	0.20	U	0.20
1,4-Dioxane	5.0	U	5.0
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20

Client: Roux Associates, Inc.

Job Number: 200-6944-1

Method Blank - Batch: 200-25690

Method: TO-15
Preparation: Summa Can

Lab Sample ID:	MB 200-25690/5	Analysis Batch:	200-25690	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhe005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/21/2011 1452	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 1452			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Tetrachloroethene	0.20	U	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Xylene (total)	0.20	U	0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
n-Propylbenzene	0.20	U	0.20
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
2-Chlorotoluene	0.20	U	0.20
tert-Butylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
Benzyl chloride	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20
Naphthalene	0.50	U	0.50

Client: Roux Associates, Inc.

Job Number: 200-6944-1

Method Blank - Batch: 200-25690

Method: TO-15
Preparation: Summa Can

Lab Sample ID:	MB 200-25690/5	Analysis Batch:	200-25690	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhe005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/21/2011 1452	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 1452			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	2.5	U	2.5
Freon 22	1.8	U	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.0	U	1.0
n-Butane	1.2	U	1.2
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.87
Trichlorofluoromethane	1.1	U	1.1
Freon TF	1.5	U	1.5
1,1-Dichloroethene	0.79	U	0.79
Acetone	12	U	12
Isopropyl alcohol	12	U	12
Carbon disulfide	1.6	U	1.6
3-Chloropropene	1.6	U	1.6
Methylene Chloride	1.7	U	1.7
tert-Butyl alcohol	15	U	15
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	0.70	U	0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5	U	1.5
cis-1,2-Dichloroethene	0.79	U	0.79
1,2-Dichloroethene, Total	0.79	U	0.79
Chloroform	0.98	U	0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
2,2,4-Trimethylpentane	0.93	U	0.93
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	0.82	U	0.82
Trichloroethene	1.1	U	1.1
Methyl methacrylate	2.0	U	2.0
1,2-Dichloropropane	0.92	U	0.92
1,4-Dioxane	18	U	18
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.75	U	0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1

Client: Roux Associates, Inc.

Job Number: 200-6944-1

Method Blank - Batch: 200-25690

Method: TO-15
Preparation: Summa Can

Lab Sample ID:	MB 200-25690/5	Analysis Batch:	200-25690	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhe005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/21/2011 1452	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 1452			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Tetrachloroethene	1.4	U	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Xylene (total)	0.87	U	0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
n-Propylbenzene	0.98	U	0.98
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
2-Chlorotoluene	1.0	U	1.0
tert-Butylbenzene	1.1	U	1.1
1,2,4-Trimethylbenzene	0.98	U	0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.1	U	1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
Benzyl chloride	1.0	U	1.0
n-Butylbenzene	1.1	U	1.1
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1
Naphthalene	2.6	U	2.6

Client: Roux Associates, Inc.

Job Number: 200-6944-1

Lab Control Sample - Batch: 200-25690

Method: TO-15
Preparation: Summa Can

Lab Sample ID:	LCS 200-25690/4	Analysis Batch:	200-25690	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhe004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/21/2011 1401	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 1401			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	10.4	104	70 - 130	
Freon 22	10.0	9.99	100	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	10.1	101	70 - 130	
Chloromethane	10.0	9.84	98	70 - 130	
n-Butane	10.0	9.69	97	70 - 130	
Vinyl chloride	10.0	9.93	99	70 - 130	
1,3-Butadiene	10.0	10.2	102	70 - 130	
Bromomethane	10.0	9.89	99	70 - 130	
Chloroethane	10.0	9.99	100	70 - 130	
Bromoethene(Vinyl Bromide)	10.0	10.6	106	70 - 130	
Trichlorofluoromethane	10.0	10.1	101	70 - 130	
Freon TF	10.0	10.8	108	70 - 130	
1,1-Dichloroethene	10.0	11.1	111	70 - 130	
Acetone	10.0	10.0	100	70 - 130	
Isopropyl alcohol	10.0	10.0	100	70 - 130	
Carbon disulfide	10.0	10.2	102	70 - 130	
3-Chloropropene	10.0	9.67	97	70 - 130	
Methylene Chloride	10.0	10.4	104	70 - 130	
tert-Butyl alcohol	10.0	10.2	102	70 - 130	
Methyl tert-butyl ether	10.0	9.95	100	70 - 130	
trans-1,2-Dichloroethene	10.0	9.88	99	70 - 130	
n-Hexane	10.0	9.60	96	70 - 130	
1,1-Dichloroethane	10.0	9.78	98	70 - 130	
Methyl Ethyl Ketone	10.0	9.35	93	70 - 130	
cis-1,2-Dichloroethene	10.0	10.4	104	70 - 130	
Chloroform	10.0	9.81	98	70 - 130	
Tetrahydrofuran	10.0	10.1	101	70 - 130	
1,1,1-Trichloroethane	10.0	9.90	99	70 - 130	
Cyclohexane	10.0	9.96	100	70 - 130	
Carbon tetrachloride	10.0	10.0	100	70 - 130	
2,2,4-Trimethylpentane	10.0	9.86	99	70 - 130	
Benzene	10.0	9.76	98	70 - 130	
1,2-Dichloroethane	10.0	9.72	97	70 - 130	
n-Heptane	10.0	9.41	94	70 - 130	
Trichloroethene	10.0	9.78	98	70 - 130	
Methyl methacrylate	10.0	10.1	101	70 - 130	
1,2-Dichloropropane	10.0	9.56	96	70 - 130	
1,4-Dioxane	10.0	9.65	97	70 - 130	
Bromodichloromethane	10.0	10.3	103	70 - 130	
cis-1,3-Dichloropropene	10.0	9.78	98	70 - 130	
methyl isobutyl ketone	10.0	10.1	101	70 - 130	
Toluene	10.0	9.72	97	70 - 130	
trans-1,3-Dichloropropene	10.0	9.70	97	70 - 130	
1,1,2-Trichloroethane	10.0	9.48	95	70 - 130	
Tetrachloroethene	10.0	9.88	99	70 - 130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.93	99	70 - 130	

Client: Roux Associates, Inc.

Job Number: 200-6944-1

Lab Control Sample - Batch: 200-25690

Method: TO-15
Preparation: Summa Can

Lab Sample ID:	LCS 200-25690/4	Analysis Batch:	200-25690	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhe004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/21/2011 1401	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/21/2011 1401			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dibromochloromethane	10.0	10.8	108	70 - 130	
1,2-Dibromoethane	10.0	9.95	100	70 - 130	
Chlorobenzene	10.0	9.60	96	70 - 130	
Ethylbenzene	10.0	9.80	98	70 - 130	
m,p-Xylene	20.0	19.9	100	70 - 130	
Xylene, o-	10.0	9.73	97	70 - 130	
Styrene	10.0	10.1	102	70 - 130	
Bromoform	10.0	11.1	111	70 - 130	
Cumene	10.0	10.0	100	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	9.63	96	70 - 130	
n-Propylbenzene	10.0	10.2	102	70 - 130	
4-Ethyltoluene	10.0	10.4	104	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.90	99	70 - 130	
2-Chlorotoluene	10.0	10.1	101	70 - 130	
tert-Butylbenzene	10.0	10.1	101	70 - 130	
1,2,4-Trimethylbenzene	10.0	9.79	98	70 - 130	
sec-Butylbenzene	10.0	9.92	99	70 - 130	
4-Isopropyltoluene	10.0	10.3	103	70 - 130	
1,3-Dichlorobenzene	10.0	9.72	97	70 - 130	
1,4-Dichlorobenzene	10.0	9.70	97	70 - 130	
Benzyl chloride	10.0	8.85	89	70 - 130	
n-Butylbenzene	10.0	10.5	105	70 - 130	
1,2-Dichlorobenzene	10.0	9.42	94	70 - 130	
1,2,4-Trichlorobenzene	10.0	10.4	104	70 - 130	
Hexachlorobutadiene	10.0	9.98	100	70 - 130	
Naphthalene	10.0	11.3	113	70 - 130	

DATA REPORTING QUALIFIERS

Client: Roux Associates, Inc. Job Number: 200-6944-1

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

Client: Roux Associates, Inc.

Job Number: 200-6944-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-25690					
LCS 200-25690/4	Lab Control Sample	T	Air	TO-15	
MB 200-25690/5	Method Blank	T	Air	TO-15	
200-6944-1	AMB-090911	T	Air	TO-15	
200-6944-2	SV-1	T	Air	TO-15	
200-6944-3	SV-2	T	Air	TO-15	
200-6944-4	SV-4	T	Air	TO-15	
200-6944-5	SV-3	T	Air	TO-15	
200-6944-6	SV-5	T	Air	TO-15	
200-6944-7	SV-6	T	Air	TO-15	

Report Basis

T = Total

Client: Roux Associates, Inc. Job Number: 200-6944-1

Laboratory Chronicle

Lab ID: 200-6944-1 **Client ID:** AMB-090911

Sample Date/Time: 09/09/2011 16:33 Received Date/Time: 09/12/2011 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Can	200-6944-A-1		200-25690		09/21/2011 19:15	1	TAL BUR	WRD
A:TO-15	200-6944-A-1		200-25690		09/21/2011 19:15	1	TAL BUR	WRD

Lab ID: 200-6944-2 **Client ID:** SV-1

Sample Date/Time: 09/09/2011 16:35 Received Date/Time: 09/12/2011 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Can	200-6944-A-2		200-25690		09/21/2011 20:07	8.7	TAL BUR	WRD
A:TO-15	200-6944-A-2		200-25690		09/21/2011 20:07	8.7	TAL BUR	WRD

Lab ID: 200-6944-3 **Client ID:** SV-2

Sample Date/Time: 09/09/2011 17:33 Received Date/Time: 09/12/2011 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Can	200-6944-A-3		200-25690		09/21/2011 20:59	33.6	TAL BUR	WRD
A:TO-15	200-6944-A-3		200-25690		09/21/2011 20:59	33.6	TAL BUR	WRD

Lab ID: 200-6944-4 **Client ID:** SV-4

Sample Date/Time: 09/09/2011 17:33 Received Date/Time: 09/12/2011 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Can	200-6944-A-4		200-25690		09/21/2011 21:51	16.7	TAL BUR	WRD
A:TO-15	200-6944-A-4		200-25690		09/21/2011 21:51	16.7	TAL BUR	WRD

Lab ID: 200-6944-5 **Client ID:** SV-3

Sample Date/Time: 09/09/2011 17:34 Received Date/Time: 09/12/2011 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Can	200-6944-A-5		200-25690		09/22/2011 06:34	10	TAL BUR	WRD
A:TO-15	200-6944-A-5		200-25690		09/22/2011 06:34	10	TAL BUR	WRD

Lab ID: 200-6944-6 **Client ID:** SV-5

Sample Date/Time: 09/09/2011 17:54 Received Date/Time: 09/12/2011 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Can	200-6944-A-6		200-25690		09/22/2011 07:27	10	TAL BUR	WRD
A:TO-15	200-6944-A-6		200-25690		09/22/2011 07:27	10	TAL BUR	WRD

Client: Roux Associates, Inc. Job Number: 200-6944-1

Laboratory Chronicle

Lab ID: **200-6944-7** **Client ID:** **SV-6**

Sample Date/Time: 09/09/2011 18:23 Received Date/Time: 09/12/2011 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Can	200-6944-A-7		200-25690		09/22/2011 08:19	13.9	TAL BUR	WRD
A:TO-15	200-6944-A-7		200-25690		09/22/2011 08:19	13.9	TAL BUR	WRD

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Can	MB 200-25690/5		200-25690		09/21/2011 14:52	1	TAL BUR	WRD
A:TO-15	MB 200-25690/5		200-25690		09/21/2011 14:52	1	TAL BUR	WRD

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Can	LCS 200-25690/4		200-25690		09/21/2011 14:01	1	TAL BUR	WRD
A:TO-15	LCS 200-25690/4		200-25690		09/21/2011 14:01	1	TAL BUR	WRD

Lab References:
TAL BUR = TestAmerica Burlington

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15CAL1w_00050	11/19/11	08/24/11	DI WATER, Lot 2572	15.463 L	ATTO15CAL6w_00039	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,3-Trichlorobenzene	0.20044 ppb v/v
							1,2,3-Trichloropropane	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dibromoethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,2-Dichlorotetrafluoroethane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Butadiene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2,2,4-Trimethylpentane	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
							2-Methylbutane	0.20044 ppb v/v
							3-Chloropropene	0.20044 ppb v/v
							4-Ethyltoluene	0.20044 ppb v/v
							4-Isopropyltoluene	0.20044 ppb v/v
							Acetone	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetonitrile	0.20044 ppb v/v
							Acrolein	0.20044 ppb v/v
							Acrylonitrile	0.20044 ppb v/v
							Alpha Methyl Styrene	0.20044 ppb v/v
							Benzene	0.20044 ppb v/v
							Benzyl chloride	0.20044 ppb v/v
							Bromodichloromethane	0.20044 ppb v/v
							Bromoethene(Vinyl Bromide)	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,2-Dichloroethene	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cumene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dibromochloromethane	0.20044 ppb v/v
							Dibromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Dodecane	0.20044 ppb v/v
							Ethyl acetate	0.20044 ppb v/v
							Ethyl ether	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	0.20044 ppb v/v
							Freon 22	0.20044 ppb v/v
							Freon TF	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Isopropyl alcohol	0.20044 ppb v/v
							m,p-Xylene	0.400879 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	0.20044 ppb v/v
							Methyl Ethyl Ketone	0.20044 ppb v/v
							methyl isobutyl ketone	0.20044 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v
							n-Butane	0.20044 ppb v/v
							n-Butanol	0.20044 ppb v/v
							n-Butylbenzene	0.20044 ppb v/v
							n-Decane	0.20044 ppb v/v
							n-Heptane	0.20044 ppb v/v
							n-Hexane	0.20044 ppb v/v
							n-Nonane	0.20044 ppb v/v
							n-Octane	0.20044 ppb v/v
							n-Propylbenzene	0.20044 ppb v/v
							Naphthalene	0.20044 ppb v/v
							Pentane	0.20044 ppb v/v
							Propene	0.20044 ppb v/v
							sec-Butylbenzene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butyl alcohol	0.20044 ppb v/v
							tert-Butylbenzene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,2-Dichloroethene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Undecane	0.20044 ppb v/v
							Vinyl acetate	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
							Xylene, o-	0.20044 ppb v/v
							Ethanol	0.400944 ppb v/v
.ATTO15CAL6w_00039	11/19/11	08/23/11	DI WATER, Lot 2972	15.463 L	ATTO15CALSTKi_00024	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2,2,4-Trimethylpentane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloropropene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoethene(Vinyl Bromide)	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Freon 22	19.9961 ppb v/v
							Freon TF	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butane	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butyl alcohol	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00019	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00024	11/19/11	08/19/11	DI WATER, Lot 1003	37.5 L	ATTO15CALs_00006	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene(Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
...ATTO15CALs_00006	11/30/11	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene(Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
..ATTO15EthCALw_00019	11/19/11	08/19/11	VOA Free Water, Lot 1055	37.5 ppb	ATTO15EthCALs_00004	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00004	12/10/11	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL2w_00046	11/19/11	08/24/11	DI WATER, Lot 2874	15.463 L	ATTO15CAL6w_00039	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	0.500453 ppb v/v
							1,2,3-Trichloropropane	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dibromoethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,2-Dichlorotetrafluoroethane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Butadiene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v
							2,2,4-Trimethylpentane	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Methylbutane	0.500453 ppb v/v
							3-Chloropropene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Isopropyltoluene	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Acetonitrile	0.500453 ppb v/v
							Acrolein	0.500453 ppb v/v
							Acrylonitrile	0.500453 ppb v/v
							Alpha Methyl Styrene	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	0.500453 ppb v/v
							Bromodichloromethane	0.500453 ppb v/v
							Bromoethene(Vinyl Bromide)	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,2-Dichloroethene	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v
							Cumene	0.500453 ppb v/v
							Cyclohexane	0.500453 ppb v/v
							Dibromochloromethane	0.500453 ppb v/v
							Dibromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Dodecane	0.500453 ppb v/v
							Ethyl acetate	0.500453 ppb v/v
							Ethyl ether	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Freon 22	0.500453 ppb v/v
							Freon TF	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m,p-Xylene	1.00091 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	0.500453 ppb v/v
							Methyl Ethyl Ketone	0.500453 ppb v/v
							methyl isobutyl ketone	0.500453 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Butane	0.500453 ppb v/v
							n-Butanol	0.500453 ppb v/v
							n-Butylbenzene	0.500453 ppb v/v
							n-Decane	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							n-Hexane	0.500453 ppb v/v
							n-Nonane	0.500453 ppb v/v
							n-Octane	0.500453 ppb v/v
							n-Propylbenzene	0.500453 ppb v/v
							Naphthalene	0.500453 ppb v/v
							Pentane	0.500453 ppb v/v
							Propene	0.500453 ppb v/v
							sec-Butylbenzene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							tert-Butyl alcohol	0.500453 ppb v/v
							tert-Butylbenzene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Undecane	0.500453 ppb v/v
							Vinyl acetate	0.500453 ppb v/v
							Vinyl chloride	0.500453 ppb v/v
							Xylene, o-	0.500453 ppb v/v
							Ethanol	5.01064 ppb v/v
					ATTO15EthCALw_00019	124 mL	Ethanol	5.01064 ppb v/v
.ATTO15CAL6w_00039	11/19/11	08/23/11	DI WATER, Lot 2972	15.463 L	ATTO15CALSTKi_00024	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2,2,4-Trimethylpentane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloropropene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoethene(Vinyl Bromide)	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Freon 22	19.9961 ppb v/v
							Freon TF	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butane	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butyl alcohol	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00019	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00024	11/19/11	08/19/11	DI WATER, Lot 1003	37.5 L	ATTO15CALs_00006	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene(Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
...ATTO15CALs_00006	11/30/11	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene(Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
..ATTO15EthCALw_00019	11/19/11	08/19/11	VOA Free Water, Lot 1055	37.5 ppb	ATTO15EthCALs_00004	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00004	12/10/11	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
.ATTO15EthCALw_00019	11/19/11	08/19/11	VOA Free Water, Lot 1055	37.5 ppb	ATTO15EthCALs_00004	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00004	12/10/11	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL3w_00056	11/19/11	08/23/11	DI WATER, Lot 2960	15.463 L	ATTO15CALSTKi_00024	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,3-Trichlorobenzene	4.99256 ppb v/v
							1,2,3-Trichloropropane	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dibromoethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,2-Dichlorotetrafluoroethane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Butadiene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2,2,4-Trimethylpentane	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
							2-Methylbutane	4.99256 ppb v/v
							3-Chloropropene	4.99256 ppb v/v
							4-Ethyltoluene	4.99256 ppb v/v
							4-Isopropyltoluene	4.99256 ppb v/v
							Acetone	4.99256 ppb v/v
							Acetonitrile	4.99256 ppb v/v
							Acrolein	4.99256 ppb v/v
							Acrylonitrile	4.99256 ppb v/v
							Alpha Methyl Styrene	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v
							Benzyl chloride	4.99256 ppb v/v
							Bromodichloromethane	4.99256 ppb v/v
							Bromoethene(Vinyl Bromide)	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,2-Dichloroethene	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cumene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dibromochloromethane	4.99256 ppb v/v
							Dibromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Dodecane	4.99256 ppb v/v
							Ethyl acetate	4.99256 ppb v/v
							Ethyl ether	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Freon 22	4.99256 ppb v/v
							Freon TF	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Isopropyl alcohol	4.99256 ppb v/v
							m,p-Xylene	9.98513 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	4.99256 ppb v/v
							Methyl Ethyl Ketone	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							methyl isobutyl ketone	4.99256 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v
							Methylene Chloride	4.99256 ppb v/v
							n-Butane	4.99256 ppb v/v
							n-Butanol	4.99256 ppb v/v
							n-Butylbenzene	4.99256 ppb v/v
							n-Decane	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							n-Hexane	4.99256 ppb v/v
							n-Nonane	4.99256 ppb v/v
							n-Octane	4.99256 ppb v/v
							n-Propylbenzene	4.99256 ppb v/v
							Naphthalene	4.99256 ppb v/v
							Pentane	4.99256 ppb v/v
							Propene	4.99256 ppb v/v
							sec-Butylbenzene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							tert-Butyl alcohol	4.99256 ppb v/v
							tert-Butylbenzene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,2-Dichloroethene	4.99256 ppb v/v
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	4.99256 ppb v/v
							Undecane	4.99256 ppb v/v
							Vinyl acetate	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
							Xylene, o-	4.99256 ppb v/v
					ATTO15EthCALw_00019	309 mL	Ethanol	9.99159 ppb v/v
.ATTO15CALSTKi_00024	11/19/11	08/19/11	DI WATER, Lot 1003	37.5 L	ATTO15CALs_00006	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene(Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00006	11/30/11	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene(Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00019	11/19/11	08/19/11	VOA Free Water, Lot 1055	37.5 ppb	ATTO15EthCALs_00004	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00004	12/10/11	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00146	11/19/11	08/23/11	DI WATER, Lot 2887	15.463 L	ATTO15CALSTKi_00024	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,3-Trichlorobenzene	9.99806 ppb v/v
							1,2,3-Trichloropropane	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2,2,4-Trimethylpentane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methylbutane	9.99806 ppb v/v
							3-Chloropropene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Acetonitrile	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrolein	9.99806 ppb v/v
							Acrylonitrile	9.99806 ppb v/v
							Alpha Methyl Styrene	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoethene(Vinyl Bromide)	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dibromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Dodecane	9.99806 ppb v/v
							Ethyl acetate	9.99806 ppb v/v
							Ethyl ether	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Freon 22	9.99806 ppb v/v
							Freon TF	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butane	9.99806 ppb v/v
							n-Butanol	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Decane	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Nonane	9.99806 ppb v/v
							n-Octane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							Pentane	9.99806 ppb v/v
							Propene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butyl alcohol	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Undecane	9.99806 ppb v/v
							Vinyl acetate	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene, o-	9.99806 ppb v/v
					ATTO15EthCALw_00019	464 mL	Ethanol	15.0036 ppb v/v
.ATTO15CALSTKi_00024	11/19/11	08/19/11	DI WATER, Lot 1003	37.5 L	ATTO15CALs_00006	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene(Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00006	11/30/11	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene(Vinyl Bromide)	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00019	11/19/11	08/19/11	VOA Free Water, Lot 1055	37.5 ppb	ATTO15EthCALs_00004	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00004	12/10/11	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00147	11/19/11	08/23/11	DI WATER, Lot 3551	15.463 L	ATTO15CALSTKi_00024	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, Total	19.9961 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2,2,4-Trimethylpentane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloropropene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoethene(Vinyl Bromide)	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Freon 22	9.99806 ppb v/v
							Freon TF	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butane	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butyl alcohol	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Xylene (total)	29.9942 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15CALSTKi_00024	11/19/11	08/19/11	DI WATER, Lot 1003	37.5 L	ATTO15CALs_00006	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, Total	400 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene(Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene (total)	600 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00006	11/30/11	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, Total	2 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloropropene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene(Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene (total)	3 ppm v/v
							Xylene, o-	1 ppm v/v
ATTO15CAL5w_00019	11/19/11	08/23/11	DI WATER, Lot 5014	15.463 L	ATTO15CALSTKi_00024	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,3-Trichlorobenzene	15.0036 ppb v/v
							1,2,3-Trichloropropane	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dibromoethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,2-Dichlorotetrafluoroethane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Butadiene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2,2,4-Trimethylpentane	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methylbutane	15.0036 ppb v/v
							3-Chloropropene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	15.0036 ppb v/v
							Acetone	15.0036 ppb v/v
							Acetonitrile	15.0036 ppb v/v
							Acrolein	15.0036 ppb v/v
							Acrylonitrile	15.0036 ppb v/v
							Alpha Methyl Styrene	15.0036 ppb v/v
							Benzene	15.0036 ppb v/v
							Benzyl chloride	15.0036 ppb v/v
							Bromodichloromethane	15.0036 ppb v/v
							Bromoethene(Vinyl Bromide)	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,2-Dichloroethene	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cumene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dibromochloromethane	15.0036 ppb v/v
							Dibromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Dodecane	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	15.0036 ppb v/v
							Ethyl ether	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Freon 22	15.0036 ppb v/v
							Freon TF	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v
							m,p-Xylene	30.0071 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	15.0036 ppb v/v
							Methyl Ethyl Ketone	15.0036 ppb v/v
							methyl isobutyl ketone	15.0036 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v
							n-Butane	15.0036 ppb v/v
							n-Butanol	15.0036 ppb v/v
							n-Butylbenzene	15.0036 ppb v/v
							n-Decane	15.0036 ppb v/v
							n-Heptane	15.0036 ppb v/v
							n-Hexane	15.0036 ppb v/v
							n-Nonane	15.0036 ppb v/v
							n-Octane	15.0036 ppb v/v
							n-Propylbenzene	15.0036 ppb v/v
							Naphthalene	15.0036 ppb v/v
							Pentane	15.0036 ppb v/v
							Propene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v
							tert-Butyl alcohol	15.0036 ppb v/v
							tert-Butylbenzene	15.0036 ppb v/v
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v
							trans-1,2-Dichloroethene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Undecane	15.0036 ppb v/v
							Vinyl acetate	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
							Xylene, o-	15.0036 ppb v/v
					ATTO15EthCALw_00019	620 mL	Ethanol	20.0479 ppb v/v
.ATTO15CALSTKi_00024	11/19/11	08/19/11	DI WATER, Lot 1003	37.5 L	ATTO15CALs_00006	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene(Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00006	11/30/11	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene(Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00019	11/19/11	08/19/11	VOA Free Water, Lot 1055	37.5 ppb	ATTO15EthCALs_00004	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00004	12/10/11	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL6w_00038	11/19/11	08/23/11	DI WATER, Lot 3631	15.463 L	ATTO15CALSTKi_00024	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2,2,4-Trimethylpentane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloropropene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoethene(Vinyl Bromide)	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Freon 22	19.9961 ppb v/v
							Freon TF	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butane	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butyl alcohol	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00019	1237 mL	Ethanol	39.9987 ppb v/v
.ATTO15CALSTKi_00024	11/19/11	08/19/11	DI WATER, Lot 1003	37.5 L	ATTO15CALs_00006	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene(Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00006	11/30/11	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene(Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00019	11/19/11	08/19/11	VOA Free Water, Lot 1055	37.5 ppb	ATTO15EthCALs_00004	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00004	12/10/11	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL7w_00020	11/19/11	08/23/11	DI WATER, Lot 3089	15.463 L	ATTO15CALSTKi_00024	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,3-Trichlorobenzene	39.9922 ppb v/v
							1,2,3-Trichloropropane	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v
							1,2-Dibromoethane	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,2-Dichlorotetrafluoroethane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Butadiene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v
							2,2,4-Trimethylpentane	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methylbutane	39.9922 ppb v/v
							3-Chloropropene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Isopropyltoluene	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Acetonitrile	39.9922 ppb v/v
							Acrolein	39.9922 ppb v/v
							Acrylonitrile	39.9922 ppb v/v
							Alpha Methyl Styrene	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Benzyl chloride	39.9922 ppb v/v
							Bromodichloromethane	39.9922 ppb v/v
							Bromoethene(Vinyl Bromide)	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,2-Dichloroethene	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cumene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dibromochloromethane	39.9922 ppb v/v
							Dibromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Dodecane	39.9922 ppb v/v
							Ethyl acetate	39.9922 ppb v/v
							Ethyl ether	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Freon 22	39.9922 ppb v/v
							Freon TF	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m,p-Xylene	79.9845 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	39.9922 ppb v/v
							Methyl Ethyl Ketone	39.9922 ppb v/v
							methyl isobutyl ketone	39.9922 ppb v/v
							Methyl methacrylate	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Butane	39.9922 ppb v/v
							n-Butanol	39.9922 ppb v/v
							n-Butylbenzene	39.9922 ppb v/v
							n-Decane	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							n-Hexane	39.9922 ppb v/v
							n-Nonane	39.9922 ppb v/v
							n-Octane	39.9922 ppb v/v
							n-Propylbenzene	39.9922 ppb v/v
							Naphthalene	39.9922 ppb v/v
							Pentane	39.9922 ppb v/v
							Propene	39.9922 ppb v/v
							sec-Butylbenzene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							tert-Butyl alcohol	39.9922 ppb v/v
							tert-Butylbenzene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,2-Dichloroethene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Undecane	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl acetate	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
							Xylene, o-	39.9922 ppb v/v
					ATTO15EthCALw_00019	3092 mL	Ethanol	99.9806 ppb v/v
.ATTO15CALSTKi_00024	11/19/11	08/19/11	DI WATER, Lot 1003	37.5 L	ATTO15CALs_00006	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene(Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00006	11/30/11		Spectra Gases, Lot cc-250159		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene(Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00019	11/19/11	08/19/11	VOA Free Water, Lot 1055	37.5 ppb	ATTO15EthCALs_00004	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00004	12/10/11	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15LCSW_00140	11/19/11	08/24/11	DI WATER, Lot 3093	15.463 L	ATTO15LCSSTKi_00023	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, Total	19.9961 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2,2,4-Trimethylpentane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							3-Chloropropene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoethene(Vinyl Bromide)	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Freon 22	9.99806 ppb v/v
							Freon TF	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butyl alcohol	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene (total)	29.9942 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15LCSSTKi_00023	11/19/11	08/19/11	DI WATER, Lot 1020	37.5 L	ATTO15LCSs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, Total	400 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene(Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene (total)	600 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15LCSs_00009	11/30/11	Spectra Gases, Lot CC-230119			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, Total	2 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene(Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene (total)	3 ppm v/v
							Xylene, o-	1 ppm v/v
ATTO15LCSW_00148	11/19/11	09/20/11	DI WATER, Lot 3344	15.463 L	ATTO15LCSSTKi_00023	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, Total	19.9961 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2,2,4-Trimethylpentane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							3-Chloropropene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoethene(Vinyl Bromide)	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Freon 22	9.99806 ppb v/v
							Freon TF	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butane	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butyl alcohol	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene (total)	29.9942 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15LCSSTKi_00023	11/19/11	08/19/11	DI WATER, Lot 1020	37.5 L	ATTO15LCSs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, Total	400 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene(Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	200 ppb v/v
							Xylene (total)	600 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15LCSs_00009	11/30/11	Spectra Gases, Lot CC-230119			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, Total	2 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene(Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene (total)	3 ppm v/v
							Xylene, o-	1 ppm v/v
ATTO15VISs_00004	11/15/11	Spectra Gases, Lot CC-318016			(Purchased Reagent)		1,4-Difluorobenzene	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v

Certification Summary

Client: Roux Associates, Inc.
Project/Site: Devon Self Storage

TestAmerica Job ID: 200-6944-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	ACLASS	DoD ELAP		ADE-1492
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	Delaware	Delaware DNREC	3	NA
TestAmerica Burlington	Florida	NELAC Secondary AB	4	E87467
TestAmerica Burlington	Louisiana	NELAC Secondary AB	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	State Program	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAC	1	200610
TestAmerica Burlington	New Jersey	NELAC	2	VT972
TestAmerica Burlington	New York	NELAC	2	10391
TestAmerica Burlington	Pennsylvania	NELAC	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	USDA	USDA		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method TO15

Volatile Organic Compounds (GC/MS) by Method TO15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Matrix: Air Level: Low Lab File ID: bkhe004.d

Lab ID: LCS 200-25690/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	10.4	104	70-130	
Freon 22	10.0	9.99	100	70-130	
1,2-Dichlorotetrafluoroethane	10.0	10.1	101	70-130	
Chloromethane	10.0	9.84	98	70-130	
n-Butane	10.0	9.69	97	70-130	
Vinyl chloride	10.0	9.93	99	70-130	
1,3-Butadiene	10.0	10.2	102	70-130	
Bromomethane	10.0	9.89	99	70-130	
Chloroethane	10.0	9.99	100	70-130	
Bromoethene(Vinyl Bromide)	10.0	10.6	106	70-130	
Trichlorofluoromethane	10.0	10.1	101	70-130	
Freon TF	10.0	10.8	108	70-130	
1,1-Dichloroethene	10.0	11.1	111	70-130	
Acetone	10.0	10.0	100	70-130	
Isopropyl alcohol	10.0	10.0	100	70-130	
Carbon disulfide	10.0	10.2	102	70-130	
3-Chloropropene	10.0	9.67	97	70-130	
Methylene Chloride	10.0	10.4	104	70-130	
tert-Butyl alcohol	10.0	10.2	102	70-130	
Methyl tert-butyl ether	10.0	9.95	100	70-130	
trans-1,2-Dichloroethene	10.0	9.88	99	70-130	
n-Hexane	10.0	9.60	96	70-130	
1,1-Dichloroethane	10.0	9.78	98	70-130	
Methyl Ethyl Ketone	10.0	9.35	93	70-130	
cis-1,2-Dichloroethene	10.0	10.4	104	70-130	
Chloroform	10.0	9.81	98	70-130	
Tetrahydrofuran	10.0	10.1	101	70-130	
1,1,1-Trichloroethane	10.0	9.90	99	70-130	
Cyclohexane	10.0	9.96	100	70-130	
Carbon tetrachloride	10.0	10.0	100	70-130	
2,2,4-Trimethylpentane	10.0	9.86	99	70-130	
Benzene	10.0	9.76	98	70-130	
1,2-Dichloroethane	10.0	9.72	97	70-130	
n-Heptane	10.0	9.41	94	70-130	
Trichloroethene	10.0	9.78	98	70-130	
Methyl methacrylate	10.0	10.1	101	70-130	
1,2-Dichloropropane	10.0	9.56	96	70-130	
1,4-Dioxane	10.0	9.65	97	70-130	
Bromodichloromethane	10.0	10.3	103	70-130	
cis-1,3-Dichloropropene	10.0	9.78	98	70-130	
methyl isobutyl ketone	10.0	10.1	101	70-130	
Toluene	10.0	9.72	97	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Matrix: Air Level: Low Lab File ID: bkhe004.d

Lab ID: LCS 200-25690/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	10.0	9.70	97	70-130	
1,1,2-Trichloroethane	10.0	9.48	95	70-130	
Tetrachloroethene	10.0	9.88	99	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.93	99	70-130	
Dibromochloromethane	10.0	10.8	108	70-130	
1,2-Dibromoethane	10.0	9.95	100	70-130	
Chlorobenzene	10.0	9.60	96	70-130	
Ethylbenzene	10.0	9.80	98	70-130	
m,p-Xylene	20.0	19.9	100	70-130	
Xylene, o-	10.0	9.73	97	70-130	
Styrene	10.0	10.1	102	70-130	
Bromoform	10.0	11.1	111	70-130	
Cumene	10.0	10.0	100	70-130	
1,1,2,2-Tetrachloroethane	10.0	9.63	96	70-130	
n-Propylbenzene	10.0	10.2	102	70-130	
4-Ethyltoluene	10.0	10.4	104	70-130	
1,3,5-Trimethylbenzene	10.0	9.90	99	70-130	
2-Chlorotoluene	10.0	10.1	101	70-130	
tert-Butylbenzene	10.0	10.1	101	70-130	
1,2,4-Trimethylbenzene	10.0	9.79	98	70-130	
sec-Butylbenzene	10.0	9.92	99	70-130	
4-Isopropyltoluene	10.0	10.3	103	70-130	
1,3-Dichlorobenzene	10.0	9.72	97	70-130	
1,4-Dichlorobenzene	10.0	9.70	97	70-130	
Benzyl chloride	10.0	8.85	89	70-130	
n-Butylbenzene	10.0	10.5	105	70-130	
1,2-Dichlorobenzene	10.0	9.42	94	70-130	
1,2,4-Trichlorobenzene	10.0	10.4	104	70-130	
Hexachlorobutadiene	10.0	9.98	100	70-130	
Naphthalene	10.0	11.3	113	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Lab File ID: bkhe005.d Lab Sample ID: MB 200-25690/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: B.i Date Analyzed: 09/21/2011 14:52

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-25690/4	bkhe004.d	09/21/2011 14:01
AMB-090911	200-6944-1	bkhe010.d	09/21/2011 19:15
SV-1	200-6944-2	bkhe011.d	09/21/2011 20:07
SV-2	200-6944-3	bkhe012.d	09/21/2011 20:59
SV-4	200-6944-4	bkhe013.d	09/21/2011 21:51
SV-3	200-6944-5	bkhe023.d	09/22/2011 06:34
SV-5	200-6944-6	bkhe024.d	09/22/2011 07:27
SV-6	200-6944-7	bkhe025.d	09/22/2011 08:19

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Lab File ID: bkh001.d BFB Injection Date: 09/15/2011

Instrument ID: B.i BFB Injection Time: 11:19

Analysis Batch No.: 25331

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	12.1	
75	30.0 - 66.0% of mass 95	41.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	108.9	
175	4.0 - 9.0 % of mass 174	7.8	(7.2)1
176	93.0 - 101.0% of mass 174	107.4	(98.6)1
177	5.0 - 9.0% of mass 176	7.1	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-25331/3	bkh003.d	09/15/2011	13:01
	IC 200-25331/4	bkh004.d	09/15/2011	13:53
	IC 200-25331/5	bkh005.d	09/15/2011	14:46
	ICIS 200-25331/6	bkh006.d	09/15/2011	15:38
	IC 200-25331/7	bkh007.d	09/15/2011	16:31
	IC 200-25331/8	bkh008.d	09/15/2011	17:23
	IC 200-25331/9	bkh009.d	09/15/2011	18:16
	ICV 200-25331/12	bkh012.d	09/15/2011	20:53

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Lab File ID: bkhe001.d BFB Injection Date: 09/21/2011

Instrument ID: B.i BFB Injection Time: 11:24

Analysis Batch No.: 25690

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.1	
75	30.0 - 66.0% of mass 95	44.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.5	(0.6)1
174	50.0 - 120.0% of mass 95	91.2	
175	4.0 - 9.0 % of mass 174	6.5	(7.1)1
176	93.0 - 101.0% of mass 174	88.2	(96.8)1
177	5.0 - 9.0% of mass 176	5.9	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-25690/3	bkhe003.d	09/21/2011	13:07
	LCS 200-25690/4	bkhe004.d	09/21/2011	14:01
	MB 200-25690/5	bkhe005.d	09/21/2011	14:52
AMB-090911	200-6944-1	bkhe010.d	09/21/2011	19:15
SV-1	200-6944-2	bkhe011.d	09/21/2011	20:07
SV-2	200-6944-3	bkhe012.d	09/21/2011	20:59
SV-4	200-6944-4	bkhe013.d	09/21/2011	21:51
SV-3	200-6944-5	bkhe023.d	09/22/2011	06:34
SV-5	200-6944-6	bkhe024.d	09/22/2011	07:27
SV-6	200-6944-7	bkhe025.d	09/22/2011	08:19

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Sample No.: ICIS 200-25331/6 Date Analyzed: 09/15/2011 15:38

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): bkh006.d Heated Purge: (Y/N) N

Calibration ID: 9969

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		676647	9.18	3253233	10.59	2986355	14.72
UPPER LIMIT		947306	9.51	4554526	10.92	4180897	15.05
LOWER LIMIT		405988	8.85	1951940	10.26	1791813	14.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-25331/12		804599	9.18	3782773	10.59	3397736	14.72

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Sample No.: CCVIS 200-25690/3 Date Analyzed: 09/21/2011 13:07

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): bkhe003.d Heated Purge: (Y/N) N

Calibration ID: 9969

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		871220	9.18	4109846	10.59	3756742	14.72
UPPER LIMIT		1219708	9.51	5753784	10.92	5259439	15.05
LOWER LIMIT		522732	8.85	2465908	10.26	2254045	14.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-25690/4		962966	9.18	4526051	10.59	4119109	14.72
MB 200-25690/5		964040	9.18	4544730	10.59	4019445	14.72
200-6944-1	AMB-090911	618439	9.18	3001830	10.59	2656015	14.72
200-6944-2	SV-1	627425	9.18	3060135	10.59	2674758	14.72
200-6944-3	SV-2	640520	9.18	3075082	10.59	2740389	14.72
200-6944-4	SV-4	609370	9.18	2956160	10.59	2608575	14.72
200-6944-5	SV-3	565689	9.18	2775844	10.59	2415365	14.72
200-6944-6	SV-5	558817	9.18	2763141	10.59	2403269	14.72
200-6944-7	SV-6	584068	9.18	2831898	10.59	2551248	14.72

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: AMB-090911 Lab Sample ID: 200-6944-1

Matrix: Air Lab File ID: bkhe010.d

Analysis Method: TO-15 Date Collected: 09/09/2011 16:33

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 19:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	0.76		0.50	0.50
75-45-6	Freon 22	86.47	0.74		0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.20
74-87-3	Chloromethane	50.49	0.88		0.50	0.50
106-97-8	n-Butane	58.12	1.2		0.50	0.50
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.20
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.20
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	137.37	0.28		0.20	0.20
76-13-1	Freon TF	187.38	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
67-64-1	Acetone	58.08	12		5.0	5.0
67-63-0	Isopropyl alcohol	60.10	8.1		5.0	5.0
75-15-0	Carbon disulfide	76.14	0.96		0.50	0.50
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	84.93	0.50		0.50	0.50
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
110-54-3	n-Hexane	86.17	0.63		0.20	0.20
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.20
78-93-3	Methyl Ethyl Ketone	72.11	0.79		0.50	0.50
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.20	U	0.20	0.20
67-66-3	Chloroform	119.38	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.20
110-82-7	Cyclohexane	84.16	0.29		0.20	0.20
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.30		0.20	0.20
71-43-2	Benzene	78.11	0.34		0.20	0.20
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.20
142-82-5	n-Heptane	100.21	0.38		0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: AMB-090911 Lab Sample ID: 200-6944-1

Matrix: Air Lab File ID: bkhe010.d

Analysis Method: TO-15 Date Collected: 09/09/2011 16:33

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 19:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	112.99	0.38		0.20	0.20
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	100.16	0.88		0.50	0.50
108-88-3	Toluene	92.14	6.1		0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	112.30	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	106.17	0.31		0.20	0.20
179601-23-1	m,p-Xylene	106.17	0.96		0.50	0.50
95-47-6	Xylene, o-	106.17	0.36		0.20	0.20
1330-20-7	Xylene (total)	106.17	1.3		0.20	0.20
100-42-5	Styrene	104.15	0.20	U	0.20	0.20
75-25-2	Bromoform	252.75	0.20	U	0.20	0.20
98-82-8	Cumene	120.19	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	120.20	0.33		0.20	0.20
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.20

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: AMB-090911 Lab Sample ID: 200-6944-1

Matrix: Air Lab File ID: bkhe010.d

Analysis Method: TO-15 Date Collected: 09/09/2011 16:33

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 19:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.20
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.50

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: AMB-090911 Lab Sample ID: 200-6944-1

Matrix: Air Lab File ID: bkhe010.d

Analysis Method: TO-15 Date Collected: 09/09/2011 16:33

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 19:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	3.7		2.5	2.5
75-45-6	Freon 22	86.47	2.6		1.8	1.8
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	1.4
74-87-3	Chloromethane	50.49	1.8		1.0	1.0
106-97-8	n-Butane	58.12	2.8		1.2	1.2
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.44
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.78
75-00-3	Chloroethane	64.52	1.3	U	1.3	1.3
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.87
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	1.1
76-13-1	Freon TF	187.38	1.5	U	1.5	1.5
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
67-64-1	Acetone	58.08	29		12	12
67-63-0	Isopropyl alcohol	60.10	20		12	12
75-15-0	Carbon disulfide	76.14	3.0		1.6	1.6
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	1.6
75-09-2	Methylene Chloride	84.93	1.7		1.7	1.7
75-65-0	tert-Butyl alcohol	74.12	15	U	15	15
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.72
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
110-54-3	n-Hexane	86.17	2.2		0.70	0.70
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.81
78-93-3	Methyl Ethyl Ketone	72.11	2.3		1.5	1.5
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	0.79	U	0.79	0.79
67-66-3	Chloroform	119.38	0.98	U	0.98	0.98
109-99-9	Tetrahydrofuran	72.11	15	U	15	15
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	1.1
110-82-7	Cyclohexane	84.16	1.0		0.69	0.69
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	1.3
540-84-1	2,2,4-Trimethylpentane	114.23	1.4		0.93	0.93
71-43-2	Benzene	78.11	1.1		0.64	0.64
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.81
142-82-5	n-Heptane	100.21	1.6		0.82	0.82

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: AMB-090911 Lab Sample ID: 200-6944-1

Matrix: Air Lab File ID: bkhe010.d

Analysis Method: TO-15 Date Collected: 09/09/2011 16:33

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 19:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.1
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	2.0
78-87-5	1,2-Dichloropropane	112.99	1.7		0.92	0.92
123-91-1	1,4-Dioxane	88.11	18	U	18	18
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	1.3
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.91
108-10-1	methyl isobutyl ketone	100.16	3.6		2.0	2.0
108-88-3	Toluene	92.14	23		0.75	0.75
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.91
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	1.1
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	1.4
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	2.0
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	1.7
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	1.5
108-90-7	Chlorobenzene	112.30	0.92	U	0.92	0.92
100-41-4	Ethylbenzene	106.17	1.4		0.87	0.87
179601-23-1	m,p-Xylene	106.17	4.2		2.2	2.2
95-47-6	Xylene, o-	106.17	1.6		0.87	0.87
1330-20-7	Xylene (total)	106.17	5.7		0.87	0.87
100-42-5	Styrene	104.15	0.85	U	0.85	0.85
75-25-2	Bromoform	252.75	2.1	U	2.1	2.1
98-82-8	Cumene	120.19	0.98	U	0.98	0.98
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	1.4
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.98
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.98
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.98
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	1.0
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	1.1
95-63-6	1,2,4-Trimethylbenzene	120.20	1.6		0.98	0.98
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	1.1
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	1.1
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	1.2
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	1.2
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	1.0
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	1.1

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: AMB-090911 Lab Sample ID: 200-6944-1

Matrix: Air Lab File ID: bkhe010.d

Analysis Method: TO-15 Date Collected: 09/09/2011 16:33

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 19:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	1.2
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	3.7
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	2.1
91-20-3	Naphthalene	128.17	2.6	U	2.6	2.6

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-6944-1
Client Smp ID: AMB-090911
Inj Date : 21-SEP-2011 19:15
Operator : pad Inst ID: B.i
Smp Info : 200-6944-A-1
Misc Info : 200,1, all74
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/to15v5.m
Meth Date : 23-Sep-2011 09:43 wrd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	3.034	3.034	(0.331)	77433	0.75565	0.76
3 Chlorodifluoromethane	51	3.066	3.066	(0.334)	29476	0.74020	0.74
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	3.328	3.333	(0.363)	17997	0.88009	0.88
6 Butane	43	3.477	3.477	(0.379)	39983	1.17059	1.2(Q)
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	4.769	4.785	(0.520)	46910	0.28162	0.28
17 1,1,2-Trichloro-1,2,2-trifluo	101	5.756	5.772	(0.627)	9853	0.07997	0.080(a)
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.023	6.023	(0.656)	940212	12.3079	12

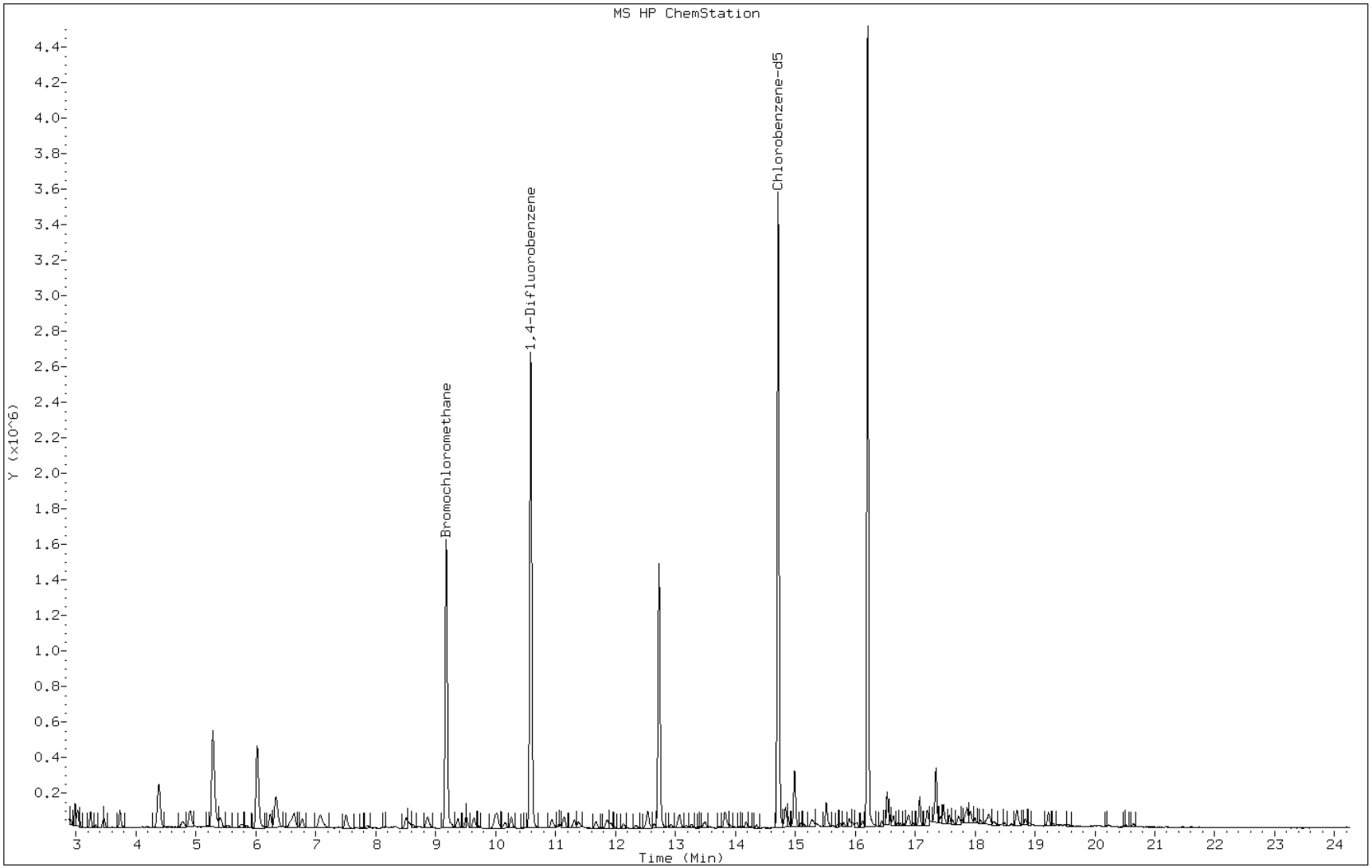
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	21 Carbon disulfide	76	6.247	6.247	(0.681)	161515	0.96018	0.96
	22 Isopropanol	45	6.338	6.306	(0.691)	436722	8.07088	8.1
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.781	6.781	(0.739)	27165	0.50203	0.50
	26 Tert-butyl alcohol	59	7.096	7.010	(0.773)	115786	1.31460	1.3(aQ)
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.507	7.512	(0.818)	56265	0.62881	0.63
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	8.852	8.836	(0.965)	24905	0.78559	0.79(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	618439	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	9.263	9.263	(1.009)	7549	0.05902	0.059(aM)
	40 Cyclohexane	84	9.503	9.513	(0.898)	27206	0.29424	0.29(Q)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	9.711	9.711	(0.917)	13130	0.08210	0.082(aM)
	43 2,2,4-Trimethylpentane	57	9.999	9.999	(0.945)	83161	0.29979	0.30
	44 Benzene	78	10.031	10.031	(0.948)	66523	0.34390	0.34
	45 1,2-Dichloroethane	62	10.149	10.138	(0.959)	14830	0.18114	0.18(a)
	46 n-Heptane	43	10.266	10.266	(0.970)	36897	0.37839	0.38
*	47 1,4-Difluorobenzene	114	10.586	10.592	(1.000)	3001830	10.0000	
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	11.312	11.317	(1.069)	25069	0.37641	0.38
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	12.534	12.497	(1.184)	98534	0.88045	0.88
	58 Toluene	92	12.726	12.732	(0.865)	882069	6.07327	6.1
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.505	13.500	(0.918)	11111	0.08250	0.083(aM)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	2656015	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	14.840	14.840	(1.008)	98948	0.31123	0.31
	69 Xylene (m,p)	106	14.989	14.994	(1.018)	125213	0.96173	0.96
M	70 Xylenes, Total	106				171577	1.32012	1.3
	71 Xylene (o)	106	15.523	15.523	(1.055)	46364	0.35838	0.36
	72 Styrene	104	15.555	15.550	(1.057)	17319	0.09129	0.091(a)
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	15.950	15.950	(1.084)	11843	0.03159	0.032(a)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
76 n-Propylbenzene	91	16.446	16.441	(1.117)	27349	0.06541	0.065(a)
79 4-Ethyltoluene	105	16.569	16.574	(1.126)	32967	0.08722	0.087(aM)
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	16.638	16.644	(1.131)	30071	0.09453	0.095(a)
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	17.081	17.081	(1.161)	102843	0.32522	0.33
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	17.465	17.465	(1.187)	19647	0.08361	0.084(a)
88 1,4-Dichlorobenzene	146	17.583	17.578	(1.195)	11081	0.04646	0.046(a)
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	bkhe010.d	Date:	21-SEP-2011 19:15
Client ID:	AMB-090911	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-6944-A-1		
Lab Sample ID:	200-6944-1		



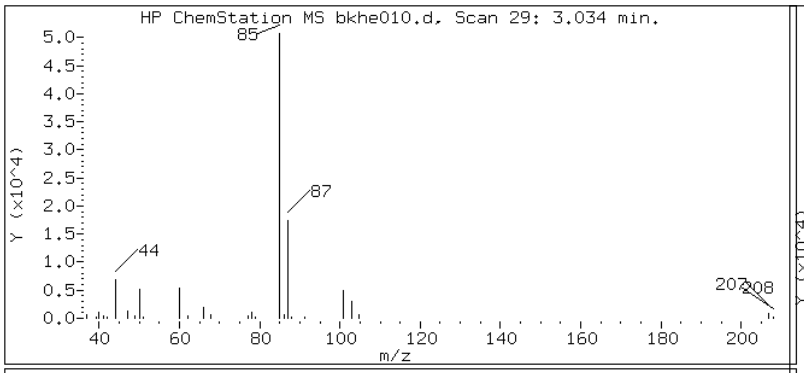
Data File: bkhe010.d

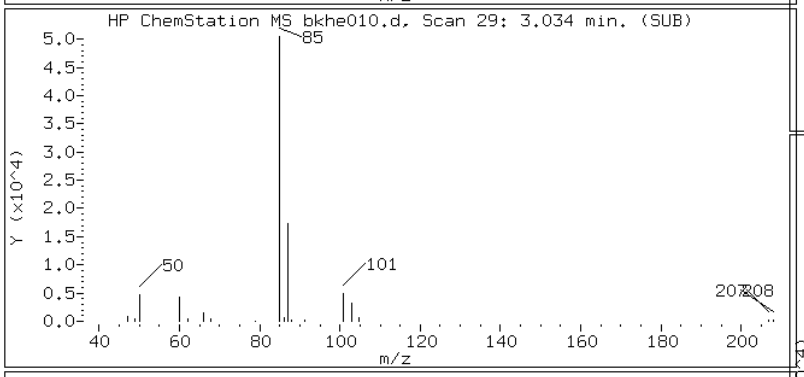
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

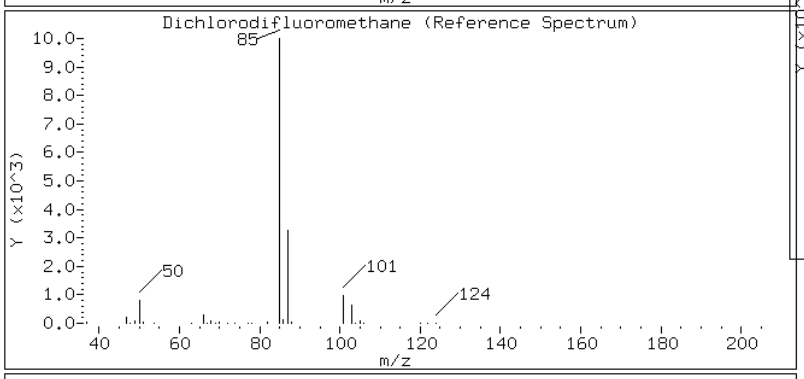
Client ID: AMB-090911 Instrument: B.i

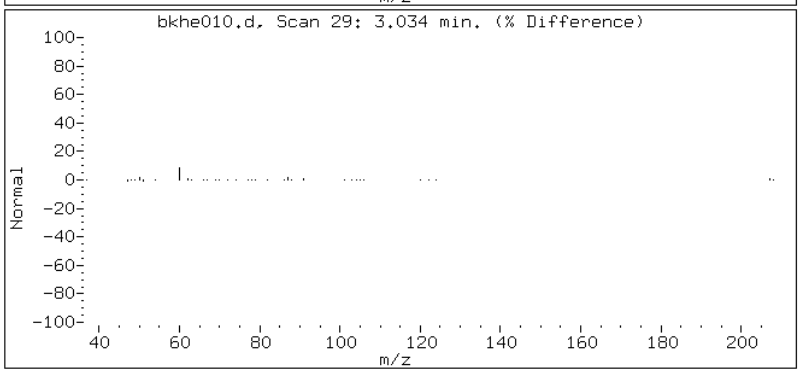
Sample Info: 200-6944-A-1 Operator: pad

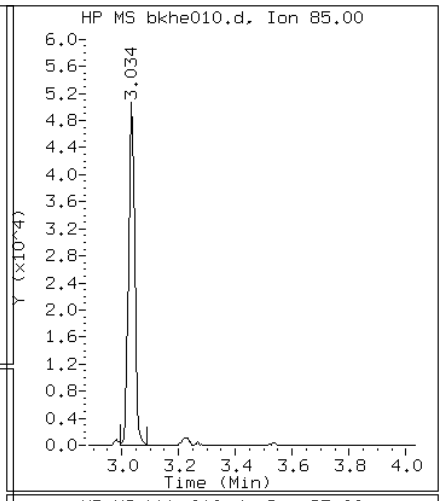
2 Dichlorodifluoromethane

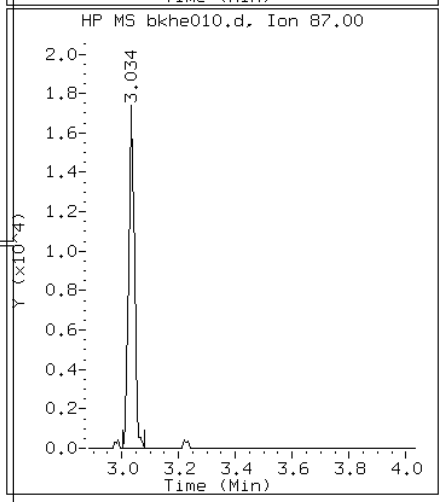












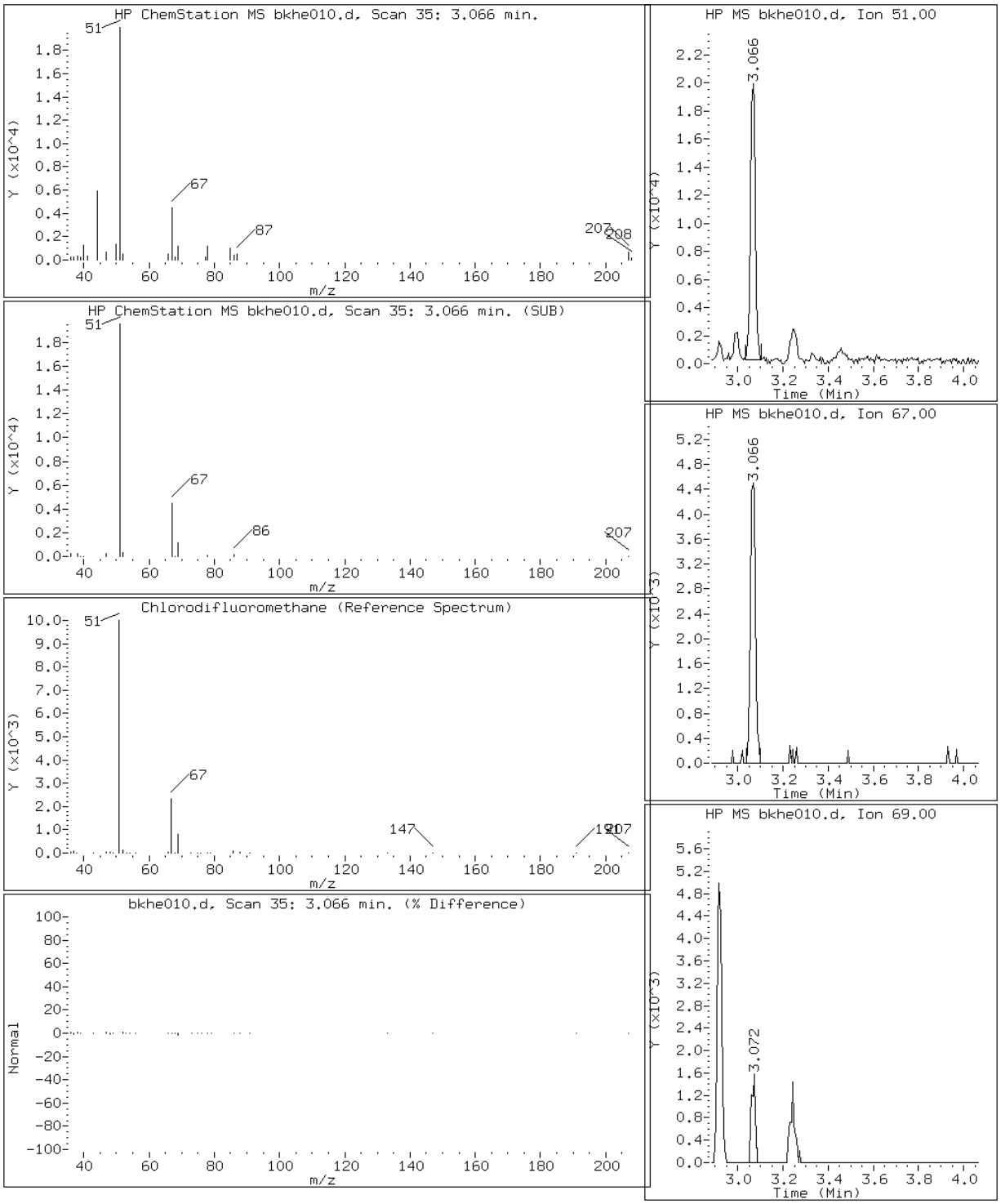
Data File: bkhe010.d

Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

Client ID: AMB-090911 Instrument: B.i

Sample Info: 200-6944-A-1 Operator: pad

3 Chlorodifluoromethane



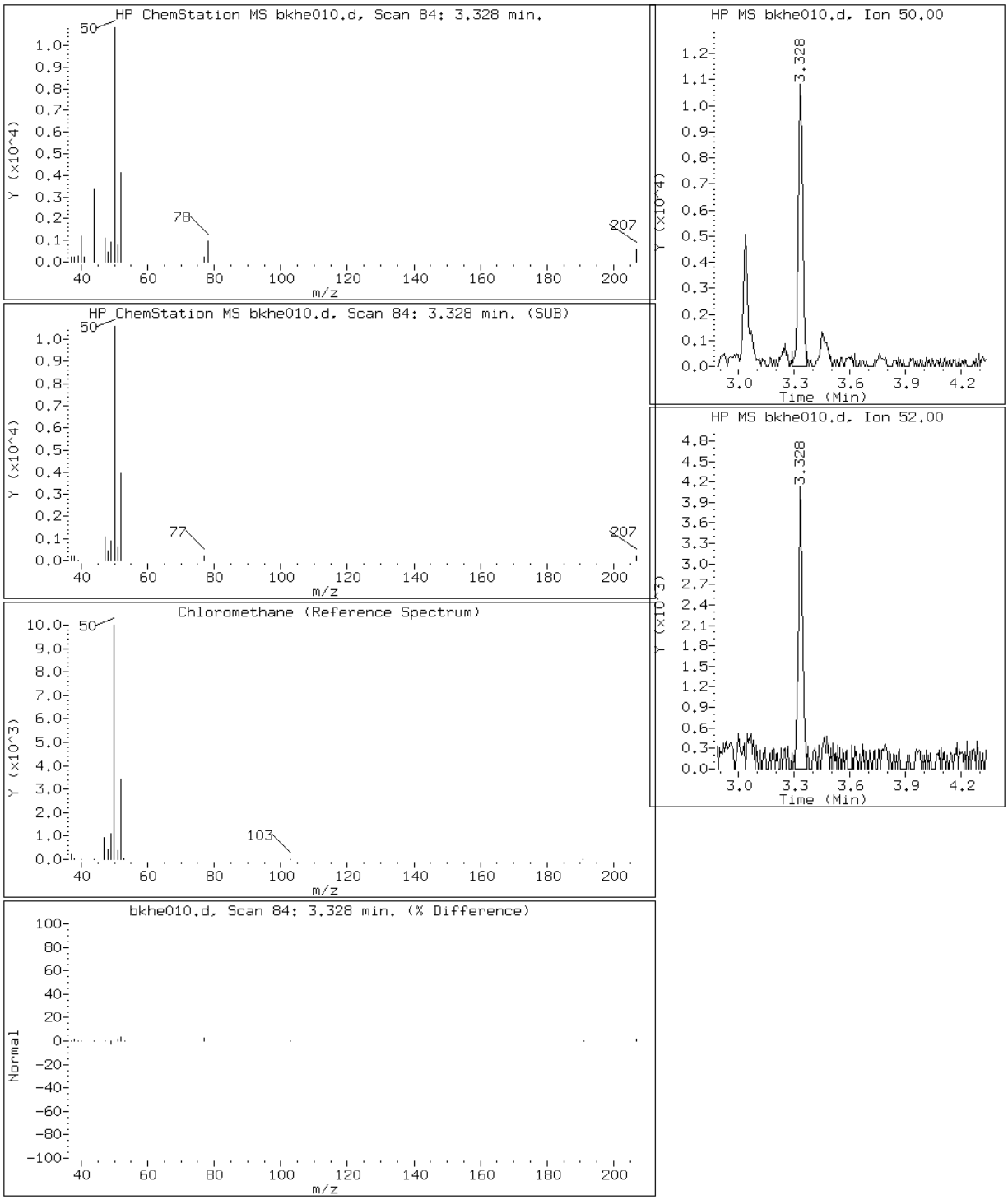
Data File: bkhe010.d

Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

Client ID: AMB-090911 Instrument: B.i

Sample Info: 200-6944-A-1 Operator: pad

5 Chloromethane



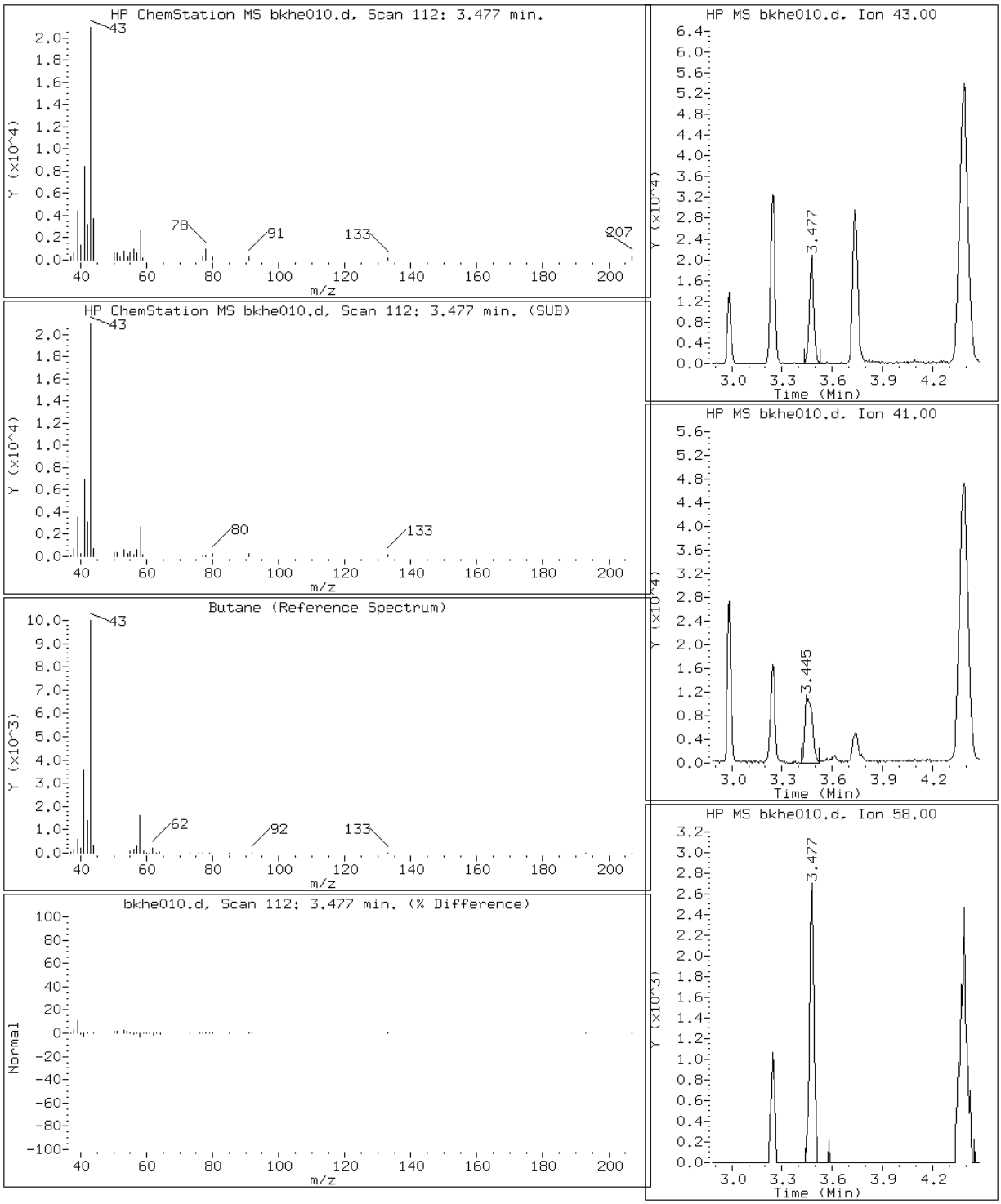
Data File: bkhe010.d

Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

Client ID: AMB-090911 Instrument: B.i

Sample Info: 200-6944-A-1 Operator: pad

6 Butane



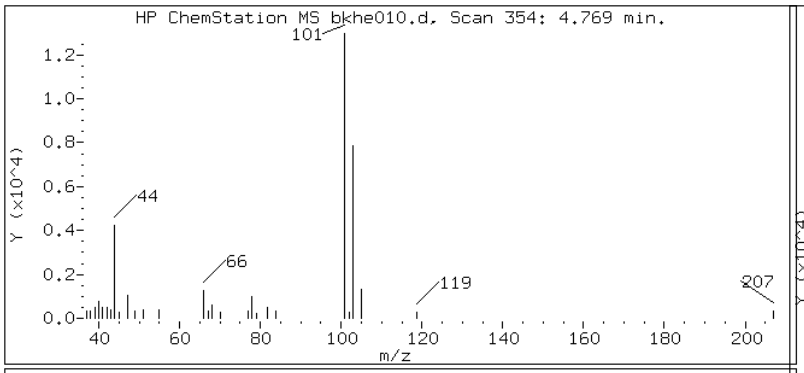
Data File: bkhe010.d

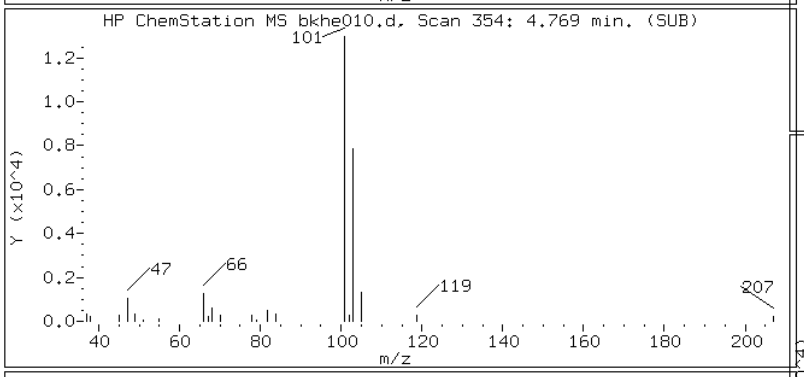
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

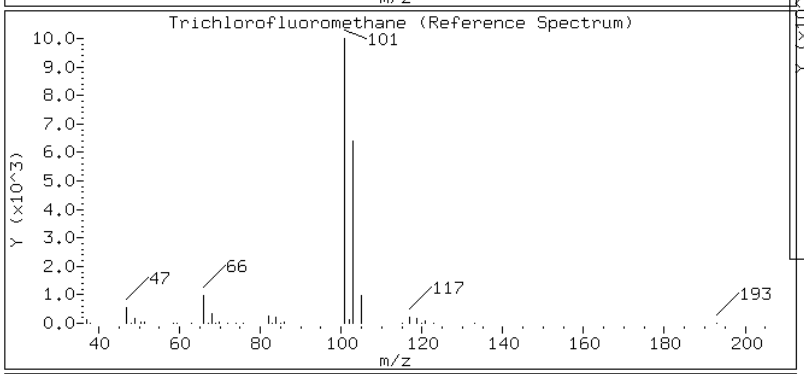
Client ID: AMB-090911 Instrument: B.i

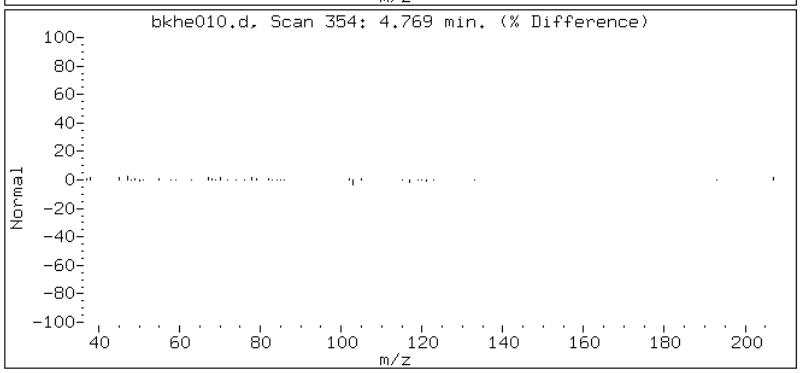
Sample Info: 200-6944-A-1 Operator: pad

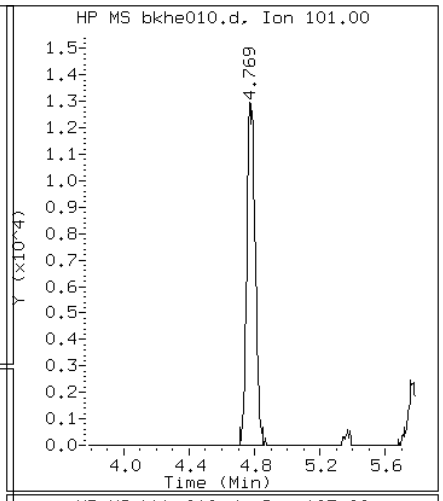
13 Trichlorofluoromethane

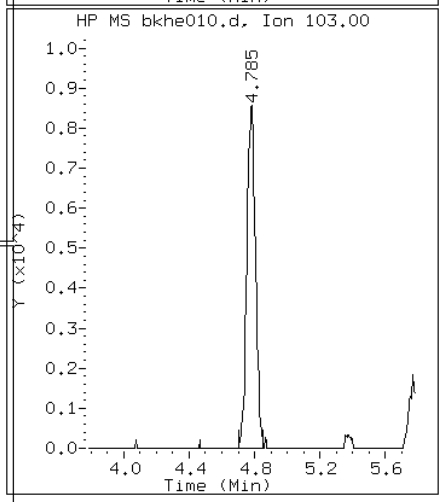












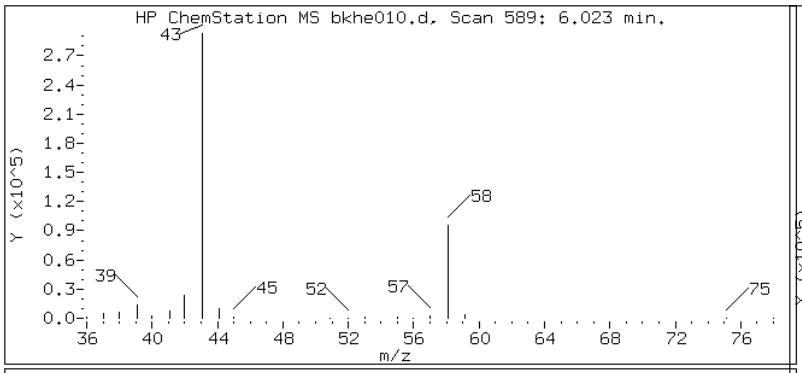
Data File: bkhe010.d

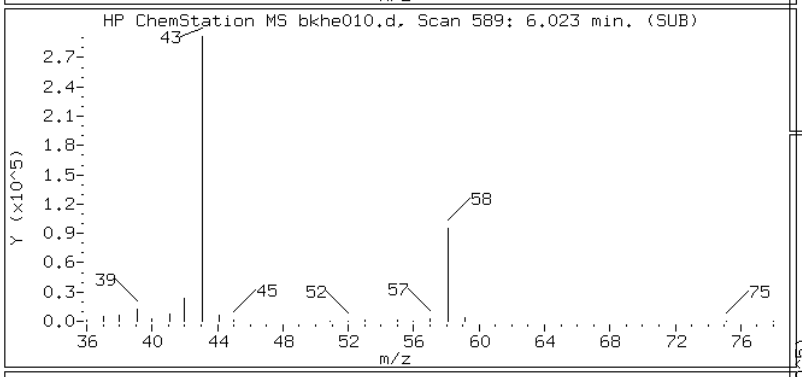
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

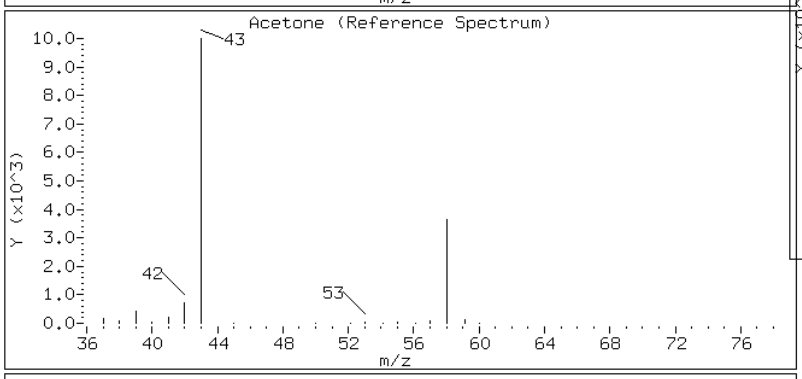
Client ID: AMB-090911 Instrument: B.i

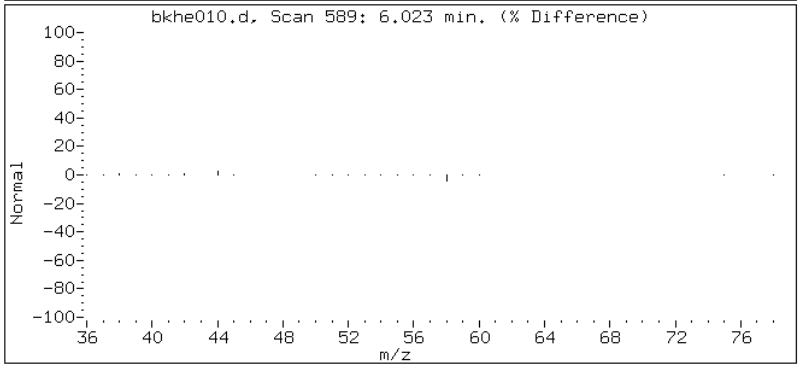
Sample Info: 200-6944-A-1 Operator: pad

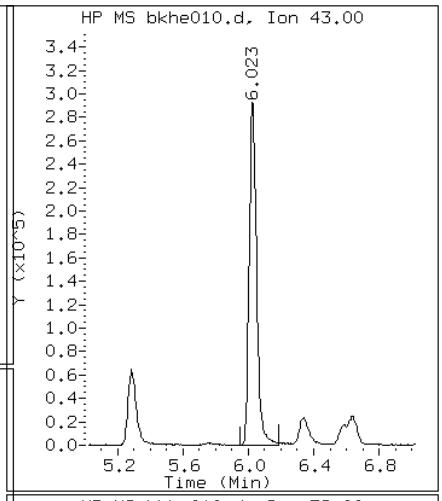
20 Acetone

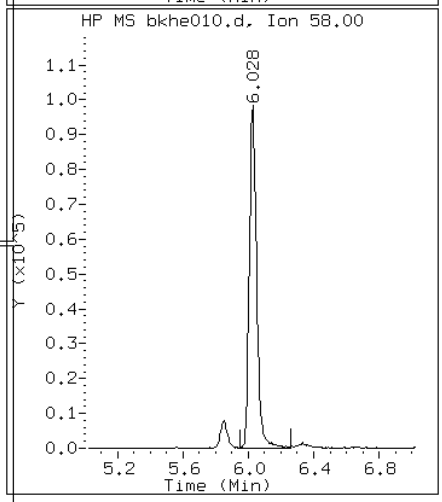












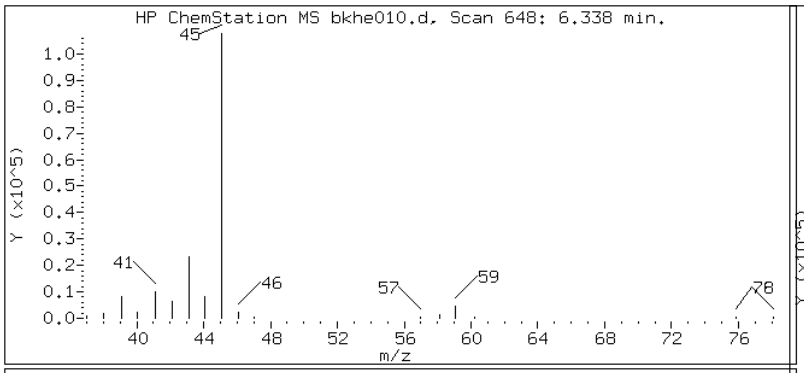
Data File: bkhe010.d

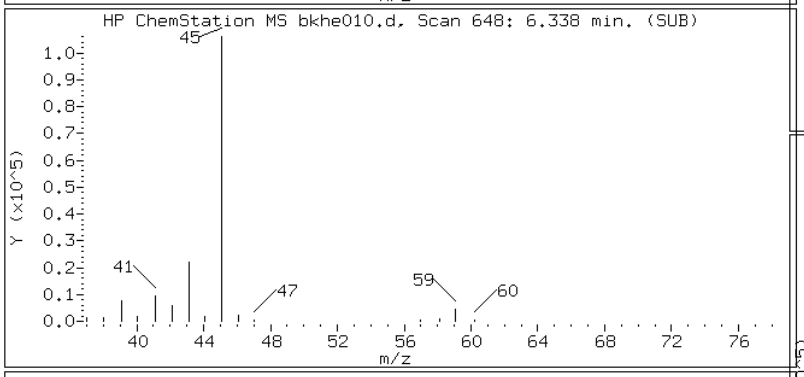
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

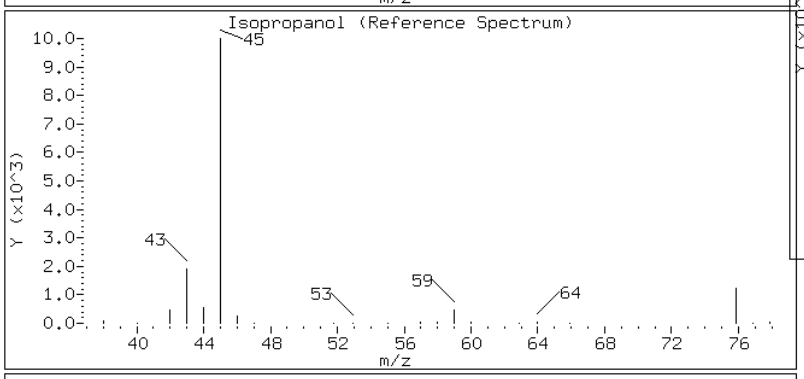
Client ID: AMB-090911 Instrument: B.i

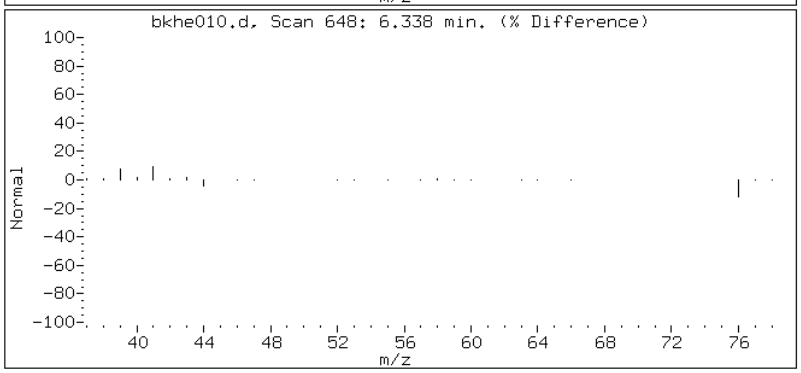
Sample Info: 200-6944-A-1 Operator: pad

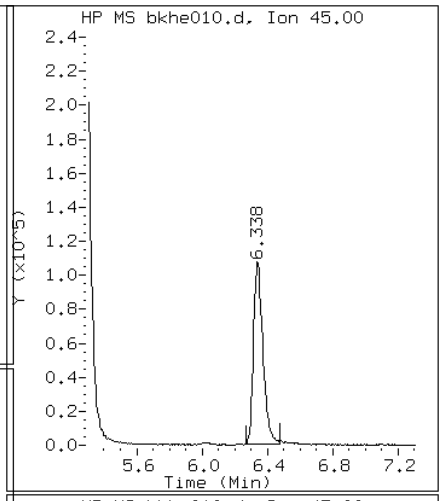
22 Isopropanol

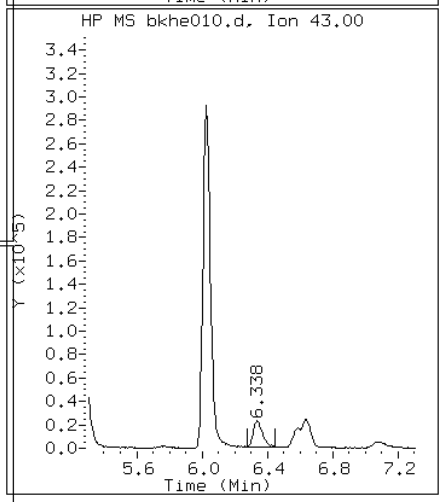












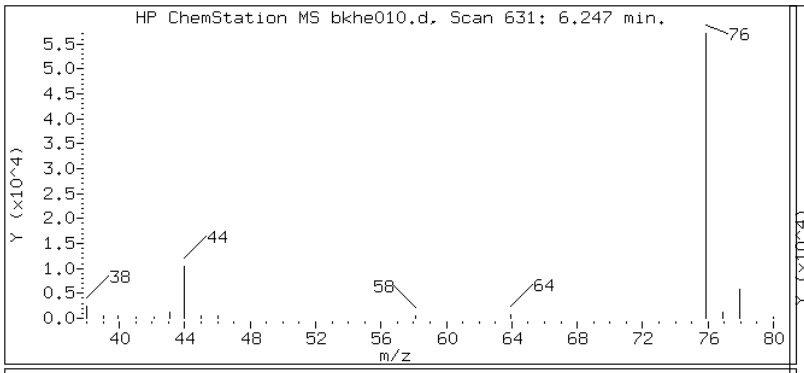
Data File: bkhe010.d

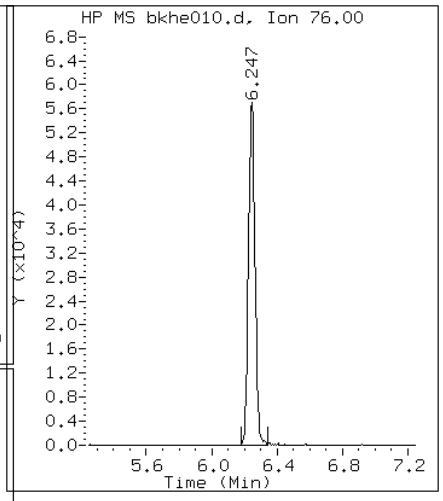
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

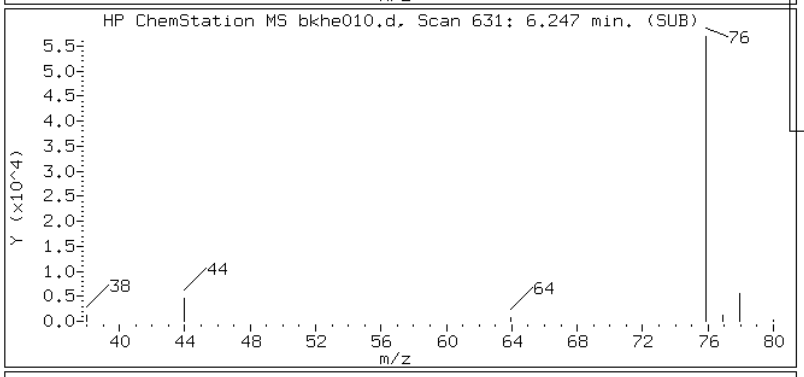
Client ID: AMB-090911 Instrument: B.i

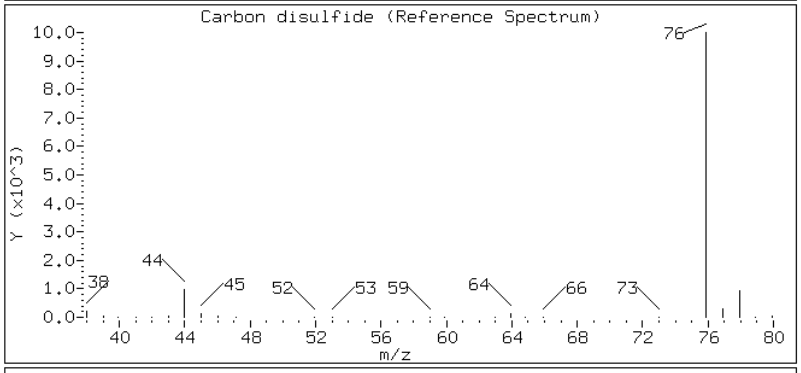
Sample Info: 200-6944-A-1 Operator: pad

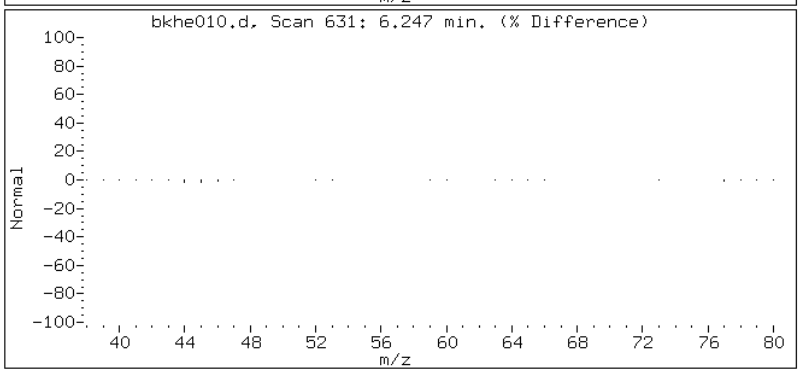
21 Carbon disulfide











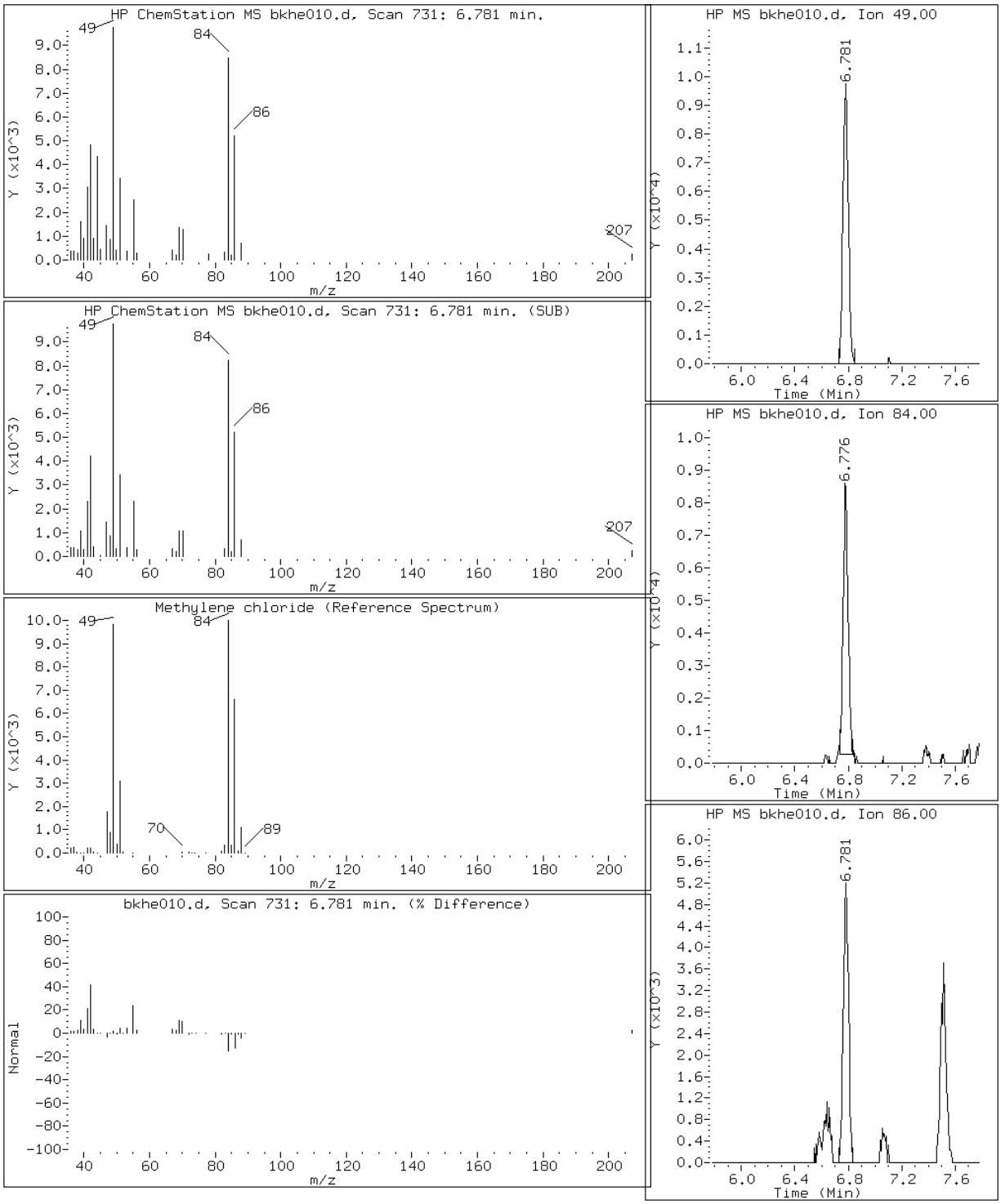
Data File: bkhe010.d

Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

Client ID: AMB-090911 Instrument: B.i

Sample Info: 200-6944-A-1 Operator: pad

25 Methylene chloride



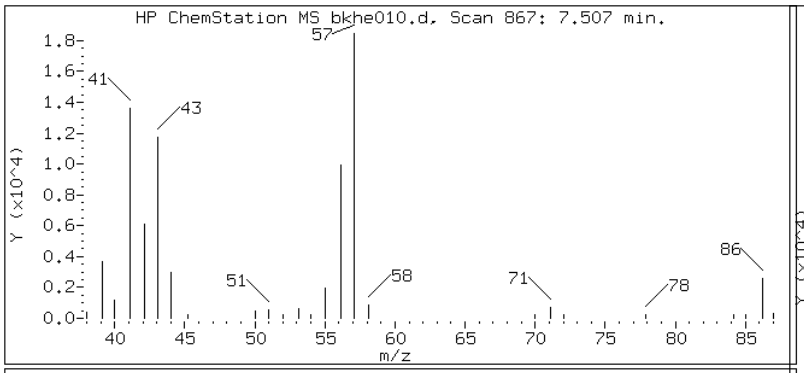
Data File: bkhe010.d

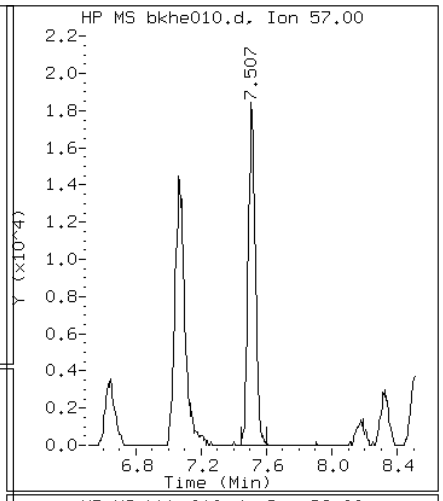
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

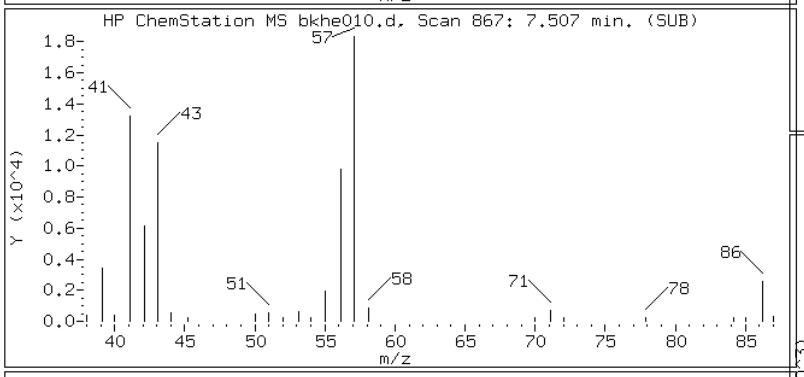
Client ID: AMB-090911 Instrument: B.i

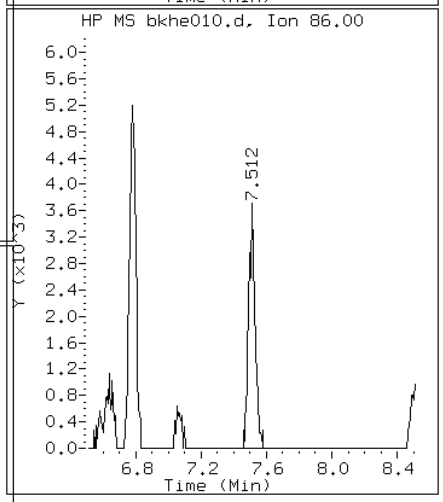
Sample Info: 200-6944-A-1 Operator: pad

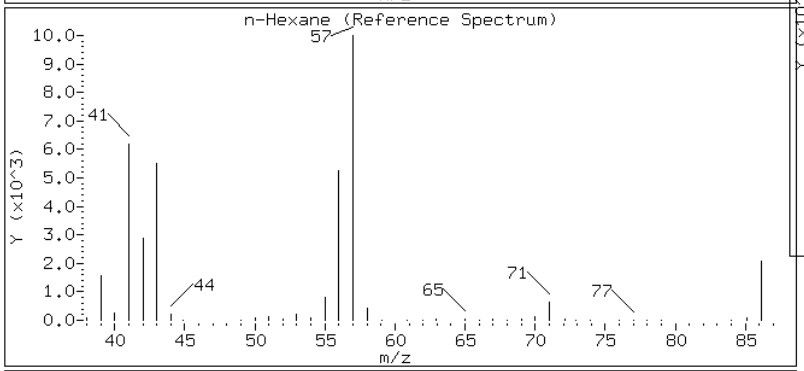
30 n-Hexane

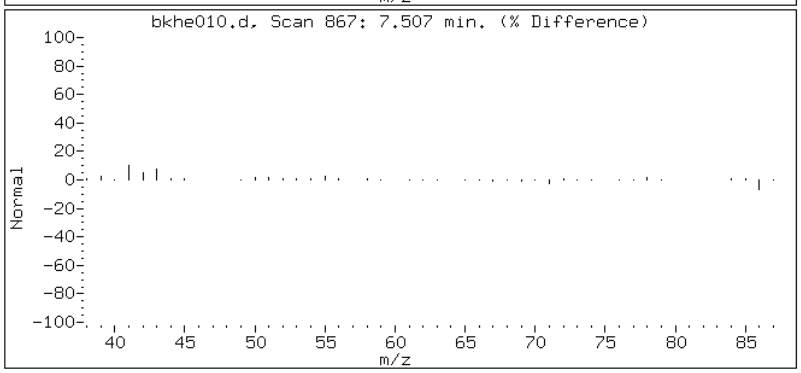












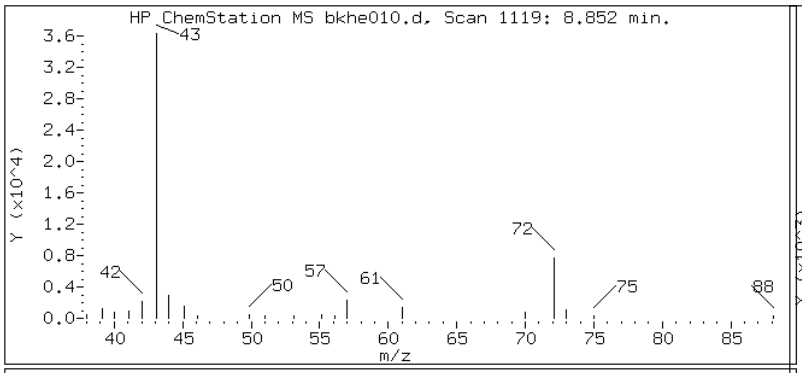
Data File: bkhe010.d

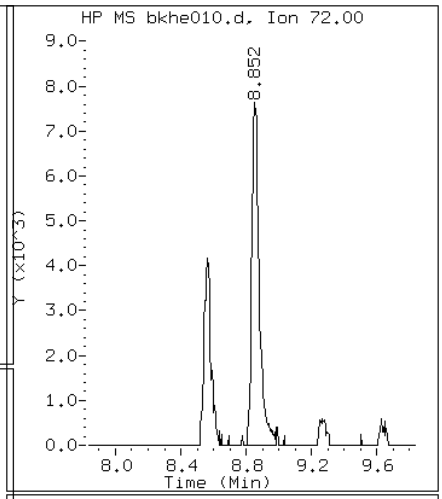
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

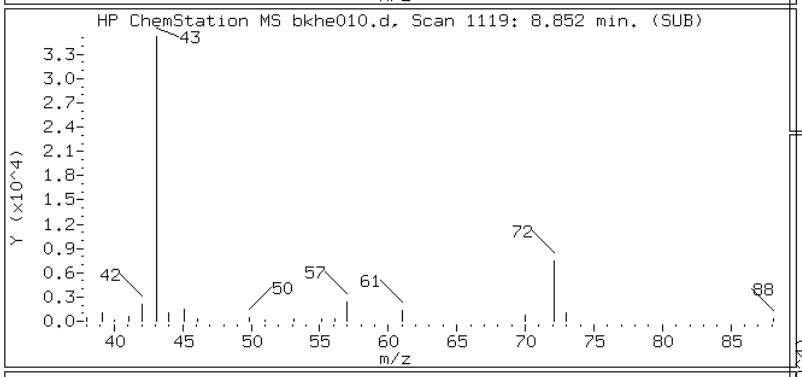
Client ID: AMB-090911 Instrument: B.i

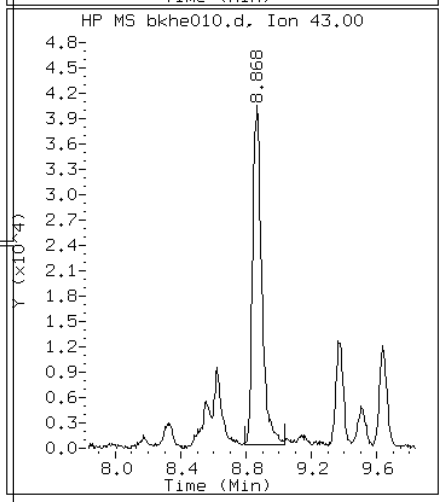
Sample Info: 200-6944-A-1 Operator: pad

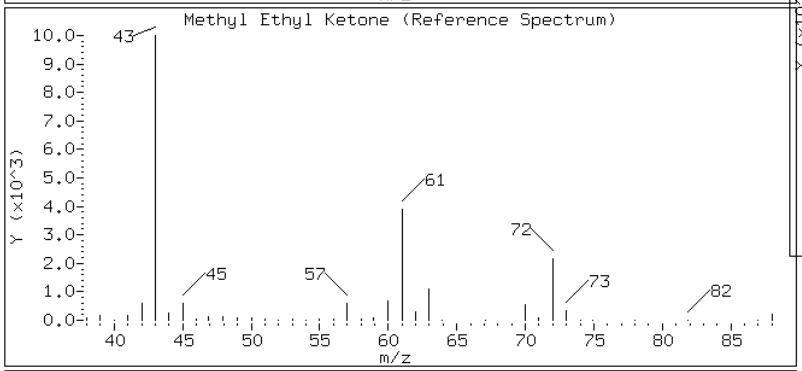
36 Methyl Ethyl Ketone

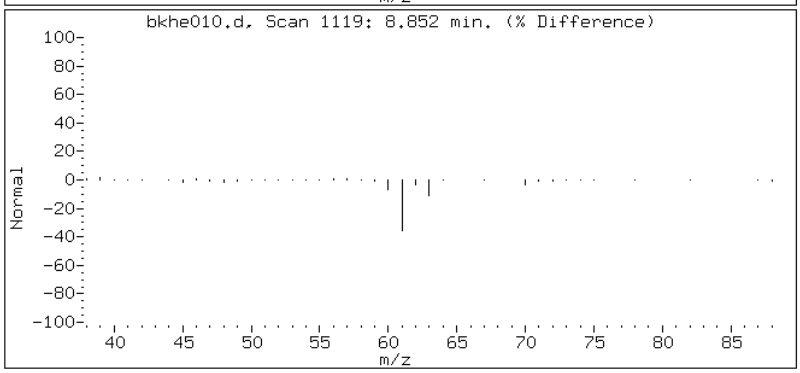












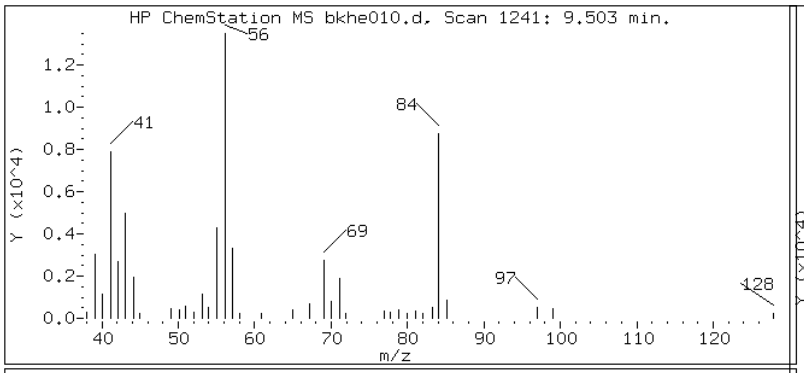
Data File: bkhe010.d

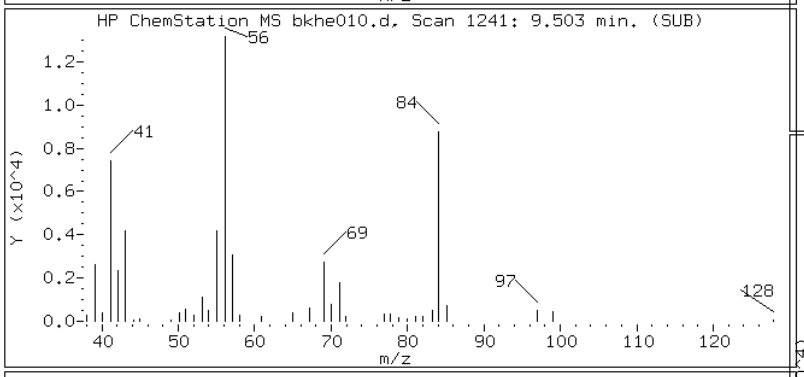
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

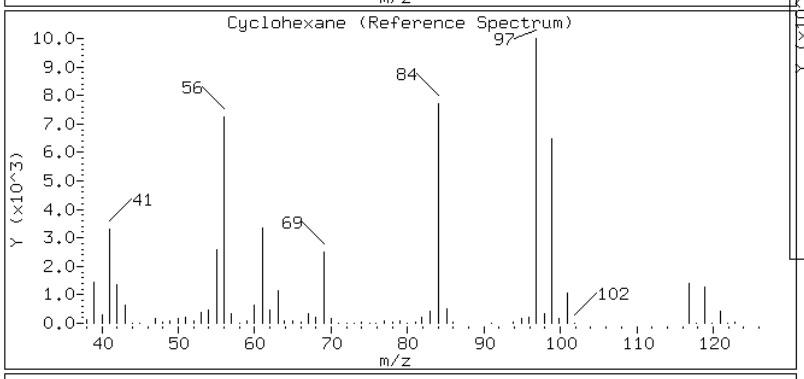
Client ID: AMB-090911 Instrument: B.i

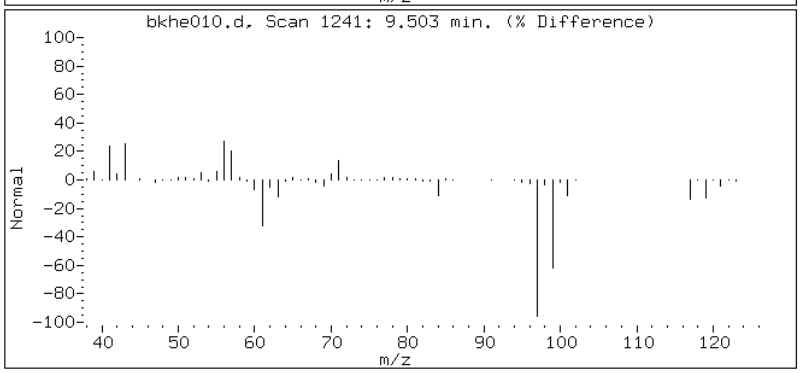
Sample Info: 200-6944-A-1 Operator: pad

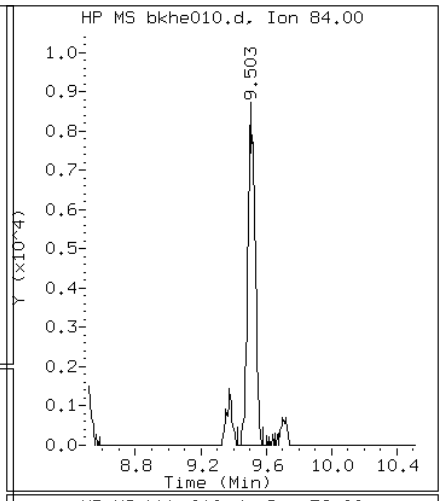
40 Cyclohexane

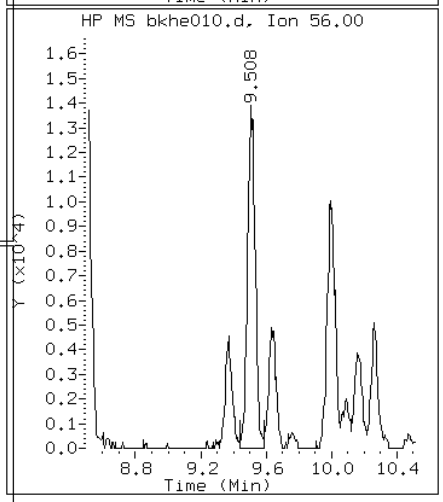












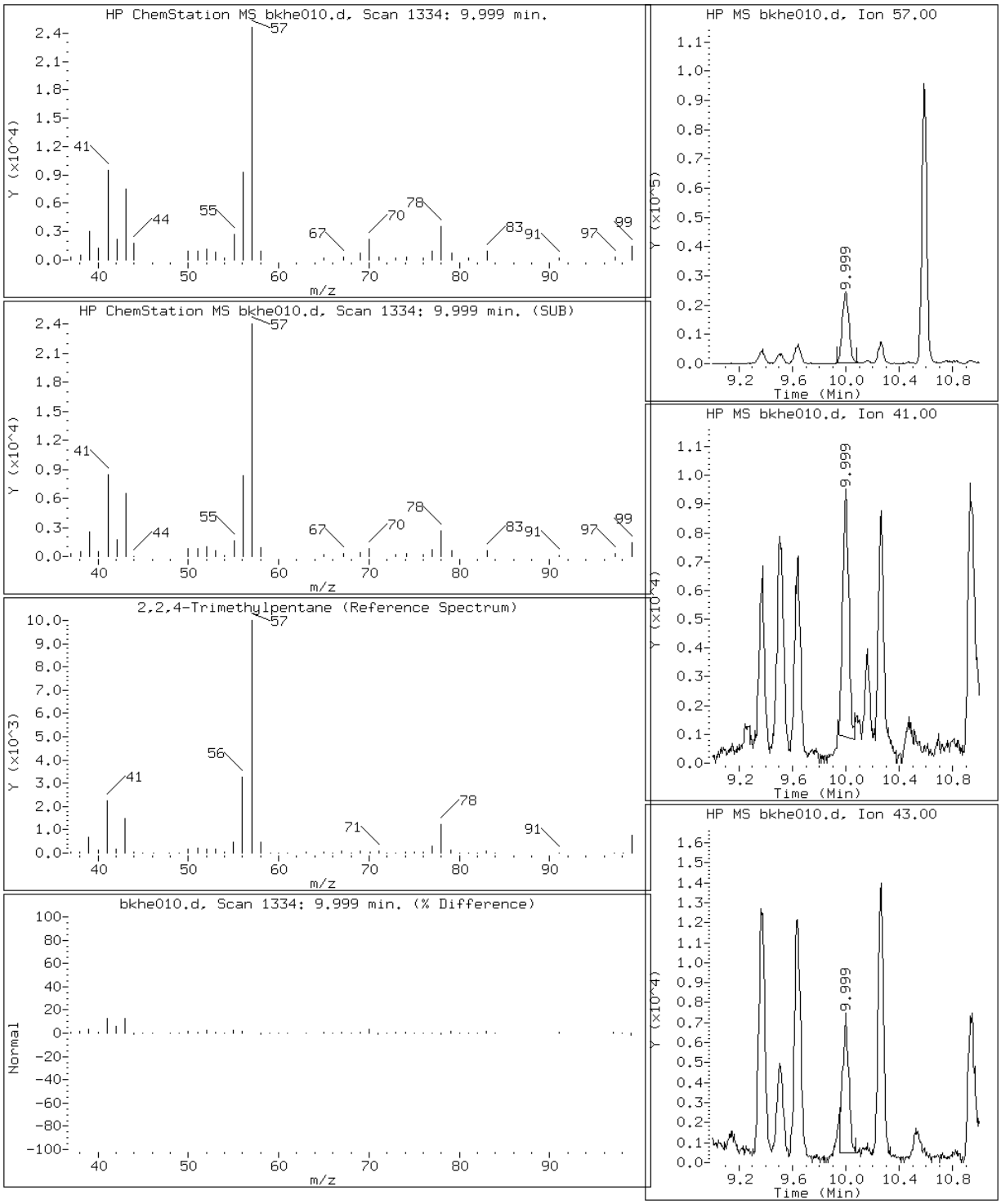
Data File: bkhe010.d

Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

Client ID: AMB-090911 Instrument: B.i

Sample Info: 200-6944-A-1 Operator: pad

43 2,2,4-Trimethylpentane



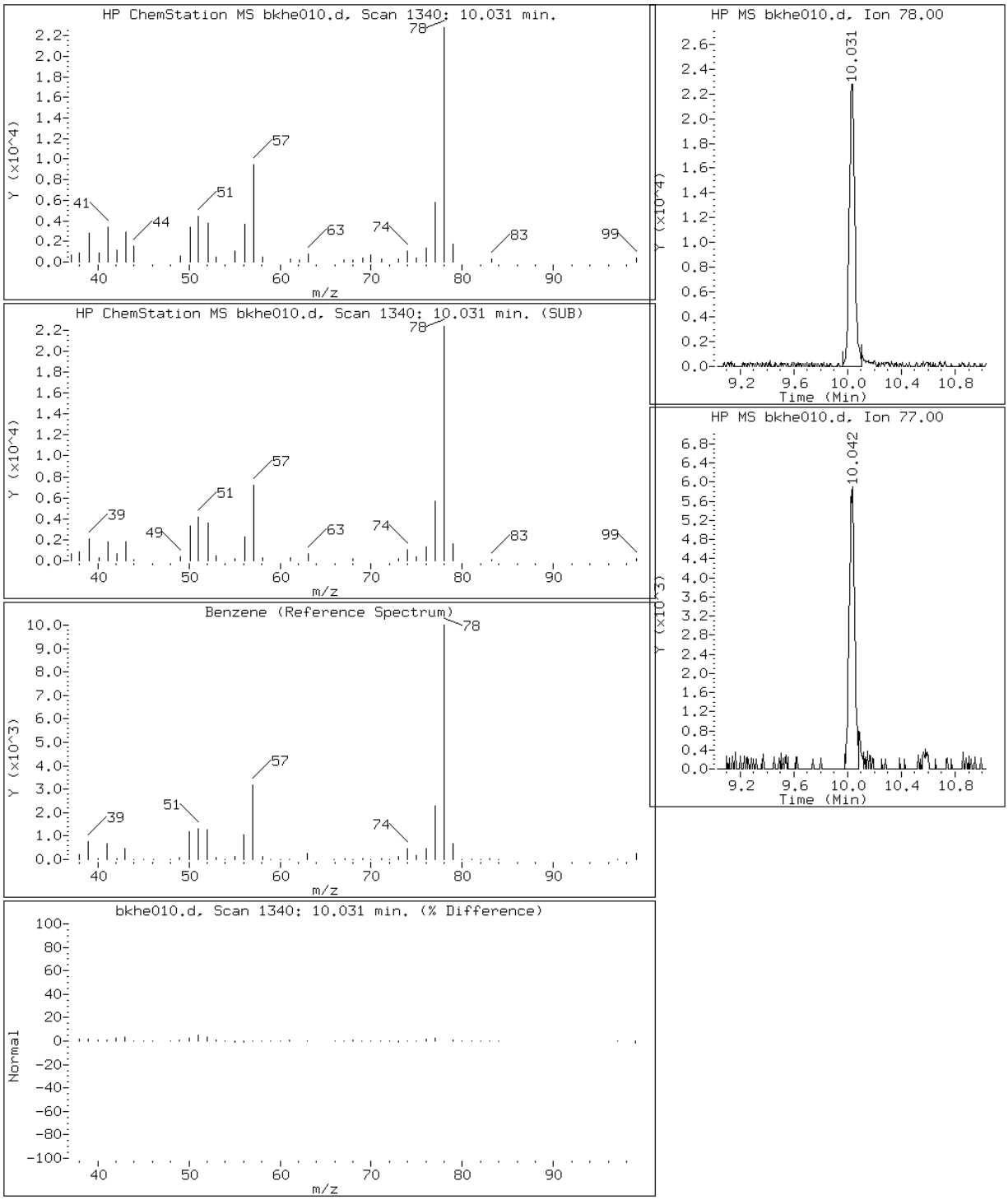
Data File: bkhe010.d

Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

Client ID: AMB-090911 Instrument: B.i

Sample Info: 200-6944-A-1 Operator: pad

44 Benzene



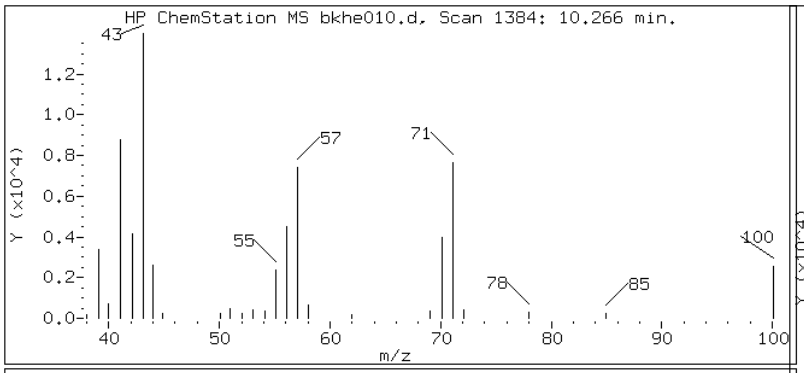
Data File: bkhe010.d

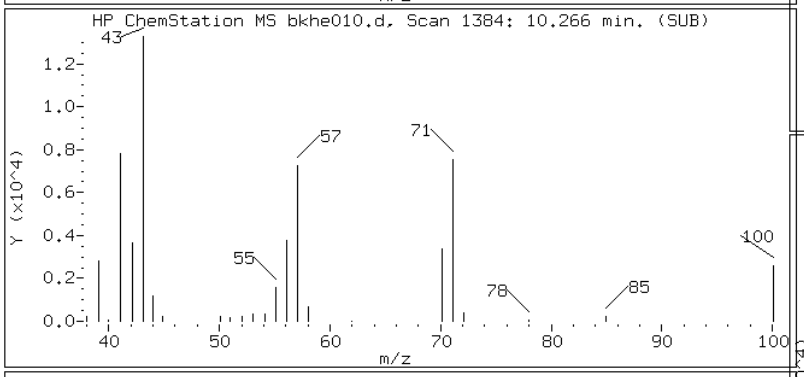
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

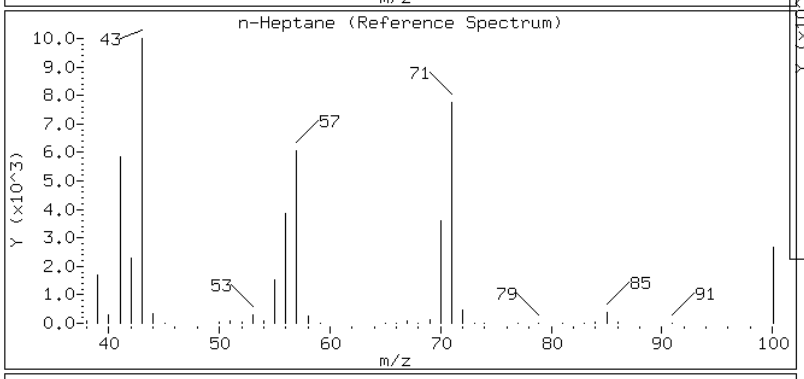
Client ID: AMB-090911 Instrument: B.i

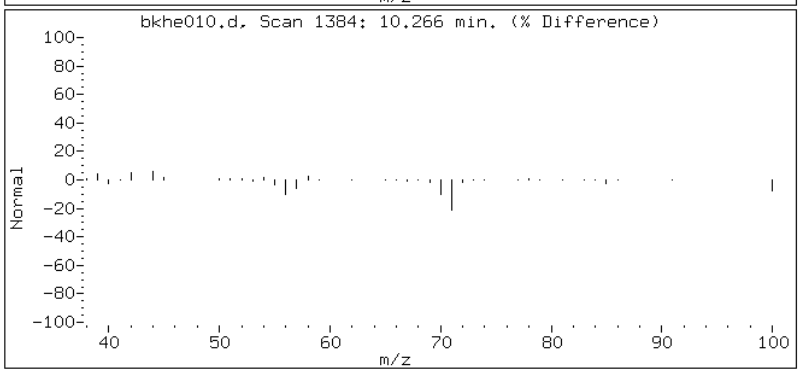
Sample Info: 200-6944-A-1 Operator: pad

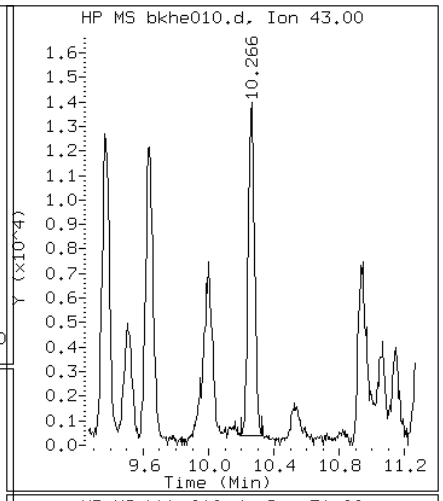
46 n-Heptane

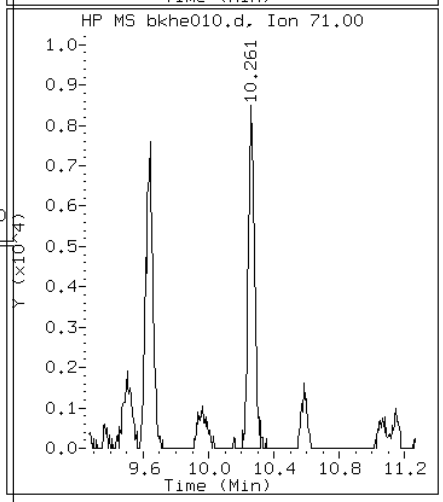












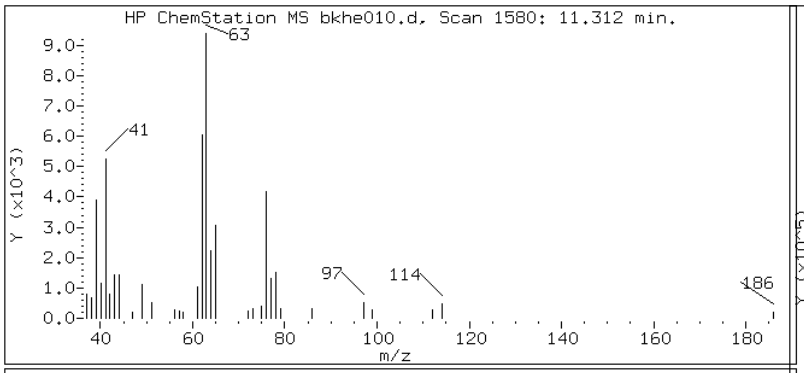
Data File: bkhe010.d

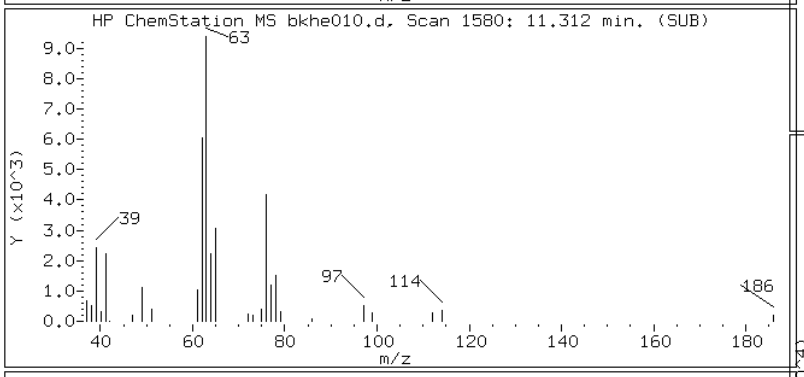
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

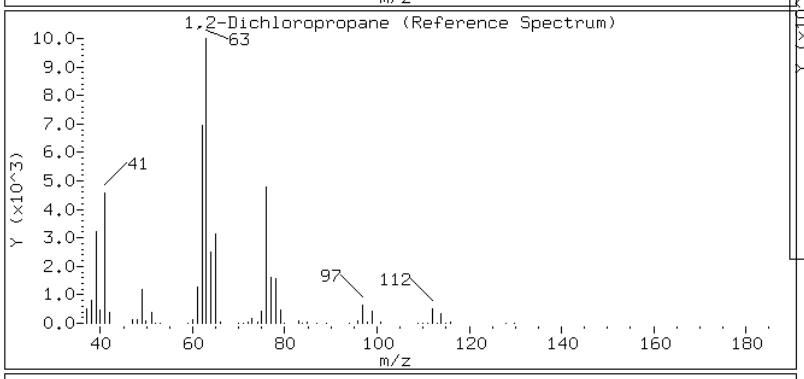
Client ID: AMB-090911 Instrument: B.i

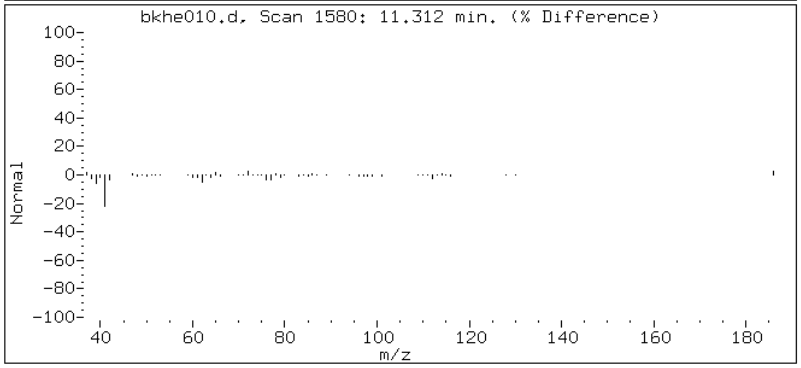
Sample Info: 200-6944-A-1 Operator: pad

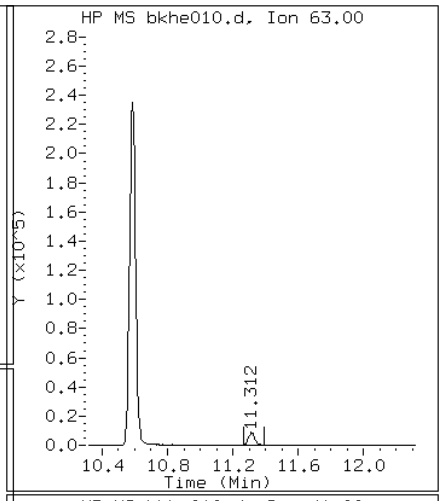
50 1,2-Dichloropropane

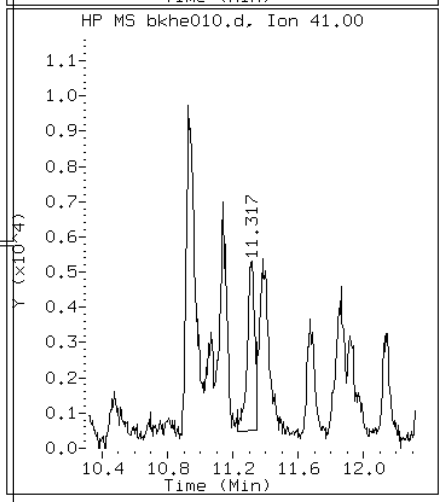












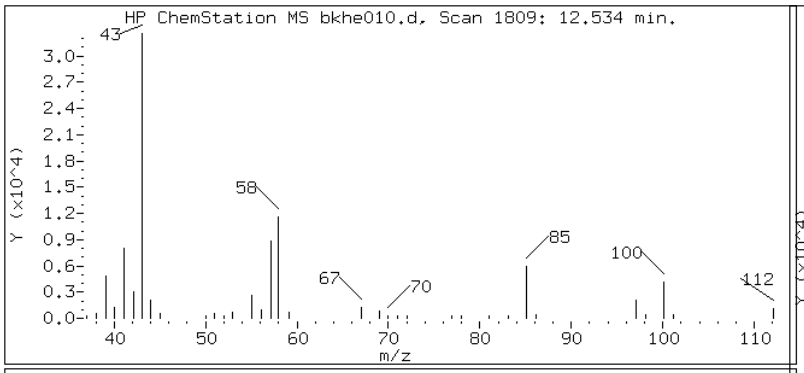
Data File: bkhe010.d

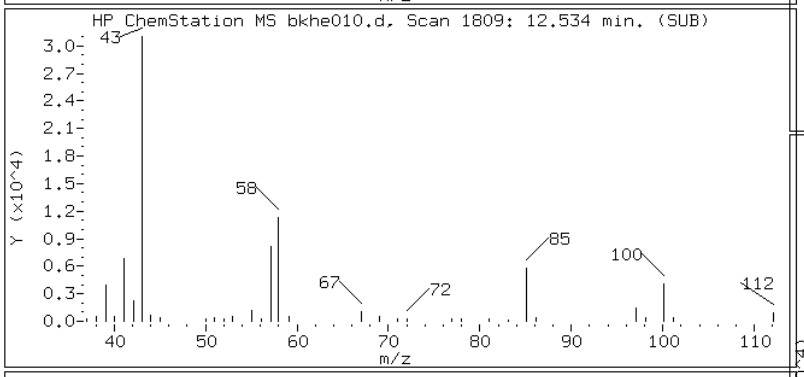
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

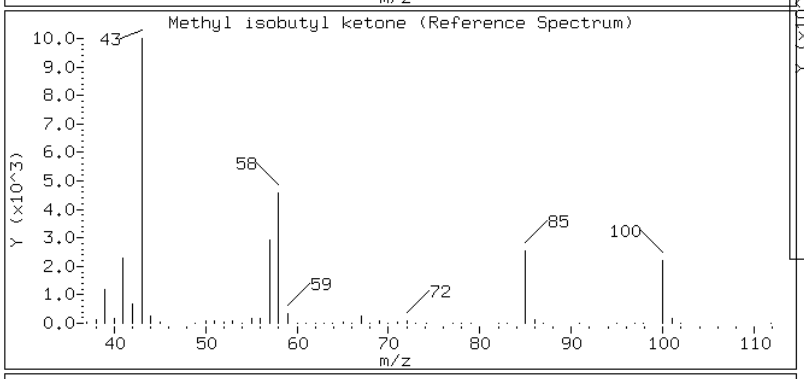
Client ID: AMB-090911 Instrument: B.i

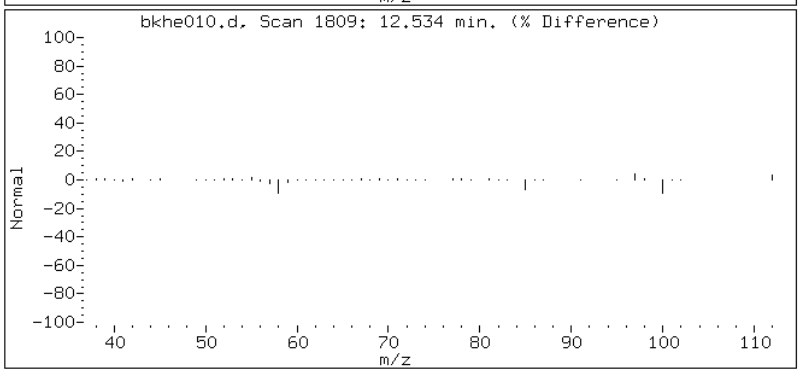
Sample Info: 200-6944-A-1 Operator: pad

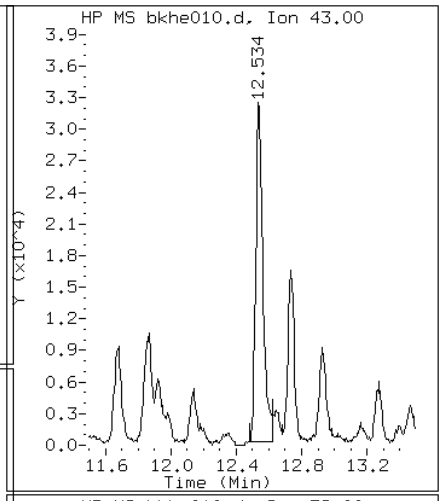
56 Methyl isobutyl ketone

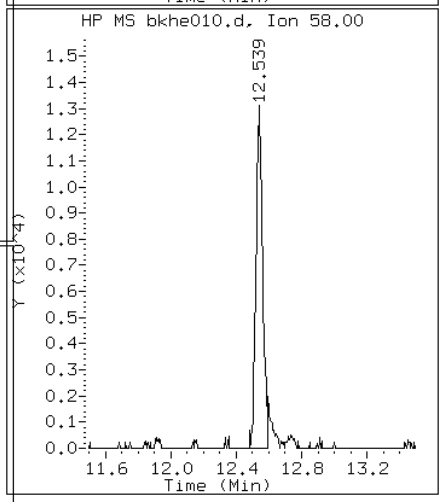












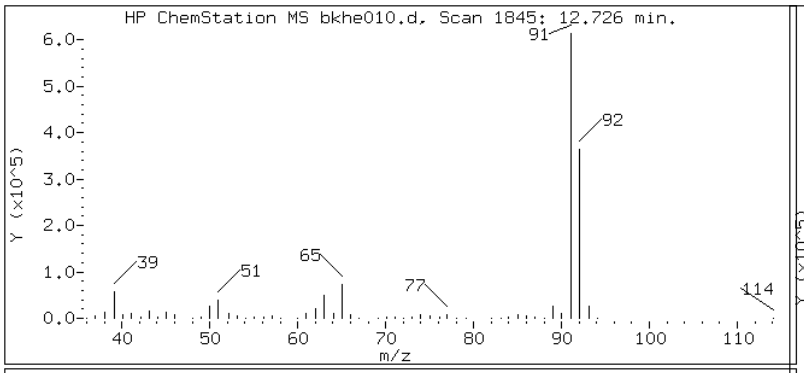
Data File: bkhe010.d

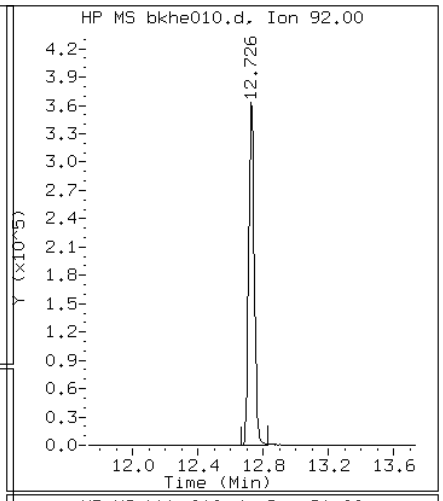
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

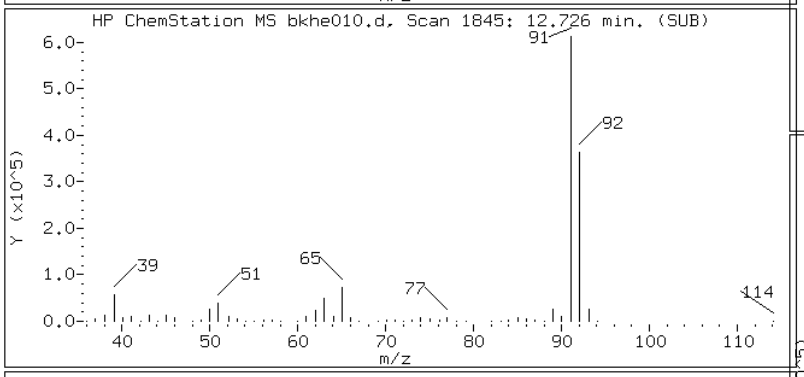
Client ID: AMB-090911 Instrument: B.i

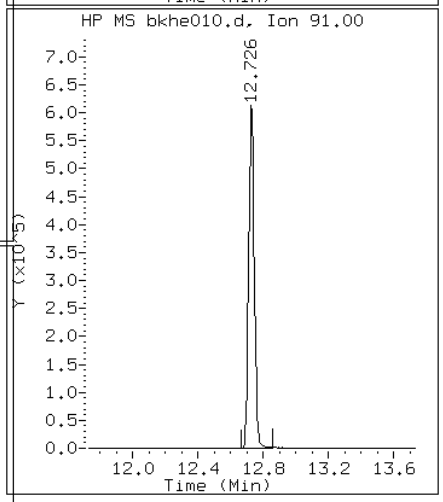
Sample Info: 200-6944-A-1 Operator: pad

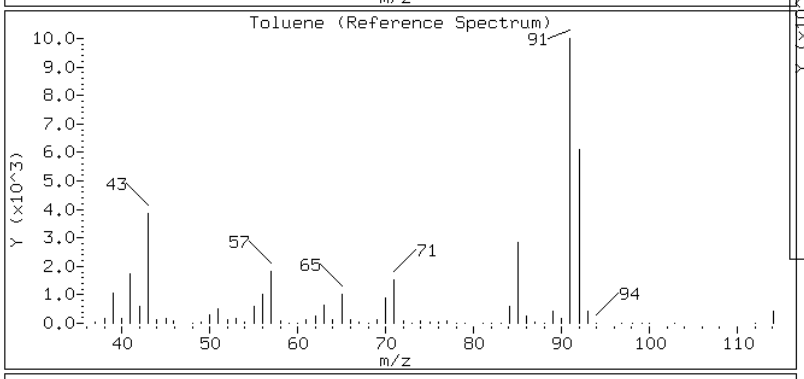
58 Toluene

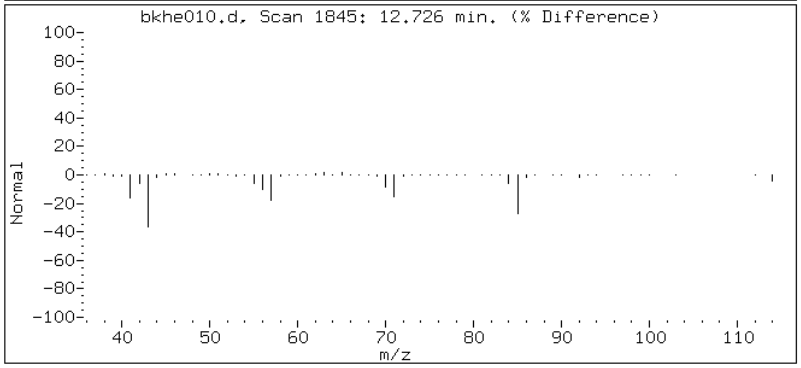












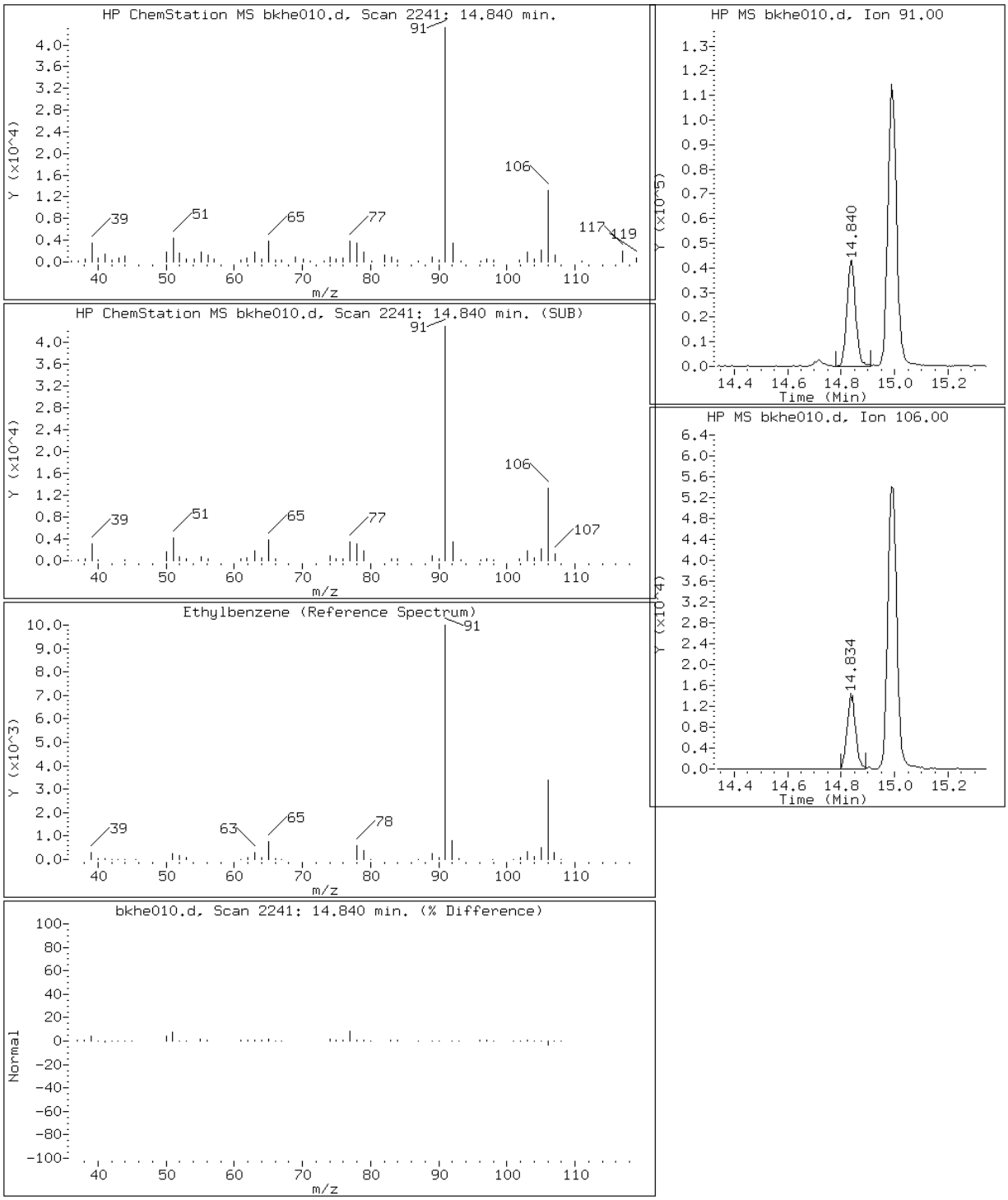
Data File: bkhe010.d

Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

Client ID: AMB-090911 Instrument: B.i

Sample Info: 200-6944-A-1 Operator: pad

68 Ethylbenzene



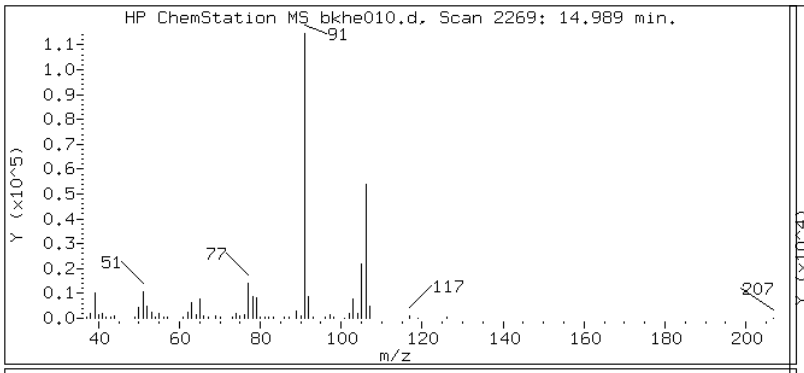
Data File: bkhe010.d

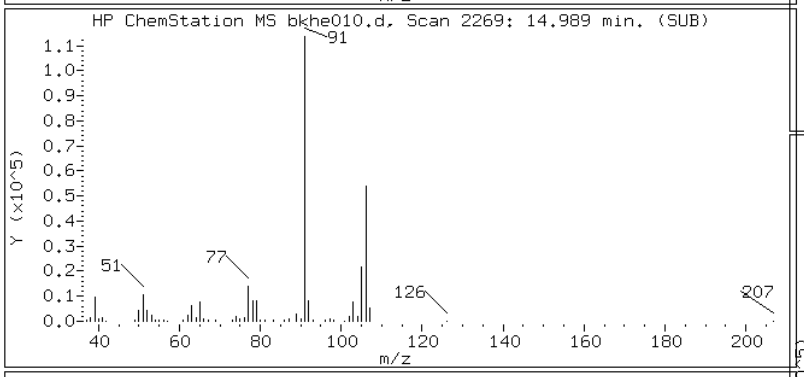
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

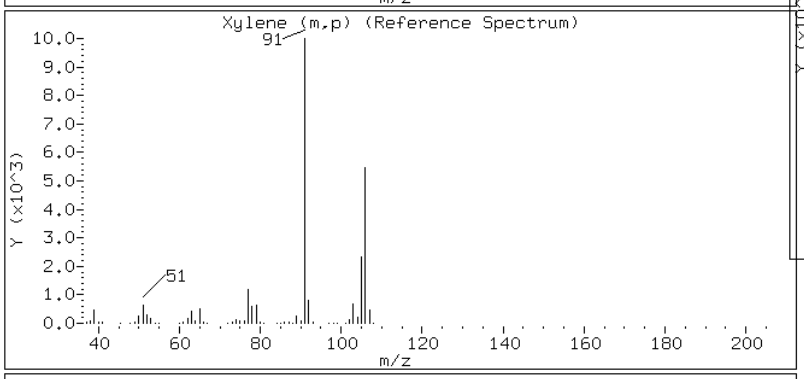
Client ID: AMB-090911 Instrument: B.i

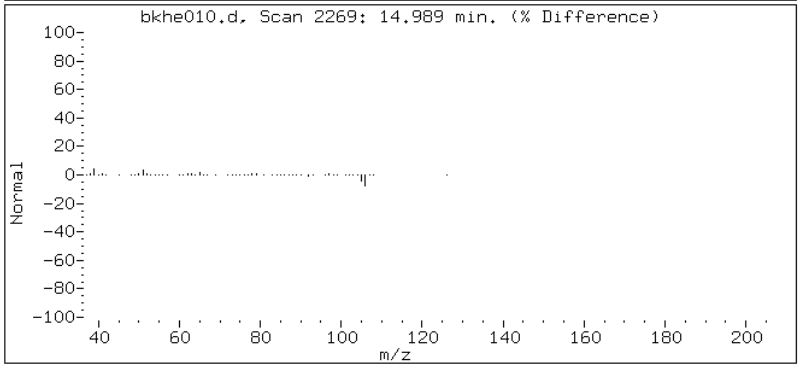
Sample Info: 200-6944-A-1 Operator: pad

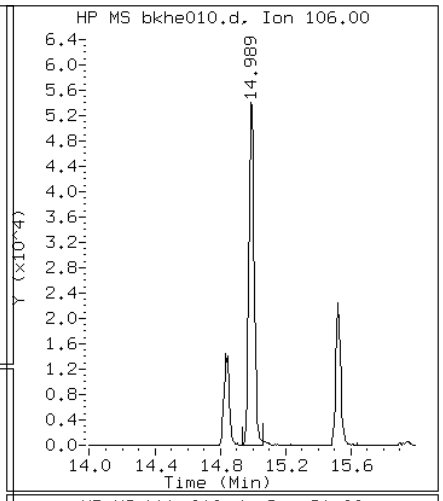
69 Xylene (m,p)

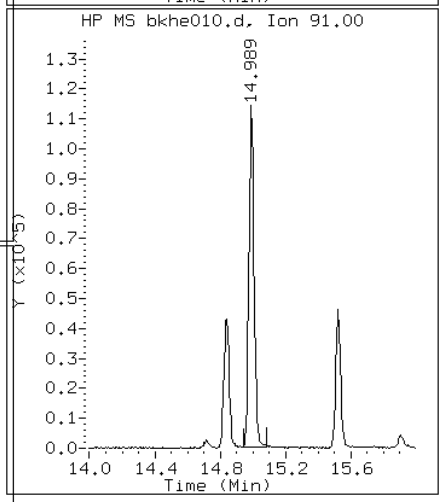












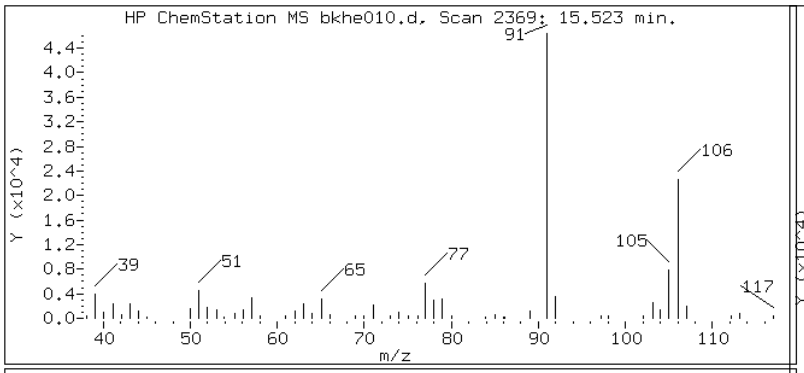
Data File: bkhe010.d

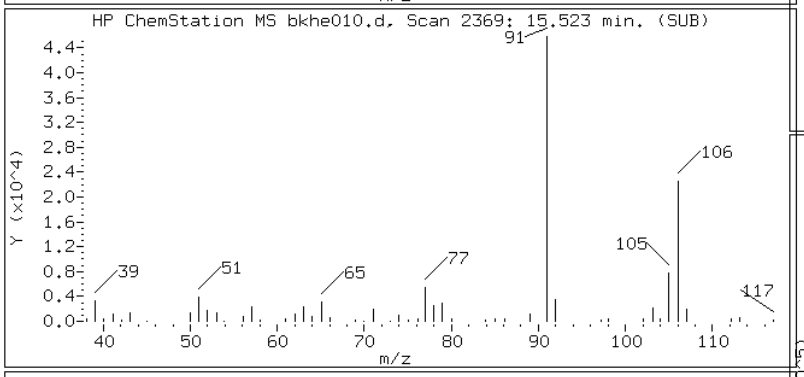
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

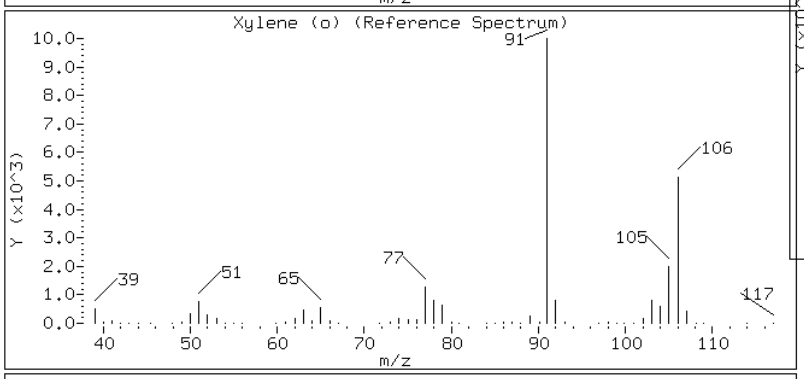
Client ID: AMB-090911 Instrument: B.i

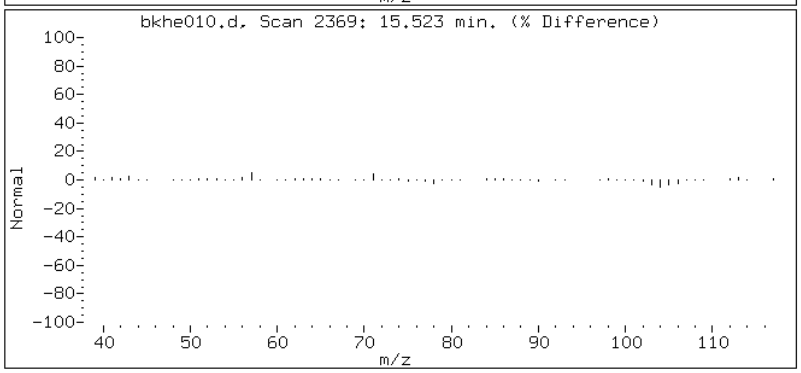
Sample Info: 200-6944-A-1 Operator: pad

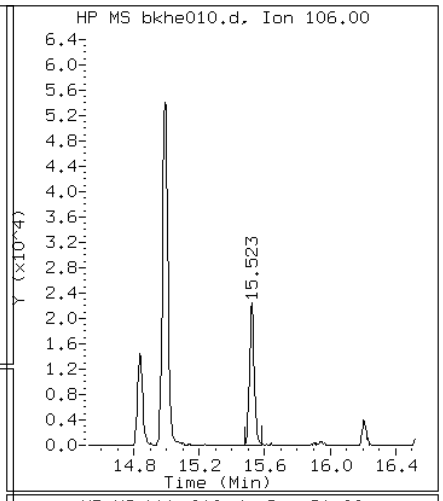
71 Xylene (o)

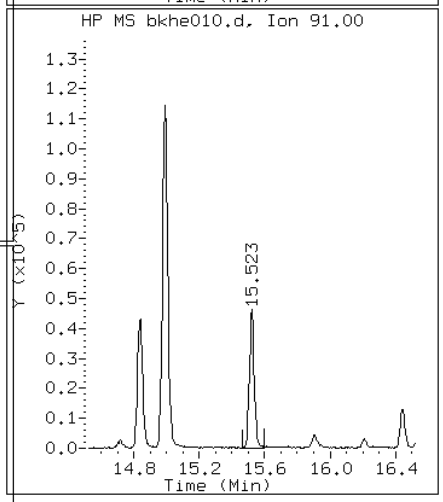












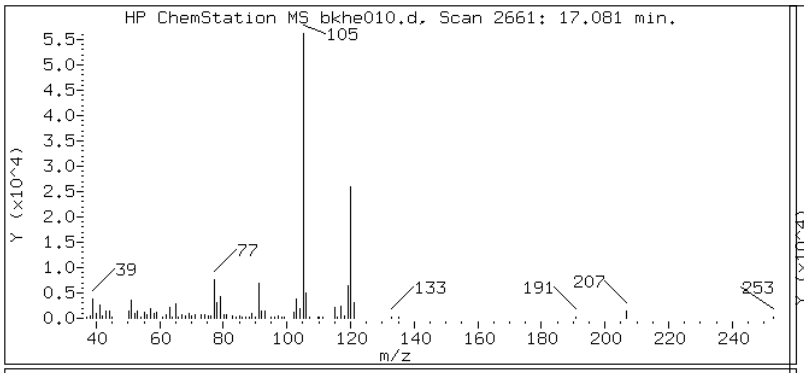
Data File: bkhe010.d

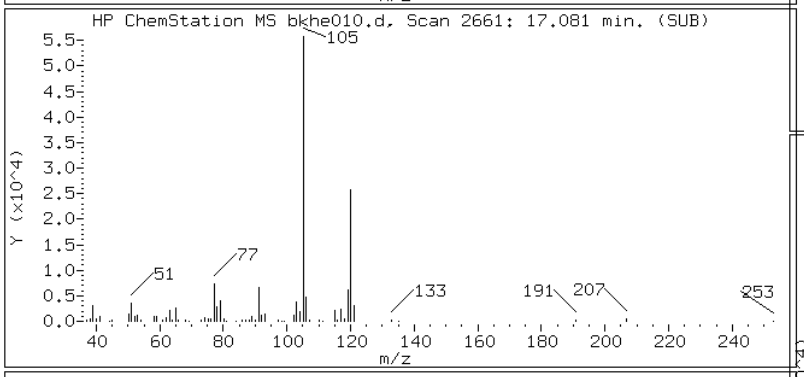
Lab Sample ID: 200-6944-1 Date: 21-SEP-2011 19:15

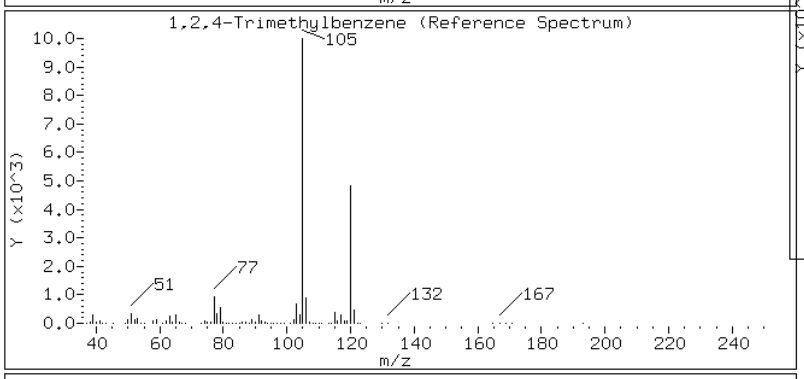
Client ID: AMB-090911 Instrument: B.i

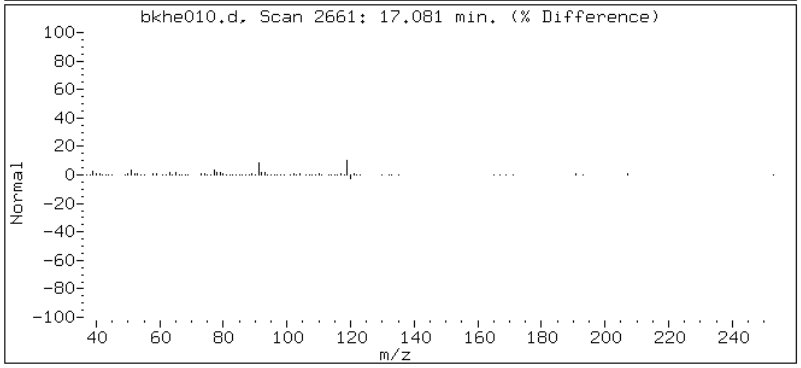
Sample Info: 200-6944-A-1 Operator: pad

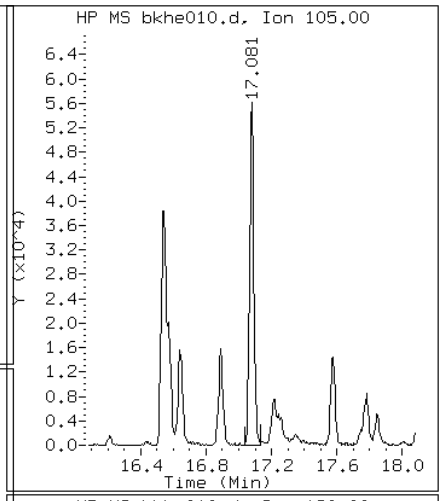
84 1,2,4-Trimethylbenzene

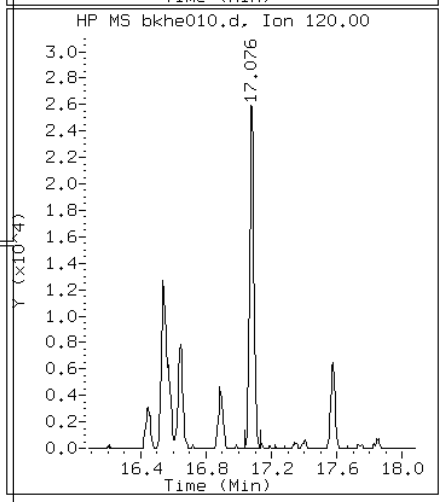












Manual Integration Report

Data File: bkhe010.d
Lab Sample ID: 200-6944-1
Inj. Date and Time: 21-SEP-2011 19:15
Instrument ID: B.i
Client ID: AMB-090911
Compound: 39 Chloroform
CAS #: 67-66-3
Report Date: 09/23/2011

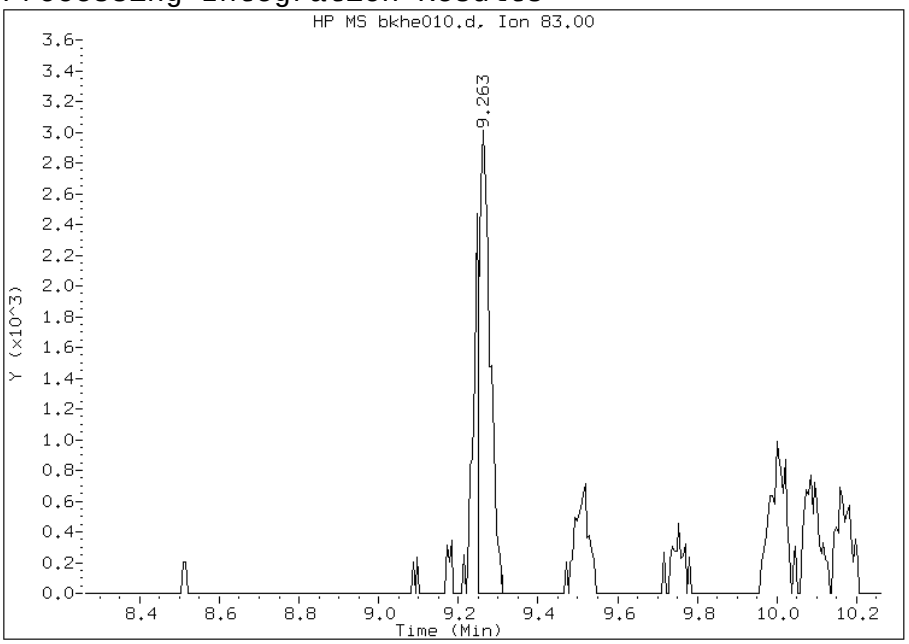
Processing Integration Results

RT: 9.26

Response: 5544

Amount: 0.043345

Conc: 0.043345



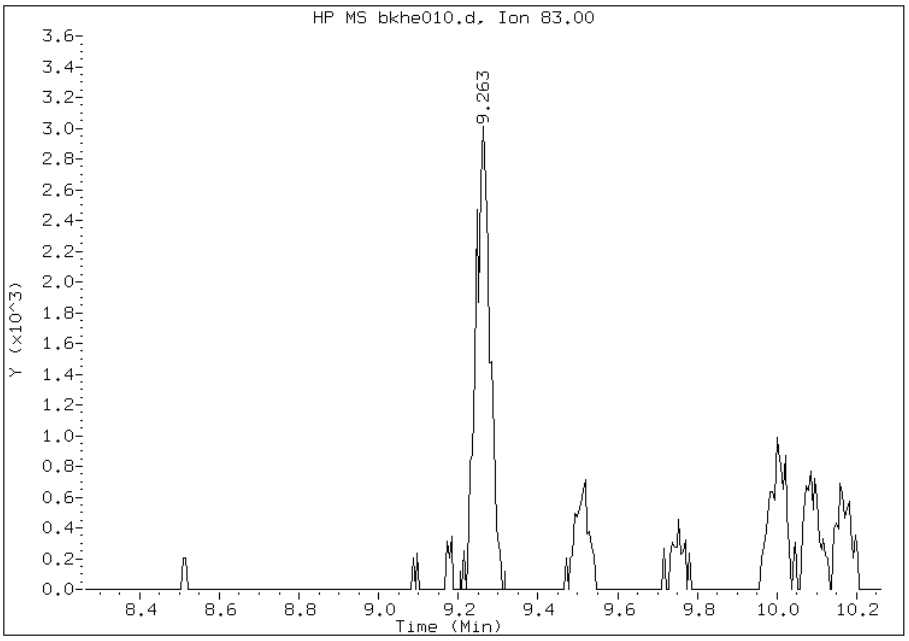
Manual Integration Results

RT: 9.26

Response: 7549

Amount: 0.059021

Conc: 0.059021



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: bkhe010.d
Lab Sample ID: 200-6944-1
Inj. Date and Time: 21-SEP-2011 19:15
Instrument ID: B.i
Client ID: AMB-090911
Compound: 42 Carbon tetrachloride
CAS #: 56-23-5
Report Date: 09/23/2011

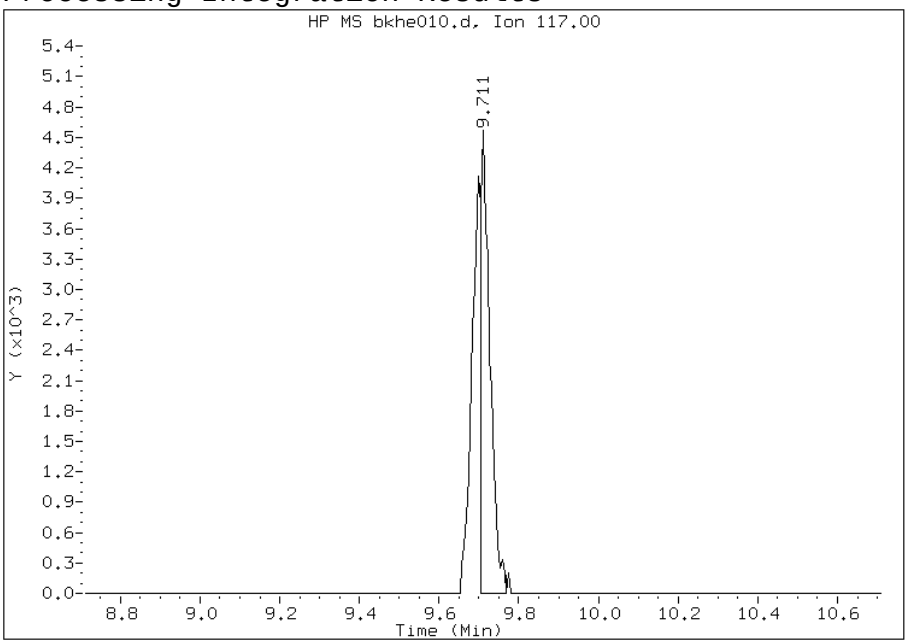
Processing Integration Results

RT: 9.71

Response: 7359

Amount: 0.046014

Conc: 0.046014



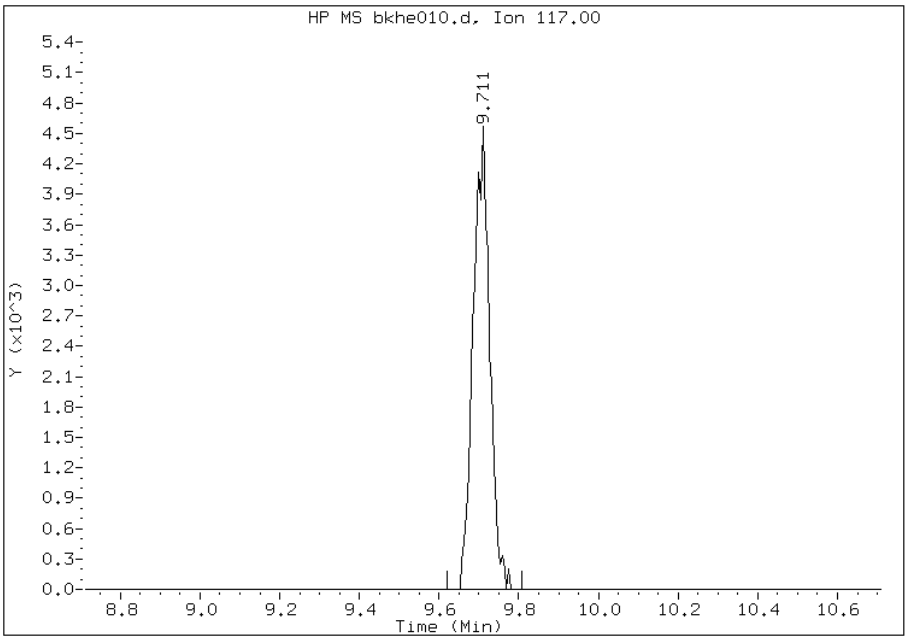
Manual Integration Results

RT: 9.71

Response: 13130

Amount: 0.082098

Conc: 0.082098



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: bkhe010.d
Lab Sample ID: 200-6944-1
Inj. Date and Time: 21-SEP-2011 19:15
Instrument ID: B.i
Client ID: AMB-090911
Compound: 61 Tetrachloroethene
CAS #: 127-18-4
Report Date: 09/23/2011

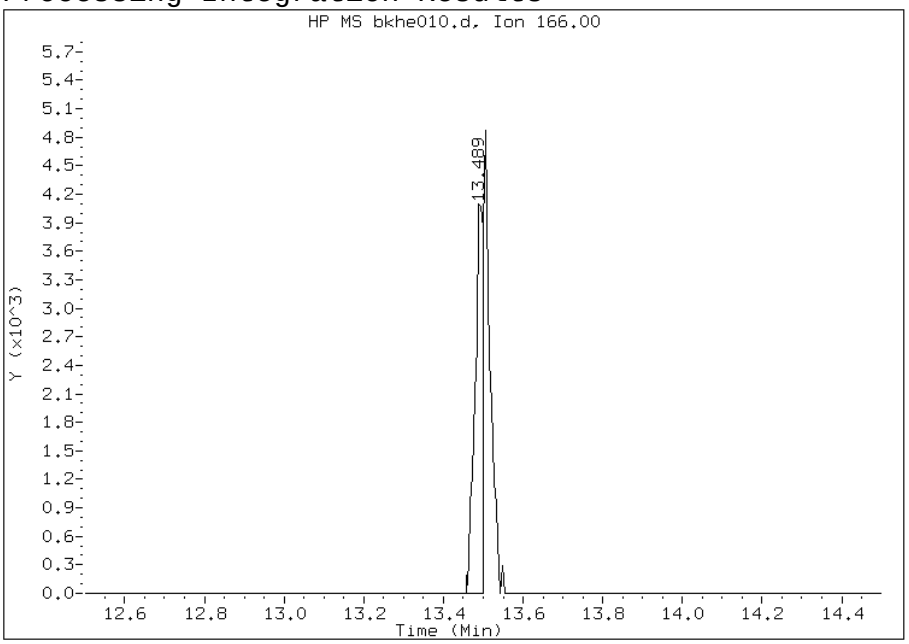
Processing Integration Results

RT: 13.49

Response: 6151

Amount: 0.045673

Conc: 0.045673



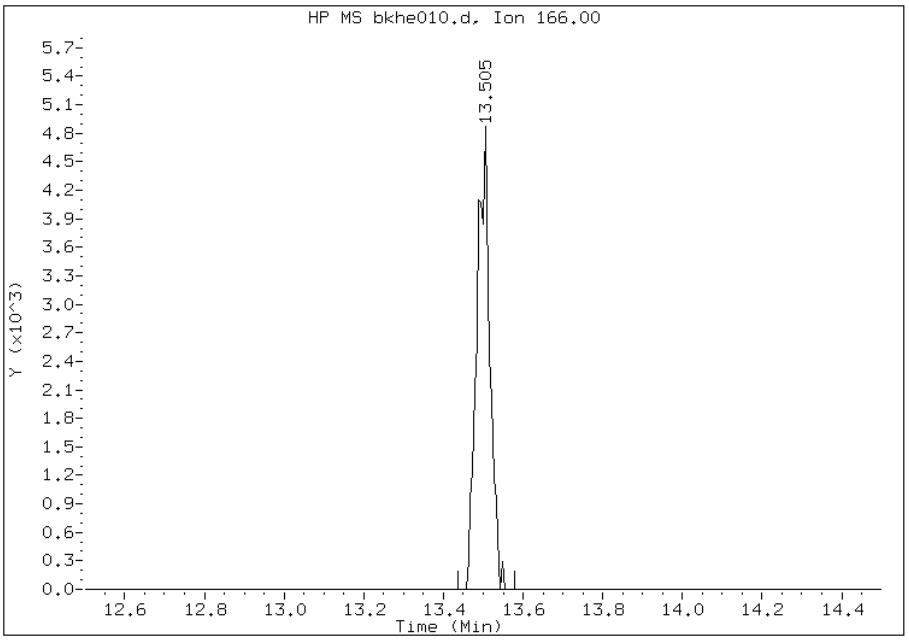
Manual Integration Results

RT: 13.51

Response: 11111

Amount: 0.082502

Conc: 0.082502



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: bkhe010.d
Lab Sample ID: 200-6944-1
Inj. Date and Time: 21-SEP-2011 19:15
Instrument ID: B.i
Client ID: AMB-090911
Compound: 79 4-Ethyltoluene
CAS #: 622-96-8
Report Date: 09/23/2011

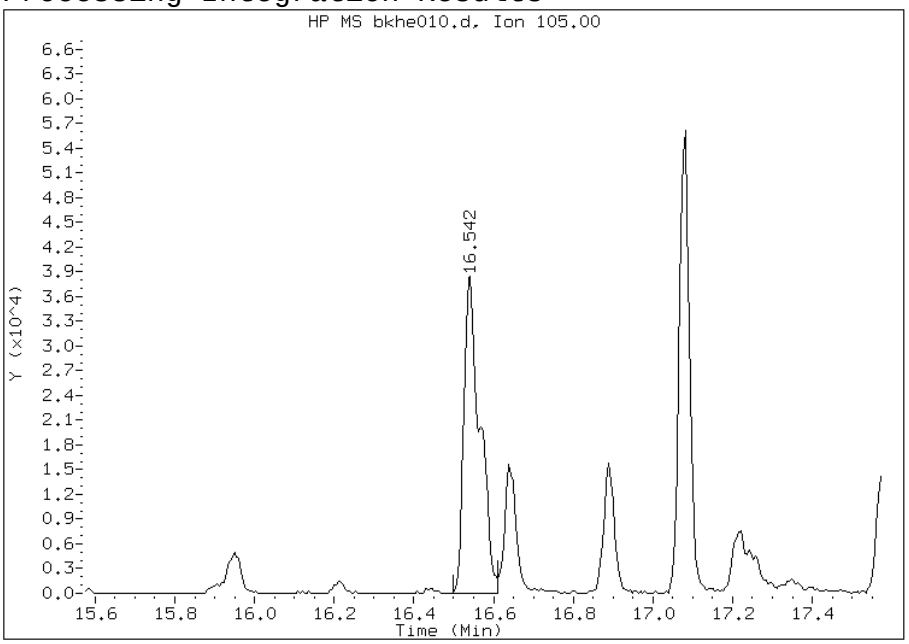
Processing Integration Results

RT: 16.54

Response: 108045

Amount: 0.285849

Conc: 0.285849



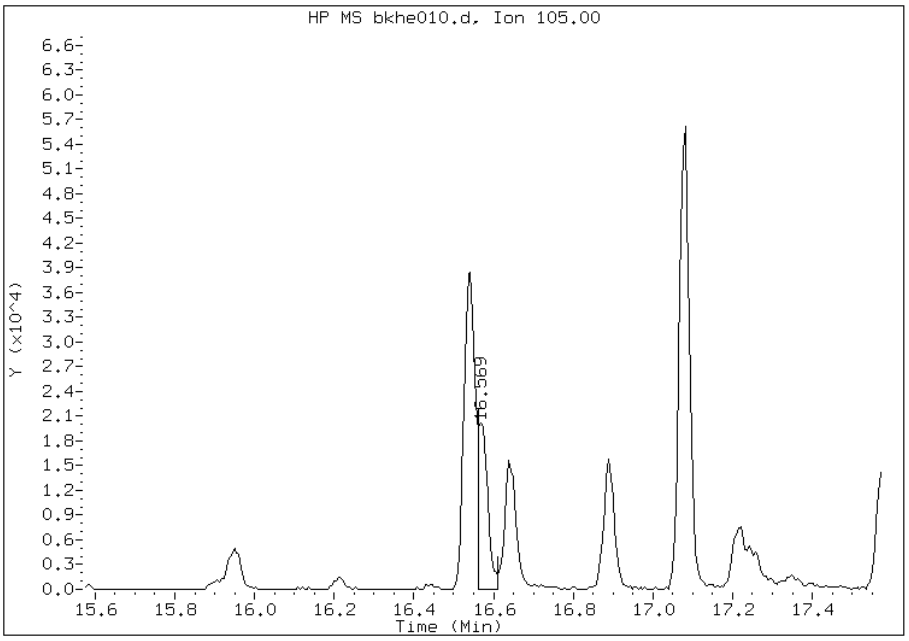
Manual Integration Results

RT: 16.57

Response: 32967

Amount: 0.087219

Conc: 0.087219



File Uploaded By: wrd
Manual Integration Reason: Baseline event

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-1 | Lab Sample ID: 200-6944-2

Matrix: Air | Lab File ID: bkhe011.d

Analysis Method: TO-15 | Date Collected: 09/09/2011 16:35

Sample wt/vol: 23(mL) | Date Analyzed: 09/21/2011 20:07

Soil Aliquot Vol: | Dilution Factor: 8.7

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 25690 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	4.4	U	4.4	4.4
75-45-6	Freon 22	86.47	4.4	U	4.4	4.4
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.7	U	1.7	1.7
74-87-3	Chloromethane	50.49	4.4	U	4.4	4.4
106-97-8	n-Butane	58.12	4.4	U	4.4	4.4
75-01-4	Vinyl chloride	62.50	1.7	U	1.7	1.7
106-99-0	1,3-Butadiene	54.09	1.7	U	1.7	1.7
74-83-9	Bromomethane	94.94	1.7	U	1.7	1.7
75-00-3	Chloroethane	64.52	4.4	U	4.4	4.4
593-60-2	Bromoethene(Vinyl Bromide)	106.96	1.7	U	1.7	1.7
75-69-4	Trichlorofluoromethane	137.37	1.7	U	1.7	1.7
76-13-1	Freon TF	187.38	1.7	U	1.7	1.7
75-35-4	1,1-Dichloroethene	96.94	1.7	U	1.7	1.7
67-64-1	Acetone	58.08	210		44	44
67-63-0	Isopropyl alcohol	60.10	44	U	44	44
75-15-0	Carbon disulfide	76.14	6.9		4.4	4.4
107-05-1	3-Chloropropene	76.53	4.4	U	4.4	4.4
75-09-2	Methylene Chloride	84.93	4.4	U	4.4	4.4
75-65-0	tert-Butyl alcohol	74.12	44	U	44	44
1634-04-4	Methyl tert-butyl ether	88.15	1.7	U	1.7	1.7
156-60-5	trans-1,2-Dichloroethene	96.94	1.7	U	1.7	1.7
110-54-3	n-Hexane	86.17	1.7	U	1.7	1.7
75-34-3	1,1-Dichloroethane	98.96	1.7	U	1.7	1.7
78-93-3	Methyl Ethyl Ketone	72.11	13		4.4	4.4
156-59-2	cis-1,2-Dichloroethene	96.94	1.7	U	1.7	1.7
540-59-0	1,2-Dichloroethene, Total	96.94	1.7	U	1.7	1.7
67-66-3	Chloroform	119.38	6.9		1.7	1.7
109-99-9	Tetrahydrofuran	72.11	44	U	44	44
71-55-6	1,1,1-Trichloroethane	133.41	1.7	U	1.7	1.7
110-82-7	Cyclohexane	84.16	1.7	U	1.7	1.7
56-23-5	Carbon tetrachloride	153.81	2.5		1.7	1.7
540-84-1	2,2,4-Trimethylpentane	114.23	1.7	U	1.7	1.7
71-43-2	Benzene	78.11	1.7	U	1.7	1.7
107-06-2	1,2-Dichloroethane	98.96	1.7	U	1.7	1.7
142-82-5	n-Heptane	100.21	1.7	U	1.7	1.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-1 Lab Sample ID: 200-6944-2

Matrix: Air Lab File ID: bkhe011.d

Analysis Method: TO-15 Date Collected: 09/09/2011 16:35

Sample wt/vol: 23(mL) Date Analyzed: 09/21/2011 20:07

Soil Aliquot Vol: Dilution Factor: 8.7

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	11		1.7	1.7
80-62-6	Methyl methacrylate	100.12	4.4	U	4.4	4.4
78-87-5	1,2-Dichloropropane	112.99	1.7	U	1.7	1.7
123-91-1	1,4-Dioxane	88.11	44	U	44	44
75-27-4	Bromodichloromethane	163.83	1.7	U	1.7	1.7
10061-01-5	cis-1,3-Dichloropropene	110.97	1.7	U	1.7	1.7
108-10-1	methyl isobutyl ketone	100.16	4.4	U	4.4	4.4
108-88-3	Toluene	92.14	3.8		1.7	1.7
10061-02-6	trans-1,3-Dichloropropene	110.97	1.7	U	1.7	1.7
79-00-5	1,1,2-Trichloroethane	133.41	1.7	U	1.7	1.7
127-18-4	Tetrachloroethene	165.83	1.9		1.7	1.7
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	4.4	U	4.4	4.4
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	1.7
106-93-4	1,2-Dibromoethane	187.87	1.7	U	1.7	1.7
108-90-7	Chlorobenzene	112.30	1.7	U	1.7	1.7
100-41-4	Ethylbenzene	106.17	1.7	U	1.7	1.7
179601-23-1	m,p-Xylene	106.17	4.4	U	4.4	4.4
95-47-6	Xylene, o-	106.17	1.7	U	1.7	1.7
1330-20-7	Xylene (total)	106.17	5.3		1.7	1.7
100-42-5	Styrene	104.15	1.7	U	1.7	1.7
75-25-2	Bromoform	252.75	1.7	U	1.7	1.7
98-82-8	Cumene	120.19	1.7	U	1.7	1.7
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.7	U	1.7	1.7
103-65-1	n-Propylbenzene	120.19	1.7	U	1.7	1.7
622-96-8	4-Ethyltoluene	120.20	1.7	U	1.7	1.7
108-67-8	1,3,5-Trimethylbenzene	120.20	1.7	U	1.7	1.7
95-49-8	2-Chlorotoluene	126.59	1.7	U	1.7	1.7
98-06-6	tert-Butylbenzene	134.22	1.7	U	1.7	1.7
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7	U	1.7	1.7
135-98-8	sec-Butylbenzene	134.22	1.7	U	1.7	1.7
99-87-6	4-Isopropyltoluene	134.22	1.7	U	1.7	1.7
541-73-1	1,3-Dichlorobenzene	147.00	1.7	U	1.7	1.7
106-46-7	1,4-Dichlorobenzene	147.00	1.7	U	1.7	1.7
100-44-7	Benzyl chloride	126.58	1.7	U	1.7	1.7
104-51-8	n-Butylbenzene	134.22	1.7	U	1.7	1.7

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-1 Lab Sample ID: 200-6944-2

Matrix: Air Lab File ID: bkhe011.d

Analysis Method: TO-15 Date Collected: 09/09/2011 16:35

Sample wt/vol: 23(mL) Date Analyzed: 09/21/2011 20:07

Soil Aliquot Vol: Dilution Factor: 8.7

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	1.7	U	1.7	1.7
120-82-1	1,2,4-Trichlorobenzene	181.45	4.4	U	4.4	4.4
87-68-3	Hexachlorobutadiene	260.76	1.7	U	1.7	1.7
91-20-3	Naphthalene	128.17	4.4	U	4.4	4.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-1 | Lab Sample ID: 200-6944-2

Matrix: Air | Lab File ID: bkhe011.d

Analysis Method: TO-15 | Date Collected: 09/09/2011 16:35

Sample wt/vol: 23(mL) | Date Analyzed: 09/21/2011 20:07

Soil Aliquot Vol: | Dilution Factor: 8.7

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 25690 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	22	U	22	22
75-45-6	Freon 22	86.47	15	U	15	15
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	12	U	12	12
74-87-3	Chloromethane	50.49	9.0	U	9.0	9.0
106-97-8	n-Butane	58.12	10	U	10	10
75-01-4	Vinyl chloride	62.50	4.4	U	4.4	4.4
106-99-0	1,3-Butadiene	54.09	3.8	U	3.8	3.8
74-83-9	Bromomethane	94.94	6.8	U	6.8	6.8
75-00-3	Chloroethane	64.52	11	U	11	11
593-60-2	Bromoethene(Vinyl Bromide)	106.96	7.6	U	7.6	7.6
75-69-4	Trichlorofluoromethane	137.37	9.8	U	9.8	9.8
76-13-1	Freon TF	187.38	13	U	13	13
75-35-4	1,1-Dichloroethene	96.94	6.9	U	6.9	6.9
67-64-1	Acetone	58.08	500		100	100
67-63-0	Isopropyl alcohol	60.10	110	U	110	110
75-15-0	Carbon disulfide	76.14	22		14	14
107-05-1	3-Chloropropene	76.53	14	U	14	14
75-09-2	Methylene Chloride	84.93	15	U	15	15
75-65-0	tert-Butyl alcohol	74.12	130	U	130	130
1634-04-4	Methyl tert-butyl ether	88.15	6.3	U	6.3	6.3
156-60-5	trans-1,2-Dichloroethene	96.94	6.9	U	6.9	6.9
110-54-3	n-Hexane	86.17	6.1	U	6.1	6.1
75-34-3	1,1-Dichloroethane	98.96	7.0	U	7.0	7.0
78-93-3	Methyl Ethyl Ketone	72.11	38		13	13
156-59-2	cis-1,2-Dichloroethene	96.94	6.9	U	6.9	6.9
540-59-0	1,2-Dichloroethene, Total	96.94	6.9	U	6.9	6.9
67-66-3	Chloroform	119.38	34		8.5	8.5
109-99-9	Tetrahydrofuran	72.11	130	U	130	130
71-55-6	1,1,1-Trichloroethane	133.41	9.5	U	9.5	9.5
110-82-7	Cyclohexane	84.16	6.0	U	6.0	6.0
56-23-5	Carbon tetrachloride	153.81	16		11	11
540-84-1	2,2,4-Trimethylpentane	114.23	8.1	U	8.1	8.1
71-43-2	Benzene	78.11	5.6	U	5.6	5.6
107-06-2	1,2-Dichloroethane	98.96	7.0	U	7.0	7.0
142-82-5	n-Heptane	100.21	7.1	U	7.1	7.1

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-1 Lab Sample ID: 200-6944-2

Matrix: Air Lab File ID: bkhe011.d

Analysis Method: TO-15 Date Collected: 09/09/2011 16:35

Sample wt/vol: 23(mL) Date Analyzed: 09/21/2011 20:07

Soil Aliquot Vol: Dilution Factor: 8.7

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	60		9.4	9.4
80-62-6	Methyl methacrylate	100.12	18	U	18	18
78-87-5	1,2-Dichloropropane	112.99	8.0	U	8.0	8.0
123-91-1	1,4-Dioxane	88.11	160	U	160	160
75-27-4	Bromodichloromethane	163.83	12	U	12	12
10061-01-5	cis-1,3-Dichloropropene	110.97	7.9	U	7.9	7.9
108-10-1	methyl isobutyl ketone	100.16	18	U	18	18
108-88-3	Toluene	92.14	14		6.6	6.6
10061-02-6	trans-1,3-Dichloropropene	110.97	7.9	U	7.9	7.9
79-00-5	1,1,2-Trichloroethane	133.41	9.5	U	9.5	9.5
127-18-4	Tetrachloroethene	165.83	13		12	12
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	18	U	18	18
124-48-1	Dibromochloromethane	208.29	15	U	15	15
106-93-4	1,2-Dibromoethane	187.87	13	U	13	13
108-90-7	Chlorobenzene	112.30	8.0	U	8.0	8.0
100-41-4	Ethylbenzene	106.17	7.6	U	7.6	7.6
179601-23-1	m,p-Xylene	106.17	19	U	19	19
95-47-6	Xylene, o-	106.17	7.6	U	7.6	7.6
1330-20-7	Xylene (total)	106.17	23		7.6	7.6
100-42-5	Styrene	104.15	7.4	U	7.4	7.4
75-25-2	Bromoform	252.75	18	U	18	18
98-82-8	Cumene	120.19	8.6	U	8.6	8.6
79-34-5	1,1,2,2-Tetrachloroethane	167.85	12	U	12	12
103-65-1	n-Propylbenzene	120.19	8.6	U	8.6	8.6
622-96-8	4-Ethyltoluene	120.20	8.6	U	8.6	8.6
108-67-8	1,3,5-Trimethylbenzene	120.20	8.6	U	8.6	8.6
95-49-8	2-Chlorotoluene	126.59	9.0	U	9.0	9.0
98-06-6	tert-Butylbenzene	134.22	9.6	U	9.6	9.6
95-63-6	1,2,4-Trimethylbenzene	120.20	8.6	U	8.6	8.6
135-98-8	sec-Butylbenzene	134.22	9.6	U	9.6	9.6
99-87-6	4-Isopropyltoluene	134.22	9.6	U	9.6	9.6
541-73-1	1,3-Dichlorobenzene	147.00	10	U	10	10
106-46-7	1,4-Dichlorobenzene	147.00	10	U	10	10
100-44-7	Benzyl chloride	126.58	9.0	U	9.0	9.0
104-51-8	n-Butylbenzene	134.22	9.6	U	9.6	9.6

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-1 Lab Sample ID: 200-6944-2

Matrix: Air Lab File ID: bkhe011.d

Analysis Method: TO-15 Date Collected: 09/09/2011 16:35

Sample wt/vol: 23(mL) Date Analyzed: 09/21/2011 20:07

Soil Aliquot Vol: Dilution Factor: 8.7

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	10	U	10	10
120-82-1	1,2,4-Trichlorobenzene	181.45	32	U	32	32
87-68-3	Hexachlorobutadiene	260.76	19	U	19	19
91-20-3	Naphthalene	128.17	23	U	23	23

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-6944-2
Client Smp ID: SV-1
Inj Date : 21-SEP-2011 20:07
Operator : pad Inst ID: B.i
Smp Info : 200-6944-A-2
Misc Info : 23,8.70, all74
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/to15v5.m
Meth Date : 23-Sep-2011 09:43 wrd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 14
Dil Factor: 8.70000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	8.70000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	23.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	3.034	3.034	(0.331)	8253	0.07939	0.69(a)
3 Chlorodifluoromethane	51	3.066	3.066	(0.334)	3712	0.09188	0.80(a)
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	3.328	3.333	(0.363)	2404	0.11588	1.0(a)
6 Butane	43	3.477	3.477	(0.379)	7410	0.21384	1.9(aQ)
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	4.780	4.785	(0.521)	6427	0.03803	0.33(a)
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.018	6.023	(0.656)	1870228	24.1317	210
21 Carbon disulfide	76	6.247	6.247	(0.681)	136064	0.79729	6.9

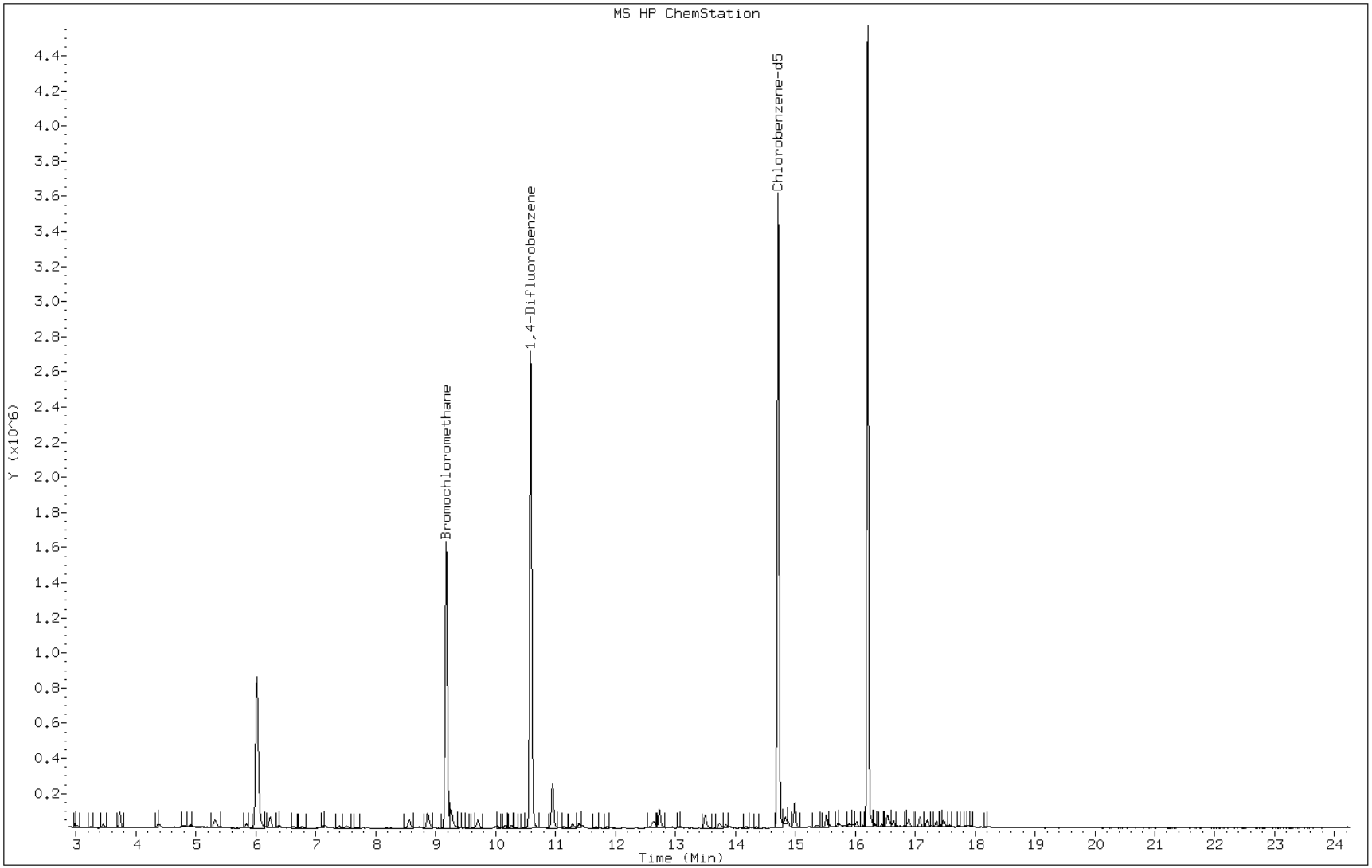
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	22 Isopropanol	45	6.386	6.306	(0.696)	31512	0.57402	5.0(a)
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.781	6.781	(0.739)	5814	0.10591	0.92(aQ)
	26 Tert-butyl alcohol	59	7.144	7.010	(0.778)	37896	0.42410	3.7(a)
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.517	7.512	(0.819)	9164	0.10095	0.88(a)
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	8.873	8.836	(0.967)	47494	1.47668	13(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	627425	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	9.257	9.263	(1.009)	103209	0.79538	6.9
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	9.706	9.711	(0.917)	46212	0.28345	2.5
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	10.031	10.031	(0.948)	13280	0.06735	0.59(a)
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	10.266	10.266	(0.970)	8179	0.08228	0.72(a)
*	47 1,4-Difluorobenzene	114	10.586	10.592	(1.000)	3060135	10.0000	
	49 Trichloroethene	95	10.954	10.949	(1.035)	119070	1.28968	11
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	12.582	12.497	(1.189)	9438	0.08273	0.72(aM)
	58 Toluene	92	12.732	12.732	(0.865)	63660	0.43524	3.8
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	30139	0.22222	1.9
	62 2-Hexanone	43	13.735	13.676	(0.933)	32765	0.30979	2.7(a)
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	2674758	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	14.840	14.840	(1.008)	40298	0.12586	1.1(a)
	69 Xylene (m,p)	106	14.989	14.994	(1.018)	57331	0.43726	3.8(a)
M	70 Xylenes, Total	106				80357	0.61400	5.3
	71 Xylene (o)	106	15.517	15.523	(1.054)	23026	0.17674	1.5(a)
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	16.649	16.644	(1.131)	20143	0.06288	0.55(a)
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	17.081	17.081	(1.161)	37013	0.11622	1.0(a)
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	bkhe011.d	Date:	21-SEP-2011 20:07
Client ID:	SV-1	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-6944-A-2		
Lab Sample ID:	200-6944-2		



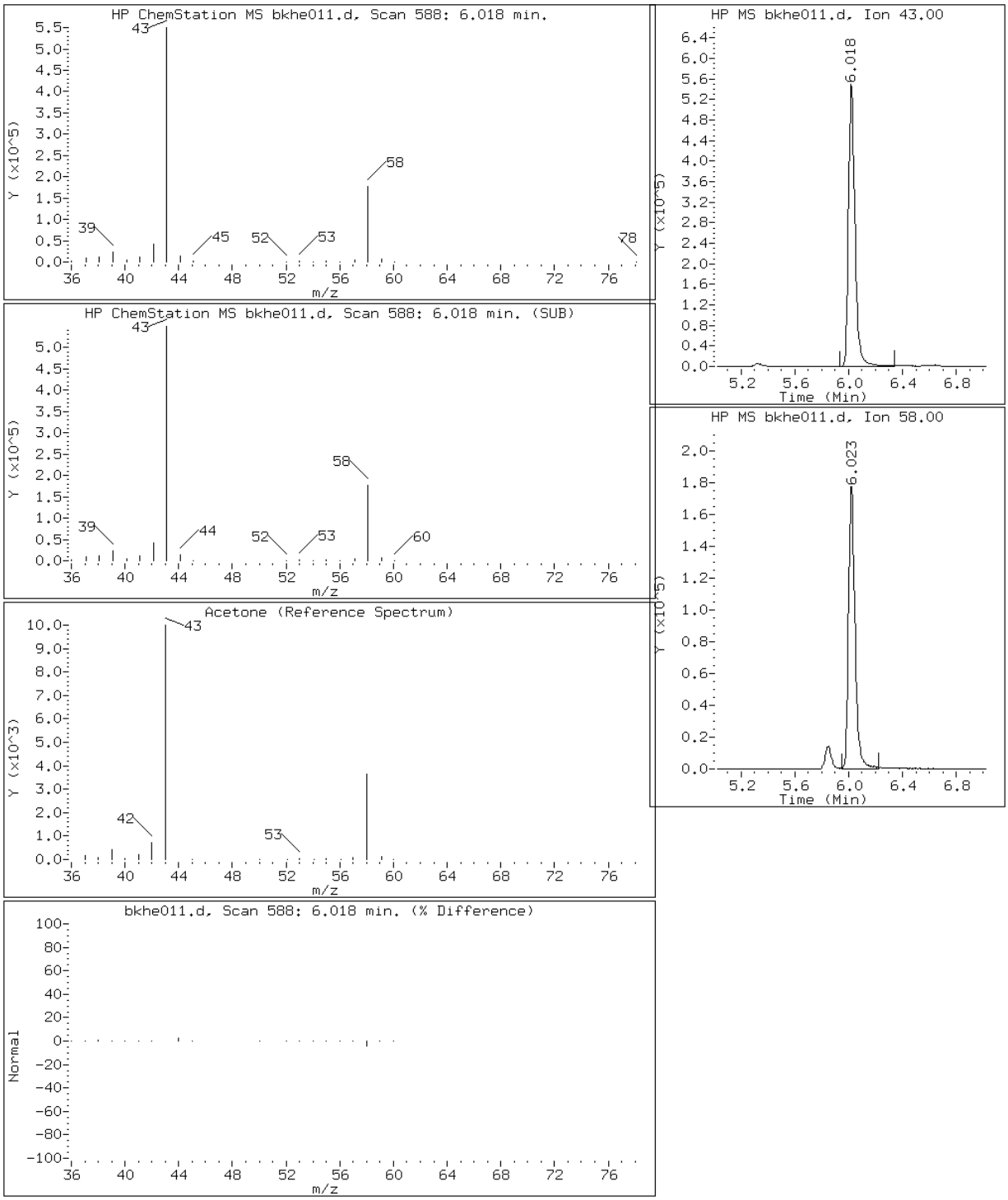
Data File: bkhe011.d

Lab Sample ID: 200-6944-2 Date: 21-SEP-2011 20:07

Client ID: SV-1 Instrument: B.i

Sample Info: 200-6944-A-2 Operator: pad

20 Acetone



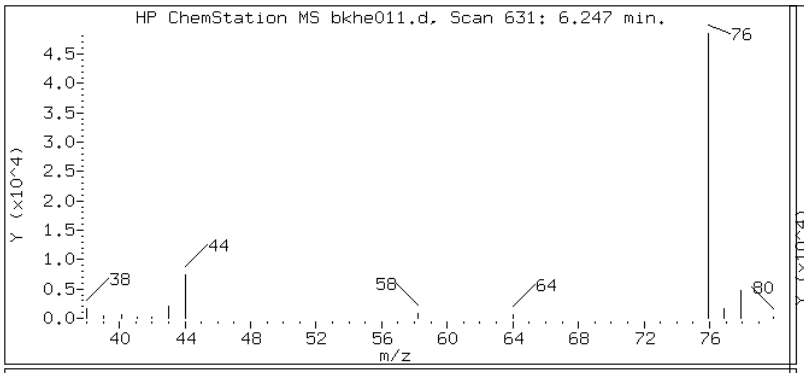
Data File: bkhe011.d

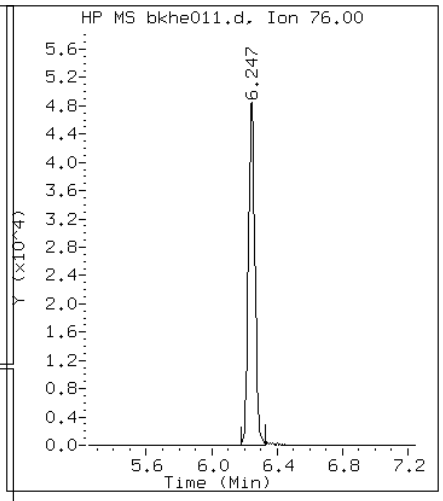
Lab Sample ID: 200-6944-2 Date: 21-SEP-2011 20:07

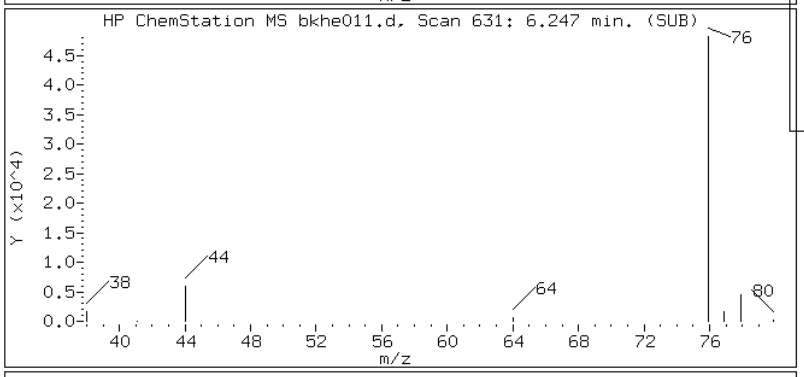
Client ID: SV-1 Instrument: B.i

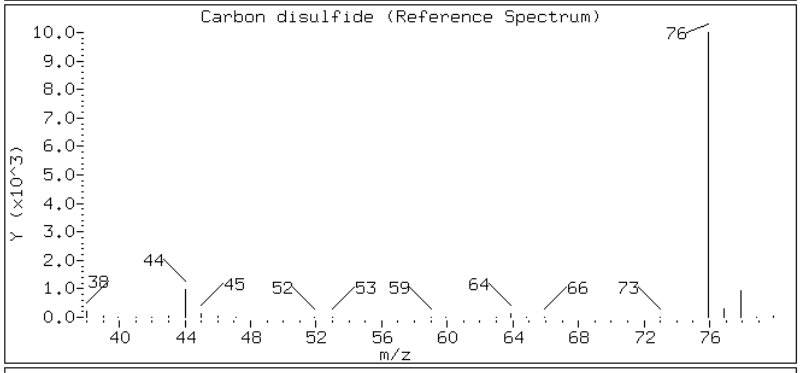
Sample Info: 200-6944-A-2 Operator: pad

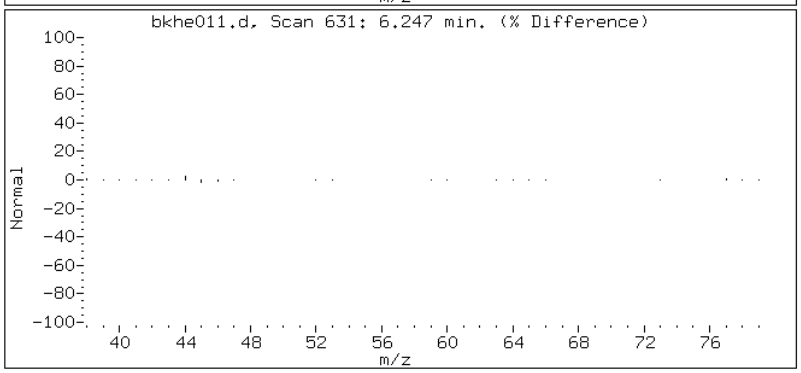
21 Carbon disulfide











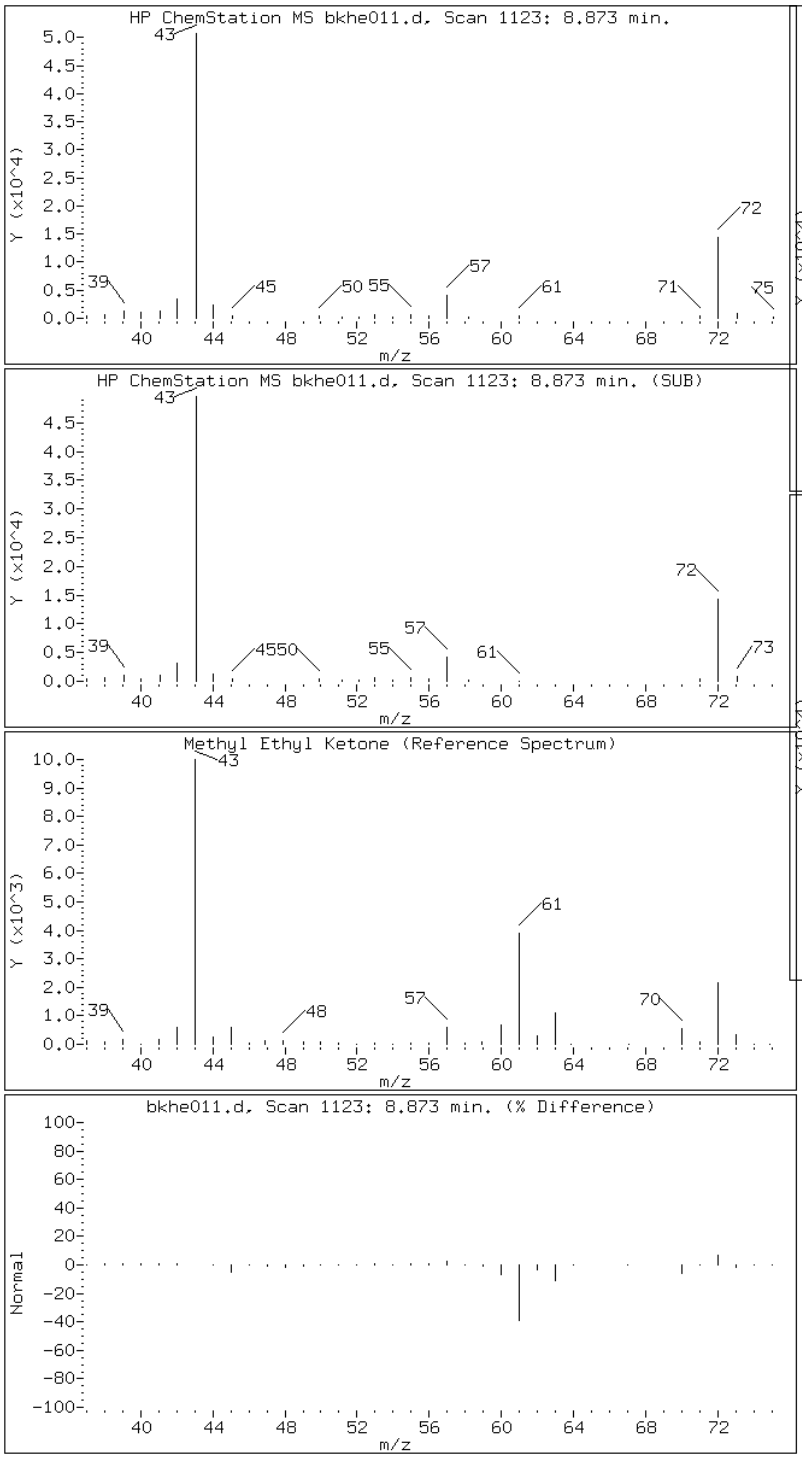
Data File: bkhe011.d

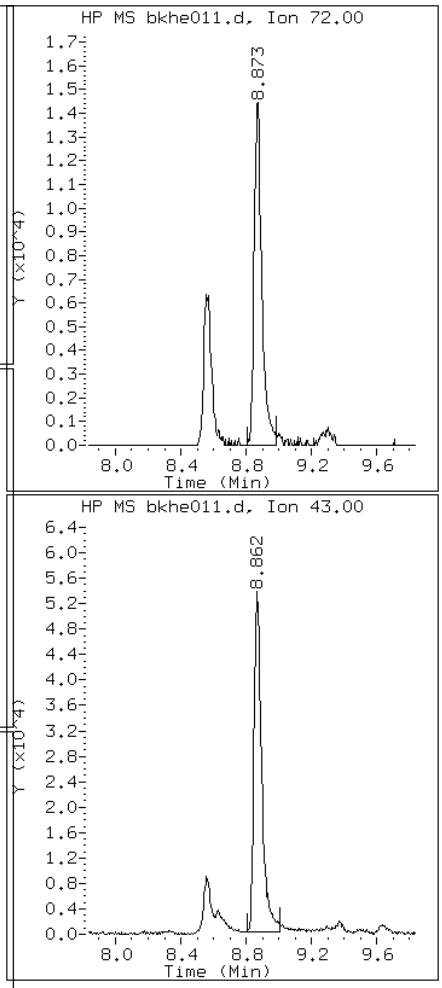
Lab Sample ID: 200-6944-2 Date: 21-SEP-2011 20:07

Client ID: SV-1 Instrument: B.i

Sample Info: 200-6944-A-2 Operator: pad

36 Methyl Ethyl Ketone





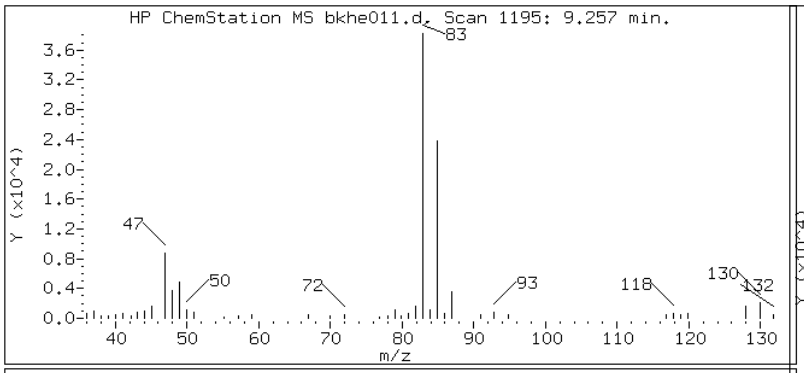
Data File: bkhe011.d

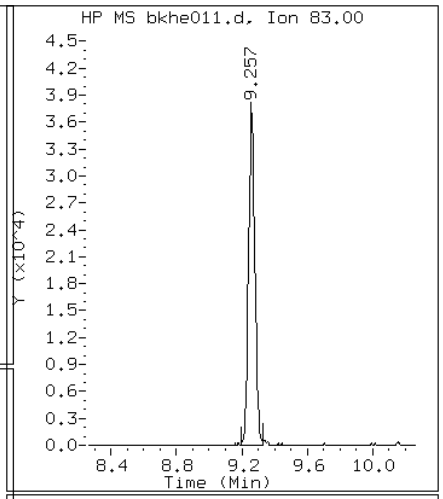
Lab Sample ID: 200-6944-2 Date: 21-SEP-2011 20:07

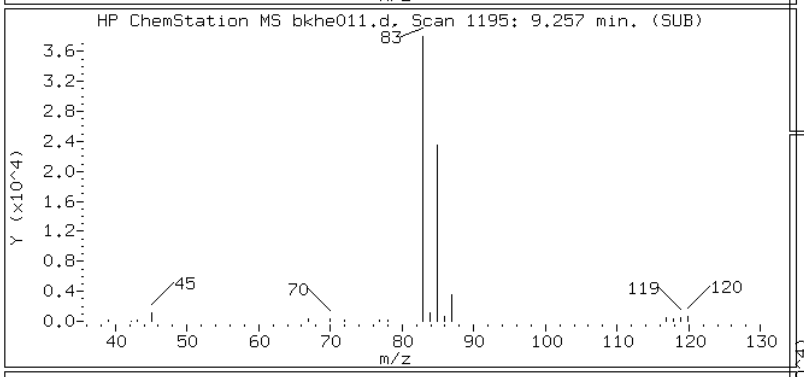
Client ID: SV-1 Instrument: B.i

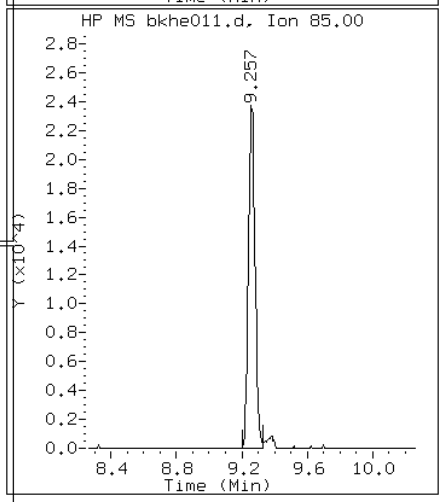
Sample Info: 200-6944-A-2 Operator: pad

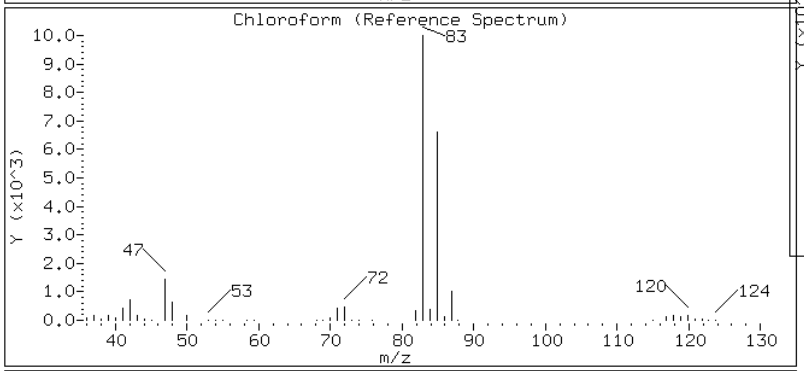
39 Chloroform

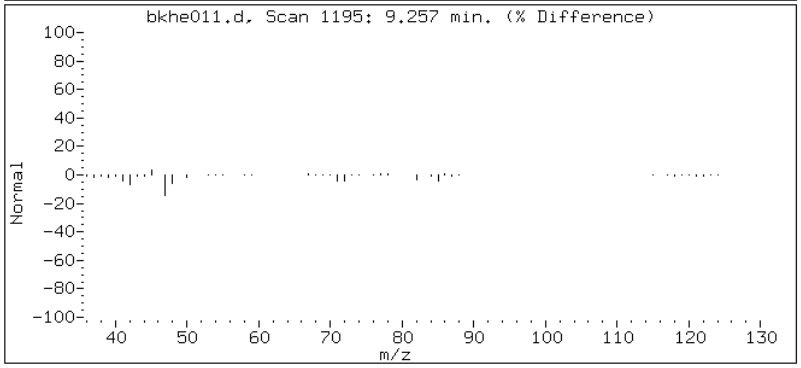












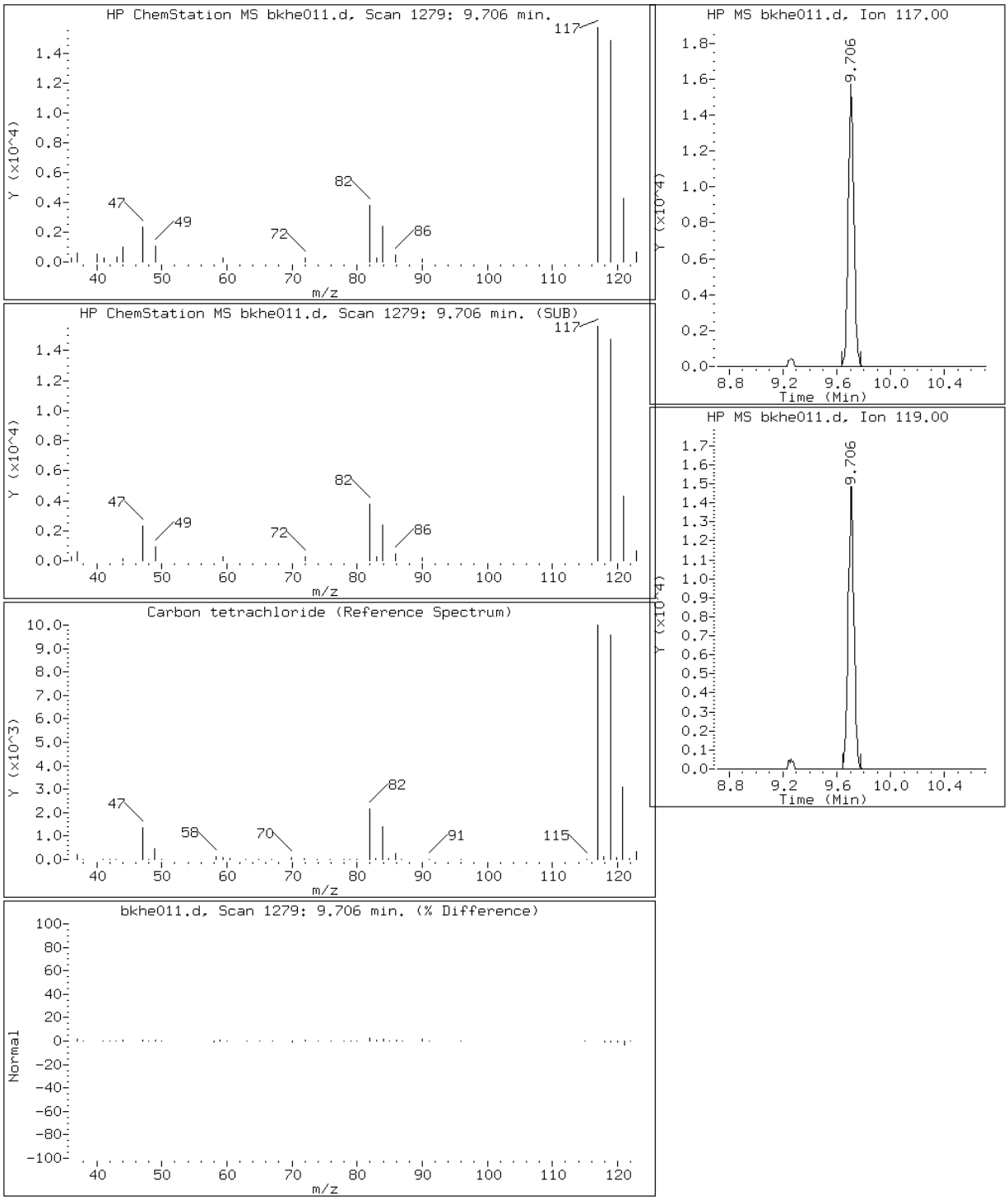
Data File: bkhe011.d

Lab Sample ID: 200-6944-2 Date: 21-SEP-2011 20:07

Client ID: SV-1 Instrument: B.i

Sample Info: 200-6944-A-2 Operator: pad

42 Carbon tetrachloride



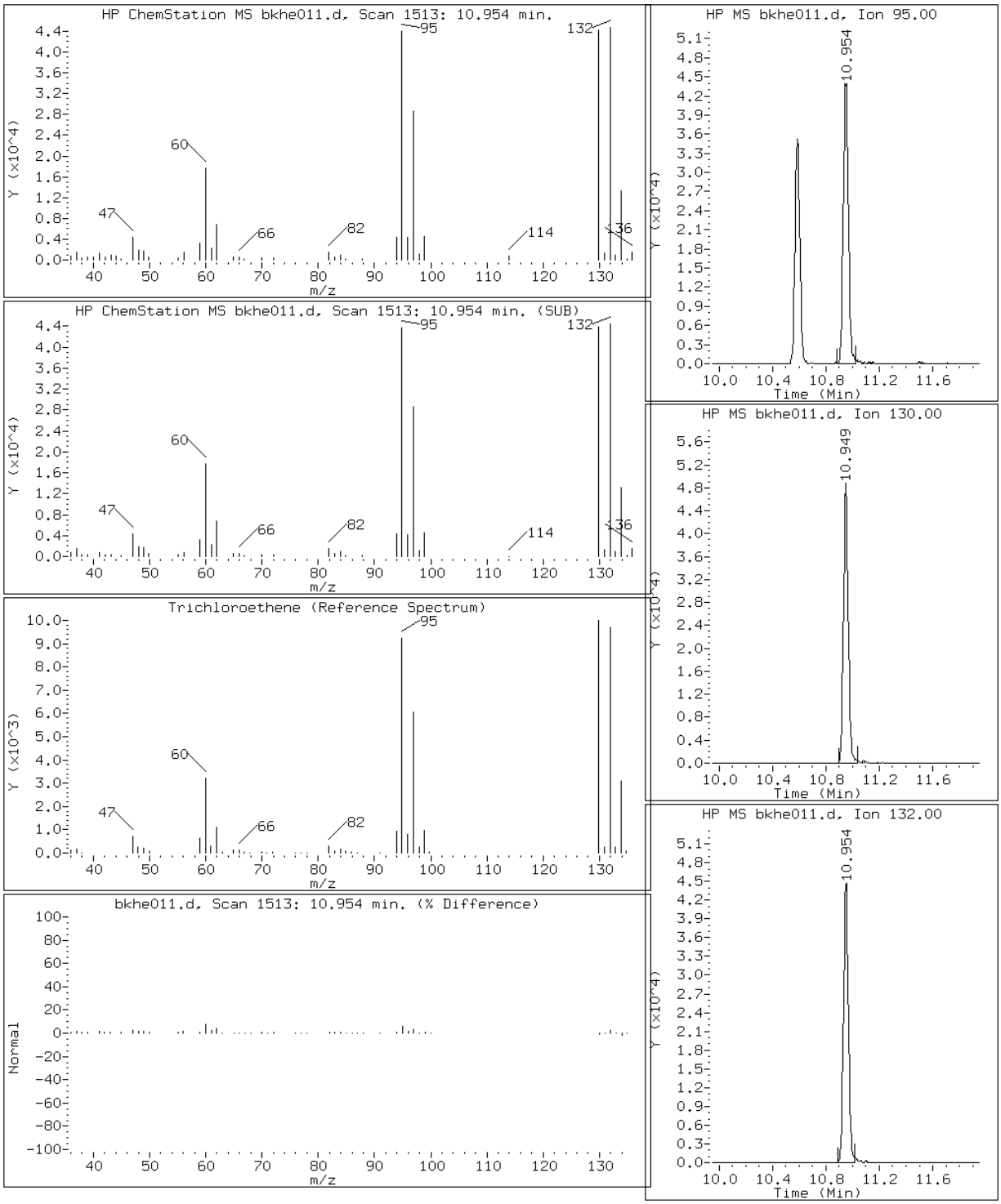
Data File: bkhe011.d

Lab Sample ID: 200-6944-2 Date: 21-SEP-2011 20:07

Client ID: SV-1 Instrument: B.i

Sample Info: 200-6944-A-2 Operator: pad

49 Trichloroethene



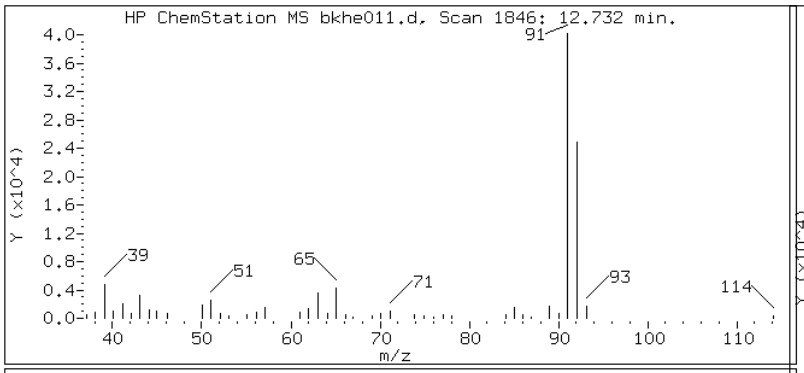
Data File: bkhe011.d

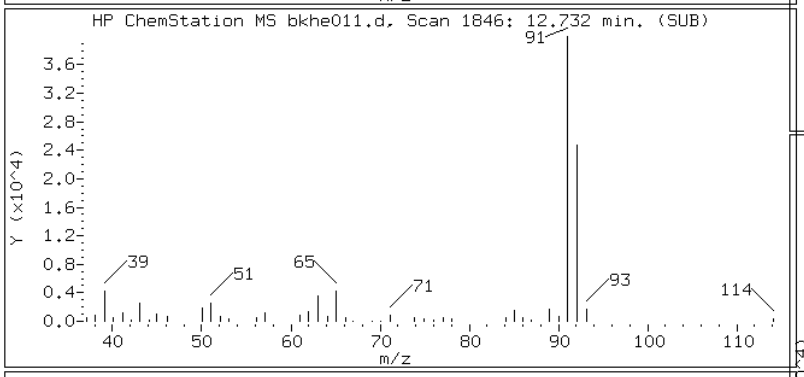
Lab Sample ID: 200-6944-2 Date: 21-SEP-2011 20:07

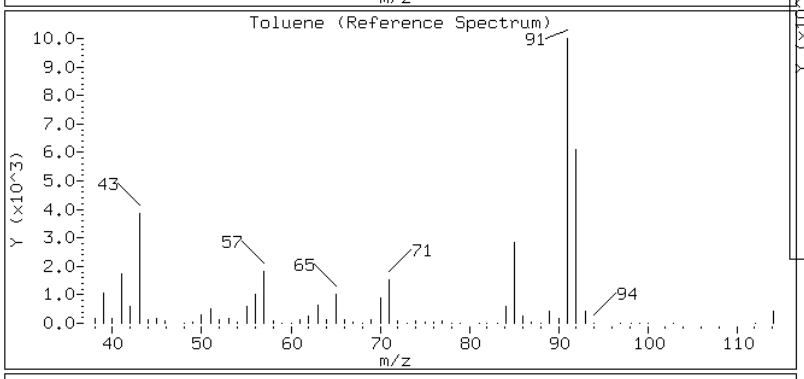
Client ID: SV-1 Instrument: B.i

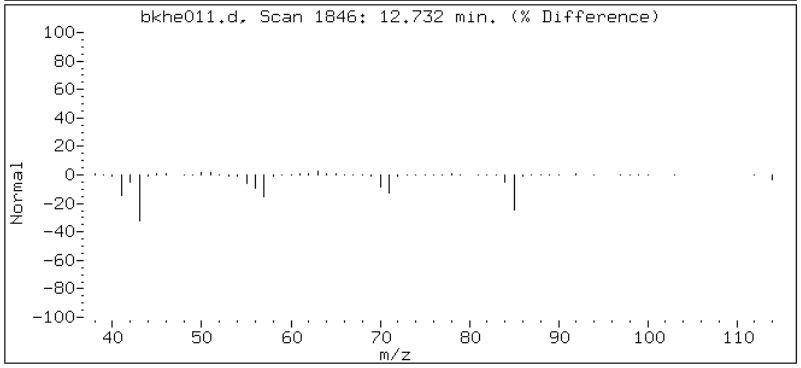
Sample Info: 200-6944-A-2 Operator: pad

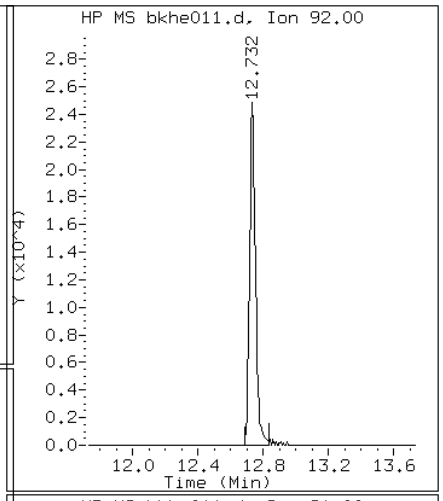
58 Toluene

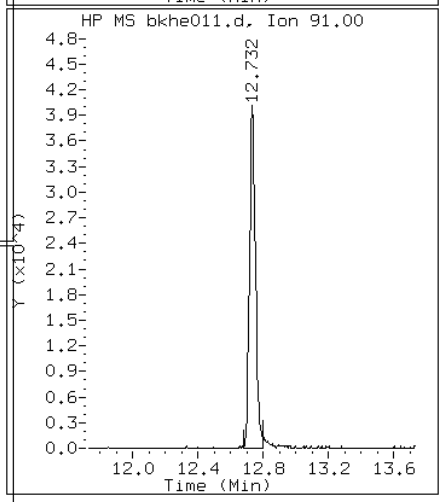












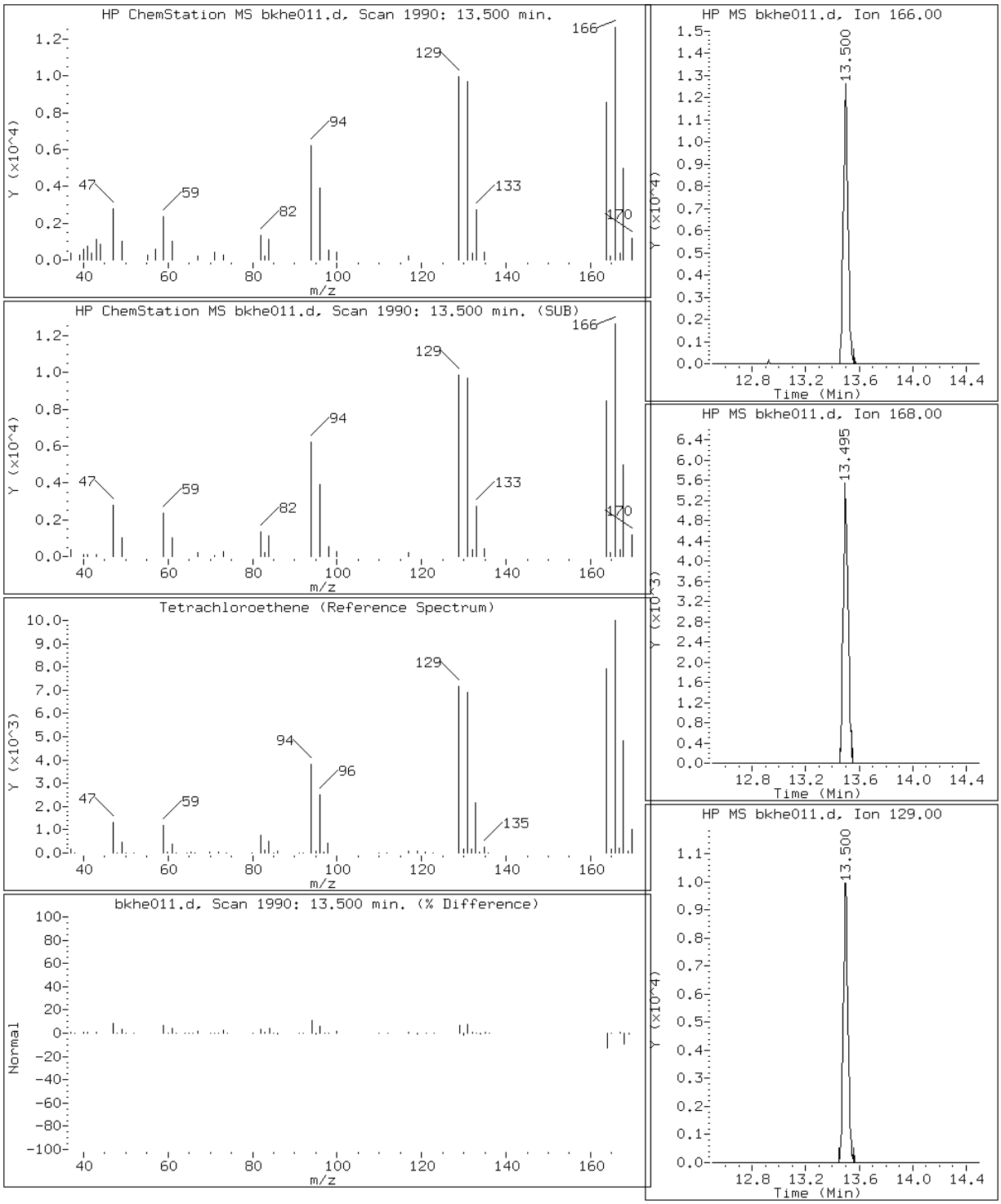
Data File: bkhe011.d

Lab Sample ID: 200-6944-2 Date: 21-SEP-2011 20:07

Client ID: SV-1 Instrument: B.i

Sample Info: 200-6944-A-2 Operator: pad

61 Tetrachloroethene



Manual Integration Report

Data File: bkhe011.d
Lab Sample ID: 200-6944-2
Inj. Date and Time: 21-SEP-2011 20:07
Instrument ID: B.i
Client ID: SV-1
Compound: 56 Methyl isobutyl ketone
CAS #: 108-10-1
Report Date: 09/23/2011

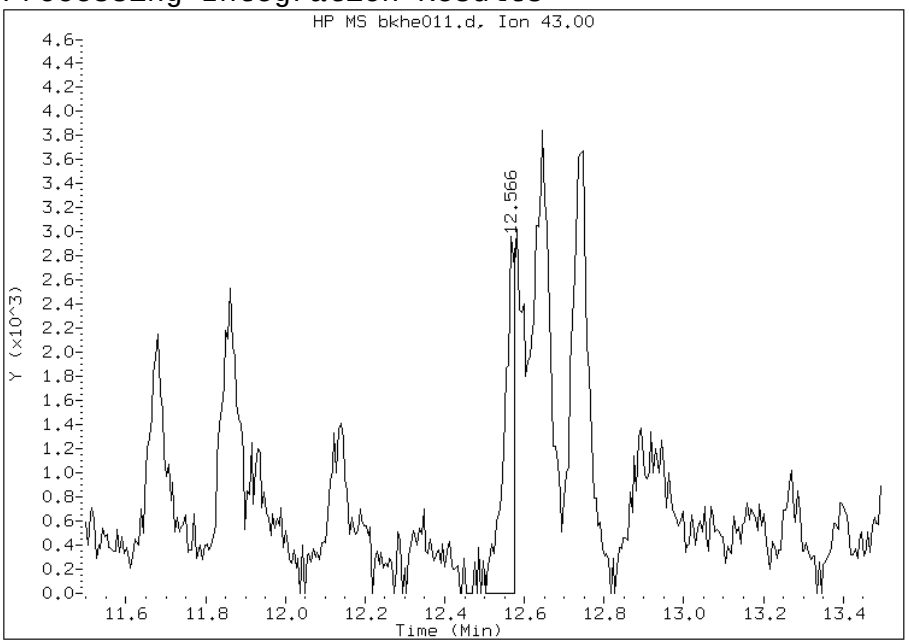
Processing Integration Results

RT: 12.57

Response: 5707

Amount: 0.050023

Conc: 0.435203



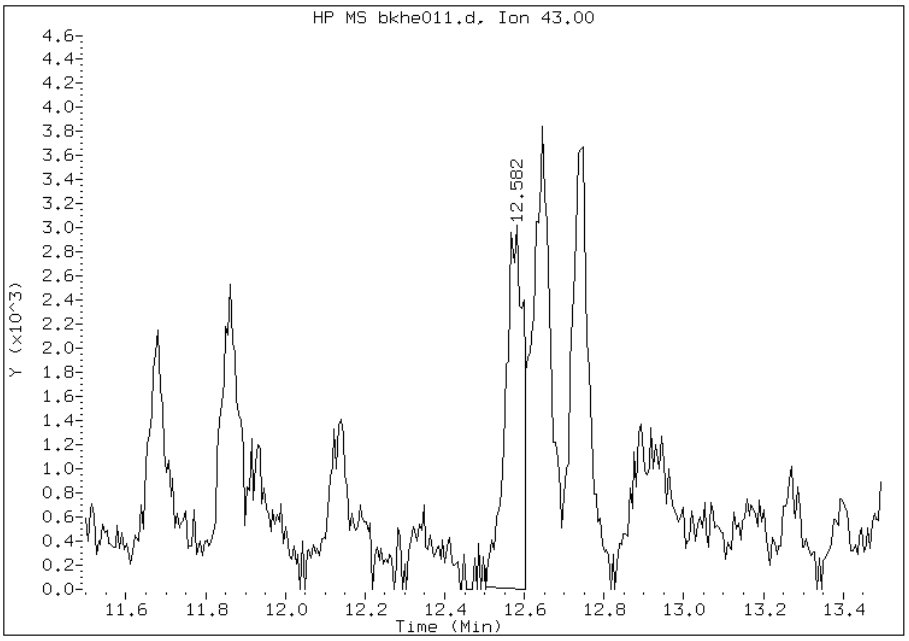
Manual Integration Results

RT: 12.58

Response: 9438

Amount: 0.082726

Conc: 0.719720



File Uploaded By: jd1
Manual Integration Reason: Baseline event

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-2 Lab Sample ID: 200-6944-3

Matrix: Air Lab File ID: bkhe012.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:33

Sample wt/vol: 22(mL) Date Analyzed: 09/21/2011 20:59

Soil Aliquot Vol: Dilution Factor: 33.6

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	17	U	17	17
75-45-6	Freon 22	86.47	17	U	17	17
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	6.7	U	6.7	6.7
74-87-3	Chloromethane	50.49	17	U	17	17
106-97-8	n-Butane	58.12	17		17	17
75-01-4	Vinyl chloride	62.50	6.7	U	6.7	6.7
106-99-0	1,3-Butadiene	54.09	6.7	U	6.7	6.7
74-83-9	Bromomethane	94.94	6.7	U	6.7	6.7
75-00-3	Chloroethane	64.52	17	U	17	17
593-60-2	Bromoethene(Vinyl Bromide)	106.96	6.7	U	6.7	6.7
75-69-4	Trichlorofluoromethane	137.37	8.0		6.7	6.7
76-13-1	Freon TF	187.38	6.7	U	6.7	6.7
75-35-4	1,1-Dichloroethene	96.94	6.7	U	6.7	6.7
67-64-1	Acetone	58.08	600		170	170
67-63-0	Isopropyl alcohol	60.10	170	U	170	170
75-15-0	Carbon disulfide	76.14	72		17	17
107-05-1	3-Chloropropene	76.53	17	U	17	17
75-09-2	Methylene Chloride	84.93	17	U	17	17
75-65-0	tert-Butyl alcohol	74.12	170	U	170	170
1634-04-4	Methyl tert-butyl ether	88.15	6.7	U	6.7	6.7
156-60-5	trans-1,2-Dichloroethene	96.94	6.7	U	6.7	6.7
110-54-3	n-Hexane	86.17	6.7	U	6.7	6.7
75-34-3	1,1-Dichloroethane	98.96	6.7	U	6.7	6.7
78-93-3	Methyl Ethyl Ketone	72.11	32		17	17
156-59-2	cis-1,2-Dichloroethene	96.94	6.7	U	6.7	6.7
540-59-0	1,2-Dichloroethene, Total	96.94	6.7	U	6.7	6.7
67-66-3	Chloroform	119.38	890		6.7	6.7
109-99-9	Tetrahydrofuran	72.11	170	U	170	170
71-55-6	1,1,1-Trichloroethane	133.41	6.7	U	6.7	6.7
110-82-7	Cyclohexane	84.16	6.7	U	6.7	6.7
56-23-5	Carbon tetrachloride	153.81	680		6.7	6.7
540-84-1	2,2,4-Trimethylpentane	114.23	6.7	U	6.7	6.7
71-43-2	Benzene	78.11	6.7	U	6.7	6.7
107-06-2	1,2-Dichloroethane	98.96	6.7	U	6.7	6.7
142-82-5	n-Heptane	100.21	6.7	U	6.7	6.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-2 Lab Sample ID: 200-6944-3

Matrix: Air Lab File ID: bkhe012.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:33

Sample wt/vol: 22(mL) Date Analyzed: 09/21/2011 20:59

Soil Aliquot Vol: Dilution Factor: 33.6

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	380		6.7	6.7
80-62-6	Methyl methacrylate	100.12	17	U	17	17
78-87-5	1,2-Dichloropropane	112.99	6.7	U	6.7	6.7
123-91-1	1,4-Dioxane	88.11	170	U	170	170
75-27-4	Bromodichloromethane	163.83	6.7	U	6.7	6.7
10061-01-5	cis-1,3-Dichloropropene	110.97	6.7	U	6.7	6.7
108-10-1	methyl isobutyl ketone	100.16	17	U	17	17
108-88-3	Toluene	92.14	6.7	U	6.7	6.7
10061-02-6	trans-1,3-Dichloropropene	110.97	6.7	U	6.7	6.7
79-00-5	1,1,2-Trichloroethane	133.41	6.7	U	6.7	6.7
127-18-4	Tetrachloroethene	165.83	12		6.7	6.7
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	17	U	17	17
124-48-1	Dibromochloromethane	208.29	6.7	U	6.7	6.7
106-93-4	1,2-Dibromoethane	187.87	6.7	U	6.7	6.7
108-90-7	Chlorobenzene	112.30	6.7	U	6.7	6.7
100-41-4	Ethylbenzene	106.17	6.7	U	6.7	6.7
179601-23-1	m,p-Xylene	106.17	17	U	17	17
95-47-6	Xylene, o-	106.17	6.7	U	6.7	6.7
1330-20-7	Xylene (total)	106.17	8.3		6.7	6.7
100-42-5	Styrene	104.15	6.7	U	6.7	6.7
75-25-2	Bromoform	252.75	6.7	U	6.7	6.7
98-82-8	Cumene	120.19	6.7	U	6.7	6.7
79-34-5	1,1,2,2-Tetrachloroethane	167.85	6.7	U	6.7	6.7
103-65-1	n-Propylbenzene	120.19	6.7	U	6.7	6.7
622-96-8	4-Ethyltoluene	120.20	6.7	U	6.7	6.7
108-67-8	1,3,5-Trimethylbenzene	120.20	6.7	U	6.7	6.7
95-49-8	2-Chlorotoluene	126.59	6.7	U	6.7	6.7
98-06-6	tert-Butylbenzene	134.22	6.7	U	6.7	6.7
95-63-6	1,2,4-Trimethylbenzene	120.20	6.7	U	6.7	6.7
135-98-8	sec-Butylbenzene	134.22	6.7	U	6.7	6.7
99-87-6	4-Isopropyltoluene	134.22	6.7	U	6.7	6.7
541-73-1	1,3-Dichlorobenzene	147.00	6.7	U	6.7	6.7
106-46-7	1,4-Dichlorobenzene	147.00	6.7	U	6.7	6.7
100-44-7	Benzyl chloride	126.58	6.7	U	6.7	6.7
104-51-8	n-Butylbenzene	134.22	6.7	U	6.7	6.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-2 Lab Sample ID: 200-6944-3

Matrix: Air Lab File ID: bkhe012.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:33

Sample wt/vol: 22(mL) Date Analyzed: 09/21/2011 20:59

Soil Aliquot Vol: Dilution Factor: 33.6

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	6.7	U	6.7	6.7
120-82-1	1,2,4-Trichlorobenzene	181.45	17	U	17	17
87-68-3	Hexachlorobutadiene	260.76	6.7	U	6.7	6.7
91-20-3	Naphthalene	128.17	17	U	17	17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-2 | Lab Sample ID: 200-6944-3

Matrix: Air | Lab File ID: bkhe012.d

Analysis Method: TO-15 | Date Collected: 09/09/2011 17:33

Sample wt/vol: 22(mL) | Date Analyzed: 09/21/2011 20:59

Soil Aliquot Vol: | Dilution Factor: 33.6

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 25690 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	83	U	83	83
75-45-6	Freon 22	86.47	59	U	59	59
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	47	U	47	47
74-87-3	Chloromethane	50.49	35	U	35	35
106-97-8	n-Butane	58.12	40		40	40
75-01-4	Vinyl chloride	62.50	17	U	17	17
106-99-0	1,3-Butadiene	54.09	15	U	15	15
74-83-9	Bromomethane	94.94	26	U	26	26
75-00-3	Chloroethane	64.52	44	U	44	44
593-60-2	Bromoethene(Vinyl Bromide)	106.96	29	U	29	29
75-69-4	Trichlorofluoromethane	137.37	45		38	38
76-13-1	Freon TF	187.38	52	U	52	52
75-35-4	1,1-Dichloroethene	96.94	27	U	27	27
67-64-1	Acetone	58.08	1400		400	400
67-63-0	Isopropyl alcohol	60.10	410	U	410	410
75-15-0	Carbon disulfide	76.14	230		52	52
107-05-1	3-Chloropropene	76.53	53	U	53	53
75-09-2	Methylene Chloride	84.93	58	U	58	58
75-65-0	tert-Butyl alcohol	74.12	510	U	510	510
1634-04-4	Methyl tert-butyl ether	88.15	24	U	24	24
156-60-5	trans-1,2-Dichloroethene	96.94	27	U	27	27
110-54-3	n-Hexane	86.17	24	U	24	24
75-34-3	1,1-Dichloroethane	98.96	27	U	27	27
78-93-3	Methyl Ethyl Ketone	72.11	94		50	50
156-59-2	cis-1,2-Dichloroethene	96.94	27	U	27	27
540-59-0	1,2-Dichloroethene, Total	96.94	27	U	27	27
67-66-3	Chloroform	119.38	4300		33	33
109-99-9	Tetrahydrofuran	72.11	500	U	500	500
71-55-6	1,1,1-Trichloroethane	133.41	37	U	37	37
110-82-7	Cyclohexane	84.16	23	U	23	23
56-23-5	Carbon tetrachloride	153.81	4300		42	42
540-84-1	2,2,4-Trimethylpentane	114.23	31	U	31	31
71-43-2	Benzene	78.11	21	U	21	21
107-06-2	1,2-Dichloroethane	98.96	27	U	27	27
142-82-5	n-Heptane	100.21	28	U	28	28

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-2 Lab Sample ID: 200-6944-3

Matrix: Air Lab File ID: bkhe012.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:33

Sample wt/vol: 22(mL) Date Analyzed: 09/21/2011 20:59

Soil Aliquot Vol: Dilution Factor: 33.6

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	2100		36	36
80-62-6	Methyl methacrylate	100.12	69	U	69	69
78-87-5	1,2-Dichloropropane	112.99	31	U	31	31
123-91-1	1,4-Dioxane	88.11	610	U	610	610
75-27-4	Bromodichloromethane	163.83	45	U	45	45
10061-01-5	cis-1,3-Dichloropropene	110.97	30	U	30	30
108-10-1	methyl isobutyl ketone	100.16	69	U	69	69
108-88-3	Toluene	92.14	25	U	25	25
10061-02-6	trans-1,3-Dichloropropene	110.97	30	U	30	30
79-00-5	1,1,2-Trichloroethane	133.41	37	U	37	37
127-18-4	Tetrachloroethene	165.83	83		46	46
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	69	U	69	69
124-48-1	Dibromochloromethane	208.29	57	U	57	57
106-93-4	1,2-Dibromoethane	187.87	52	U	52	52
108-90-7	Chlorobenzene	112.30	31	U	31	31
100-41-4	Ethylbenzene	106.17	29	U	29	29
179601-23-1	m,p-Xylene	106.17	73	U	73	73
95-47-6	Xylene, o-	106.17	29	U	29	29
1330-20-7	Xylene (total)	106.17	36		29	29
100-42-5	Styrene	104.15	29	U	29	29
75-25-2	Bromoform	252.75	69	U	69	69
98-82-8	Cumene	120.19	33	U	33	33
79-34-5	1,1,2,2-Tetrachloroethane	167.85	46	U	46	46
103-65-1	n-Propylbenzene	120.19	33	U	33	33
622-96-8	4-Ethyltoluene	120.20	33	U	33	33
108-67-8	1,3,5-Trimethylbenzene	120.20	33	U	33	33
95-49-8	2-Chlorotoluene	126.59	35	U	35	35
98-06-6	tert-Butylbenzene	134.22	37	U	37	37
95-63-6	1,2,4-Trimethylbenzene	120.20	33	U	33	33
135-98-8	sec-Butylbenzene	134.22	37	U	37	37
99-87-6	4-Isopropyltoluene	134.22	37	U	37	37
541-73-1	1,3-Dichlorobenzene	147.00	40	U	40	40
106-46-7	1,4-Dichlorobenzene	147.00	40	U	40	40
100-44-7	Benzyl chloride	126.58	35	U	35	35
104-51-8	n-Butylbenzene	134.22	37	U	37	37

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-2 Lab Sample ID: 200-6944-3

Matrix: Air Lab File ID: bkhe012.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:33

Sample wt/vol: 22(mL) Date Analyzed: 09/21/2011 20:59

Soil Aliquot Vol: Dilution Factor: 33.6

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	40	U	40	40
120-82-1	1,2,4-Trichlorobenzene	181.45	120	U	120	120
87-68-3	Hexachlorobutadiene	260.76	72	U	72	72
91-20-3	Naphthalene	128.17	88	U	88	88

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-6944-3
Client Smp ID: SV-2
Inj Date : 21-SEP-2011 20:59
Operator : pad Inst ID: B.i
Smp Info : 200-6944-A-3
Misc Info : 22,33.6, all74 cdf3.69
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/to15v5.m
Meth Date : 23-Sep-2011 09:43 wrd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 15
Dil Factor: 33.60000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	33.60000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	22.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	3.477	3.477	(0.379)	17729	0.50116	17(Q)
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	4.780	4.785	(0.521)	40847	0.23676	8.0
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.034	6.023	(0.657)	1422135	17.9748	600

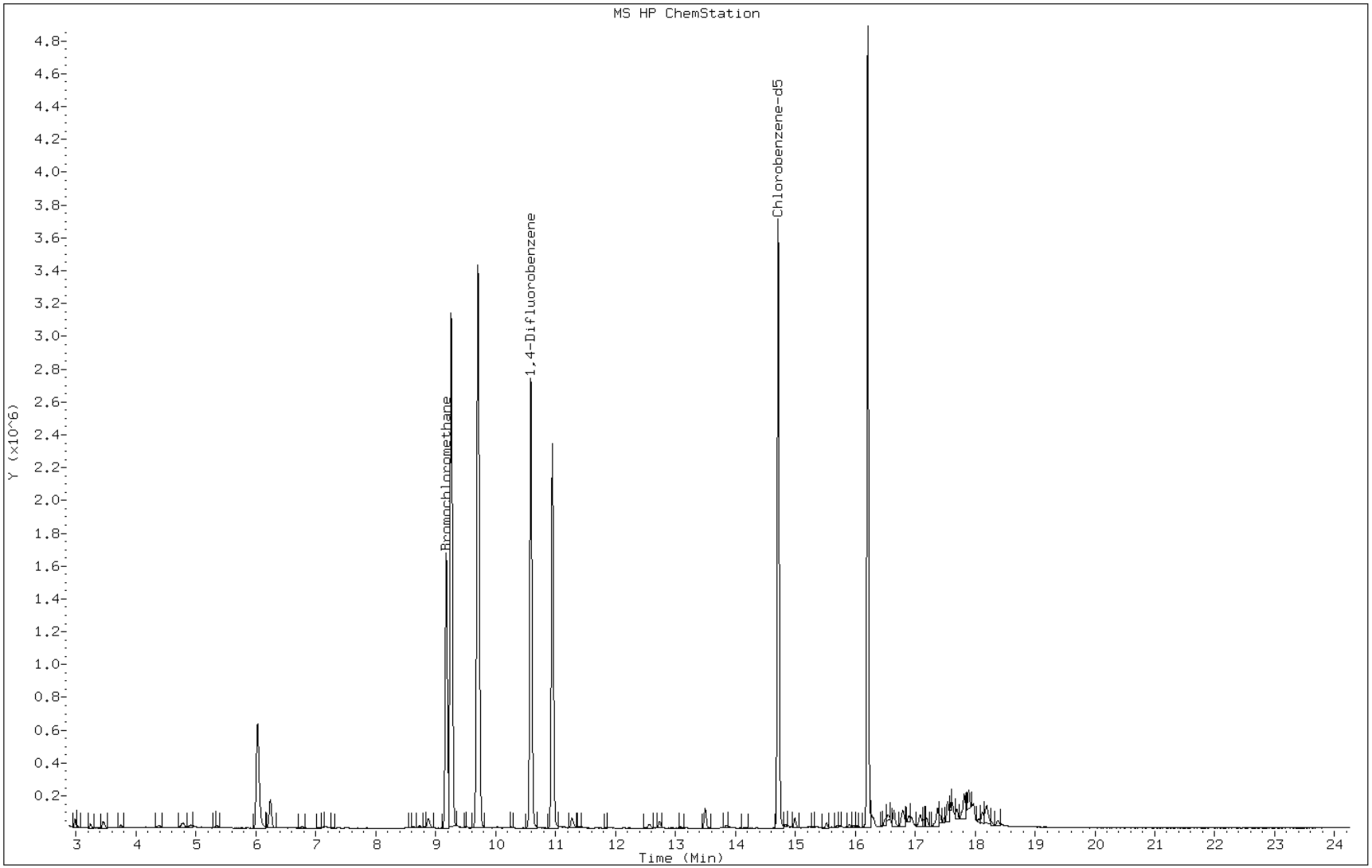
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	21 Carbon disulfide	76	6.247	6.247	(0.681)	375758	2.15681	72
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.781	6.781	(0.739)	6737	0.12021	4.0(aQ)
	26 Tert-butyl alcohol	59	7.144	7.010	(0.778)	32043	0.35127	12(a)
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.507	7.512	(0.818)	5013	0.05409	1.8(a)
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61				8384	0.12421	4.2(a)
	34 1,2-Dichloroethene (cis)	96	8.825	8.820	(0.962)	8384	0.12421	4.2(a)
	36 Methyl Ethyl Ketone	72	8.878	8.836	(0.967)	31239	0.95142	32(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	640520	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	9.257	9.263	(1.009)	3505963	26.4662	890
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	9.706	9.711	(0.917)	3339010	20.3806	680
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	10.586	10.592	(1.000)	3075082	10.0000	
	49 Trichloroethene	95	10.949	10.949	(1.034)	1062806	11.4556	380
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	12.572	12.497	(1.188)	30285	0.26417	8.9(a)
	58 Toluene	92	12.742	12.732	(0.866)	24206	0.16153	5.4(a)
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	50460	0.36314	12
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	2740389	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	14.845	14.840	(1.009)	17455	0.05321	1.8(a)
	69 Xylene (m,p)	106	14.994	14.994	(1.019)	23430	0.17442	5.9(a)
M	70 Xylenes, Total	106				32942	0.24568	8.3
	71 Xylene (o)	106	15.523	15.523	(1.055)	9512	0.07126	2.4(aQ)
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File:	bkhe012.d	Date:	21-SEP-2011 20:59
Client ID:	SV-2	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-6944-A-3		
Lab Sample ID:	200-6944-3		



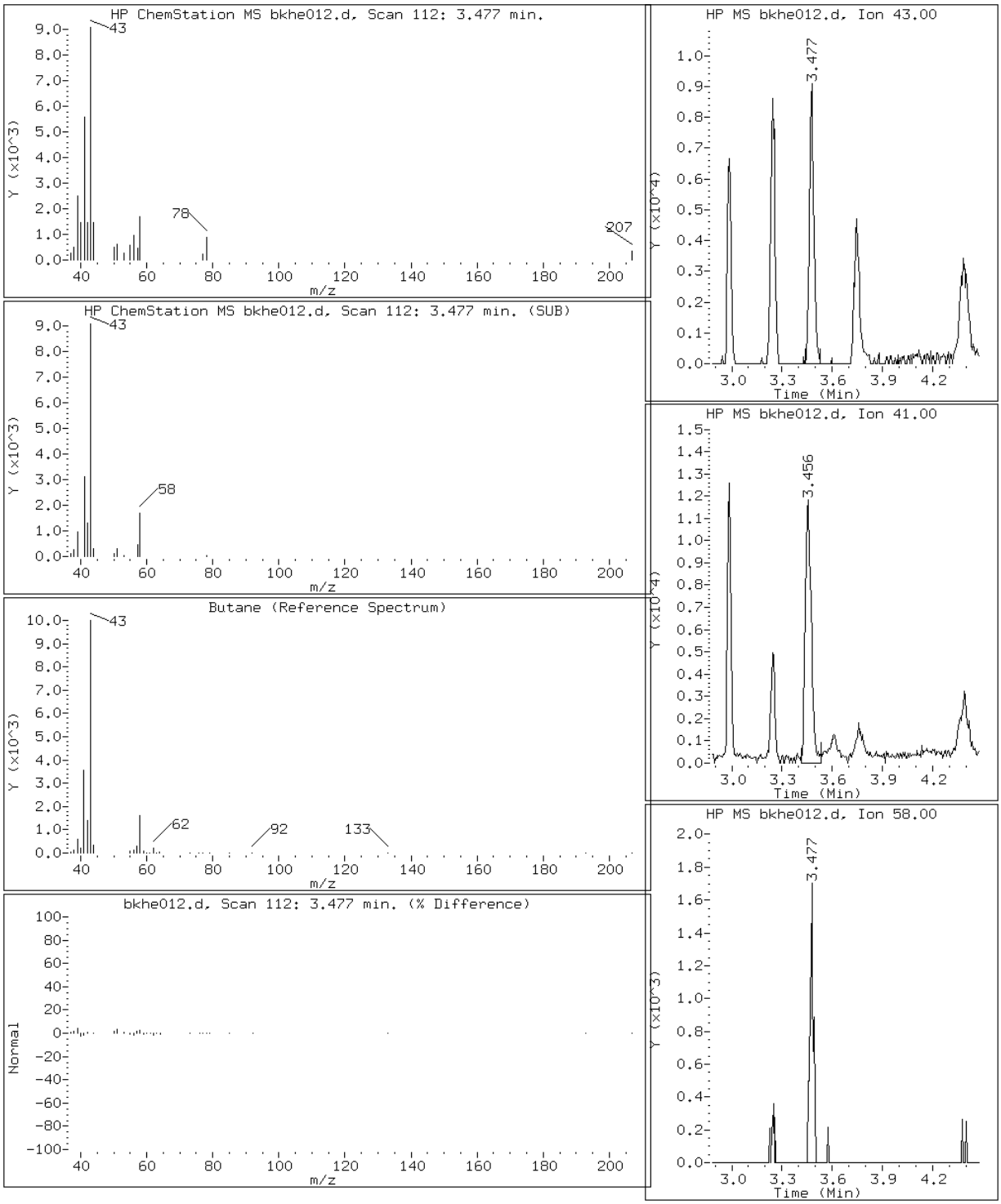
Data File: bkhe012.d

Lab Sample ID: 200-6944-3 Date: 21-SEP-2011 20:59

Client ID: SV-2 Instrument: B.i

Sample Info: 200-6944-A-3 Operator: pad

6 Butane



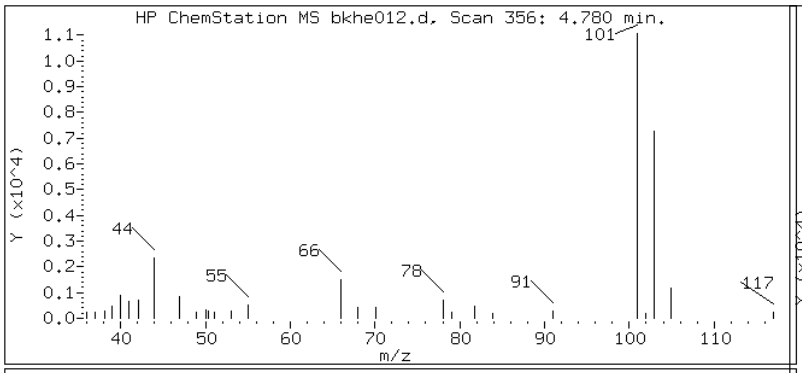
Data File: bkhe012.d

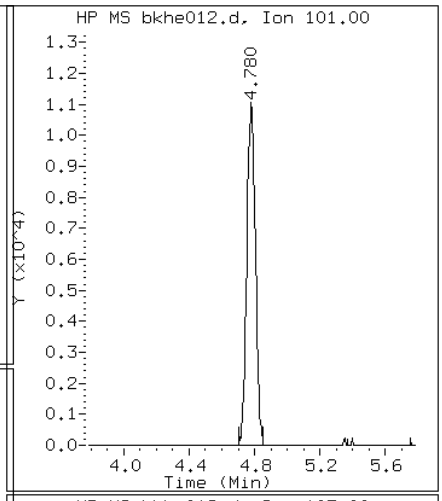
Lab Sample ID: 200-6944-3 Date: 21-SEP-2011 20:59

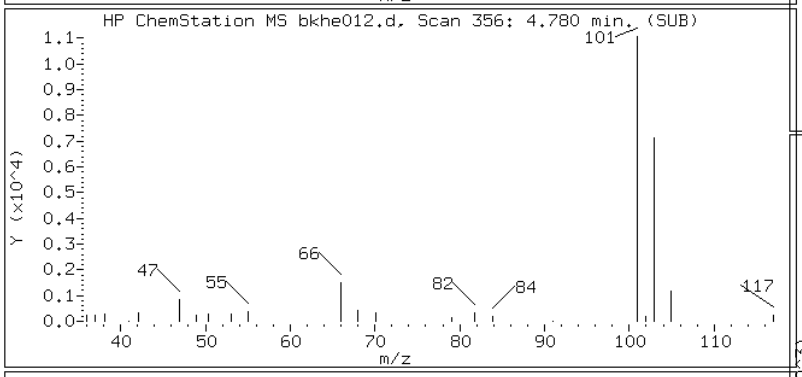
Client ID: SV-2 Instrument: B.i

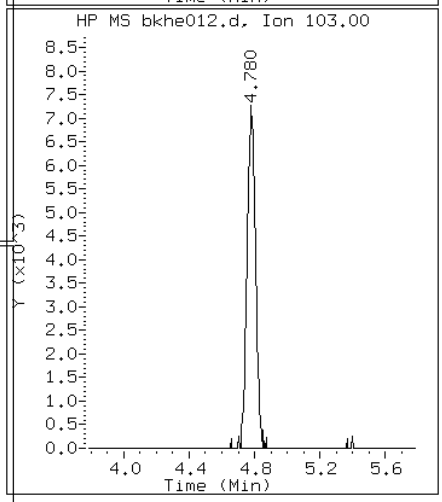
Sample Info: 200-6944-A-3 Operator: pad

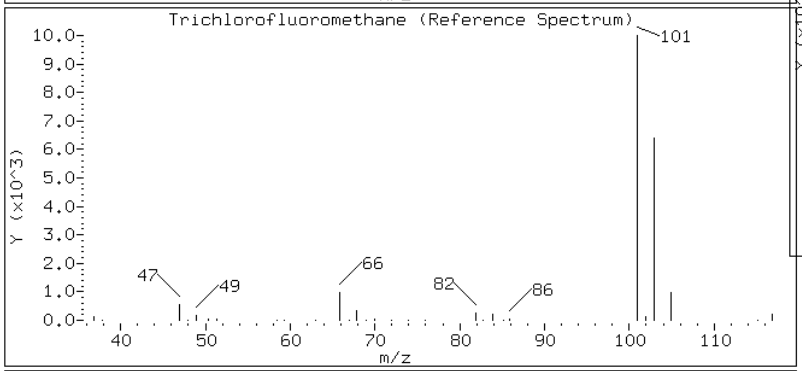
13 Trichlorofluoromethane

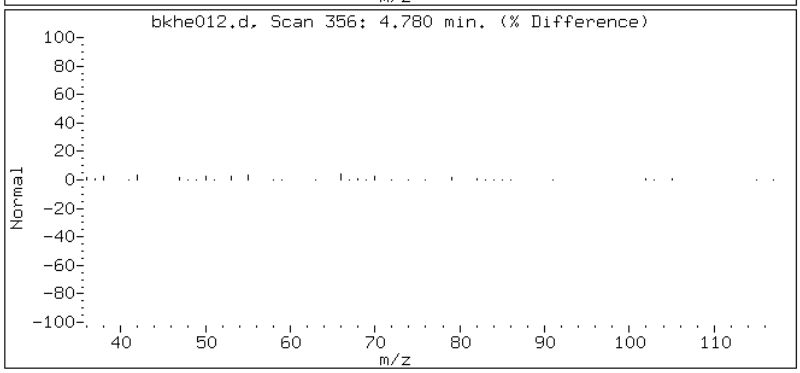












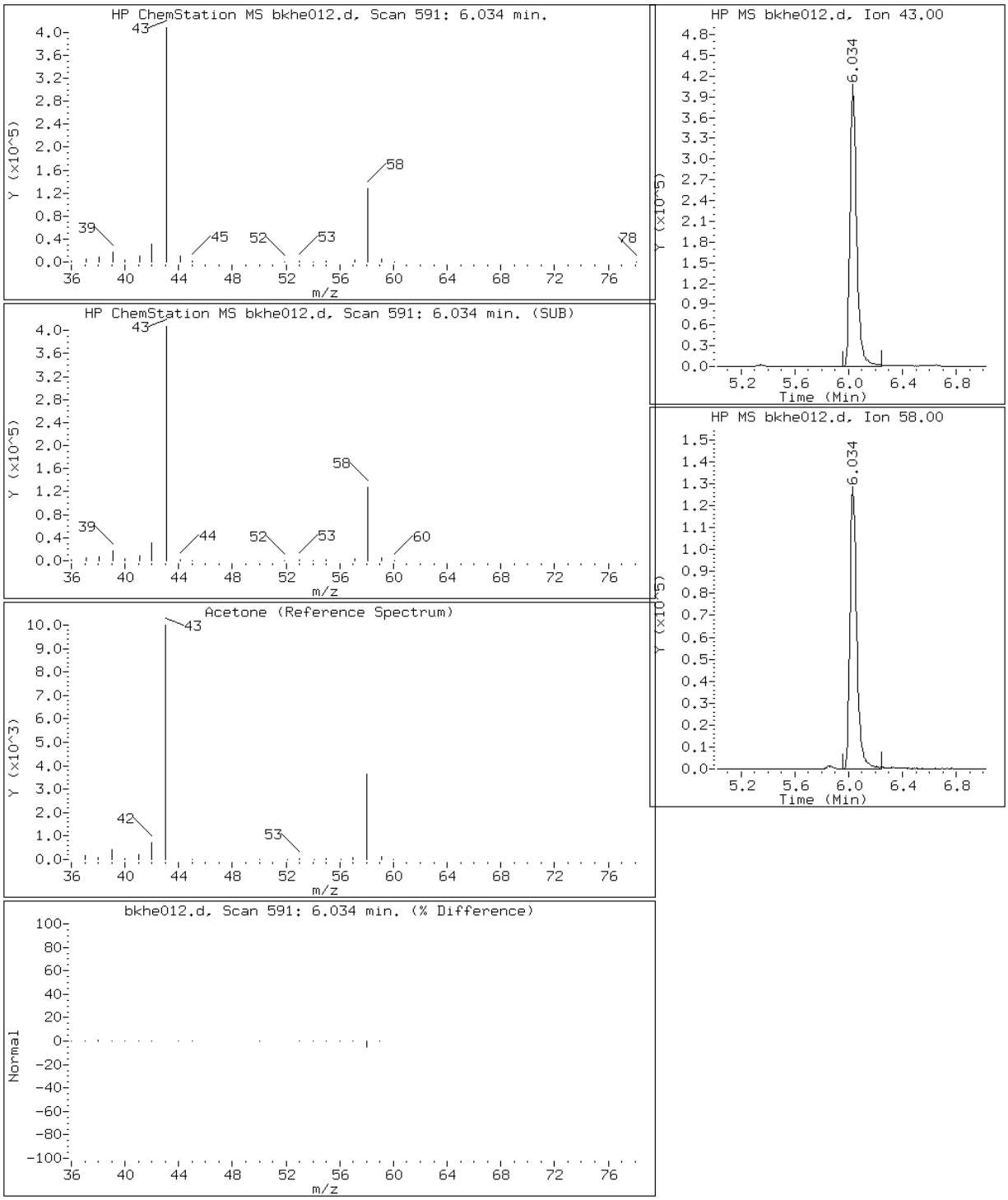
Data File: bkhe012.d

Lab Sample ID: 200-6944-3 Date: 21-SEP-2011 20:59

Client ID: SV-2 Instrument: B.i

Sample Info: 200-6944-A-3 Operator: pad

20 Acetone



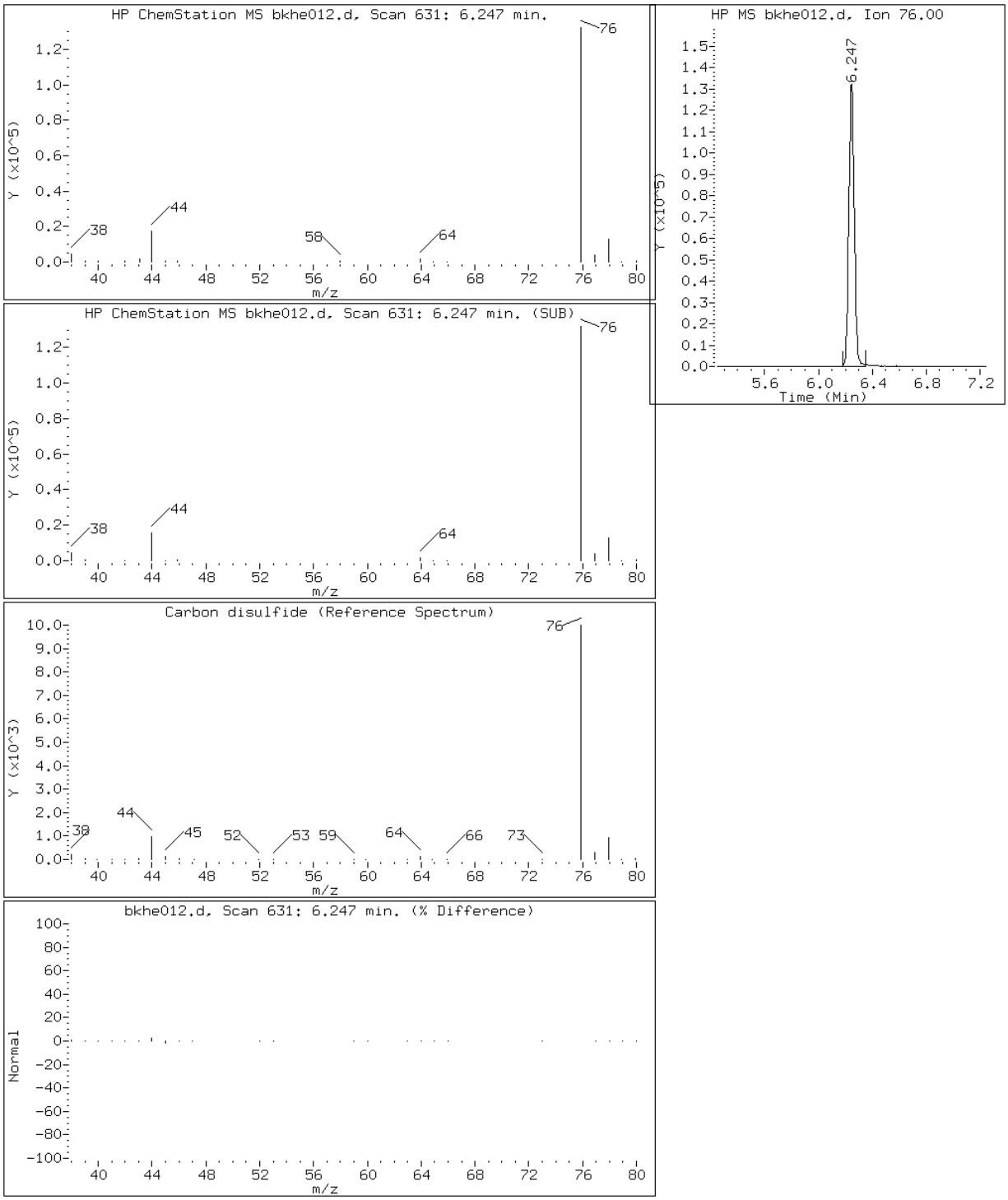
Data File: bkhe012.d

Lab Sample ID: 200-6944-3 Date: 21-SEP-2011 20:59

Client ID: SV-2 Instrument: B.i

Sample Info: 200-6944-A-3 Operator: pad

21 Carbon disulfide



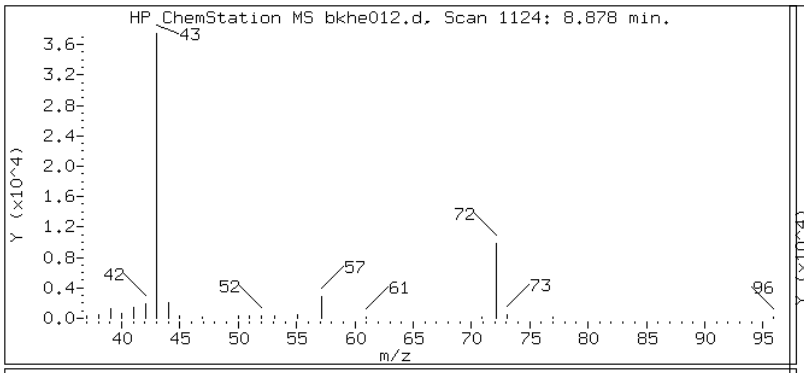
Data File: bkhe012.d

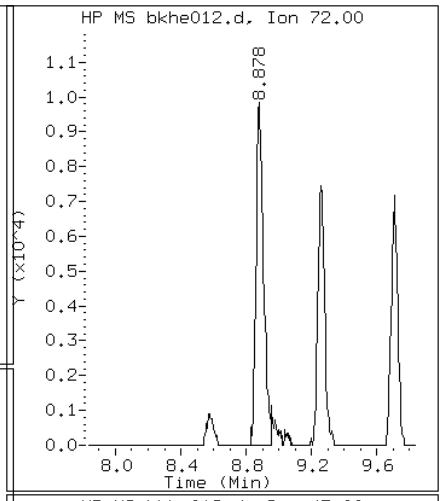
Lab Sample ID: 200-6944-3 Date: 21-SEP-2011 20:59

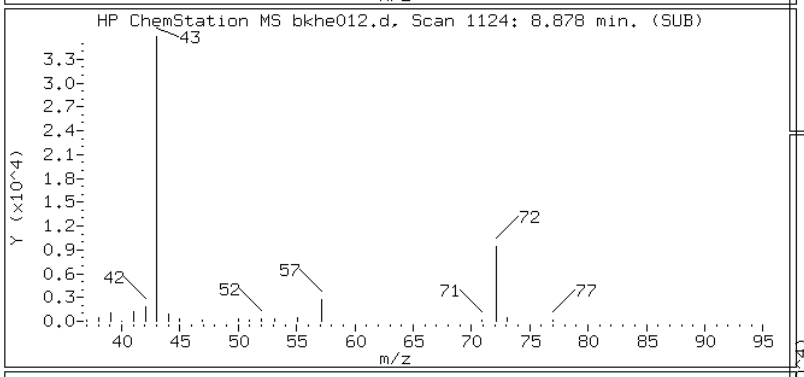
Client ID: SV-2 Instrument: B.i

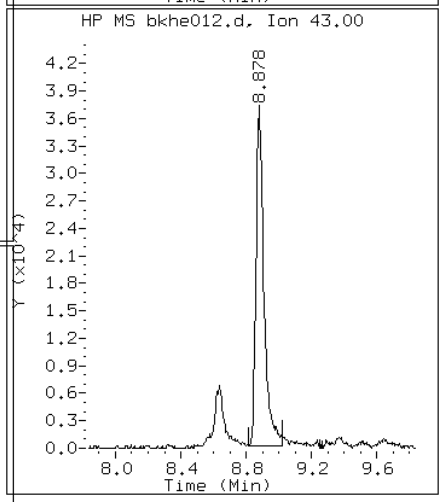
Sample Info: 200-6944-A-3 Operator: pad

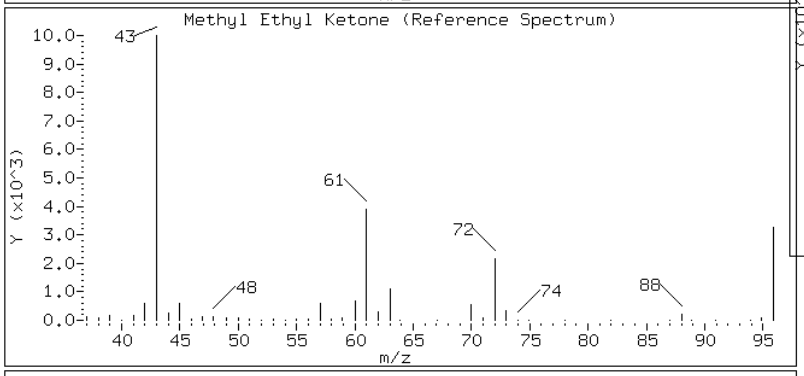
36 Methyl Ethyl Ketone

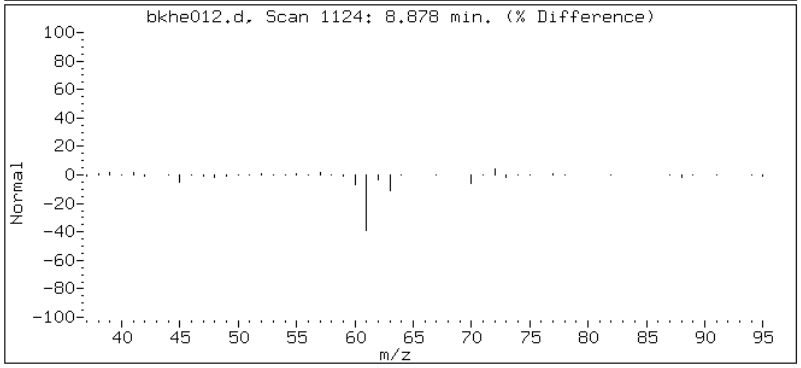












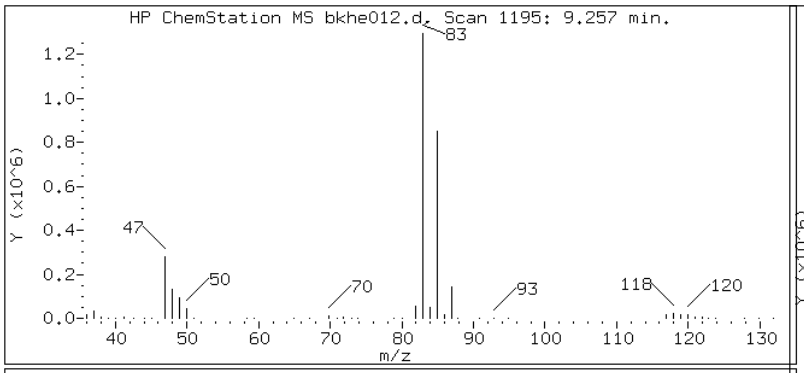
Data File: bkhe012.d

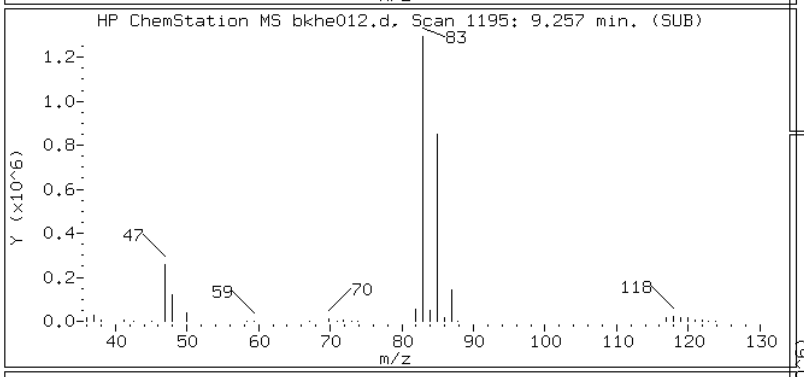
Lab Sample ID: 200-6944-3 Date: 21-SEP-2011 20:59

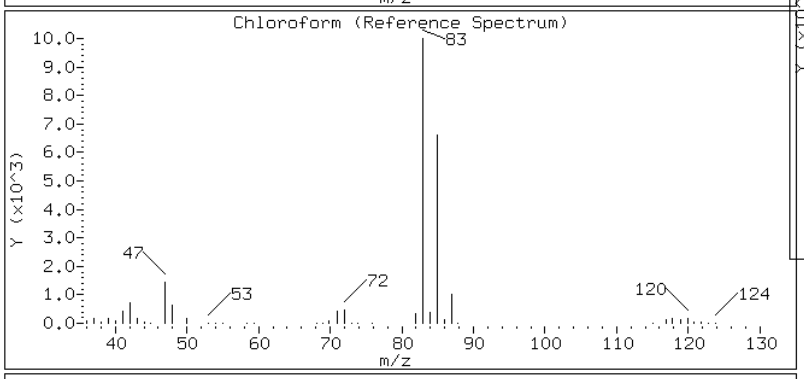
Client ID: SV-2 Instrument: B.i

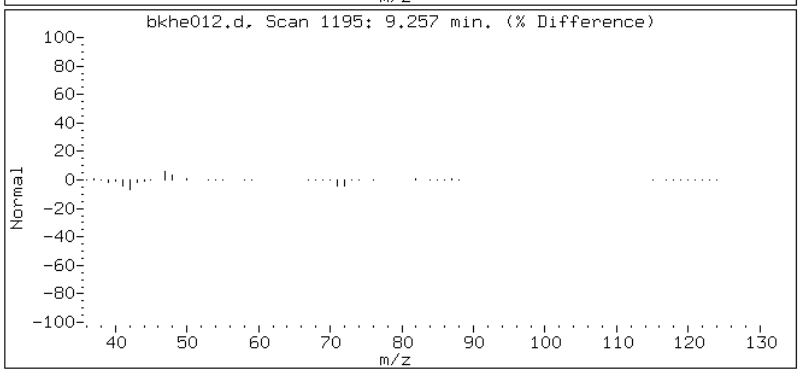
Sample Info: 200-6944-A-3 Operator: pad

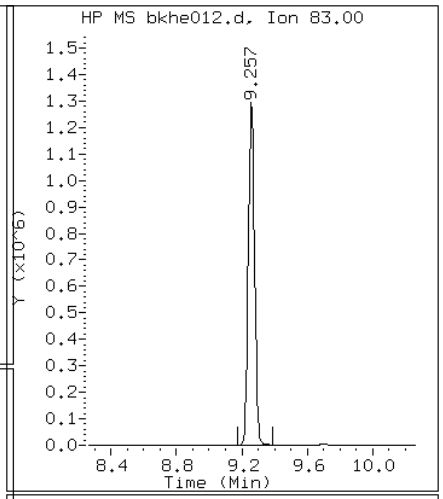
39 Chloroform

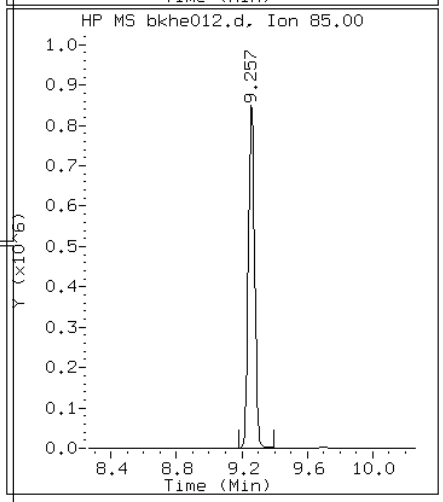












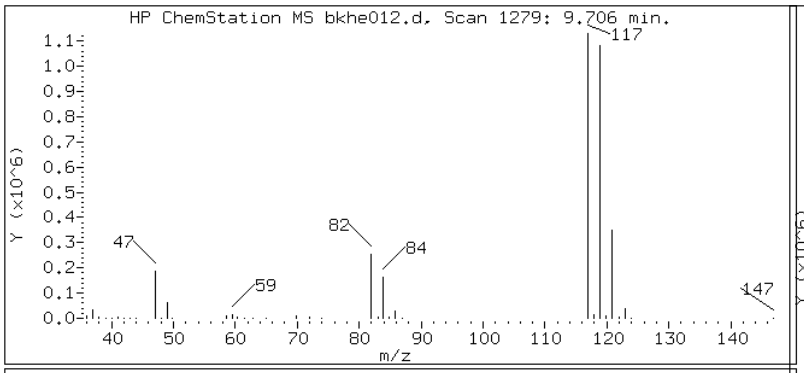
Data File: bkhe012.d

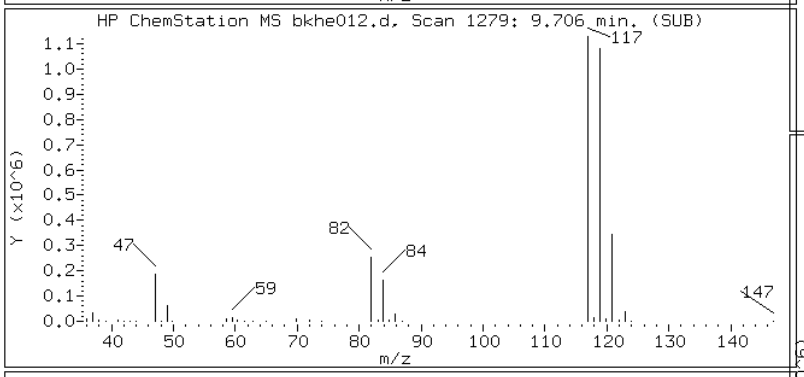
Lab Sample ID: 200-6944-3 Date: 21-SEP-2011 20:59

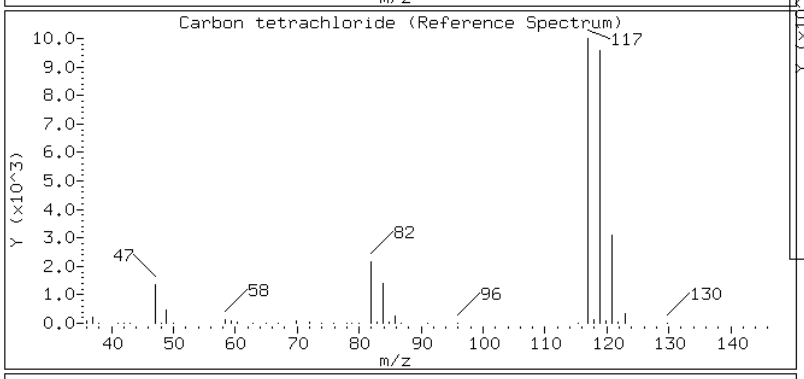
Client ID: SV-2 Instrument: B.i

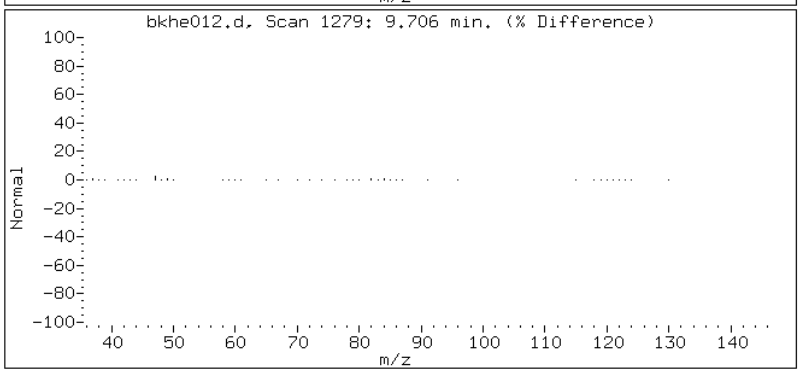
Sample Info: 200-6944-A-3 Operator: pad

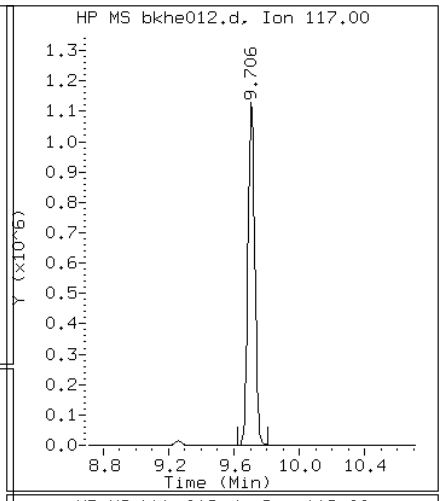
42 Carbon tetrachloride

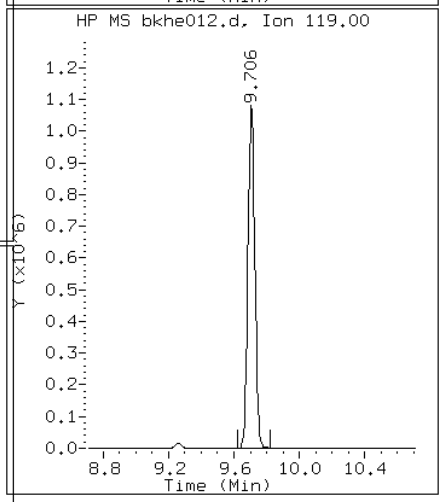












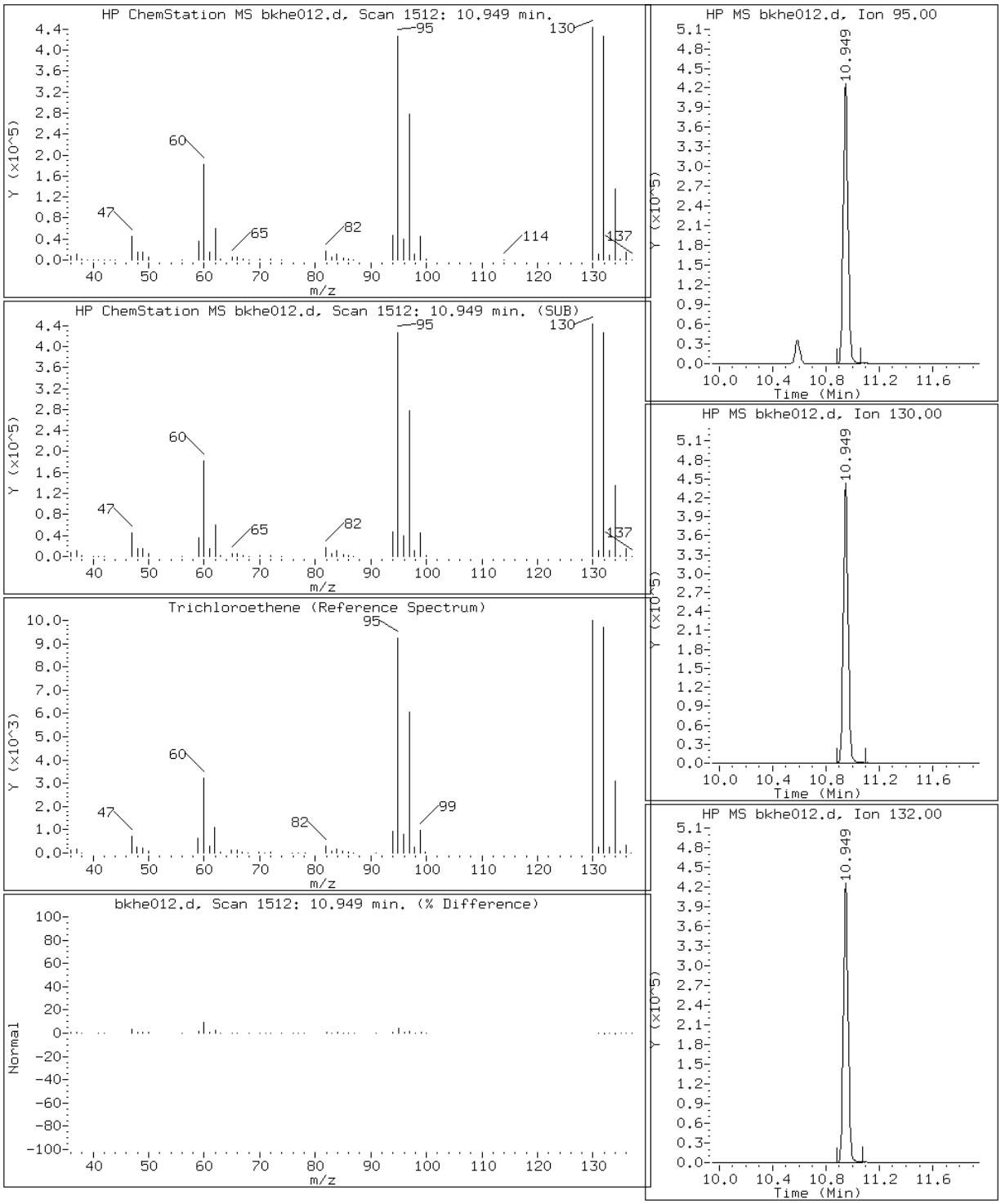
Data File: bkhe012.d

Lab Sample ID: 200-6944-3 Date: 21-SEP-2011 20:59

Client ID: SV-2 Instrument: B.i

Sample Info: 200-6944-A-3 Operator: pad

49 Trichloroethene



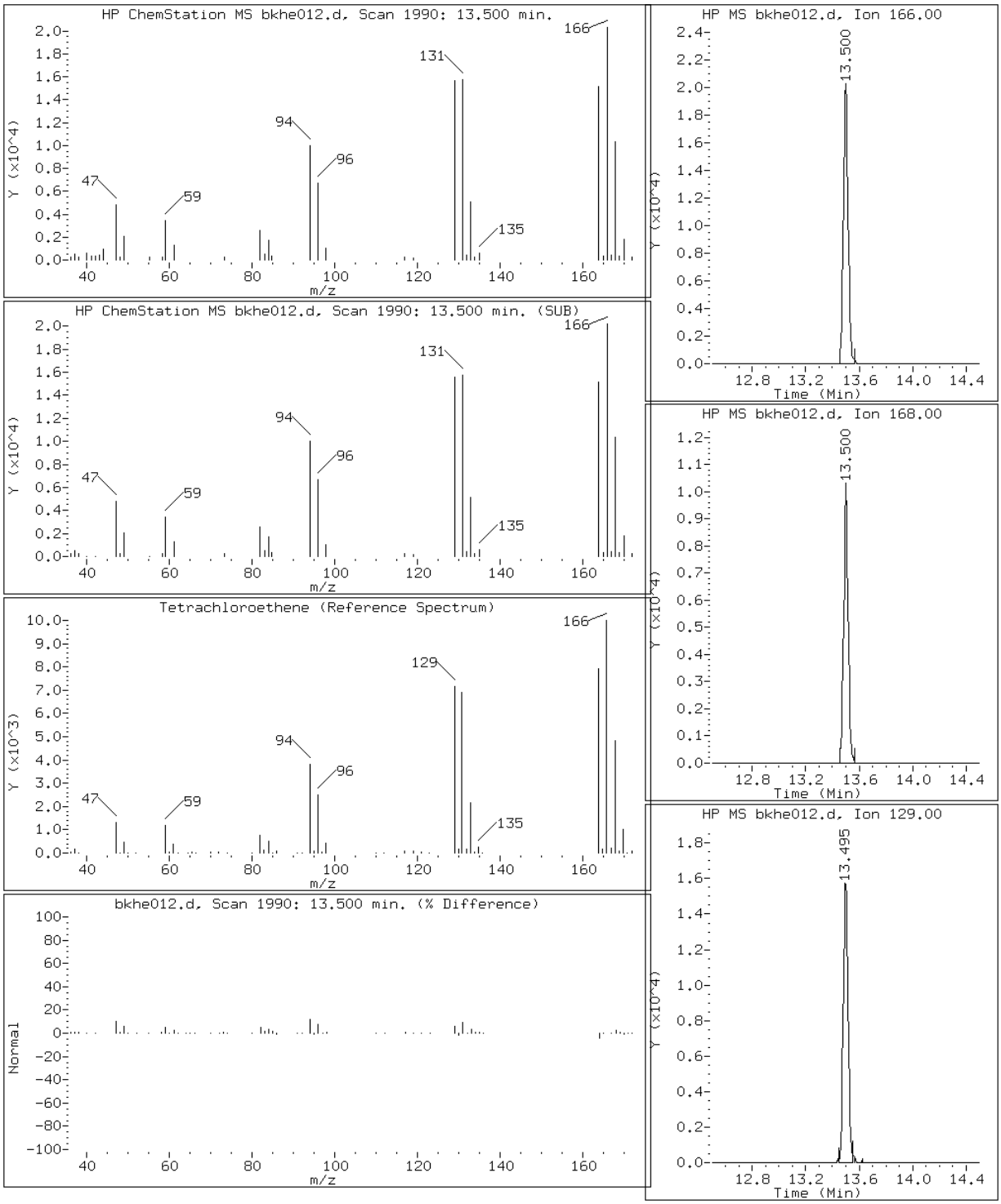
Data File: bkhe012.d

Lab Sample ID: 200-6944-3 Date: 21-SEP-2011 20:59

Client ID: SV-2 Instrument: B.i

Sample Info: 200-6944-A-3 Operator: pad

61 Tetrachloroethene



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-4 | Lab Sample ID: 200-6944-4

Matrix: Air | Lab File ID: bkhe013.d

Analysis Method: TO-15 | Date Collected: 09/09/2011 17:33

Sample wt/vol: 12(mL) | Date Analyzed: 09/21/2011 21:51

Soil Aliquot Vol: | Dilution Factor: 16.7

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 25690 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	8.4	U	8.4	8.4
75-45-6	Freon 22	86.47	8.4	U	8.4	8.4
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	3.3	U	3.3	3.3
74-87-3	Chloromethane	50.49	8.4	U	8.4	8.4
106-97-8	n-Butane	58.12	8.4	U	8.4	8.4
75-01-4	Vinyl chloride	62.50	3.3	U	3.3	3.3
106-99-0	1,3-Butadiene	54.09	3.3	U	3.3	3.3
74-83-9	Bromomethane	94.94	3.3	U	3.3	3.3
75-00-3	Chloroethane	64.52	8.4	U	8.4	8.4
593-60-2	Bromoethene(Vinyl Bromide)	106.96	3.3	U	3.3	3.3
75-69-4	Trichlorofluoromethane	137.37	3.3	U	3.3	3.3
76-13-1	Freon TF	187.38	3.3	U	3.3	3.3
75-35-4	1,1-Dichloroethene	96.94	3.3	U	3.3	3.3
67-64-1	Acetone	58.08	450		84	84
67-63-0	Isopropyl alcohol	60.10	84	U	84	84
75-15-0	Carbon disulfide	76.14	67		8.4	8.4
107-05-1	3-Chloropropene	76.53	8.4	U	8.4	8.4
75-09-2	Methylene Chloride	84.93	8.4	U	8.4	8.4
75-65-0	tert-Butyl alcohol	74.12	84	U	84	84
1634-04-4	Methyl tert-butyl ether	88.15	3.3	U	3.3	3.3
156-60-5	trans-1,2-Dichloroethene	96.94	3.3	U	3.3	3.3
110-54-3	n-Hexane	86.17	3.3		3.3	3.3
75-34-3	1,1-Dichloroethane	98.96	3.3	U	3.3	3.3
78-93-3	Methyl Ethyl Ketone	72.11	23		8.4	8.4
156-59-2	cis-1,2-Dichloroethene	96.94	3.3	U	3.3	3.3
540-59-0	1,2-Dichloroethene, Total	96.94	3.3	U	3.3	3.3
67-66-3	Chloroform	119.38	6.0		3.3	3.3
109-99-9	Tetrahydrofuran	72.11	84	U	84	84
71-55-6	1,1,1-Trichloroethane	133.41	3.3	U	3.3	3.3
110-82-7	Cyclohexane	84.16	3.3	U	3.3	3.3
56-23-5	Carbon tetrachloride	153.81	3.3	U	3.3	3.3
540-84-1	2,2,4-Trimethylpentane	114.23	3.3	U	3.3	3.3
71-43-2	Benzene	78.11	3.3	U	3.3	3.3
107-06-2	1,2-Dichloroethane	98.96	3.3	U	3.3	3.3
142-82-5	n-Heptane	100.21	3.3	U	3.3	3.3

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-4 Lab Sample ID: 200-6944-4

Matrix: Air Lab File ID: bkhe013.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:33

Sample wt/vol: 12(mL) Date Analyzed: 09/21/2011 21:51

Soil Aliquot Vol: Dilution Factor: 16.7

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	4.3		3.3	3.3
80-62-6	Methyl methacrylate	100.12	8.4	U	8.4	8.4
78-87-5	1,2-Dichloropropane	112.99	3.3	U	3.3	3.3
123-91-1	1,4-Dioxane	88.11	84	U	84	84
75-27-4	Bromodichloromethane	163.83	3.3	U	3.3	3.3
10061-01-5	cis-1,3-Dichloropropene	110.97	3.3	U	3.3	3.3
108-10-1	methyl isobutyl ketone	100.16	8.4	U	8.4	8.4
108-88-3	Toluene	92.14	11		3.3	3.3
10061-02-6	trans-1,3-Dichloropropene	110.97	3.3	U	3.3	3.3
79-00-5	1,1,2-Trichloroethane	133.41	3.3	U	3.3	3.3
127-18-4	Tetrachloroethene	165.83	3.3	U	3.3	3.3
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	8.4	U	8.4	8.4
124-48-1	Dibromochloromethane	208.29	3.3	U	3.3	3.3
106-93-4	1,2-Dibromoethane	187.87	3.3	U	3.3	3.3
108-90-7	Chlorobenzene	112.30	3.3	U	3.3	3.3
100-41-4	Ethylbenzene	106.17	3.3	U	3.3	3.3
179601-23-1	m,p-Xylene	106.17	8.4	U	8.4	8.4
95-47-6	Xylene, o-	106.17	3.3	U	3.3	3.3
1330-20-7	Xylene (total)	106.17	5.0		3.3	3.3
100-42-5	Styrene	104.15	3.3	U	3.3	3.3
75-25-2	Bromoform	252.75	3.3	U	3.3	3.3
98-82-8	Cumene	120.19	3.3	U	3.3	3.3
79-34-5	1,1,2,2-Tetrachloroethane	167.85	3.3	U	3.3	3.3
103-65-1	n-Propylbenzene	120.19	3.3	U	3.3	3.3
622-96-8	4-Ethyltoluene	120.20	3.3	U	3.3	3.3
108-67-8	1,3,5-Trimethylbenzene	120.20	3.3	U	3.3	3.3
95-49-8	2-Chlorotoluene	126.59	3.3	U	3.3	3.3
98-06-6	tert-Butylbenzene	134.22	3.3	U	3.3	3.3
95-63-6	1,2,4-Trimethylbenzene	120.20	3.3	U	3.3	3.3
135-98-8	sec-Butylbenzene	134.22	3.3	U	3.3	3.3
99-87-6	4-Isopropyltoluene	134.22	3.3	U	3.3	3.3
541-73-1	1,3-Dichlorobenzene	147.00	3.3	U	3.3	3.3
106-46-7	1,4-Dichlorobenzene	147.00	3.3	U	3.3	3.3
100-44-7	Benzyl chloride	126.58	3.3	U	3.3	3.3
104-51-8	n-Butylbenzene	134.22	3.3	U	3.3	3.3

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-4 Lab Sample ID: 200-6944-4

Matrix: Air Lab File ID: bkhe013.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:33

Sample wt/vol: 12(mL) Date Analyzed: 09/21/2011 21:51

Soil Aliquot Vol: Dilution Factor: 16.7

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	3.3	U	3.3	3.3
120-82-1	1,2,4-Trichlorobenzene	181.45	8.4	U	8.4	8.4
87-68-3	Hexachlorobutadiene	260.76	3.3	U	3.3	3.3
91-20-3	Naphthalene	128.17	8.4	U	8.4	8.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-4 Lab Sample ID: 200-6944-4

Matrix: Air Lab File ID: bkhe013.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:33

Sample wt/vol: 12(mL) Date Analyzed: 09/21/2011 21:51

Soil Aliquot Vol: Dilution Factor: 16.7

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	41	U	41	41
75-45-6	Freon 22	86.47	30	U	30	30
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	23	U	23	23
74-87-3	Chloromethane	50.49	17	U	17	17
106-97-8	n-Butane	58.12	20	U	20	20
75-01-4	Vinyl chloride	62.50	8.5	U	8.5	8.5
106-99-0	1,3-Butadiene	54.09	7.4	U	7.4	7.4
74-83-9	Bromomethane	94.94	13	U	13	13
75-00-3	Chloroethane	64.52	22	U	22	22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	15	U	15	15
75-69-4	Trichlorofluoromethane	137.37	19	U	19	19
76-13-1	Freon TF	187.38	26	U	26	26
75-35-4	1,1-Dichloroethene	96.94	13	U	13	13
67-64-1	Acetone	58.08	1100		200	200
67-63-0	Isopropyl alcohol	60.10	210	U	210	210
75-15-0	Carbon disulfide	76.14	210		26	26
107-05-1	3-Chloropropene	76.53	26	U	26	26
75-09-2	Methylene Chloride	84.93	29	U	29	29
75-65-0	tert-Butyl alcohol	74.12	250	U	250	250
1634-04-4	Methyl tert-butyl ether	88.15	12	U	12	12
156-60-5	trans-1,2-Dichloroethene	96.94	13	U	13	13
110-54-3	n-Hexane	86.17	12		12	12
75-34-3	1,1-Dichloroethane	98.96	14	U	14	14
78-93-3	Methyl Ethyl Ketone	72.11	67		25	25
156-59-2	cis-1,2-Dichloroethene	96.94	13	U	13	13
540-59-0	1,2-Dichloroethene, Total	96.94	13	U	13	13
67-66-3	Chloroform	119.38	29		16	16
109-99-9	Tetrahydrofuran	72.11	250	U	250	250
71-55-6	1,1,1-Trichloroethane	133.41	18	U	18	18
110-82-7	Cyclohexane	84.16	11	U	11	11
56-23-5	Carbon tetrachloride	153.81	21	U	21	21
540-84-1	2,2,4-Trimethylpentane	114.23	16	U	16	16
71-43-2	Benzene	78.11	11	U	11	11
107-06-2	1,2-Dichloroethane	98.96	14	U	14	14
142-82-5	n-Heptane	100.21	14	U	14	14

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-4 Lab Sample ID: 200-6944-4

Matrix: Air Lab File ID: bkhe013.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:33

Sample wt/vol: 12(mL) Date Analyzed: 09/21/2011 21:51

Soil Aliquot Vol: Dilution Factor: 16.7

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	23		18	18
80-62-6	Methyl methacrylate	100.12	34	U	34	34
78-87-5	1,2-Dichloropropane	112.99	15	U	15	15
123-91-1	1,4-Dioxane	88.11	300	U	300	300
75-27-4	Bromodichloromethane	163.83	22	U	22	22
10061-01-5	cis-1,3-Dichloropropene	110.97	15	U	15	15
108-10-1	methyl isobutyl ketone	100.16	34	U	34	34
108-88-3	Toluene	92.14	41		13	13
10061-02-6	trans-1,3-Dichloropropene	110.97	15	U	15	15
79-00-5	1,1,2-Trichloroethane	133.41	18	U	18	18
127-18-4	Tetrachloroethene	165.83	23	U	23	23
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	34	U	34	34
124-48-1	Dibromochloromethane	208.29	28	U	28	28
106-93-4	1,2-Dibromoethane	187.87	26	U	26	26
108-90-7	Chlorobenzene	112.30	15	U	15	15
100-41-4	Ethylbenzene	106.17	15	U	15	15
179601-23-1	m,p-Xylene	106.17	36	U	36	36
95-47-6	Xylene, o-	106.17	15	U	15	15
1330-20-7	Xylene (total)	106.17	22		15	15
100-42-5	Styrene	104.15	14	U	14	14
75-25-2	Bromoform	252.75	35	U	35	35
98-82-8	Cumene	120.19	16	U	16	16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	23	U	23	23
103-65-1	n-Propylbenzene	120.19	16	U	16	16
622-96-8	4-Ethyltoluene	120.20	16	U	16	16
108-67-8	1,3,5-Trimethylbenzene	120.20	16	U	16	16
95-49-8	2-Chlorotoluene	126.59	17	U	17	17
98-06-6	tert-Butylbenzene	134.22	18	U	18	18
95-63-6	1,2,4-Trimethylbenzene	120.20	16	U	16	16
135-98-8	sec-Butylbenzene	134.22	18	U	18	18
99-87-6	4-Isopropyltoluene	134.22	18	U	18	18
541-73-1	1,3-Dichlorobenzene	147.00	20	U	20	20
106-46-7	1,4-Dichlorobenzene	147.00	20	U	20	20
100-44-7	Benzyl chloride	126.58	17	U	17	17
104-51-8	n-Butylbenzene	134.22	18	U	18	18

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-4 Lab Sample ID: 200-6944-4

Matrix: Air Lab File ID: bkhe013.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:33

Sample wt/vol: 12(mL) Date Analyzed: 09/21/2011 21:51

Soil Aliquot Vol: Dilution Factor: 16.7

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	20	U	20	20
120-82-1	1,2,4-Trichlorobenzene	181.45	62	U	62	62
87-68-3	Hexachlorobutadiene	260.76	36	U	36	36
91-20-3	Naphthalene	128.17	44	U	44	44

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-6944-4
Client Smp ID: SV-4
Inj Date : 21-SEP-2011 21:51
Operator : pad Inst ID: B.i
Smp Info : 200-6944-A-4
Misc Info : 12,16.7, all74
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/to15v5.m
Meth Date : 23-Sep-2011 09:43 wrd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 15
Dil Factor: 16.70000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	16.70000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	12.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	3.040	3.034	(0.331)	4616	0.04572	0.76(a)
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	3.333	3.333	(0.363)	1771	0.08789	1.5(a)
6 Butane	43	3.477	3.477	(0.379)	14519	0.43140	7.2(aQ)
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	4.785	4.785	(0.521)	16204	0.09873	1.6(a)
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.023	6.023	(0.656)	2029176	26.9584	450

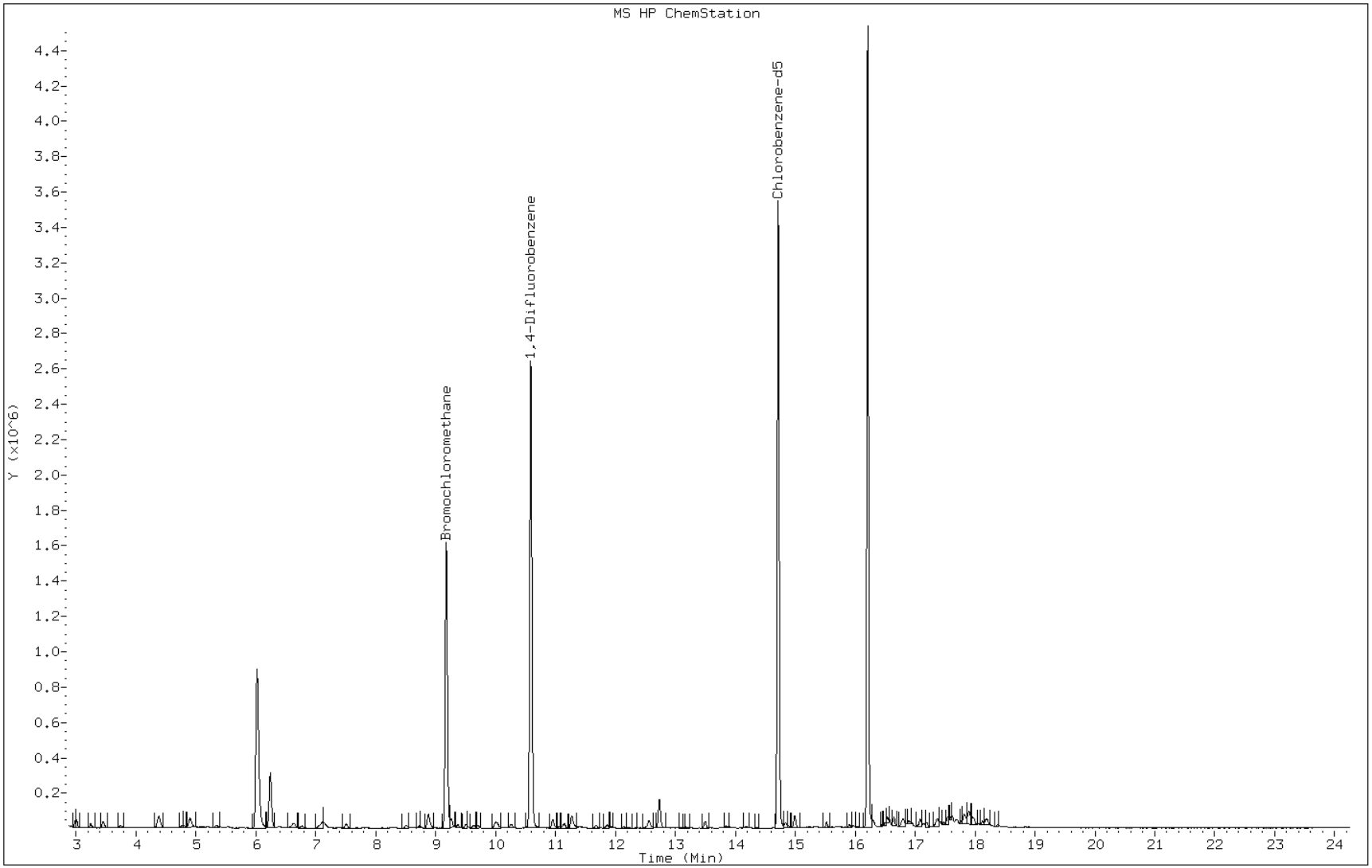
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	21 Carbon disulfide	76	6.247	6.247	(0.681)	661634	3.99184	67
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.786	6.781	(0.739)	6182	0.11595	1.9(aM)
	26 Tert-butyl alcohol	59	7.123	7.010	(0.776)	97235	1.12041	19(a)
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.512	7.512	(0.819)	17405	0.19741	3.3(a)
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	8.878	8.836	(0.967)	42591	1.36347	23(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	609370	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	9.268	9.263	(1.010)	45092	0.35780	6.0
	40 Cyclohexane	84	9.513	9.513	(0.899)	6493	0.07131	1.2(aQ)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	9.706	9.711	(0.917)	13278	0.08431	1.4(a)
	43 2,2,4-Trimethylpentane	57	10.004	9.999	(0.945)	41793	0.15299	2.6(a)
	44 Benzene	78	10.036	10.031	(0.948)	21494	0.11283	1.9(a)
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	10.261	10.266	(0.969)	11252	0.11717	2.0(a)
*	47 1,4-Difluorobenzene	114	10.586	10.592	(1.000)	2956160	10.0000	
	49 Trichloroethene	95	10.960	10.949	(1.035)	23046	0.25840	4.3
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	12.561	12.497	(1.187)	47264	0.42885	7.2(a)
	58 Toluene	92	12.737	12.732	(0.865)	93786	0.65748	11
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	16240	0.12278	2.1(a)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	2608575	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	14.845	14.840	(1.009)	22950	0.07350	1.2(a)
	69 Xylene (m,p)	106	14.989	14.994	(1.018)	28193	0.22048	3.7(a)
M	70 Xylenes, Total	106				38284	0.29990	5.0
	71 Xylene (o)	106	15.528	15.523	(1.055)	10091	0.07942	1.3(aQ)
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	17.087	17.081	(1.161)	17206	0.05540	0.93(a)
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	bkhe013.d	Date:	21-SEP-2011 21:51
Client ID:	SV-4	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-6944-A-4		
Lab Sample ID:	200-6944-4		



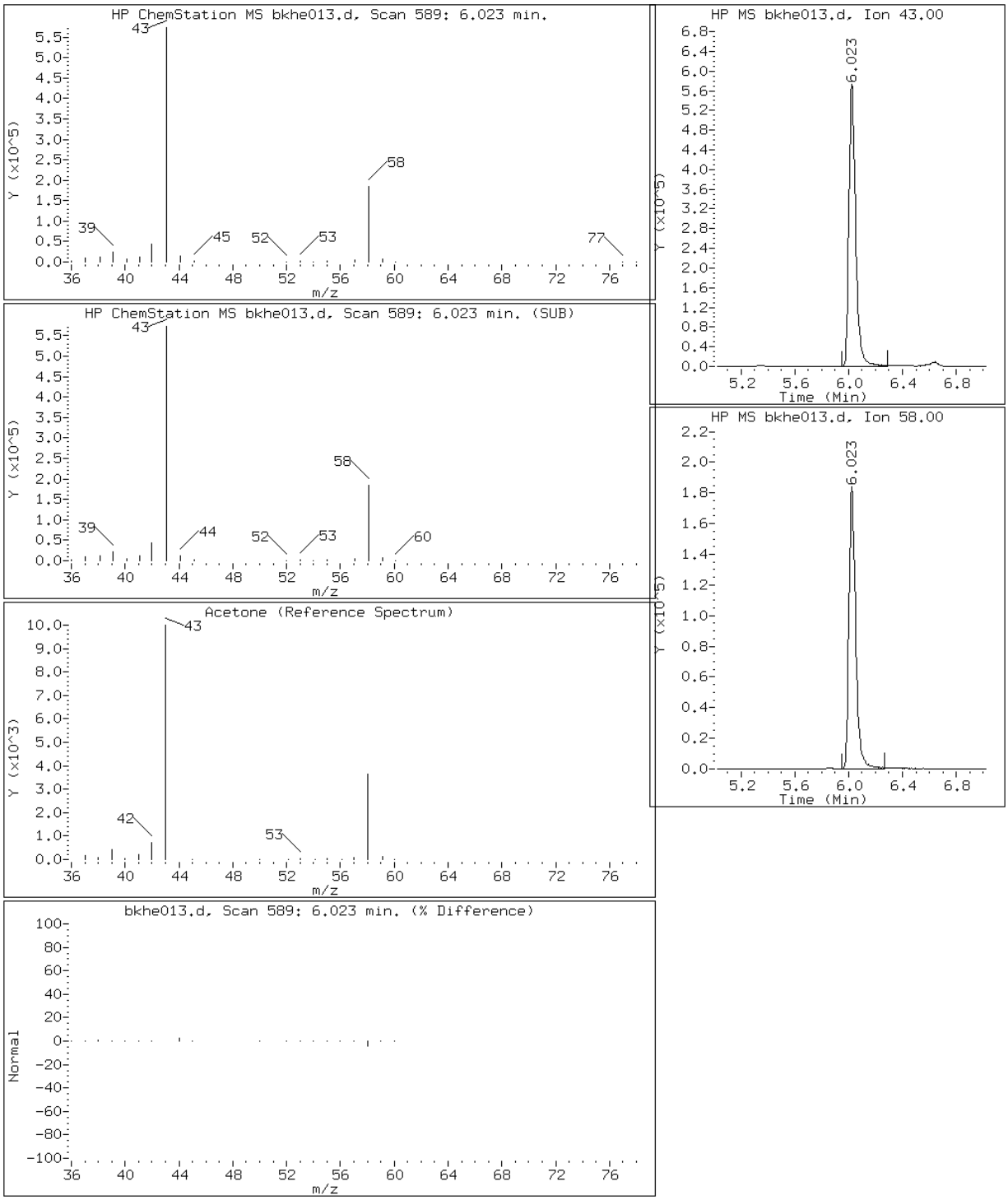
Data File: bkhe013.d

Lab Sample ID: 200-6944-4 Date: 21-SEP-2011 21:51

Client ID: SV-4 Instrument: B.i

Sample Info: 200-6944-A-4 Operator: pad

20 Acetone



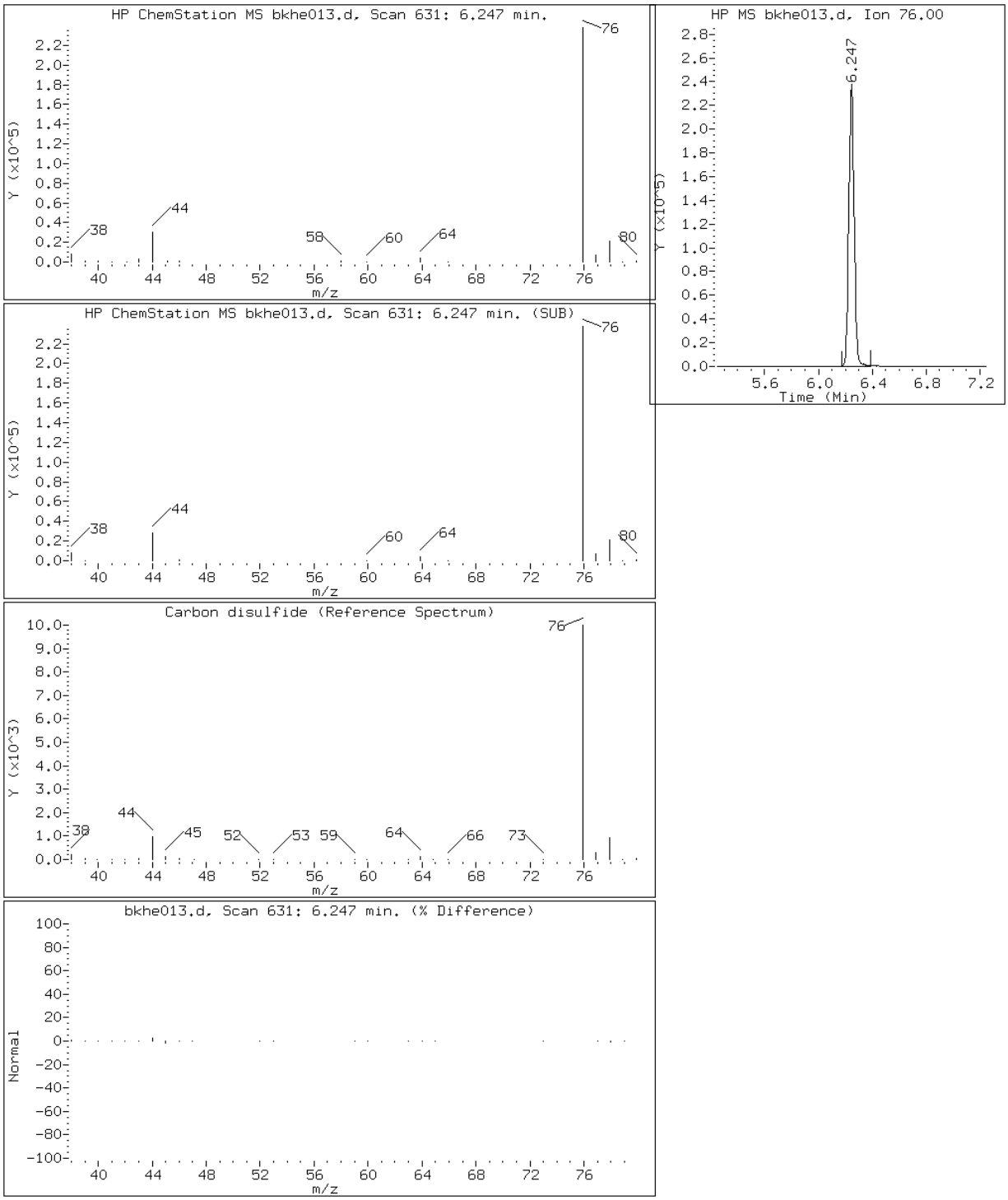
Data File: bkhe013.d

Lab Sample ID: 200-6944-4 Date: 21-SEP-2011 21:51

Client ID: SV-4 Instrument: B.i

Sample Info: 200-6944-A-4 Operator: pad

21 Carbon disulfide



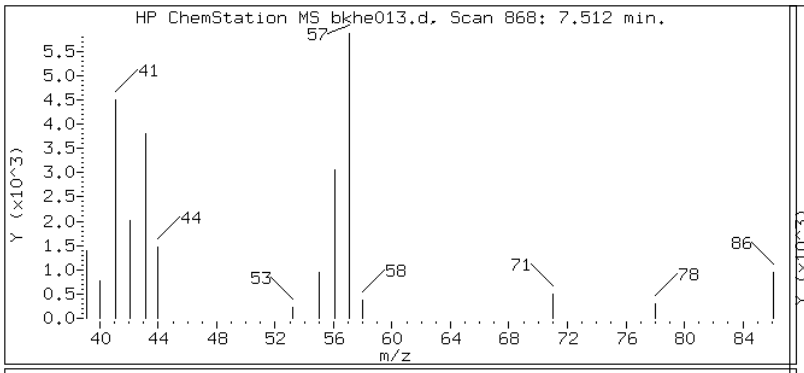
Data File: bkhe013.d

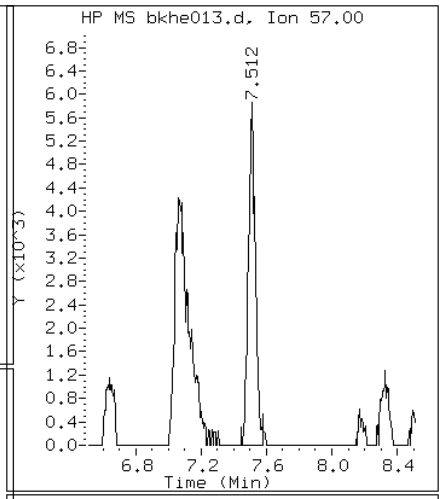
Lab Sample ID: 200-6944-4 Date: 21-SEP-2011 21:51

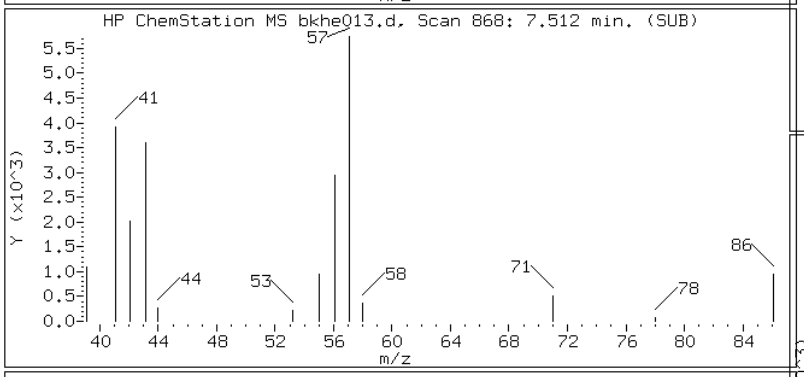
Client ID: SV-4 Instrument: B.i

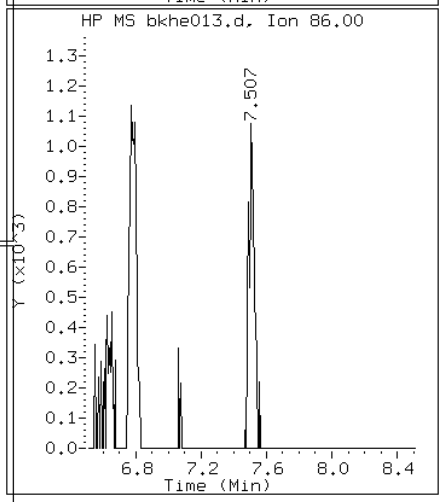
Sample Info: 200-6944-A-4 Operator: pad

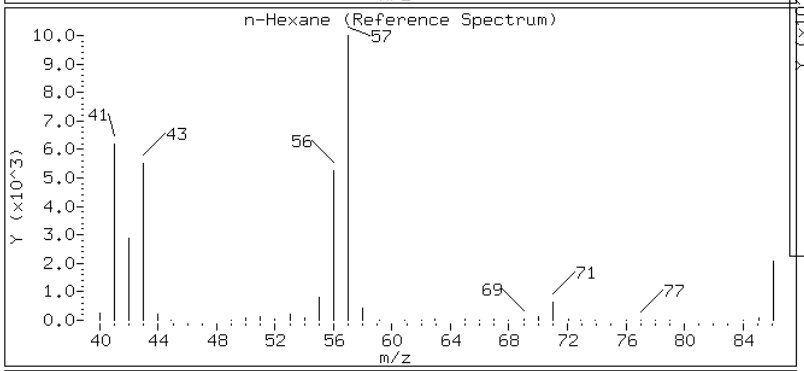
30 n-Hexane

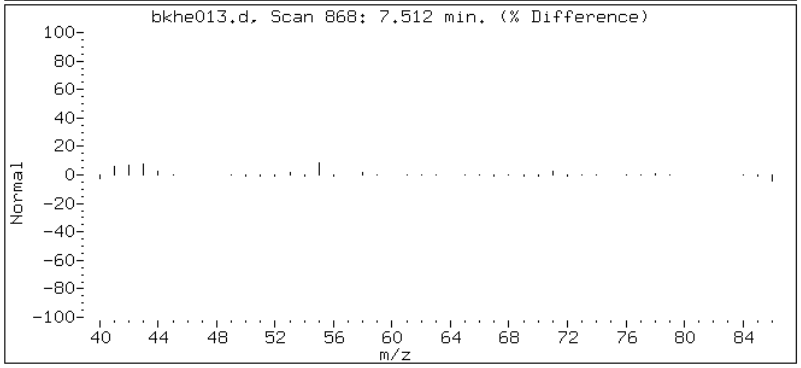












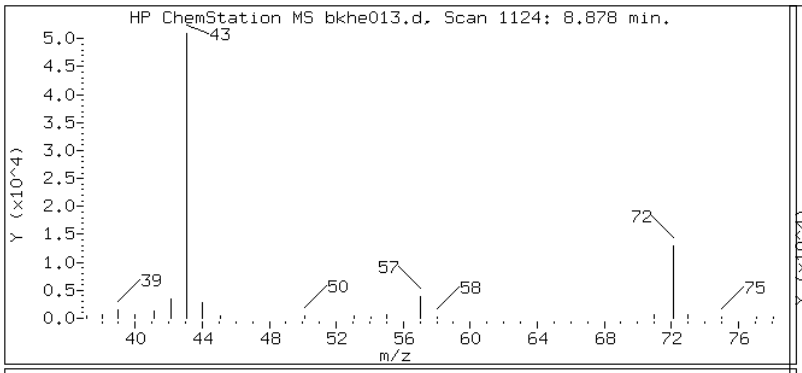
Data File: bkhe013.d

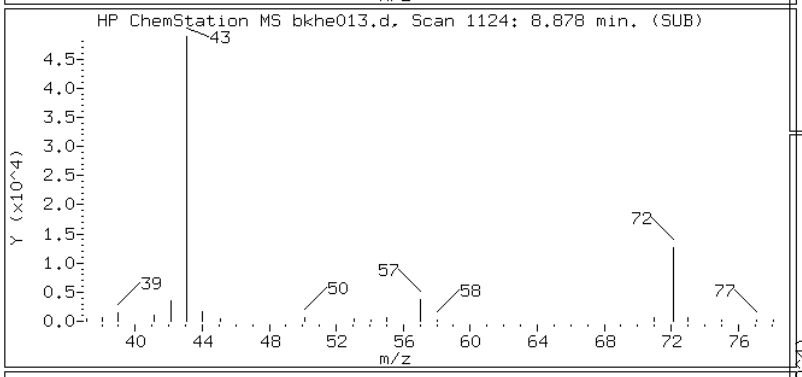
Lab Sample ID: 200-6944-4 Date: 21-SEP-2011 21:51

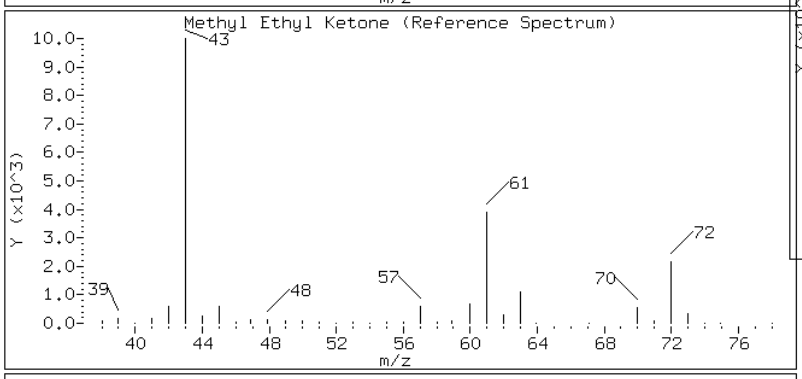
Client ID: SV-4 Instrument: B.i

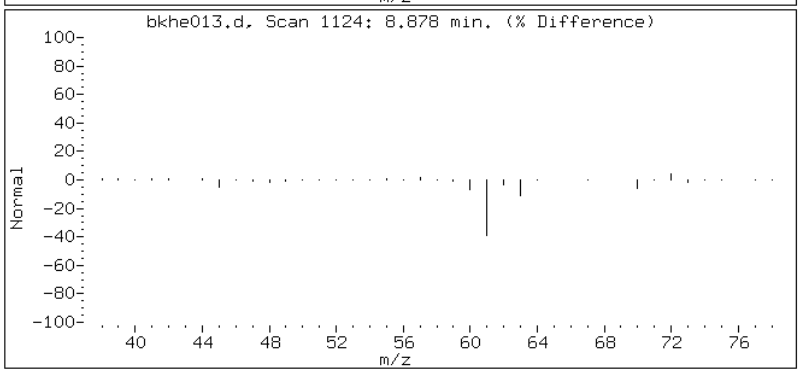
Sample Info: 200-6944-A-4 Operator: pad

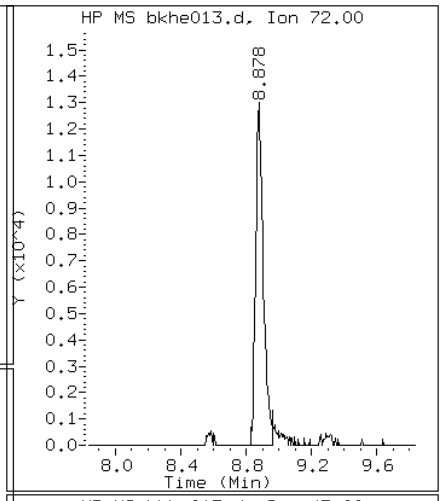
36 Methyl Ethyl Ketone

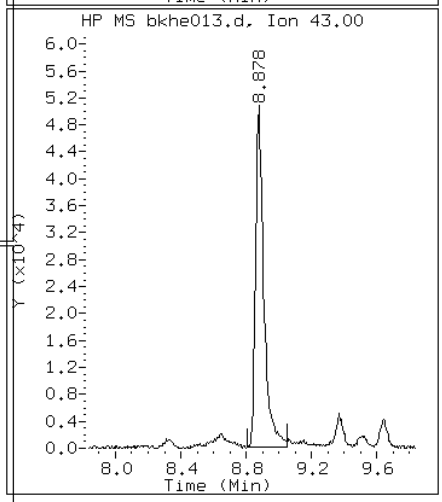












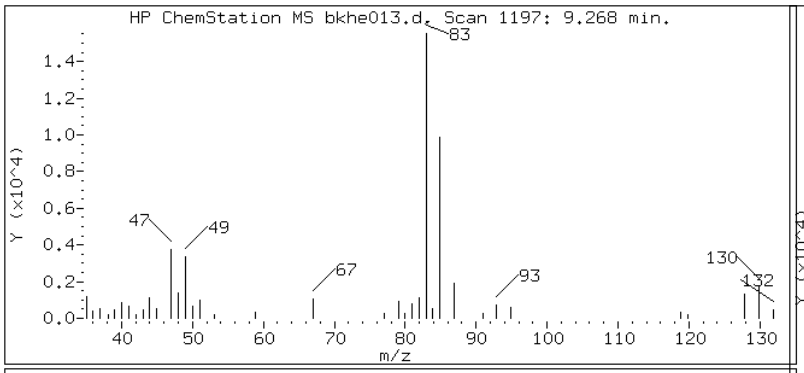
Data File: bkhe013.d

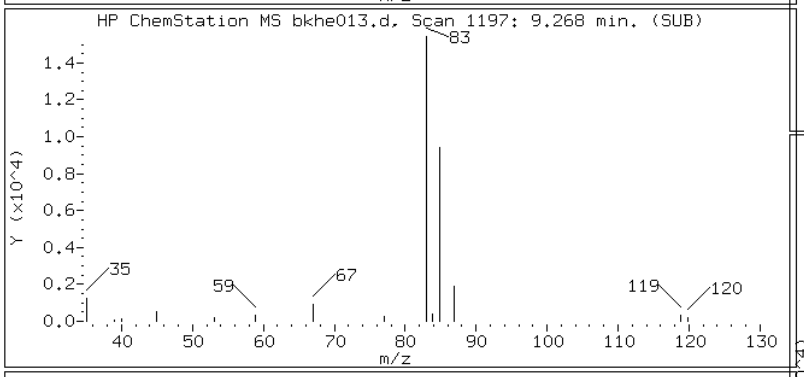
Lab Sample ID: 200-6944-4 Date: 21-SEP-2011 21:51

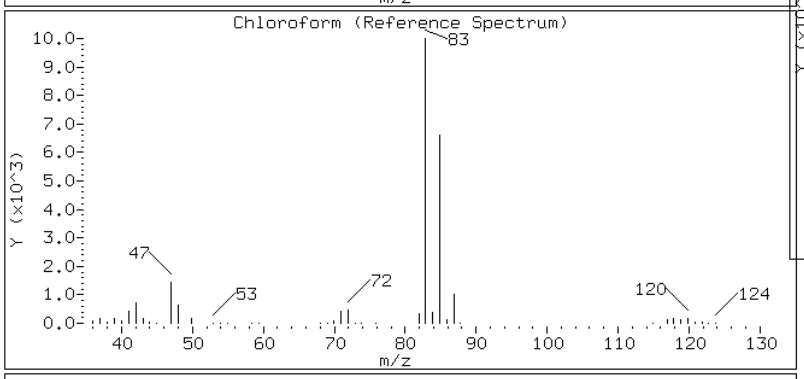
Client ID: SV-4 Instrument: B.i

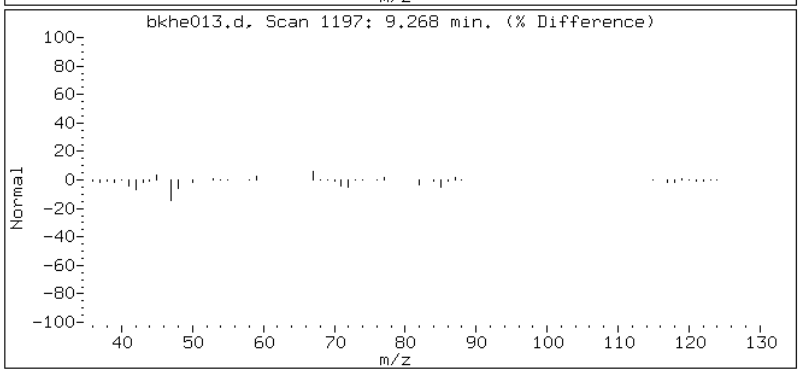
Sample Info: 200-6944-A-4 Operator: pad

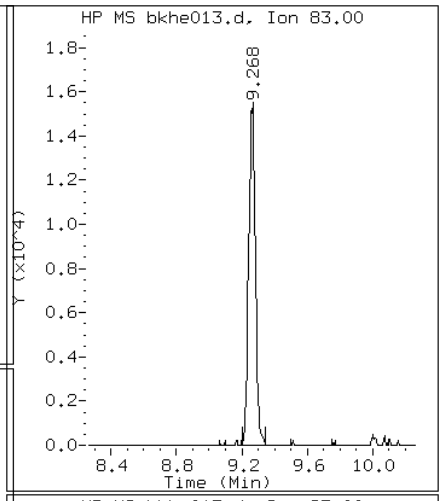
39 Chloroform

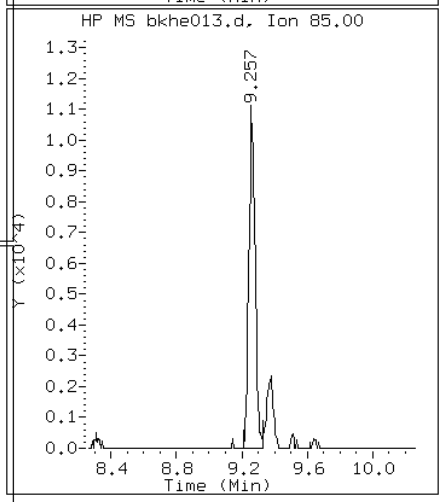












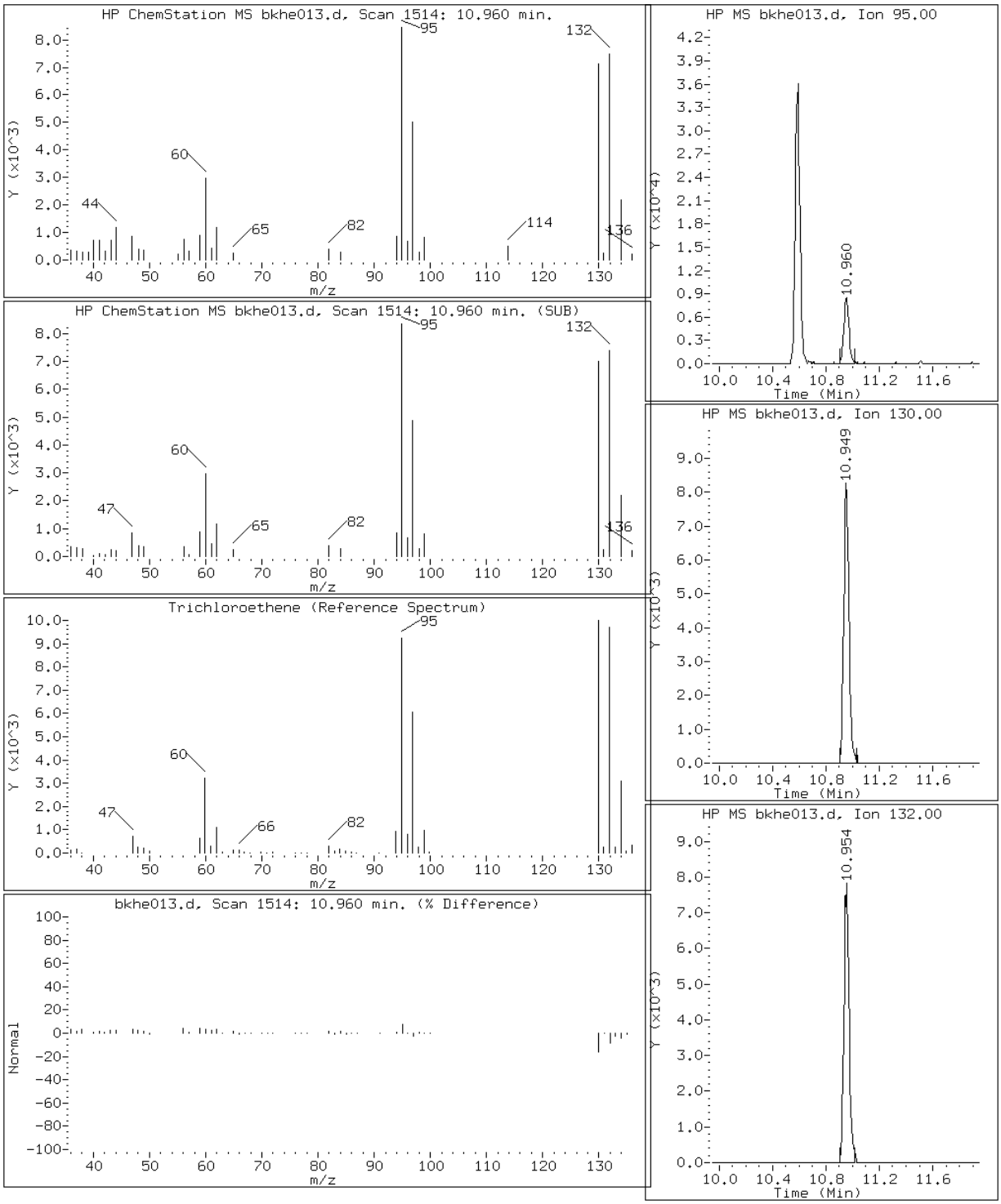
Data File: bkhe013.d

Lab Sample ID: 200-6944-4 Date: 21-SEP-2011 21:51

Client ID: SV-4 Instrument: B.i

Sample Info: 200-6944-A-4 Operator: pad

49 Trichloroethene



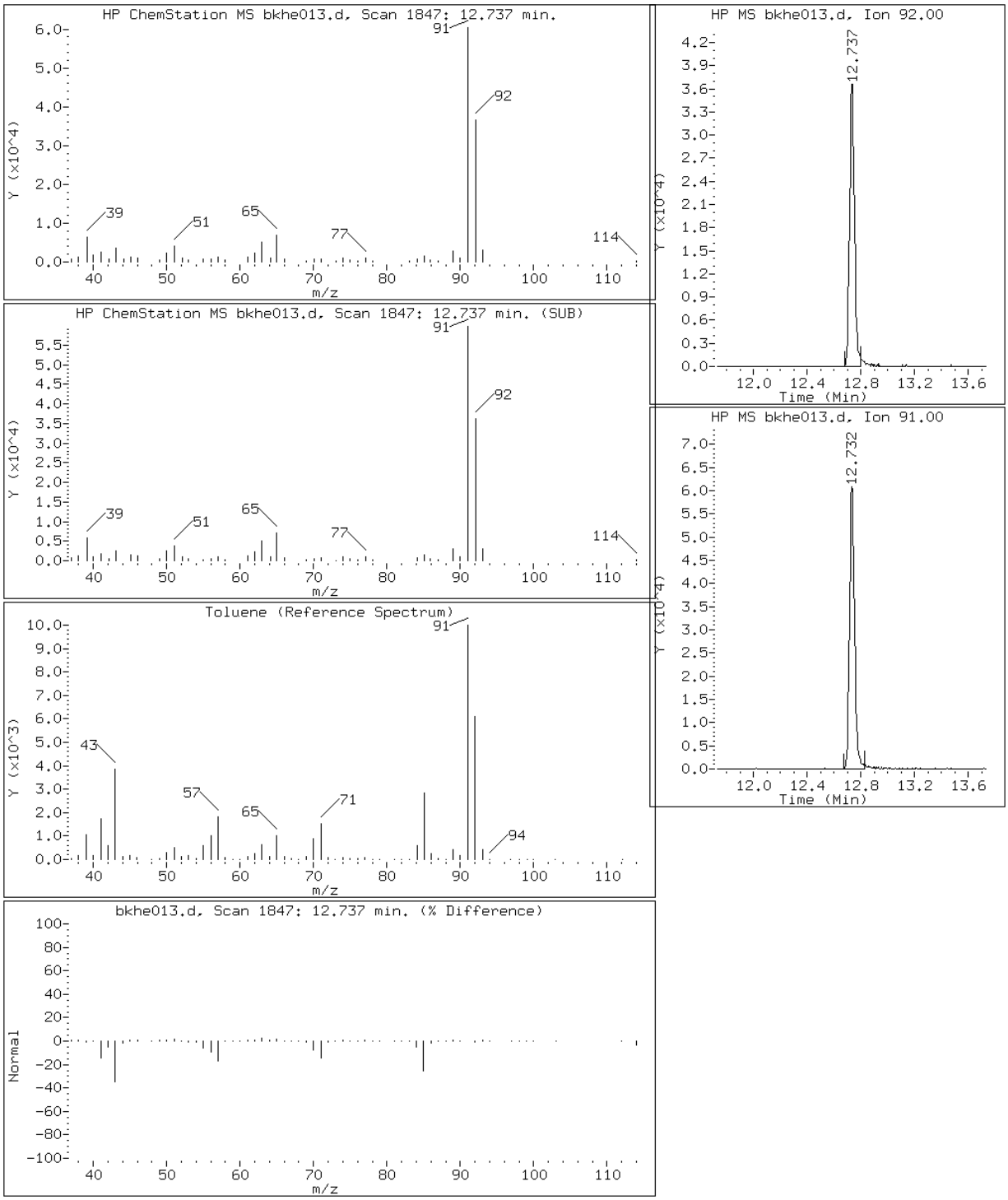
Data File: bkhe013.d

Lab Sample ID: 200-6944-4 Date: 21-SEP-2011 21:51

Client ID: SV-4 Instrument: B.i

Sample Info: 200-6944-A-4 Operator: pad

58 Toluene



Manual Integration Report

Data File: bkhe013.d
Lab Sample ID: 200-6944-4
Inj. Date and Time: 21-SEP-2011 21:51
Instrument ID: B.i
Client ID: SV-4
Compound: 25 Methylene chloride
CAS #: 75-09-2
Report Date: 09/23/2011

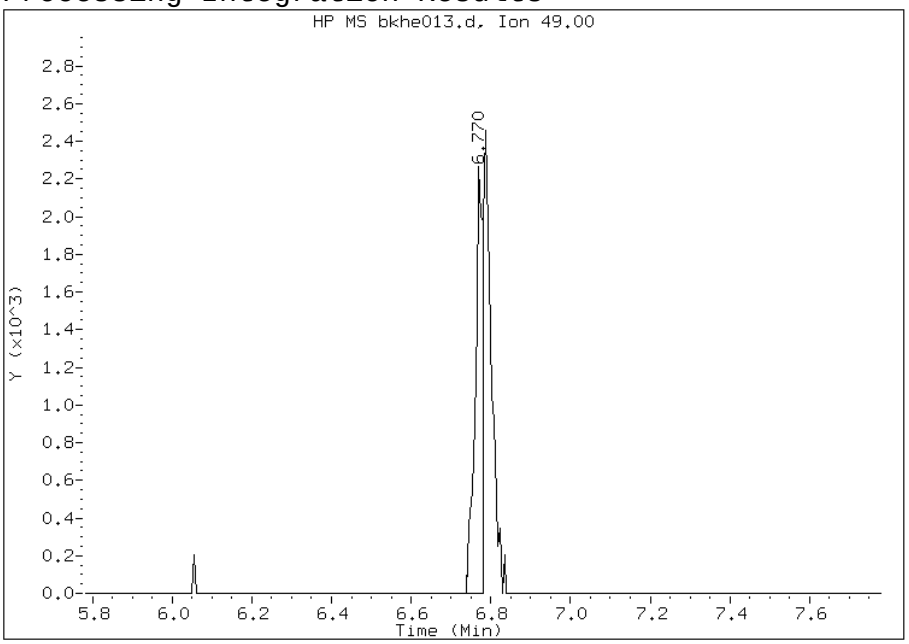
Processing Integration Results

RT: 6.77

Response: 3179

Amount: 0.059625

Conc: 0.995731



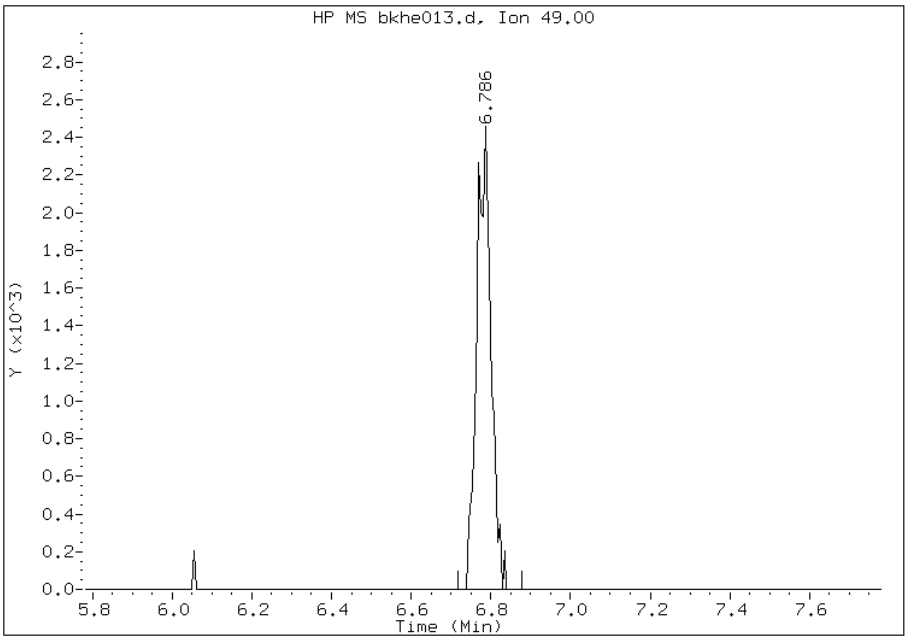
Manual Integration Results

RT: 6.79

Response: 6182

Amount: 0.115948

Conc: 1.94



File Uploaded By: wrd
Manual Integration Reason: Baseline event

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-3 | Lab Sample ID: 200-6944-5

Matrix: Air | Lab File ID: bkhe023.d

Analysis Method: TO-15 | Date Collected: 09/09/2011 17:34

Sample wt/vol: 20(mL) | Date Analyzed: 09/22/2011 06:34

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 25690 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	5.0
75-45-6	Freon 22	86.47	5.0	U	5.0	5.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	2.0
74-87-3	Chloromethane	50.49	5.0	U	5.0	5.0
106-97-8	n-Butane	58.12	5.0	U	5.0	5.0
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	2.0
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	2.0
74-83-9	Bromomethane	94.94	2.0	U	2.0	2.0
75-00-3	Chloroethane	64.52	5.0	U	5.0	5.0
593-60-2	Bromoethene(Vinyl Bromide)	106.96	2.0	U	2.0	2.0
75-69-4	Trichlorofluoromethane	137.37	26		2.0	2.0
76-13-1	Freon TF	187.38	2.0	U	2.0	2.0
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	2.0
67-64-1	Acetone	58.08	370		50	50
67-63-0	Isopropyl alcohol	60.10	50	U	50	50
75-15-0	Carbon disulfide	76.14	43		5.0	5.0
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	5.0
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	5.0
75-65-0	tert-Butyl alcohol	74.12	50	U	50	50
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	2.0
110-54-3	n-Hexane	86.17	2.0	U	2.0	2.0
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	2.0
78-93-3	Methyl Ethyl Ketone	72.11	13		5.0	5.0
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	2.0
540-59-0	1,2-Dichloroethene, Total	96.94	2.0	U	2.0	2.0
67-66-3	Chloroform	119.38	24		2.0	2.0
109-99-9	Tetrahydrofuran	72.11	50	U	50	50
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	2.0
110-82-7	Cyclohexane	84.16	2.0	U	2.0	2.0
56-23-5	Carbon tetrachloride	153.81	3.0		2.0	2.0
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	2.0
71-43-2	Benzene	78.11	2.0	U	2.0	2.0
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	2.0
142-82-5	n-Heptane	100.21	2.0	U	2.0	2.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-3 Lab Sample ID: 200-6944-5

Matrix: Air Lab File ID: bkhe023.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:34

Sample wt/vol: 20(mL) Date Analyzed: 09/22/2011 06:34

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	6.1		2.0	2.0
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	5.0
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	2.0
123-91-1	1,4-Dioxane	88.11	50	U	50	50
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	2.0
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	5.0
108-88-3	Toluene	92.14	4.4		2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	2.0
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	2.0
127-18-4	Tetrachloroethene	165.83	10		2.0	2.0
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	5.0
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	2.0
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	2.0
108-90-7	Chlorobenzene	112.30	2.0	U	2.0	2.0
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	2.0
179601-23-1	m,p-Xylene	106.17	5.3		5.0	5.0
95-47-6	Xylene, o-	106.17	2.2		2.0	2.0
1330-20-7	Xylene (total)	106.17	7.5		2.0	2.0
100-42-5	Styrene	104.15	2.0	U	2.0	2.0
75-25-2	Bromoform	252.75	2.0	U	2.0	2.0
98-82-8	Cumene	120.19	2.0	U	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	2.0
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	2.0
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	2.0
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	2.0
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0		2.0	2.0
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	2.0
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	2.0
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	2.0
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	2.0
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	2.0
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	2.0

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-3 Lab Sample ID: 200-6944-5

Matrix: Air Lab File ID: bkhe023.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:34

Sample wt/vol: 20(mL) Date Analyzed: 09/22/2011 06:34

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	5.0
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	2.0
91-20-3	Naphthalene	128.17	5.0	U	5.0	5.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-3 | Lab Sample ID: 200-6944-5

Matrix: Air | Lab File ID: bkhe023.d

Analysis Method: TO-15 | Date Collected: 09/09/2011 17:34

Sample wt/vol: 20(mL) | Date Analyzed: 09/22/2011 06:34

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 25690 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	25
75-45-6	Freon 22	86.47	18	U	18	18
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	14
74-87-3	Chloromethane	50.49	10	U	10	10
106-97-8	n-Butane	58.12	12	U	12	12
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	5.1
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	4.4
74-83-9	Bromomethane	94.94	7.8	U	7.8	7.8
75-00-3	Chloroethane	64.52	13	U	13	13
593-60-2	Bromoethene(Vinyl Bromide)	106.96	8.7	U	8.7	8.7
75-69-4	Trichlorofluoromethane	137.37	140		11	11
76-13-1	Freon TF	187.38	15	U	15	15
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	7.9
67-64-1	Acetone	58.08	870		120	120
67-63-0	Isopropyl alcohol	60.10	120	U	120	120
75-15-0	Carbon disulfide	76.14	130		16	16
107-05-1	3-Chloropropene	76.53	16	U	16	16
75-09-2	Methylene Chloride	84.93	17	U	17	17
75-65-0	tert-Butyl alcohol	74.12	150	U	150	150
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	7.2
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	7.9
110-54-3	n-Hexane	86.17	7.0	U	7.0	7.0
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	8.1
78-93-3	Methyl Ethyl Ketone	72.11	40		15	15
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	7.9
540-59-0	1,2-Dichloroethene, Total	96.94	7.9	U	7.9	7.9
67-66-3	Chloroform	119.38	120		9.8	9.8
109-99-9	Tetrahydrofuran	72.11	150	U	150	150
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	11
110-82-7	Cyclohexane	84.16	6.9	U	6.9	6.9
56-23-5	Carbon tetrachloride	153.81	19		13	13
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	9.3
71-43-2	Benzene	78.11	6.4	U	6.4	6.4
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	8.1
142-82-5	n-Heptane	100.21	8.2	U	8.2	8.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-3 Lab Sample ID: 200-6944-5

Matrix: Air Lab File ID: bkhe023.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:34

Sample wt/vol: 20(mL) Date Analyzed: 09/22/2011 06:34

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	33		11	11
80-62-6	Methyl methacrylate	100.12	20	U	20	20
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	9.2
123-91-1	1,4-Dioxane	88.11	180	U	180	180
75-27-4	Bromodichloromethane	163.83	13	U	13	13
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	9.1
108-10-1	methyl isobutyl ketone	100.16	20	U	20	20
108-88-3	Toluene	92.14	17		7.5	7.5
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	9.1
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	11
127-18-4	Tetrachloroethene	165.83	68		14	14
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	20
124-48-1	Dibromochloromethane	208.29	17	U	17	17
106-93-4	1,2-Dibromoethane	187.87	15	U	15	15
108-90-7	Chlorobenzene	112.30	9.2	U	9.2	9.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	8.7
179601-23-1	m,p-Xylene	106.17	23		22	22
95-47-6	Xylene, o-	106.17	9.6		8.7	8.7
1330-20-7	Xylene (total)	106.17	33		8.7	8.7
100-42-5	Styrene	104.15	8.5	U	8.5	8.5
75-25-2	Bromoform	252.75	21	U	21	21
98-82-8	Cumene	120.19	9.8	U	9.8	9.8
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	14
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	9.8
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	9.8
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	9.8
95-49-8	2-Chlorotoluene	126.59	10	U	10	10
98-06-6	tert-Butylbenzene	134.22	11	U	11	11
95-63-6	1,2,4-Trimethylbenzene	120.20	10		9.8	9.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	11
99-87-6	4-Isopropyltoluene	134.22	11	U	11	11
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	12
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	12
100-44-7	Benzyl chloride	126.58	10	U	10	10
104-51-8	n-Butylbenzene	134.22	11	U	11	11

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-3 Lab Sample ID: 200-6944-5

Matrix: Air Lab File ID: bkhe023.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:34

Sample wt/vol: 20(mL) Date Analyzed: 09/22/2011 06:34

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	12
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	37
87-68-3	Hexachlorobutadiene	260.76	21	U	21	21
91-20-3	Naphthalene	128.17	26	U	26	26

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-6944-5
Client Smp ID: SV-3
Inj Date : 22-SEP-2011 06:34
Operator : pad Inst ID: B.i
Smp Info : 200-6944-A-5
Misc Info : 20,10, all74
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/to15v5.m
Meth Date : 23-Sep-2011 09:43 wrd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 5
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	20.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	3.034	3.034	(0.331)	33331	0.35560	3.6(a)
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	3.328	3.333	(0.363)	2091	0.11179	1.1(a)
6 Butane	43	3.477	3.477	(0.379)	11607	0.37151	3.7(aQ)
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	4.780	4.785	(0.521)	391142	2.56712	26
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.023	6.023	(0.656)	2557973	36.6079	370

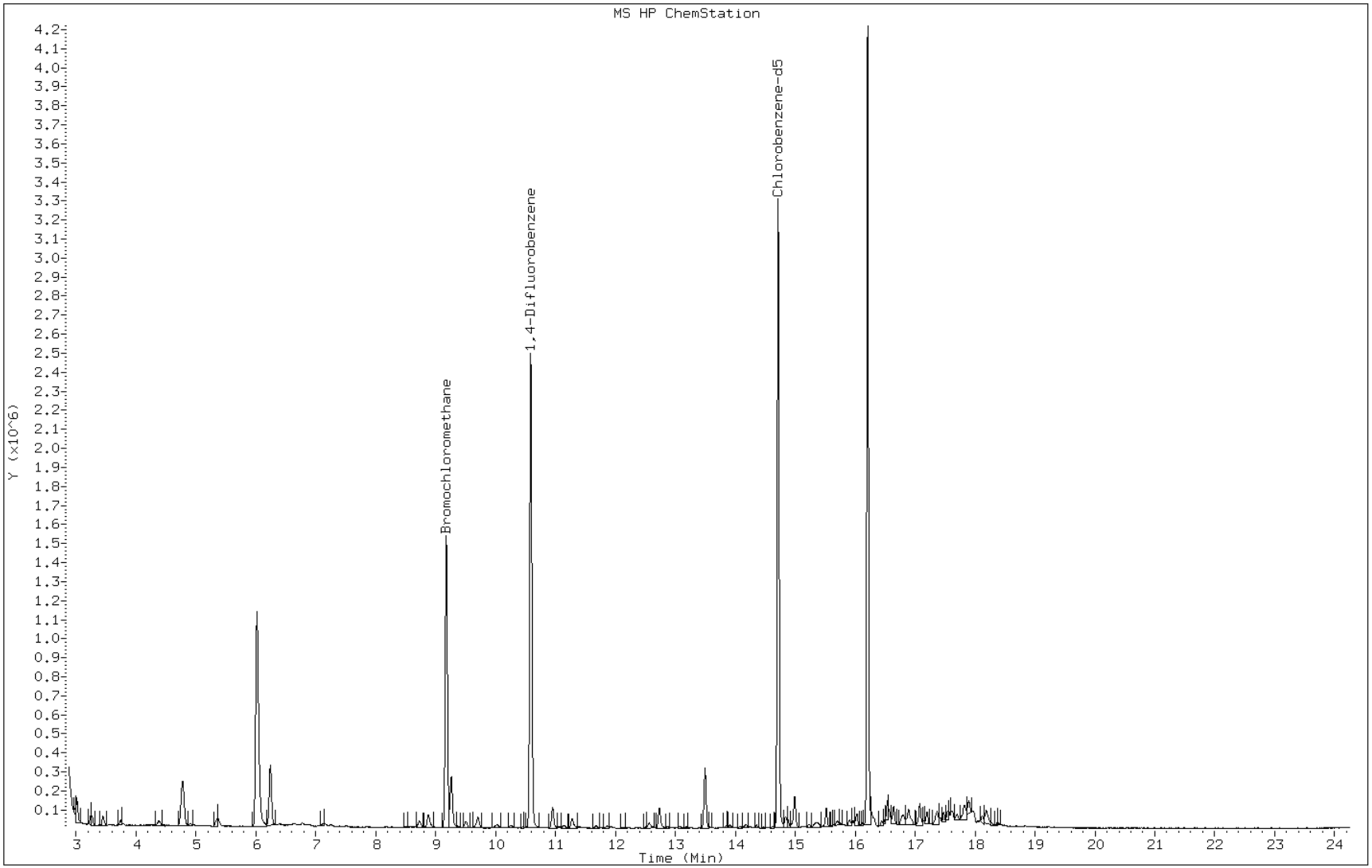
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	21 Carbon disulfide	76	6.247	6.247	(0.681)	666654	4.33271	43
	22 Isopropanol	45	6.402	6.306	(0.698)	13792	0.27865	2.8(aH)
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.786	6.781	(0.739)	4442	0.08975	0.90(aQ)
	26 Tert-butyl alcohol	59	7.144	7.010	(0.778)	51725	0.64203	6.4(aM)
	27 Methyl tert-butyl ether	73	7.251	7.165	(0.790)	18214	0.11807	1.2(a)
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.523	7.512	(0.820)	5468	0.06681	0.67(a)
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	8.878	8.836	(0.967)	38981	1.34426	13(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	565689	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	9.263	9.263	(1.009)	281982	2.41024	24
	40 Cyclohexane	84	9.513	9.513	(0.899)	3590	0.04199	0.42(aQ)
	41 1,1,1-Trichloroethane	97	9.508	9.508	(0.898)	24954	0.18590	1.9(a)
	42 Carbon tetrachloride	117	9.706	9.711	(0.917)	44036	0.29776	3.0
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	10.036	10.031	(0.948)	18766	0.10491	1.0(a)
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	10.261	10.266	(0.969)	5726	0.06350	0.64(aQ)
*	47 1,4-Difluorobenzene	114	10.586	10.592	(1.000)	2775844	10.0000	
	49 Trichloroethene	95	10.949	10.949	(1.034)	50820	0.60682	6.1
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	12.571	12.497	(1.188)	33616	0.32483	3.2(a)
	58 Toluene	92	12.737	12.732	(0.865)	58157	0.44032	4.4
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.495	13.500	(0.917)	122689	1.00176	10
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	2415365	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	14.845	14.840	(1.009)	45351	0.15686	1.6(a)
	69 Xylene (m,p)	106	14.994	14.994	(1.019)	62620	0.52889	5.3
M	70 Xylenes, Total	106				88640	0.75006	7.5
	71 Xylene (o)	106	15.523	15.523	(1.055)	26020	0.22117	2.2
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
76 n-Propylbenzene	91	16.446	16.441	(1.117)	19016	0.05001	0.50(a)
79 4-Ethyltoluene	105	16.558	16.574	(1.125)	24522	0.07134	0.71(aM)
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	16.644	16.644	(1.131)	28748	0.09938	0.99(a)
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	17.081	17.081	(1.161)	58644	0.20392	2.0
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	bkhe023.d	Date:	22-SEP-2011 06:34
Client ID:	SV-3	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-6944-A-5		
Lab Sample ID:	200-6944-5		



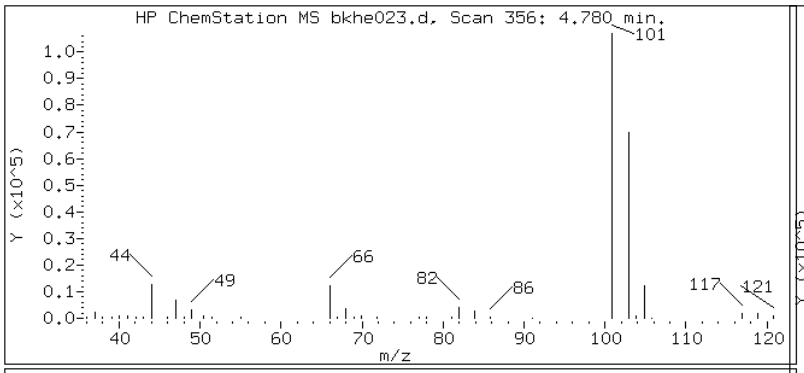
Data File: bkhe023.d

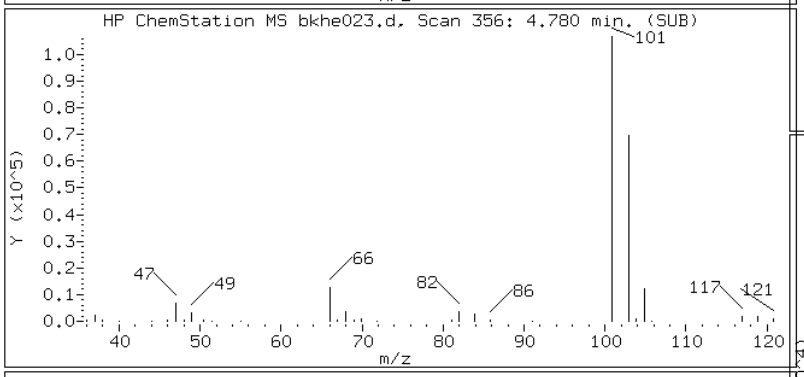
Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

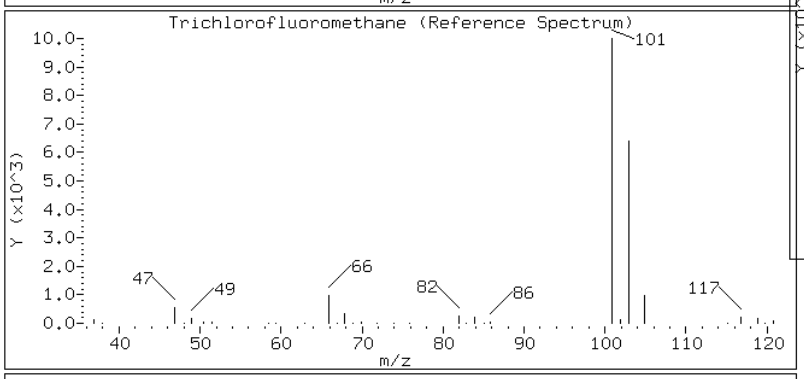
Client ID: SV-3 Instrument: B.i

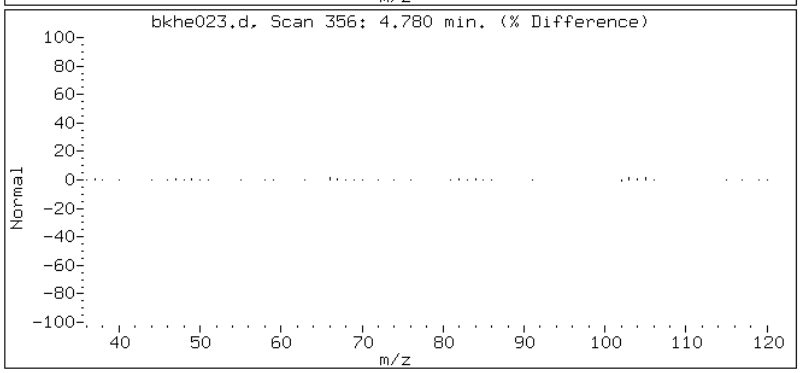
Sample Info: 200-6944-A-5 Operator: pad

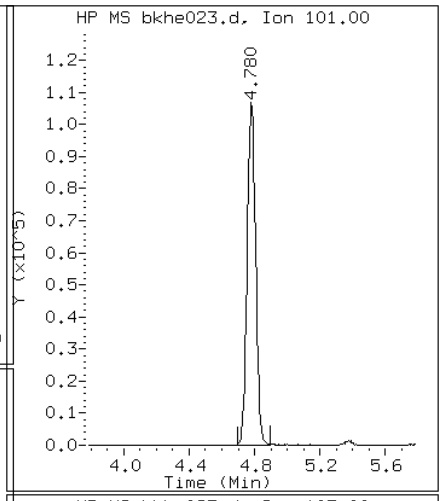
13 Trichlorofluoromethane

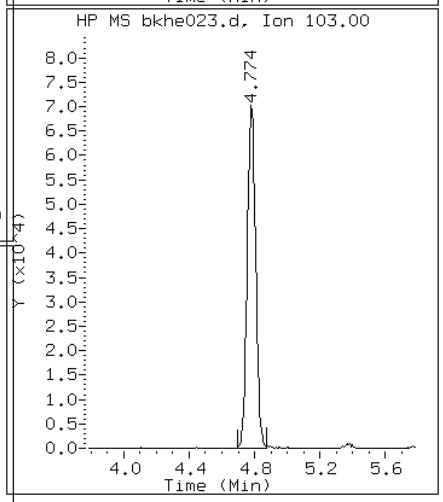












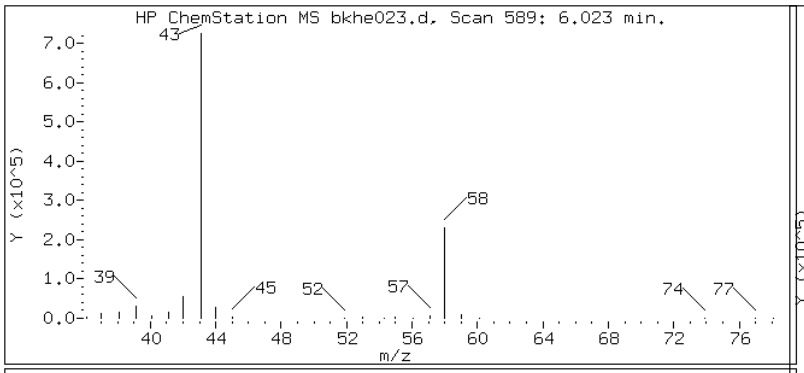
Data File: bkhe023.d

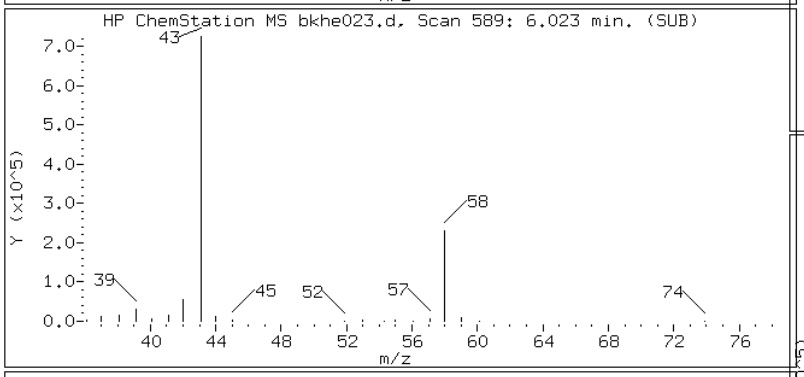
Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

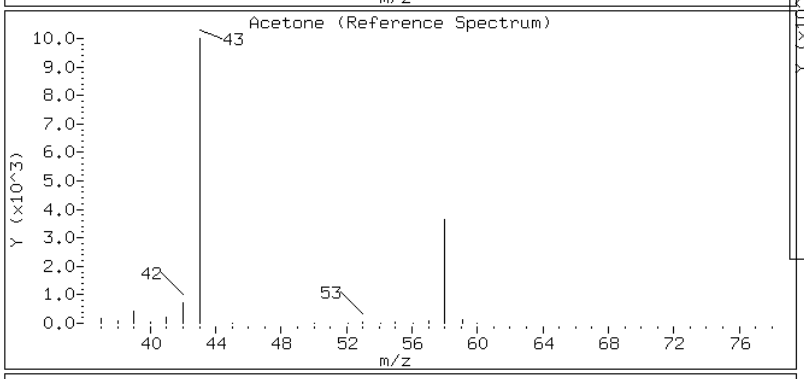
Client ID: SV-3 Instrument: B.i

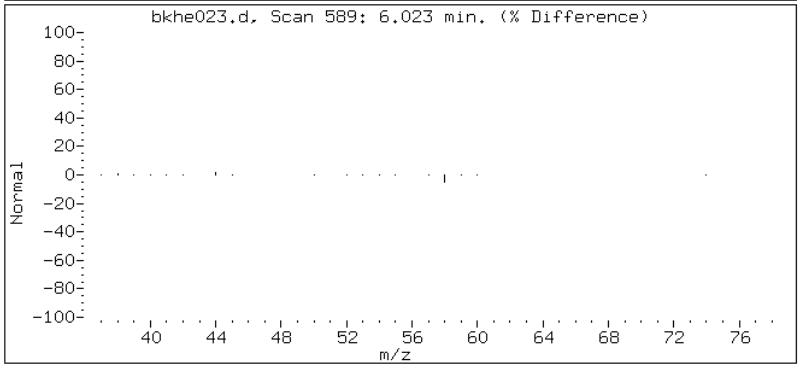
Sample Info: 200-6944-A-5 Operator: pad

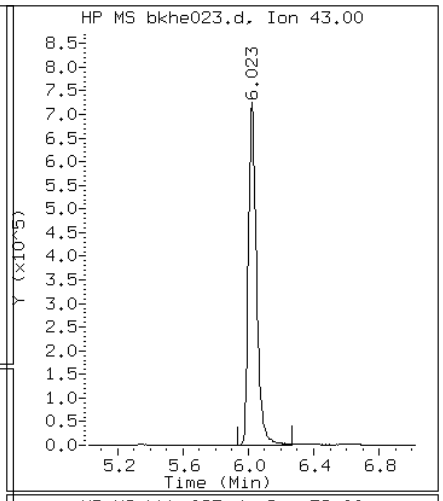
20 Acetone

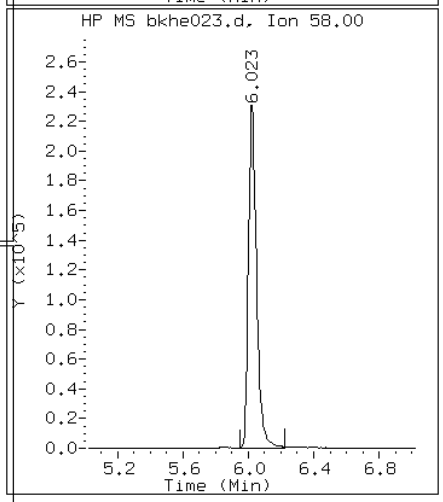












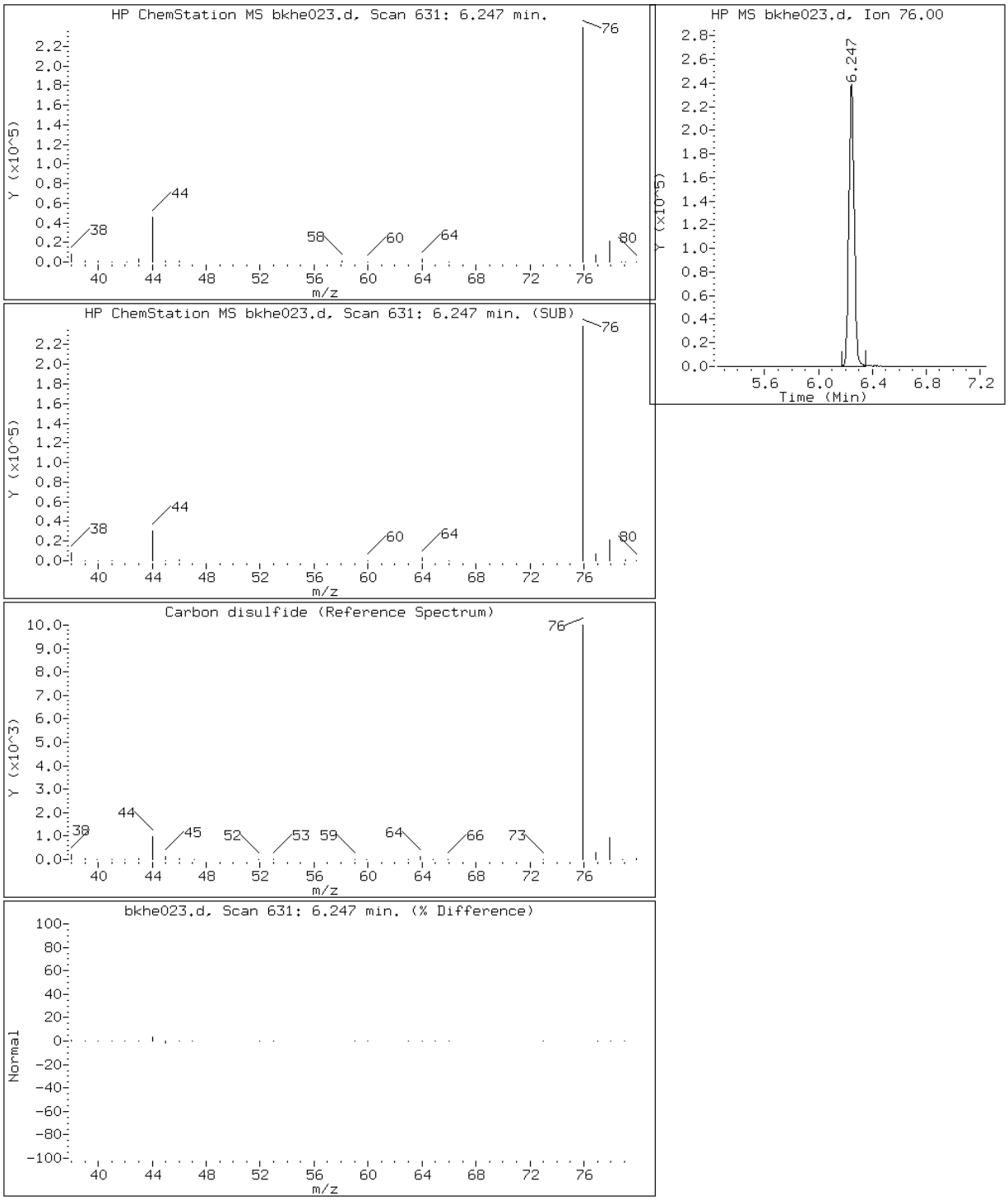
Data File: bkhe023.d

Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

Client ID: SV-3 Instrument: B.i

Sample Info: 200-6944-A-5 Operator: pad

21 Carbon disulfide



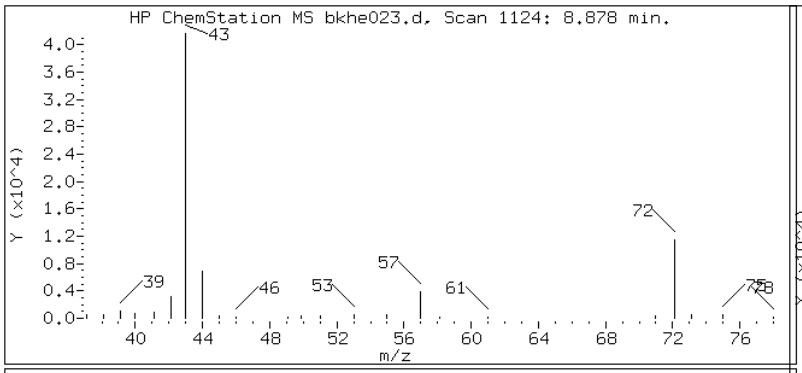
Data File: bkhe023.d

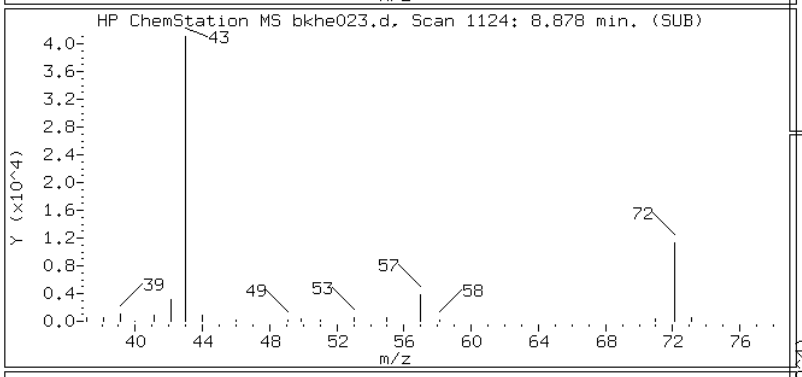
Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

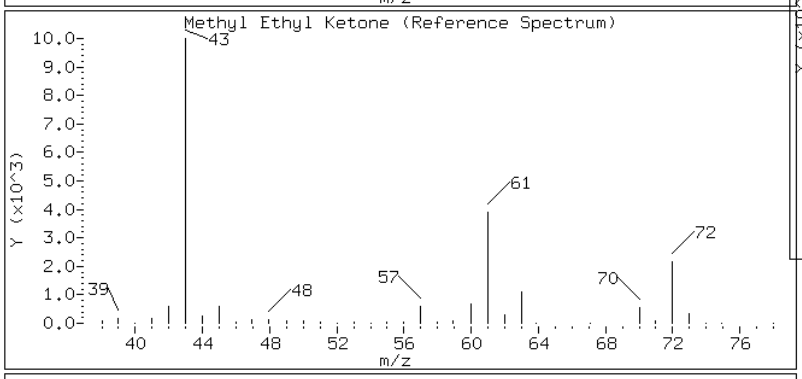
Client ID: SV-3 Instrument: B.i

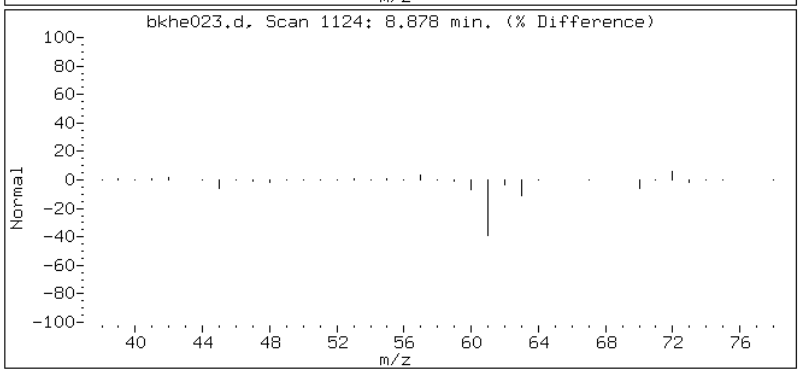
Sample Info: 200-6944-A-5 Operator: pad

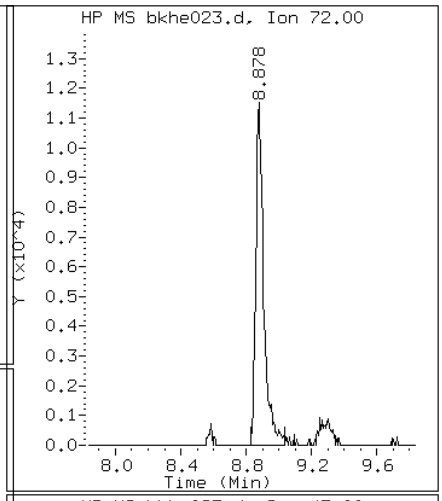
36 Methyl Ethyl Ketone

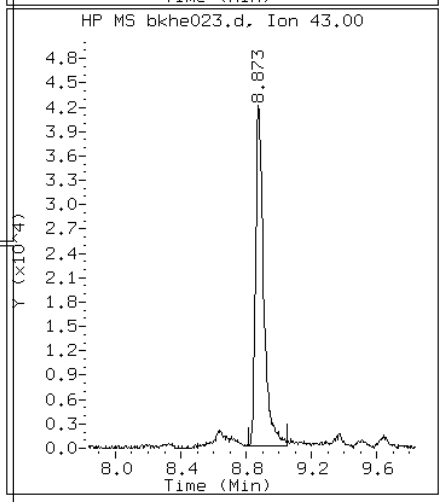












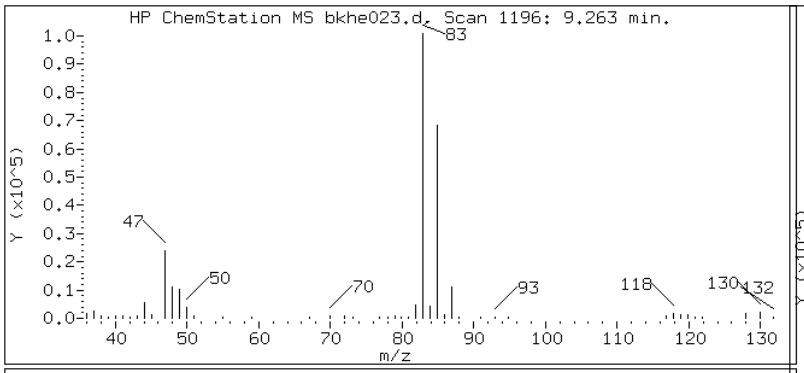
Data File: bkhe023.d

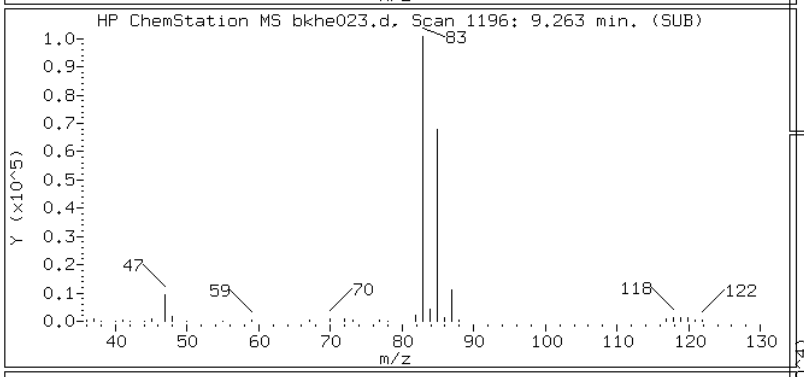
Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

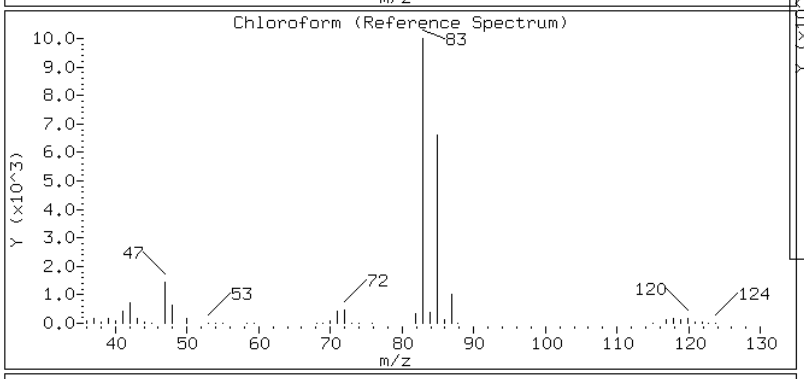
Client ID: SV-3 Instrument: B.i

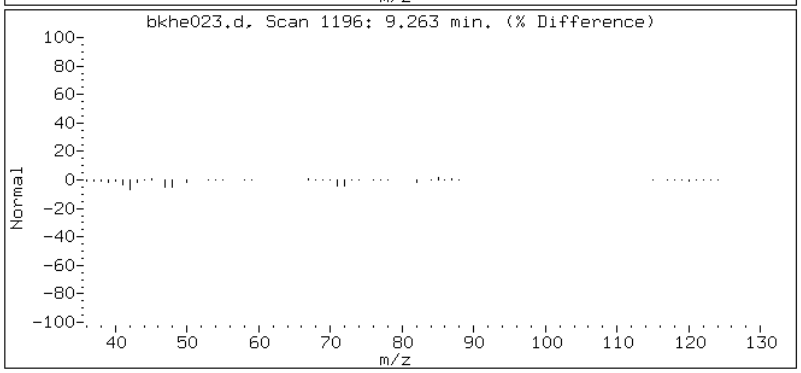
Sample Info: 200-6944-A-5 Operator: pad

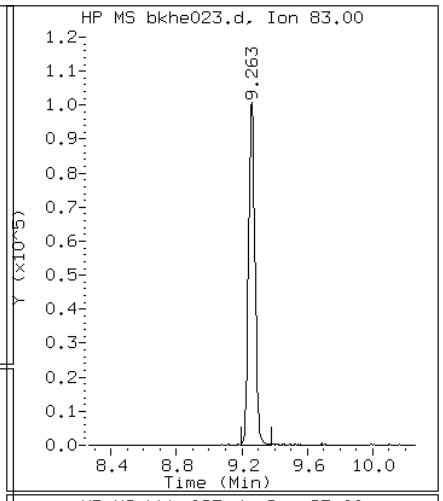
39 Chloroform

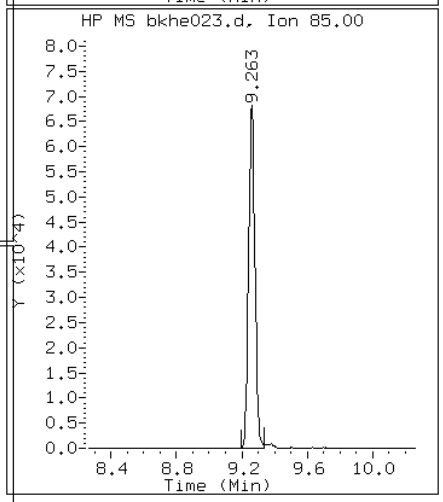












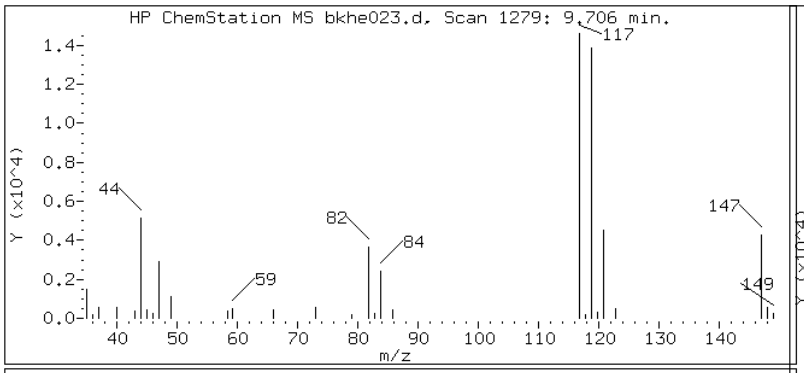
Data File: bkhe023.d

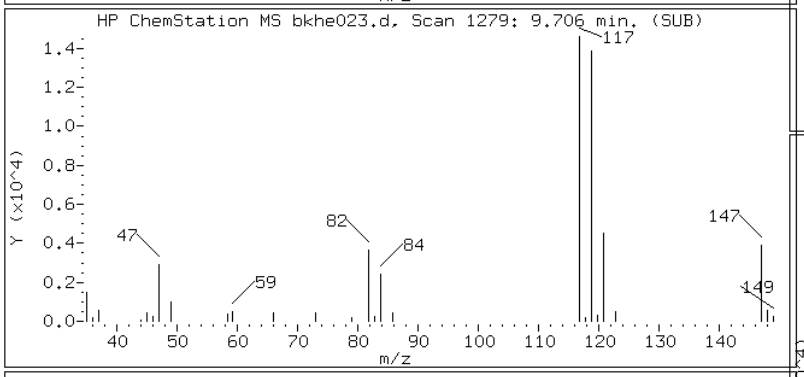
Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

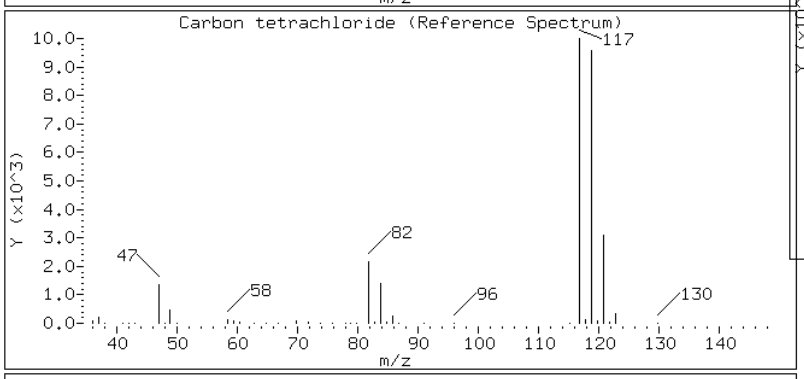
Client ID: SV-3 Instrument: B.i

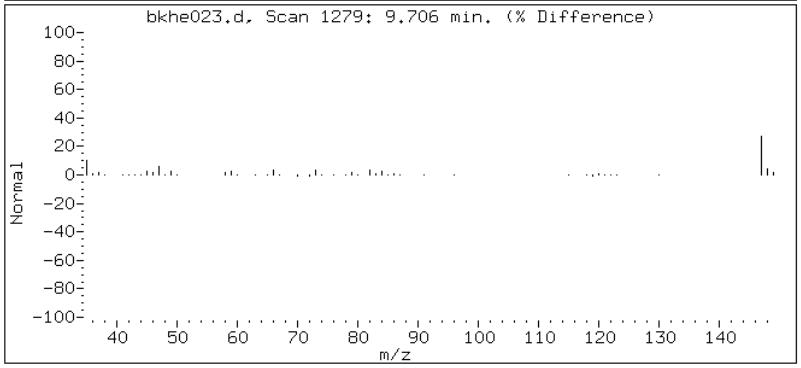
Sample Info: 200-6944-A-5 Operator: pad

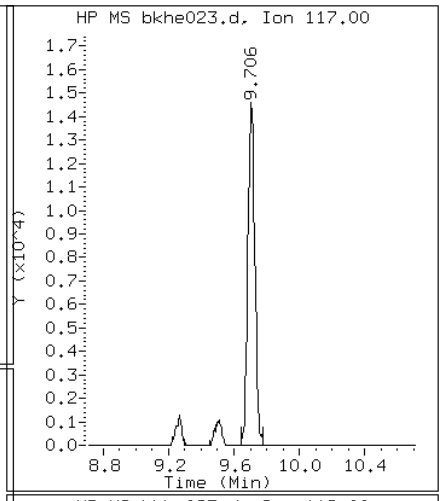
42 Carbon tetrachloride

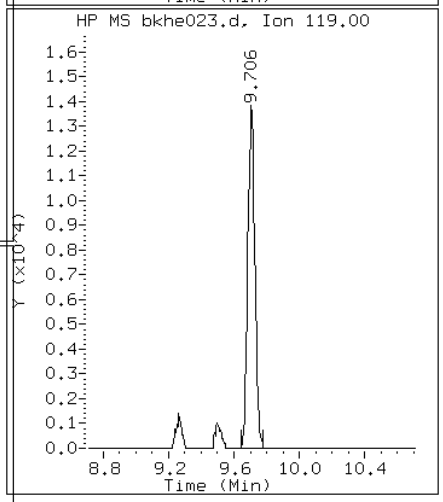












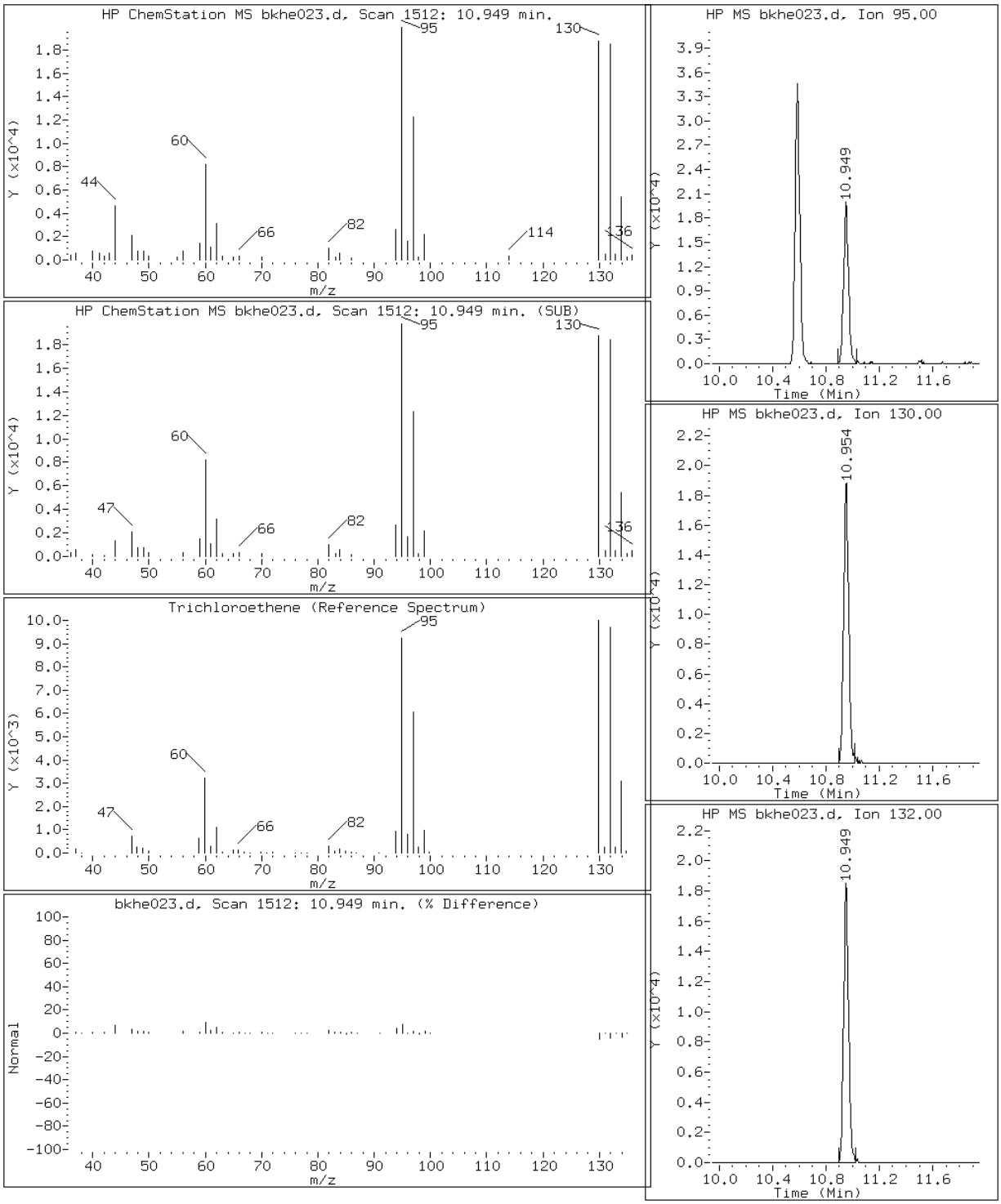
Data File: bkhe023.d

Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

Client ID: SV-3 Instrument: B.i

Sample Info: 200-6944-A-5 Operator: pad

49 Trichloroethene



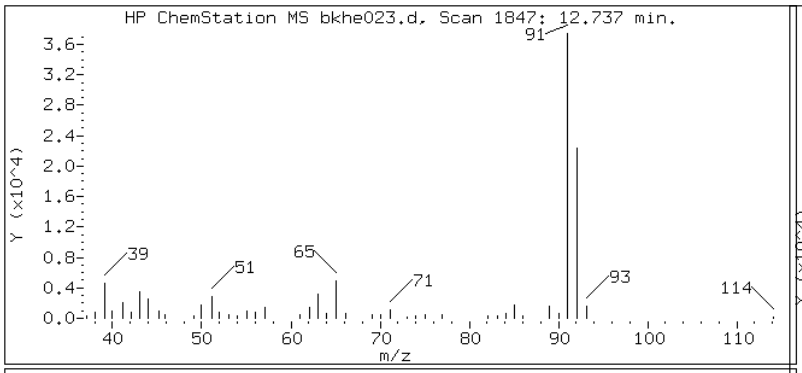
Data File: bkhe023.d

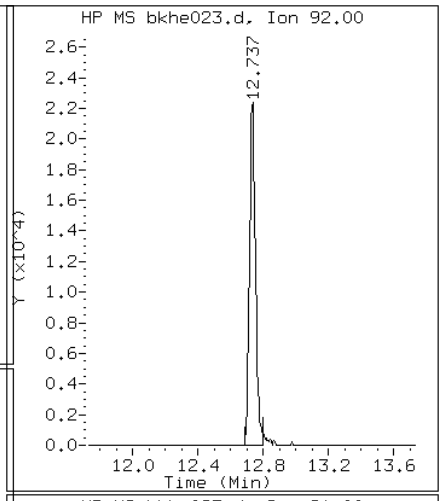
Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

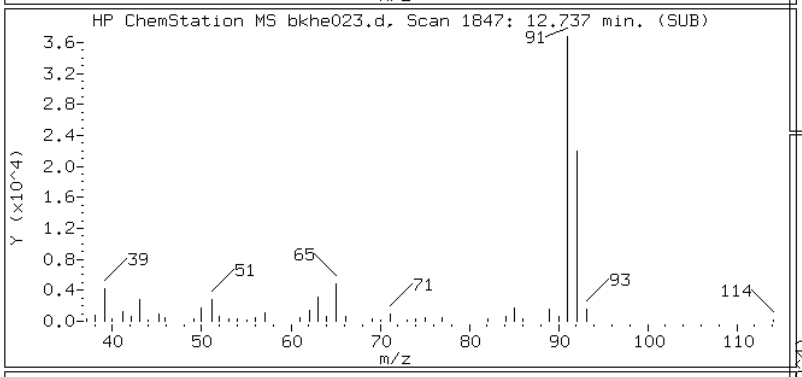
Client ID: SV-3 Instrument: B.i

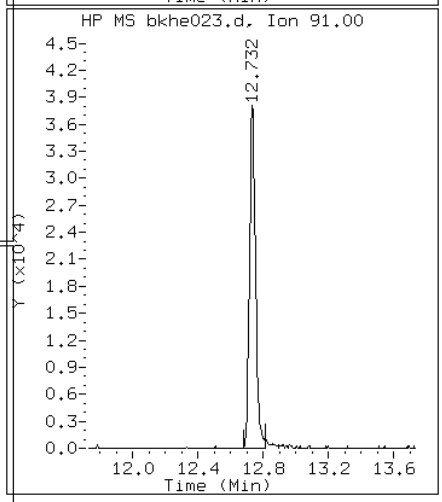
Sample Info: 200-6944-A-5 Operator: pad

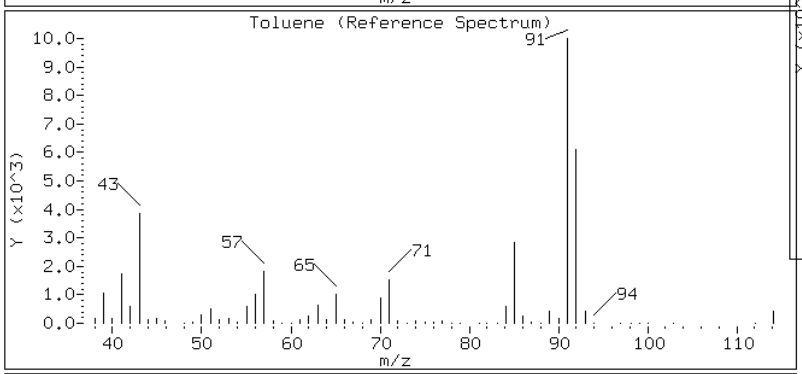
58 Toluene

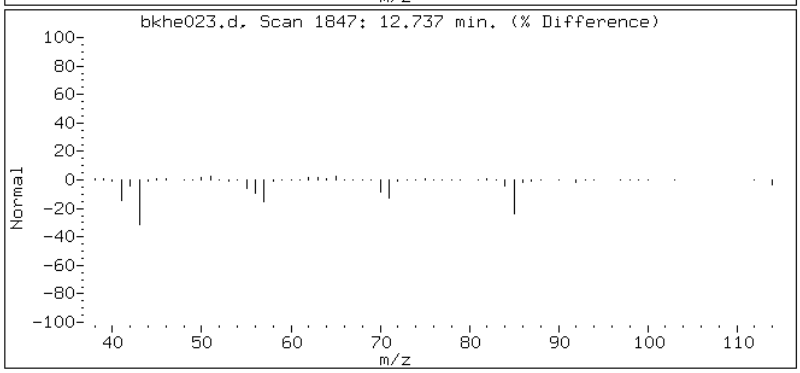












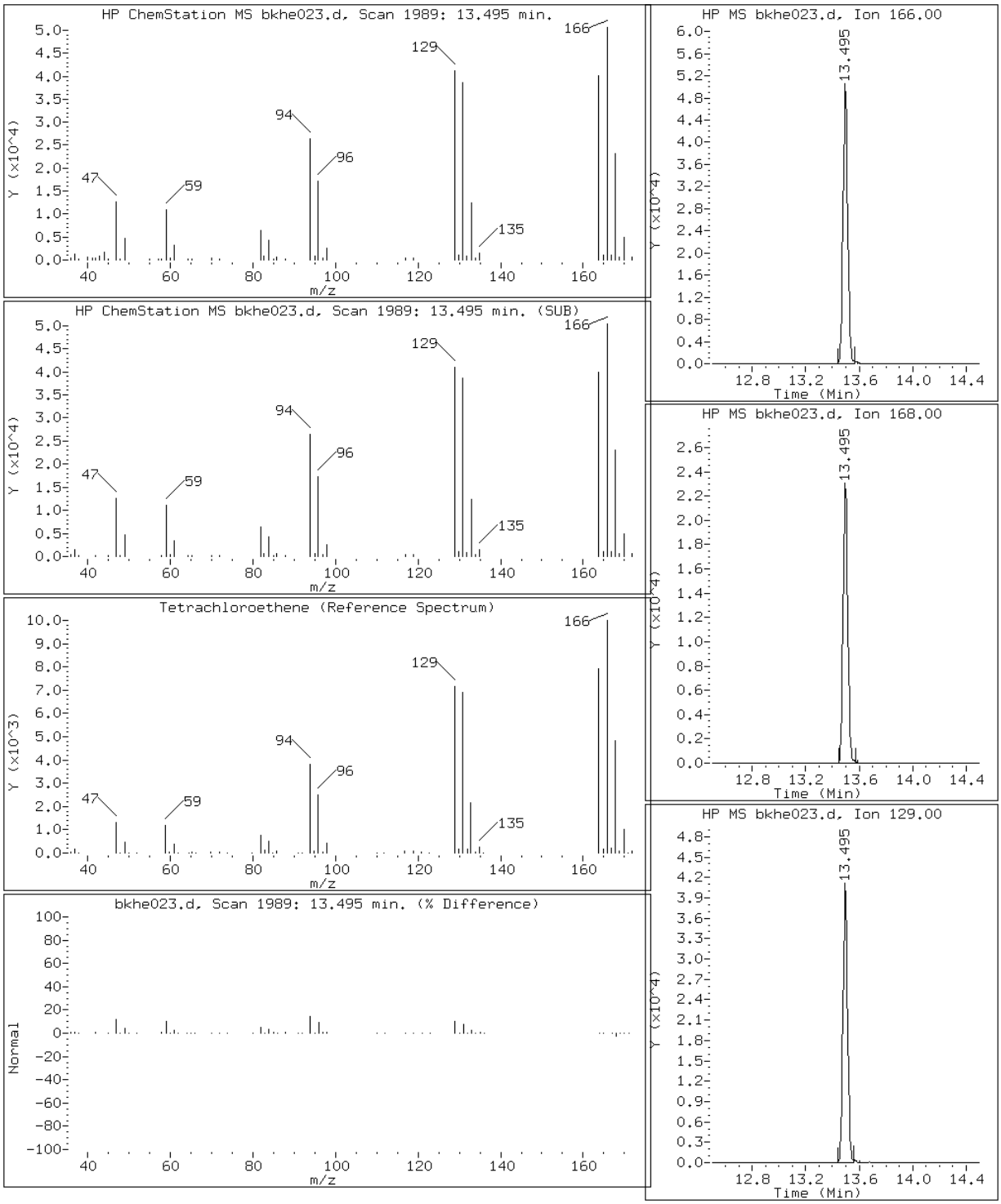
Data File: bkhe023.d

Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

Client ID: SV-3 Instrument: B.i

Sample Info: 200-6944-A-5 Operator: pad

61 Tetrachloroethene



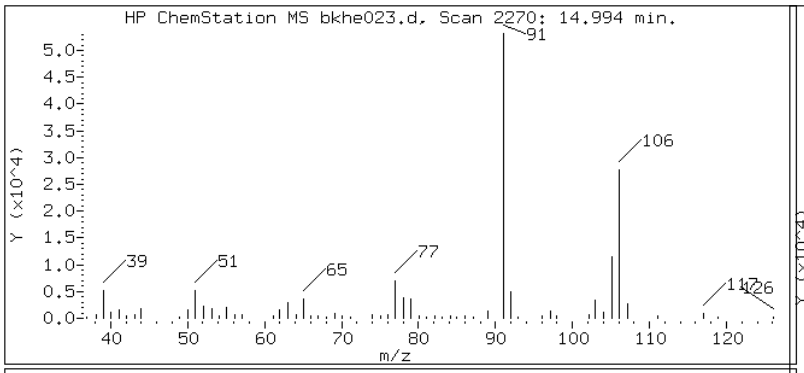
Data File: bkhe023.d

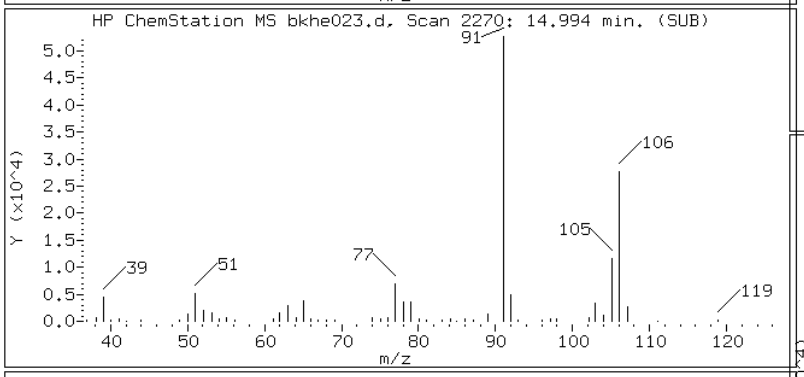
Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

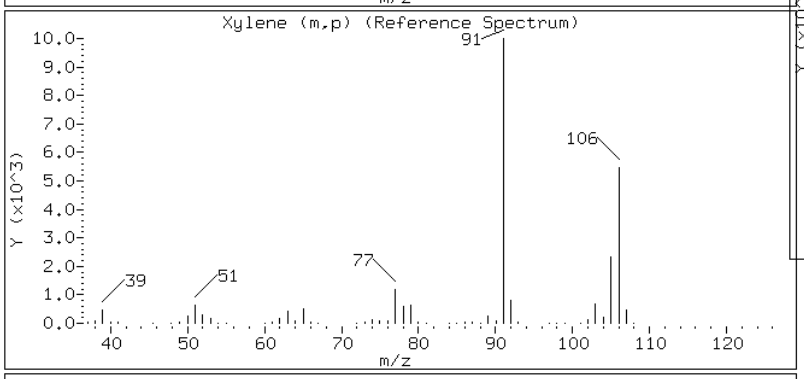
Client ID: SV-3 Instrument: B.i

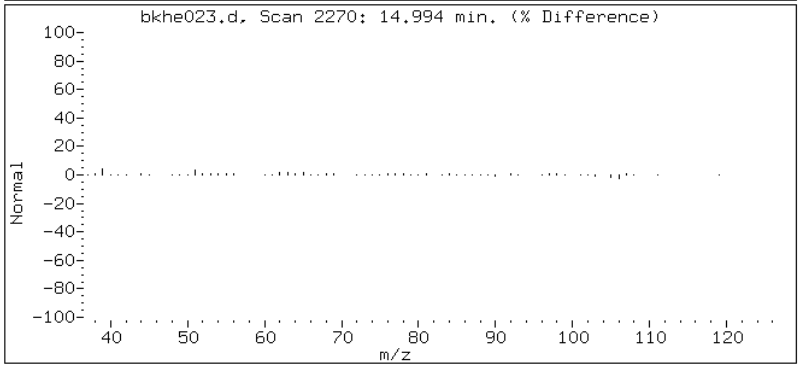
Sample Info: 200-6944-A-5 Operator: pad

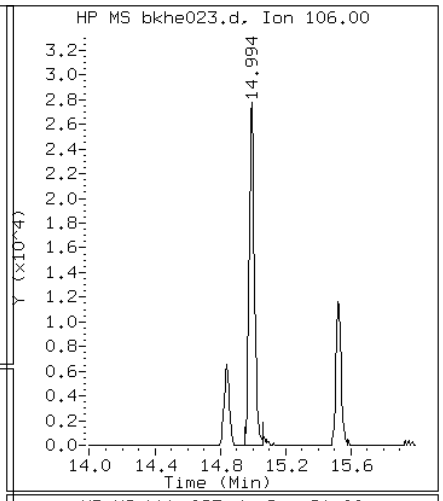
69 Xylene (m,p)

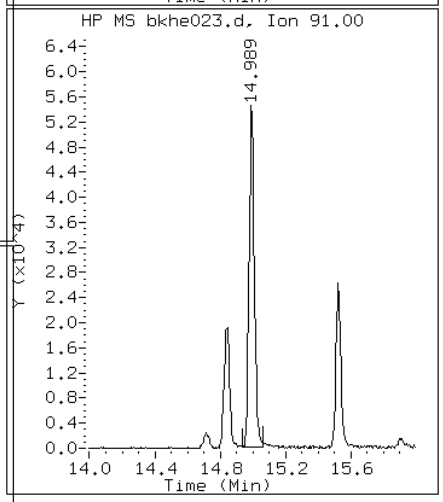












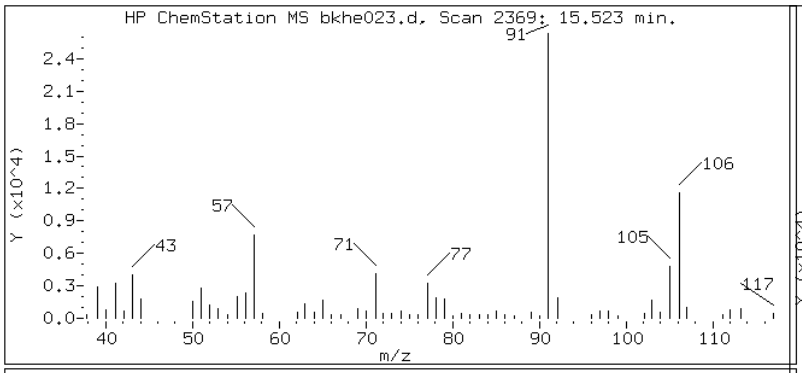
Data File: bkhe023.d

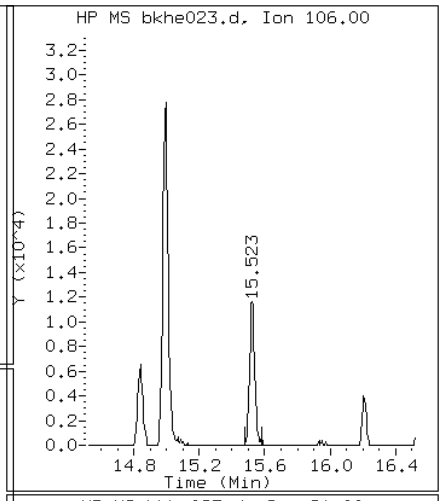
Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

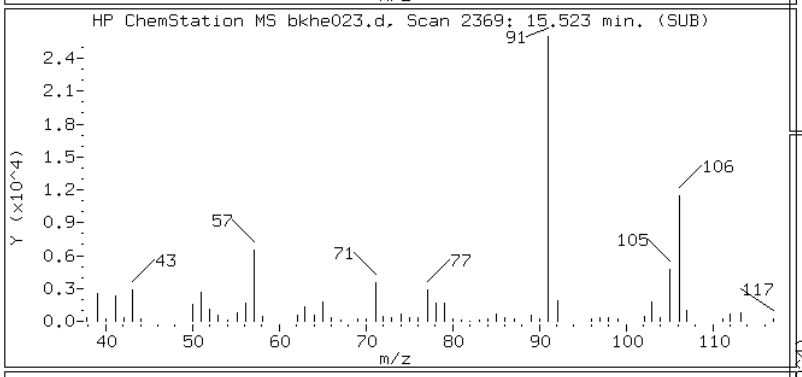
Client ID: SV-3 Instrument: B.i

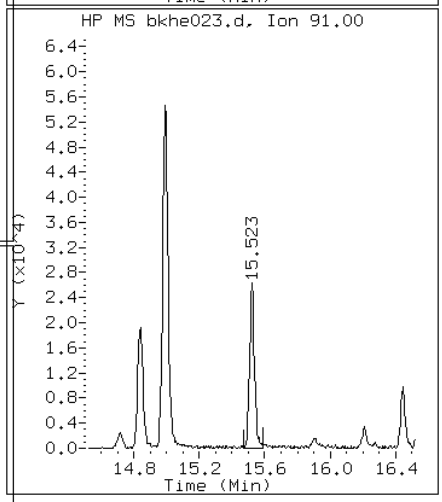
Sample Info: 200-6944-A-5 Operator: pad

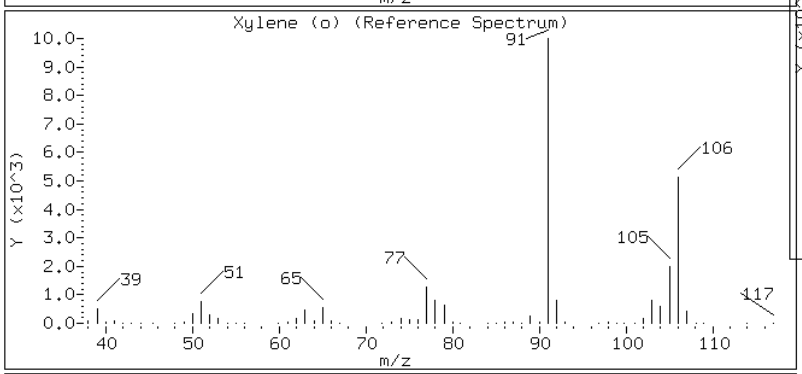
71 Xylene (o)

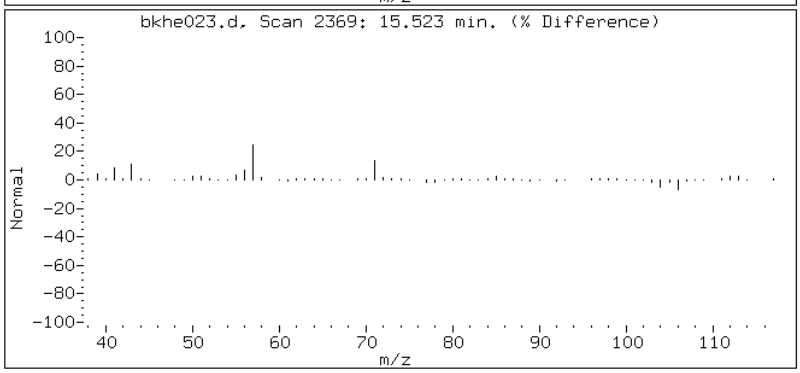












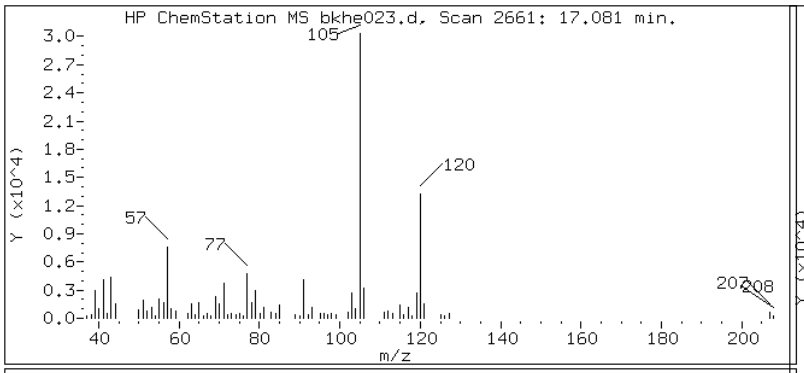
Data File: bkhe023.d

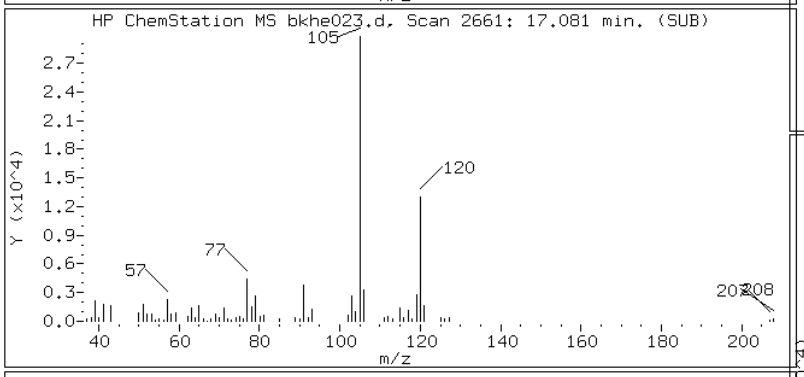
Lab Sample ID: 200-6944-5 Date: 22-SEP-2011 06:34

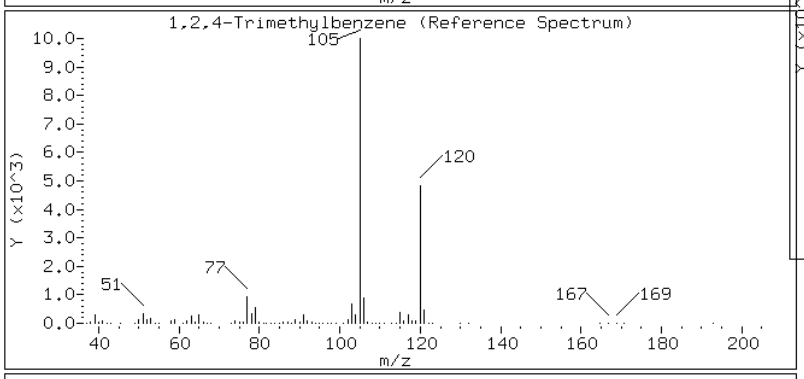
Client ID: SV-3 Instrument: B.i

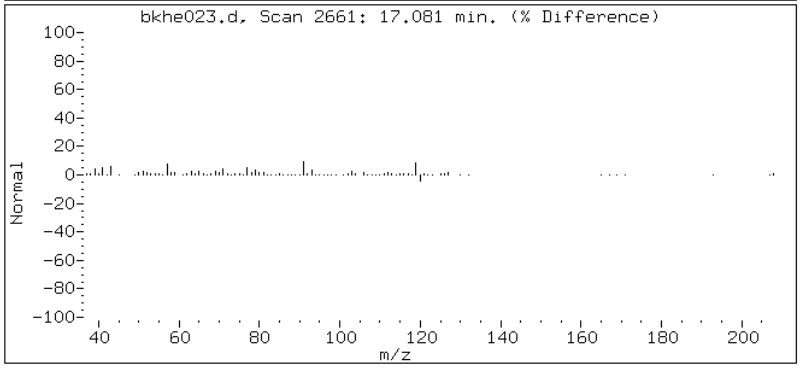
Sample Info: 200-6944-A-5 Operator: pad

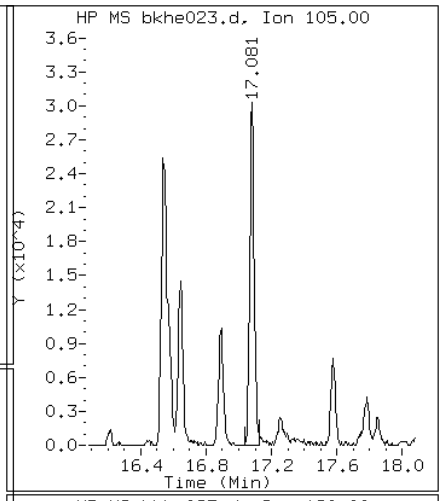
84 1,2,4-Trimethylbenzene

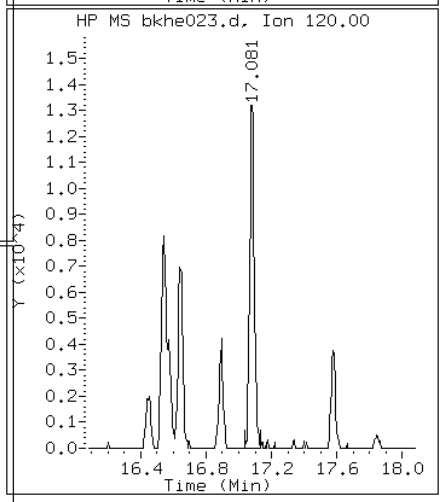












Manual Integration Report

Data File: bkhe023.d
Lab Sample ID: 200-6944-5
Inj. Date and Time: 22-SEP-2011 06:34
Instrument ID: B.i
Client ID: SV-3
Compound: 26 Tert-butyl alcohol
CAS #: 75-65-0
Report Date: 09/23/2011

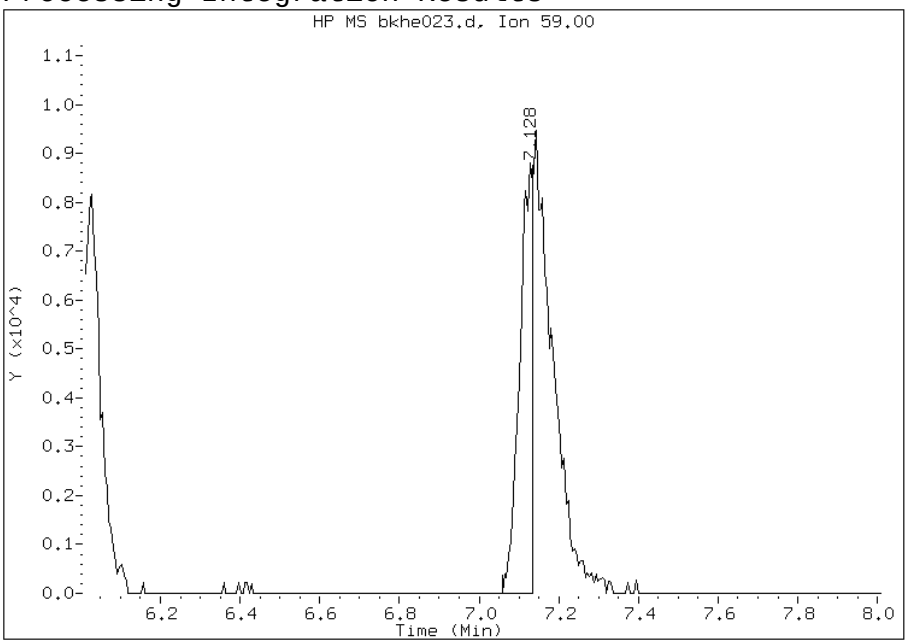
Processing Integration Results

RT: 7.13

Response: 19830

Amount: 0.246139

Conc: 2.46



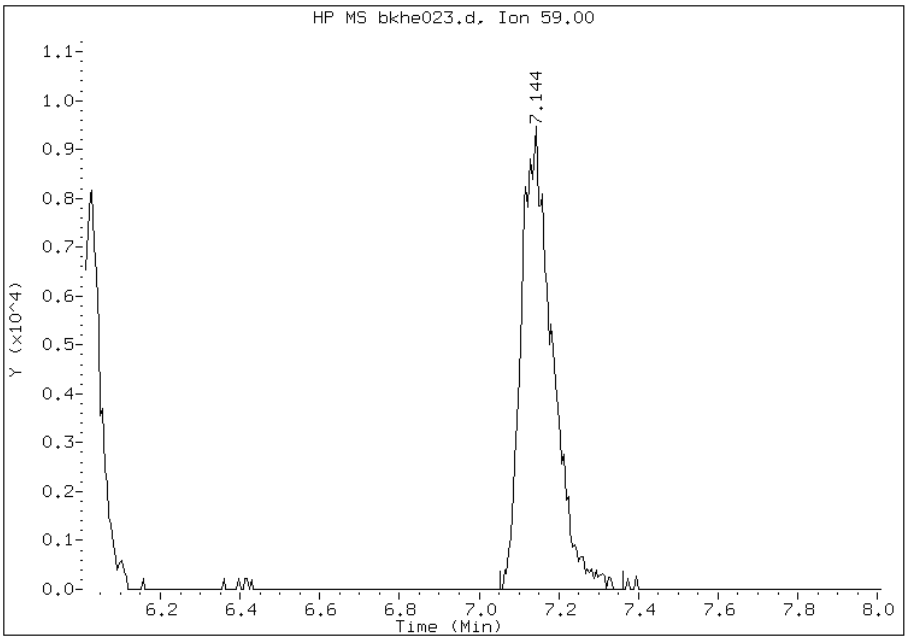
Manual Integration Results

RT: 7.14

Response: 51725

Amount: 0.642034

Conc: 6.42



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: bkhe023.d
Lab Sample ID: 200-6944-5
Inj. Date and Time: 22-SEP-2011 06:34
Instrument ID: B.i
Client ID: SV-3
Compound: 79 4-Ethyltoluene
CAS #: 622-96-8
Report Date: 09/23/2011

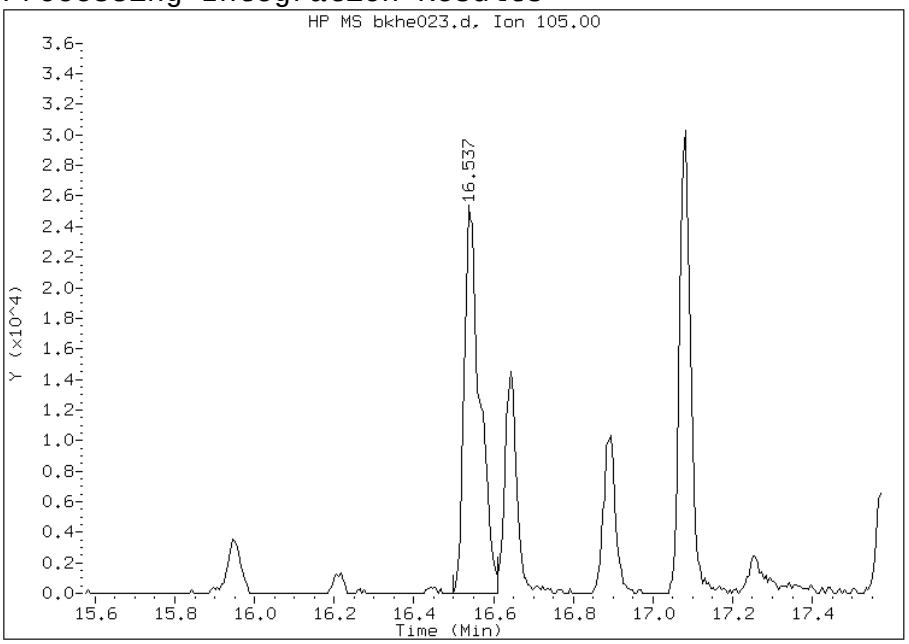
Processing Integration Results

RT: 16.54

Response: 69835

Amount: 0.203167

Conc: 2.03



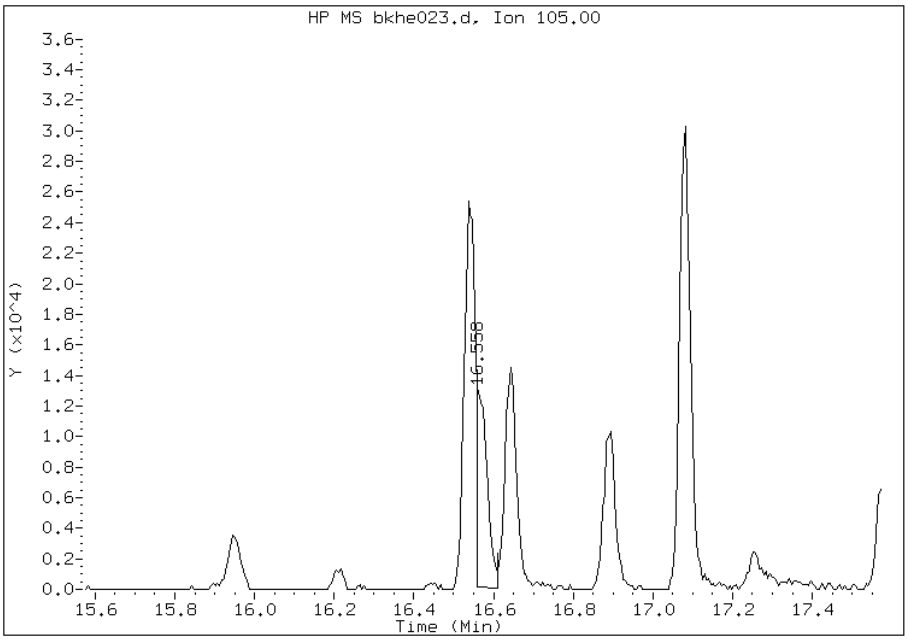
Manual Integration Results

RT: 16.56

Response: 24522

Amount: 0.071341

Conc: 0.713405



File Uploaded By: wrd
Manual Integration Reason: Baseline event

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-5 | Lab Sample ID: 200-6944-6

Matrix: Air | Lab File ID: bkhe024.d

Analysis Method: TO-15 | Date Collected: 09/09/2011 17:54

Sample wt/vol: 20(mL) | Date Analyzed: 09/22/2011 07:27

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 25690 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	5.0
75-45-6	Freon 22	86.47	5.0	U	5.0	5.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	2.0
74-87-3	Chloromethane	50.49	5.0	U	5.0	5.0
106-97-8	n-Butane	58.12	7.9		5.0	5.0
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	2.0
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	2.0
74-83-9	Bromomethane	94.94	2.0	U	2.0	2.0
75-00-3	Chloroethane	64.52	5.0	U	5.0	5.0
593-60-2	Bromoethene(Vinyl Bromide)	106.96	2.0	U	2.0	2.0
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	2.0
76-13-1	Freon TF	187.38	2.0	U	2.0	2.0
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	2.0
67-64-1	Acetone	58.08	210		50	50
67-63-0	Isopropyl alcohol	60.10	50	U	50	50
75-15-0	Carbon disulfide	76.14	56		5.0	5.0
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	5.0
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	5.0
75-65-0	tert-Butyl alcohol	74.12	50	U	50	50
1634-04-4	Methyl tert-butyl ether	88.15	2.3		2.0	2.0
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	2.0
110-54-3	n-Hexane	86.17	2.2		2.0	2.0
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	2.0
78-93-3	Methyl Ethyl Ketone	72.11	7.4		5.0	5.0
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	2.0
540-59-0	1,2-Dichloroethene, Total	96.94	2.0	U	2.0	2.0
67-66-3	Chloroform	119.38	290		2.0	2.0
109-99-9	Tetrahydrofuran	72.11	50	U	50	50
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	2.0
110-82-7	Cyclohexane	84.16	2.0	U	2.0	2.0
56-23-5	Carbon tetrachloride	153.81	26		2.0	2.0
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	2.0
71-43-2	Benzene	78.11	2.0	U	2.0	2.0
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	2.0
142-82-5	n-Heptane	100.21	2.0	U	2.0	2.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-5 Lab Sample ID: 200-6944-6

Matrix: Air Lab File ID: bkhe024.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:54

Sample wt/vol: 20(mL) Date Analyzed: 09/22/2011 07:27

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	160		2.0	2.0
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	5.0
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	2.0
123-91-1	1,4-Dioxane	88.11	50	U	50	50
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	2.0
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	5.0
108-88-3	Toluene	92.14	11		2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	2.0
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	2.0
127-18-4	Tetrachloroethene	165.83	18		2.0	2.0
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	5.0
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	2.0
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	2.0
108-90-7	Chlorobenzene	112.30	2.0	U	2.0	2.0
100-41-4	Ethylbenzene	106.17	2.4		2.0	2.0
179601-23-1	m,p-Xylene	106.17	7.2		5.0	5.0
95-47-6	Xylene, o-	106.17	3.4		2.0	2.0
1330-20-7	Xylene (total)	106.17	11		2.0	2.0
100-42-5	Styrene	104.15	2.0	U	2.0	2.0
75-25-2	Bromoform	252.75	2.0	U	2.0	2.0
98-82-8	Cumene	120.19	2.0	U	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	2.0
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	2.0
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	2.0
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	2.0
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	2.0
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	2.0
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	2.0
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	2.0
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	2.0
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	2.0
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	2.0

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-5 Lab Sample ID: 200-6944-6

Matrix: Air Lab File ID: bkhe024.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:54

Sample wt/vol: 20(mL) Date Analyzed: 09/22/2011 07:27

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	5.0
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	2.0
91-20-3	Naphthalene	128.17	5.0	U	5.0	5.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-5 Lab Sample ID: 200-6944-6

Matrix: Air Lab File ID: bkhe024.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:54

Sample wt/vol: 20(mL) Date Analyzed: 09/22/2011 07:27

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	25
75-45-6	Freon 22	86.47	18	U	18	18
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	14
74-87-3	Chloromethane	50.49	10	U	10	10
106-97-8	n-Butane	58.12	19		12	12
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	5.1
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	4.4
74-83-9	Bromomethane	94.94	7.8	U	7.8	7.8
75-00-3	Chloroethane	64.52	13	U	13	13
593-60-2	Bromoethene(Vinyl Bromide)	106.96	8.7	U	8.7	8.7
75-69-4	Trichlorofluoromethane	137.37	11	U	11	11
76-13-1	Freon TF	187.38	15	U	15	15
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	7.9
67-64-1	Acetone	58.08	500		120	120
67-63-0	Isopropyl alcohol	60.10	120	U	120	120
75-15-0	Carbon disulfide	76.14	170		16	16
107-05-1	3-Chloropropene	76.53	16	U	16	16
75-09-2	Methylene Chloride	84.93	17	U	17	17
75-65-0	tert-Butyl alcohol	74.12	150	U	150	150
1634-04-4	Methyl tert-butyl ether	88.15	8.1		7.2	7.2
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	7.9
110-54-3	n-Hexane	86.17	7.9		7.0	7.0
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	8.1
78-93-3	Methyl Ethyl Ketone	72.11	22		15	15
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	7.9
540-59-0	1,2-Dichloroethene, Total	96.94	7.9	U	7.9	7.9
67-66-3	Chloroform	119.38	1400		9.8	9.8
109-99-9	Tetrahydrofuran	72.11	150	U	150	150
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	11
110-82-7	Cyclohexane	84.16	6.9	U	6.9	6.9
56-23-5	Carbon tetrachloride	153.81	160		13	13
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	9.3
71-43-2	Benzene	78.11	6.4	U	6.4	6.4
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	8.1
142-82-5	n-Heptane	100.21	8.2	U	8.2	8.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-5 Lab Sample ID: 200-6944-6

Matrix: Air Lab File ID: bkhe024.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:54

Sample wt/vol: 20(mL) Date Analyzed: 09/22/2011 07:27

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	880		11	11
80-62-6	Methyl methacrylate	100.12	20	U	20	20
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	9.2
123-91-1	1,4-Dioxane	88.11	180	U	180	180
75-27-4	Bromodichloromethane	163.83	13	U	13	13
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	9.1
108-10-1	methyl isobutyl ketone	100.16	20	U	20	20
108-88-3	Toluene	92.14	43		7.5	7.5
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	9.1
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	11
127-18-4	Tetrachloroethene	165.83	120		14	14
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	20
124-48-1	Dibromochloromethane	208.29	17	U	17	17
106-93-4	1,2-Dibromoethane	187.87	15	U	15	15
108-90-7	Chlorobenzene	112.30	9.2	U	9.2	9.2
100-41-4	Ethylbenzene	106.17	10		8.7	8.7
179601-23-1	m,p-Xylene	106.17	31		22	22
95-47-6	Xylene, o-	106.17	15		8.7	8.7
1330-20-7	Xylene (total)	106.17	46		8.7	8.7
100-42-5	Styrene	104.15	8.5	U	8.5	8.5
75-25-2	Bromoform	252.75	21	U	21	21
98-82-8	Cumene	120.19	9.8	U	9.8	9.8
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	14
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	9.8
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	9.8
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	9.8
95-49-8	2-Chlorotoluene	126.59	10	U	10	10
98-06-6	tert-Butylbenzene	134.22	11	U	11	11
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	9.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	11
99-87-6	4-Isopropyltoluene	134.22	11	U	11	11
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	12
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	12
100-44-7	Benzyl chloride	126.58	10	U	10	10
104-51-8	n-Butylbenzene	134.22	11	U	11	11

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-5 Lab Sample ID: 200-6944-6

Matrix: Air Lab File ID: bkhe024.d

Analysis Method: TO-15 Date Collected: 09/09/2011 17:54

Sample wt/vol: 20(mL) Date Analyzed: 09/22/2011 07:27

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	12
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	37
87-68-3	Hexachlorobutadiene	260.76	21	U	21	21
91-20-3	Naphthalene	128.17	26	U	26	26

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-6944-6
Client Smp ID: SV-5
Inj Date : 22-SEP-2011 07:27
Operator : pad Inst ID: B.i
Smp Info : 200-6944-A-6
Misc Info : 20,10, all74
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/to15v5.m
Meth Date : 23-Sep-2011 09:43 wrd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 6
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	20.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	3.034	3.034	(0.331)	7590	0.08197	0.82(a)
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	3.328	3.333	(0.363)	1951	0.10559	1.1(a)
6 Butane	43	3.477	3.477	(0.379)	24236	0.78527	7.9(Q)
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.028	6.023	(0.657)	1438564	20.8409	210

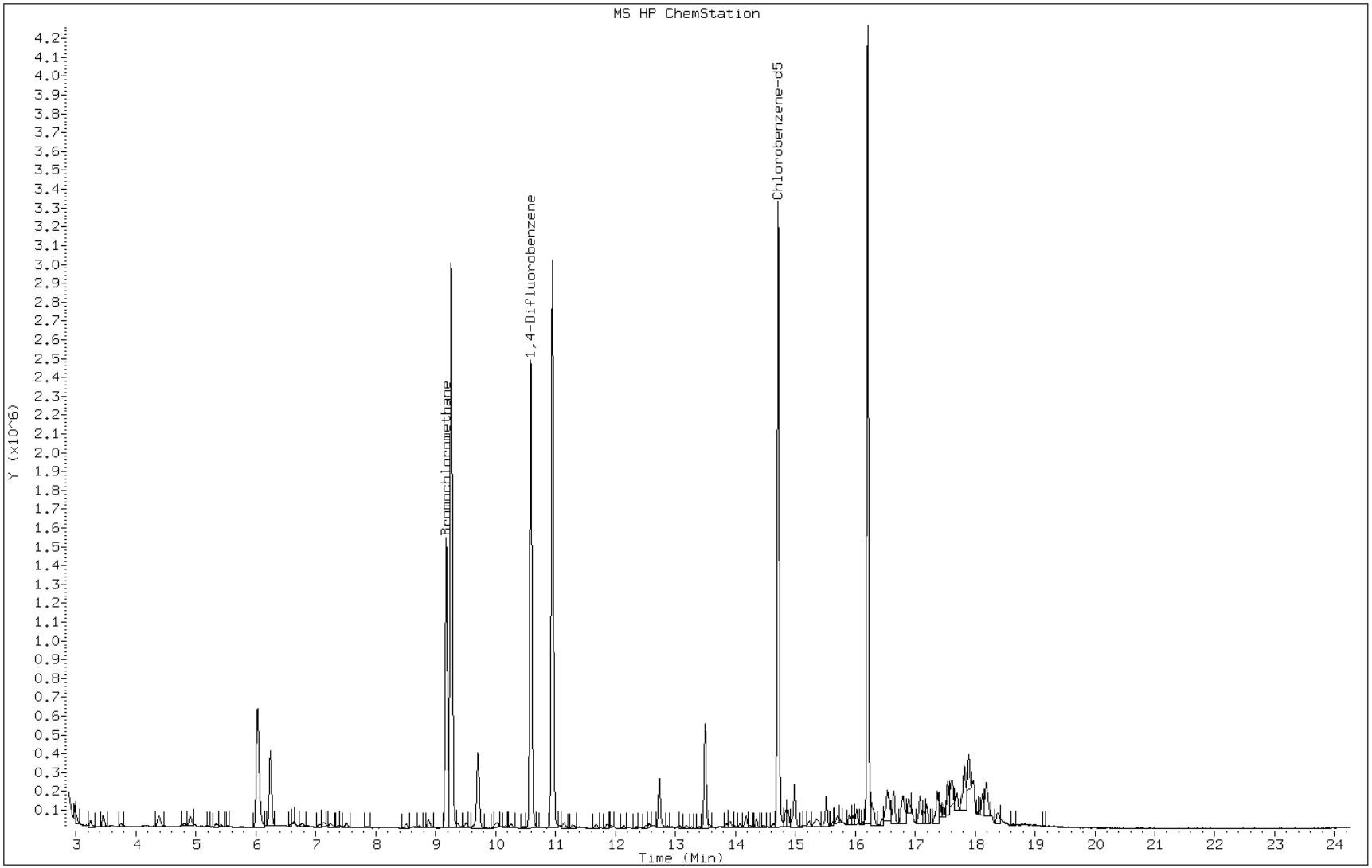
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	21 Carbon disulfide	76	6.247	6.247	(0.681)	846791	5.57113	56
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.776	6.781	(0.738)	5744	0.11748	1.2(aQ)
	26 Tert-butyl alcohol	59	7.149	7.010	(0.779)	62526	0.78564	7.9(a)
	27 Methyl tert-butyl ether	73	7.251	7.165	(0.790)	34436	0.22598	2.3
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.512	7.512	(0.819)	18123	0.22415	2.2
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	8.889	8.836	(0.969)	21202	0.74014	7.4(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	558817	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	9.257	9.263	(1.009)	3335886	28.8642	290
	40 Cyclohexane	84	9.513	9.513	(0.899)	6918	0.08128	0.81(aQ)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	9.706	9.711	(0.917)	384307	2.61055	26
	43 2,2,4-Trimethylpentane	57	9.999	9.999	(0.945)	28042	0.10982	1.1(aM)
	44 Benzene	78	10.036	10.031	(0.948)	28507	0.16010	1.6(a)
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	10.266	10.266	(0.970)	12909	0.14382	1.4(a)
*	47 1,4-Difluorobenzene	114	10.586	10.592	(1.000)	2763141	10.0000	
	49 Trichloroethene	95	10.949	10.949	(1.034)	1359806	16.3115	160
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	12.566	12.497	(1.187)	20822	0.20213	2.0(a)
	58 Toluene	92	12.732	12.732	(0.865)	150032	1.14165	11
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.495	13.500	(0.917)	219824	1.80390	18
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	2403269	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	14.840	14.840	(1.008)	69029	0.23996	2.4
	69 Xylene (m,p)	106	14.989	14.994	(1.018)	84323	0.71578	7.2(Q)
M	70 Xylenes, Total	106				124320	1.05746	11
	71 Xylene (o)	106	15.523	15.523	(1.055)	39997	0.34168	3.4
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	15.950	15.950	(1.084)	11138	0.03284	0.33(a)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
76 n-Propylbenzene	91	16.446	16.441	(1.117)	21647	0.05722	0.57(a)
79 4-Ethyltoluene	105	16.564	16.574	(1.125)	21977	0.06426	0.64(aM)
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	16.644	16.644	(1.131)	31185	0.10834	1.1(a)
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	17.081	17.081	(1.161)	51015	0.17829	1.8(a)
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	bkhe024.d	Date:	22-SEP-2011 07:27
Client ID:	SV-5	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-6944-A-6		
Lab Sample ID:	200-6944-6		



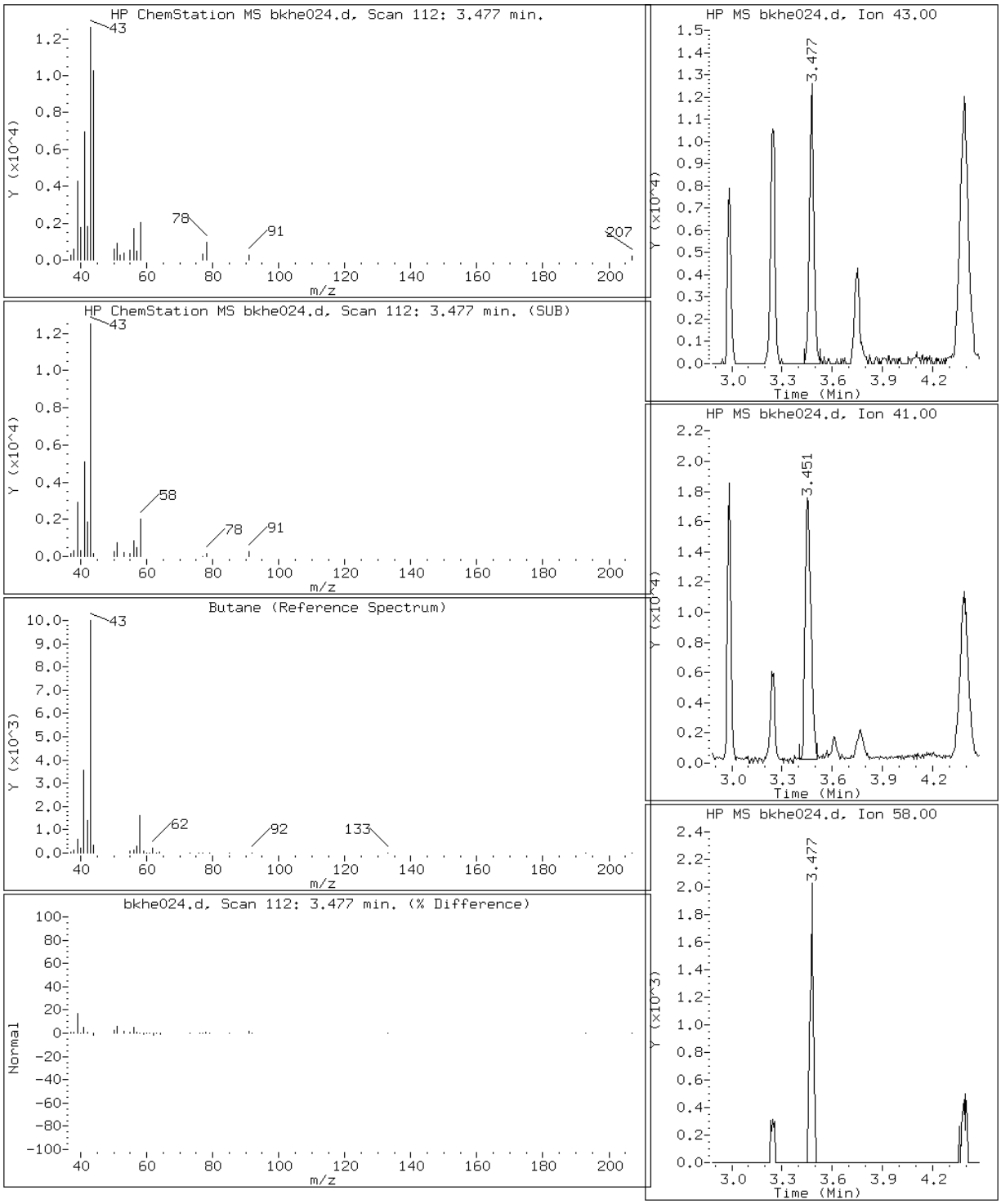
Data File: bkhe024.d

Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

Client ID: SV-5 Instrument: B.i

Sample Info: 200-6944-A-6 Operator: pad

6 Butane



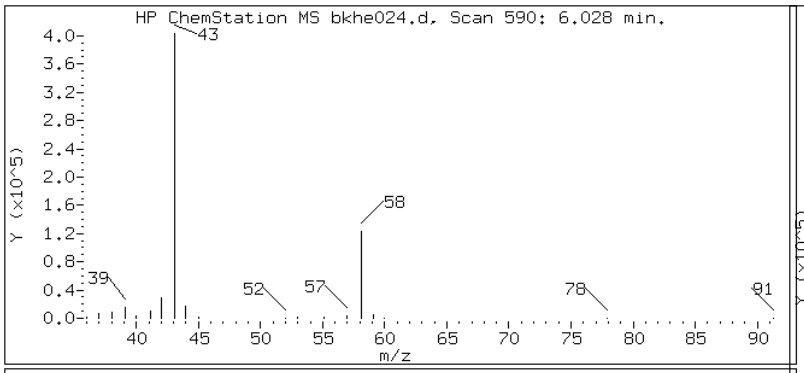
Data File: bkhe024.d

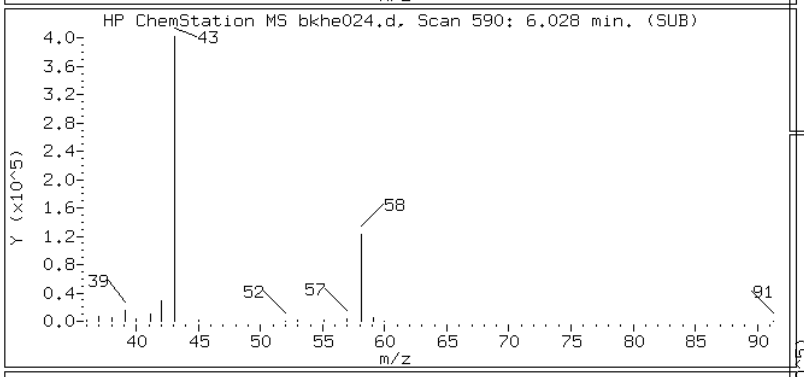
Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

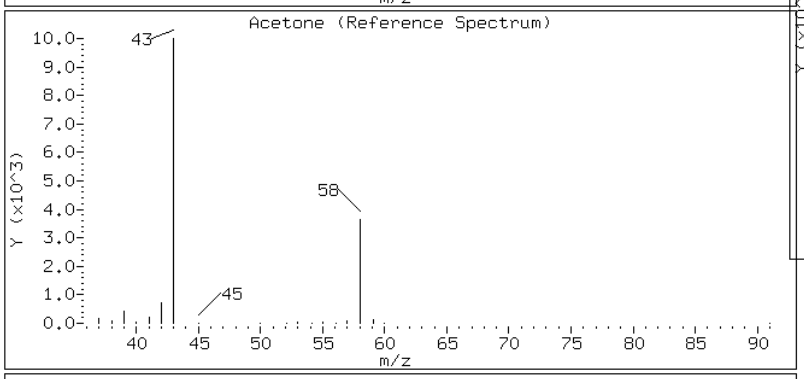
Client ID: SV-5 Instrument: B.i

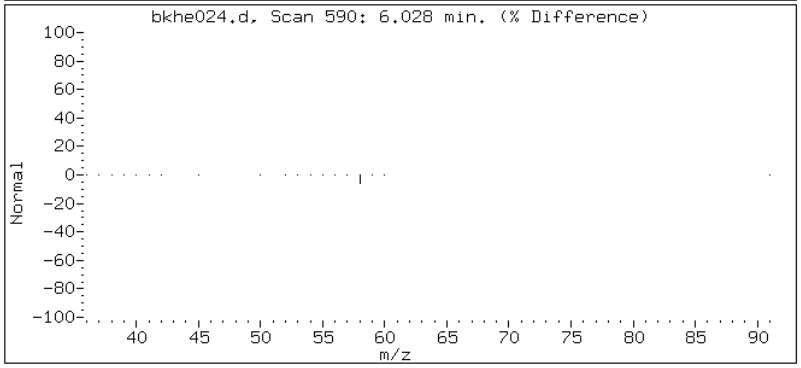
Sample Info: 200-6944-A-6 Operator: pad

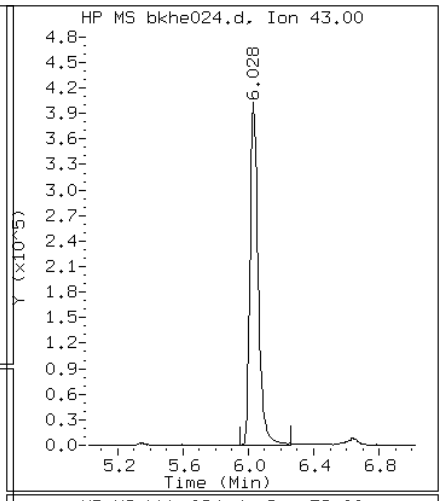
20 Acetone

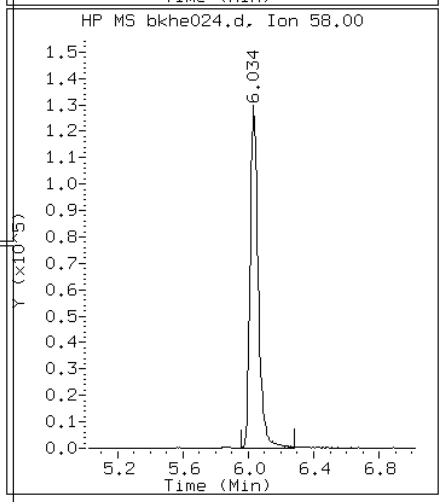












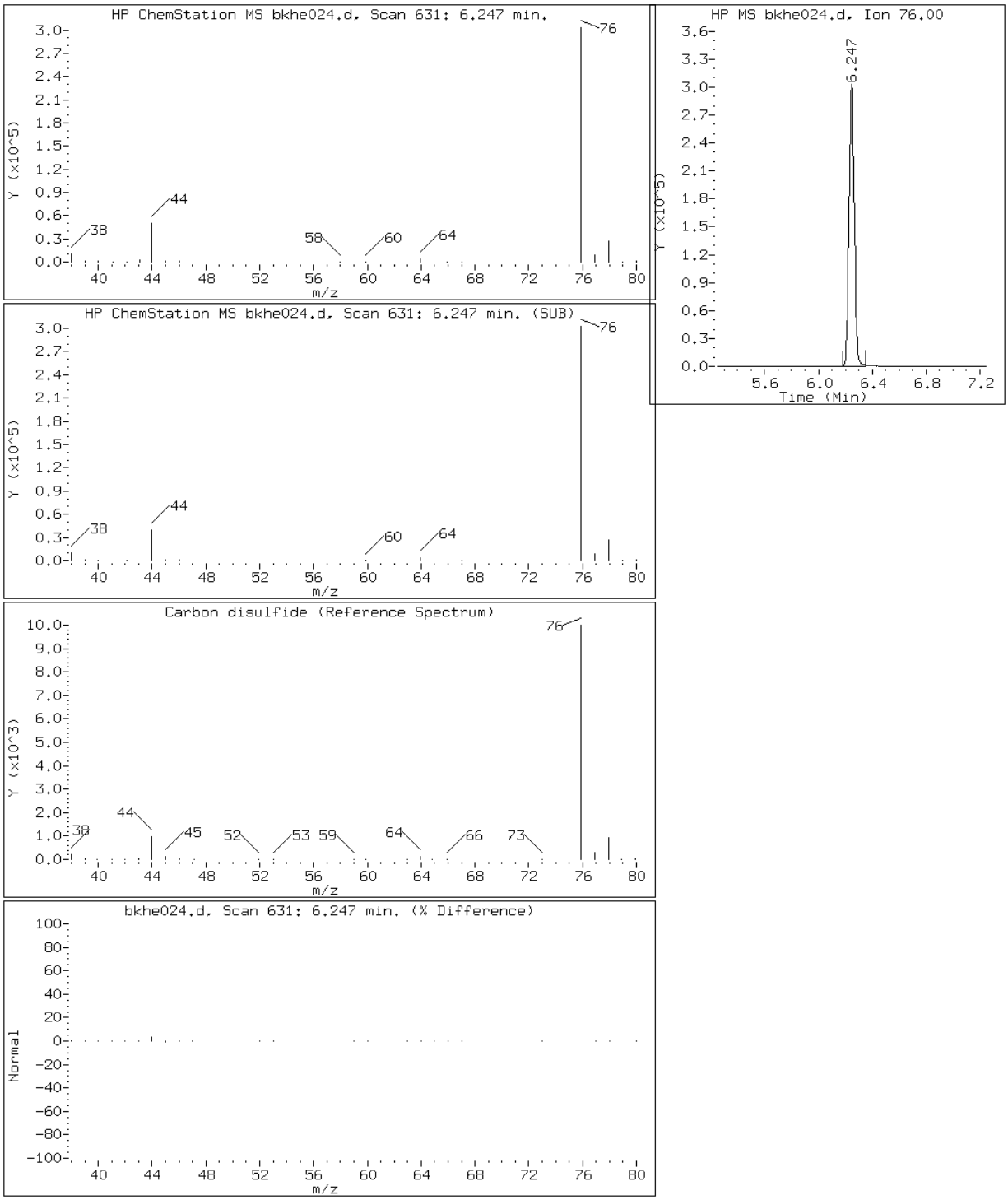
Data File: bkhe024.d

Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

Client ID: SV-5 Instrument: B.i

Sample Info: 200-6944-A-6 Operator: pad

21 Carbon disulfide



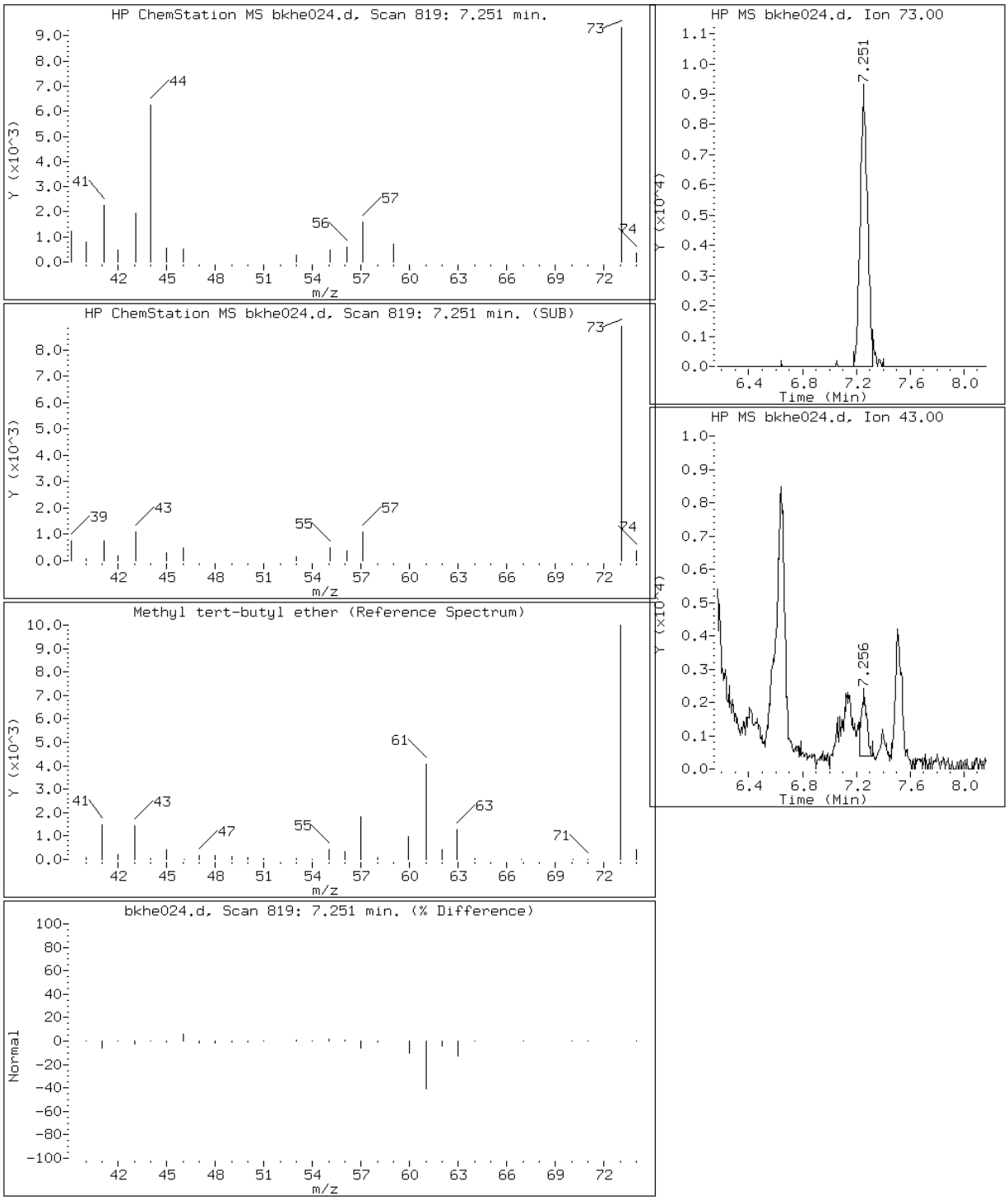
Data File: bkhe024.d

Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

Client ID: SV-5 Instrument: B.i

Sample Info: 200-6944-A-6 Operator: pad

27 Methyl tert-butyl ether



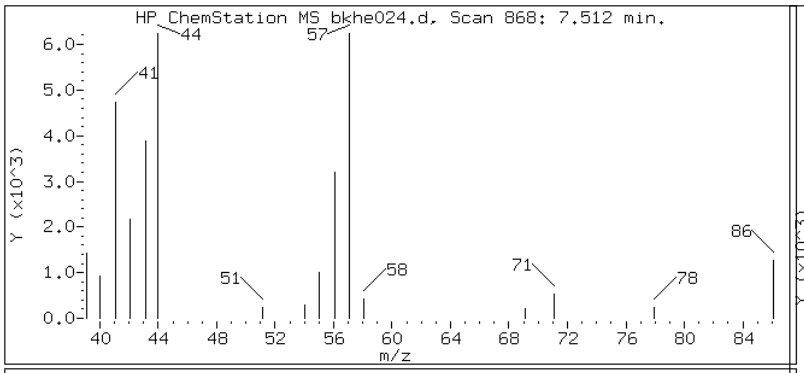
Data File: bkhe024.d

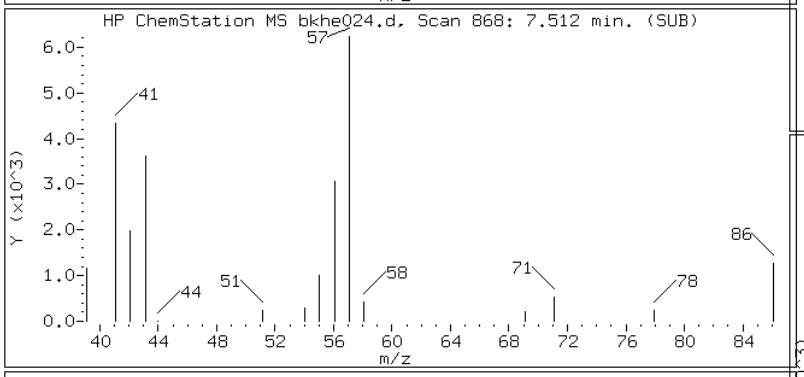
Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

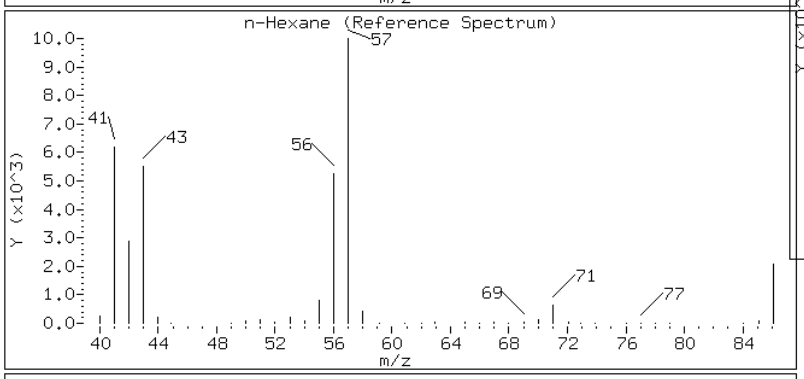
Client ID: SV-5 Instrument: B.i

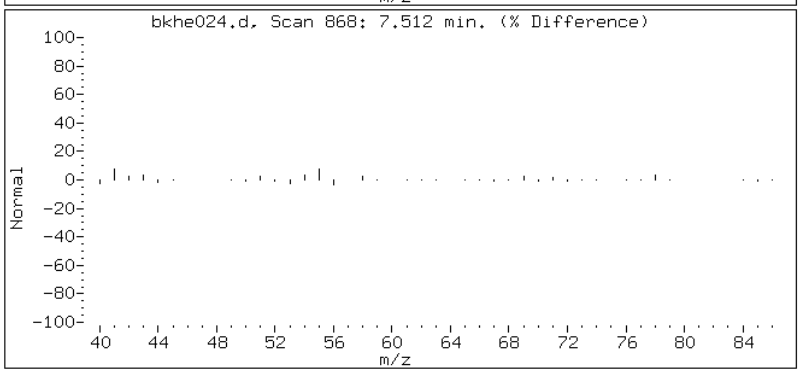
Sample Info: 200-6944-A-6 Operator: pad

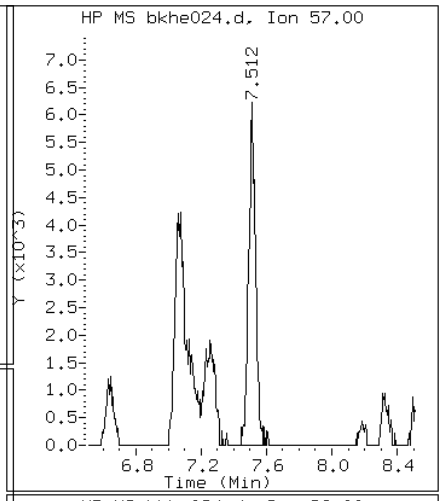
30 n-Hexane

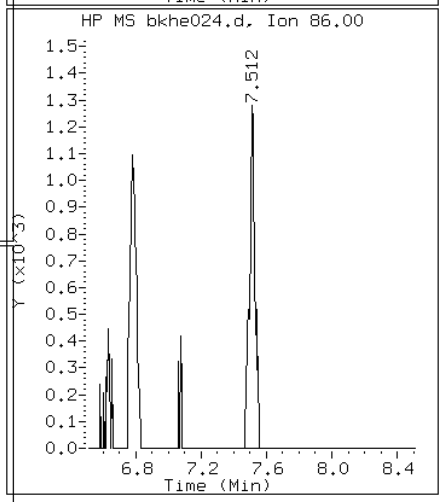












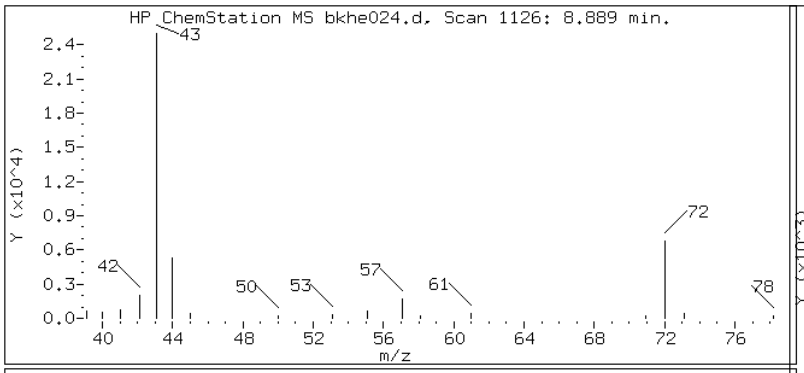
Data File: bkhe024.d

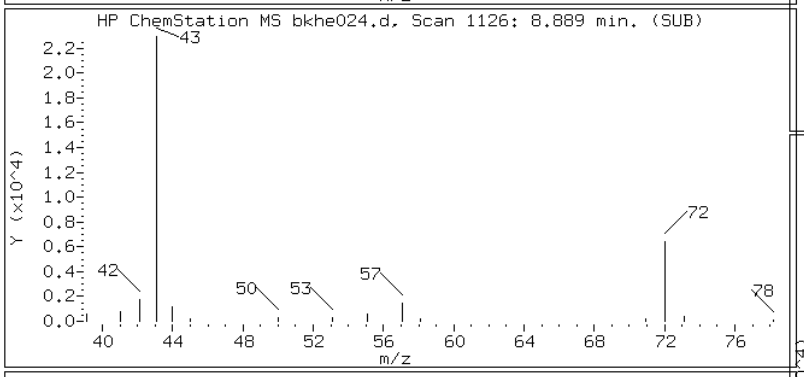
Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

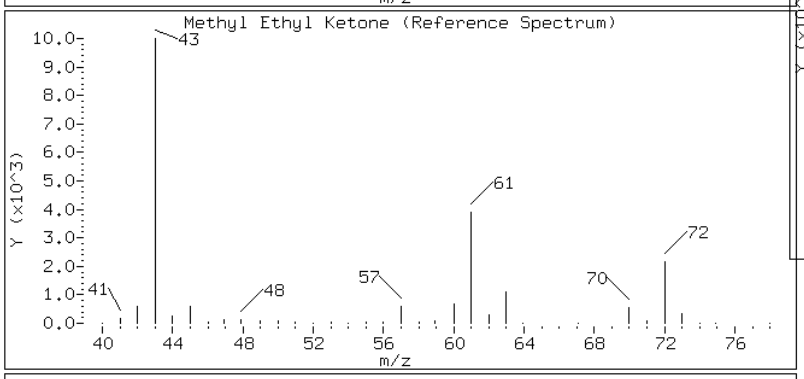
Client ID: SV-5 Instrument: B.i

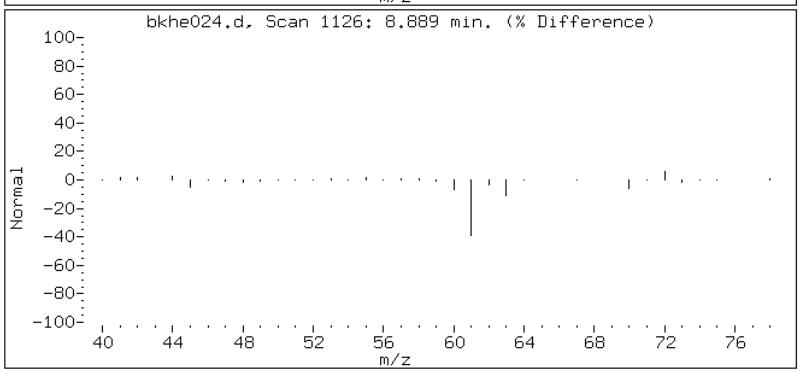
Sample Info: 200-6944-A-6 Operator: pad

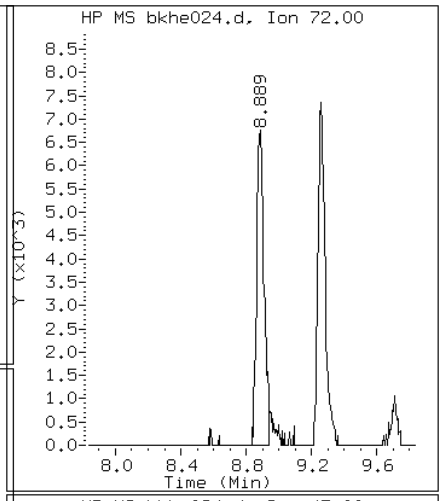
36 Methyl Ethyl Ketone

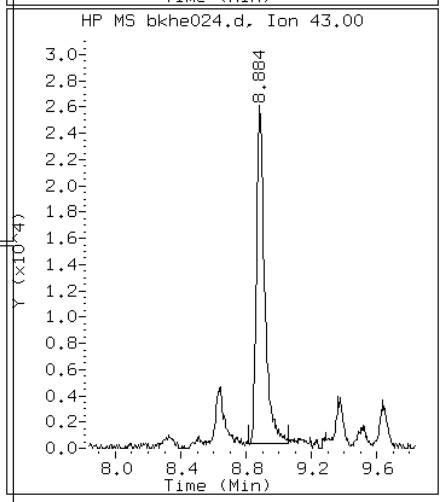












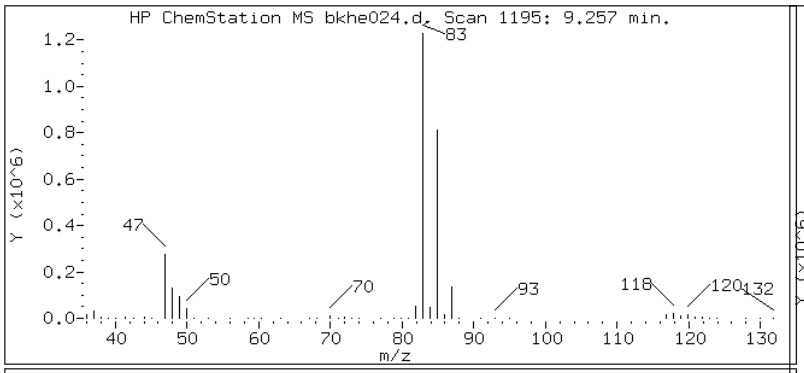
Data File: bkhe024.d

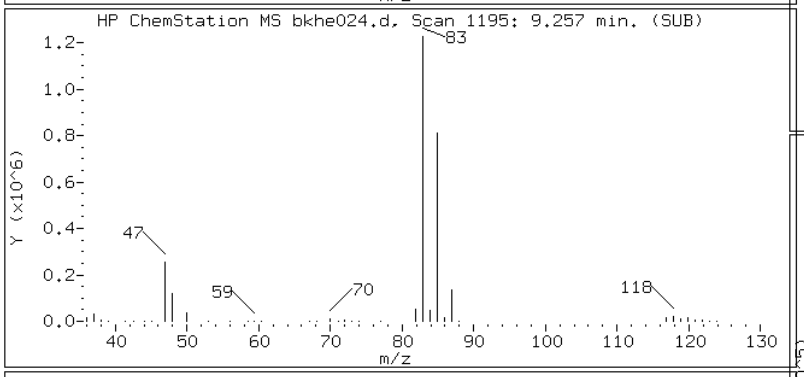
Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

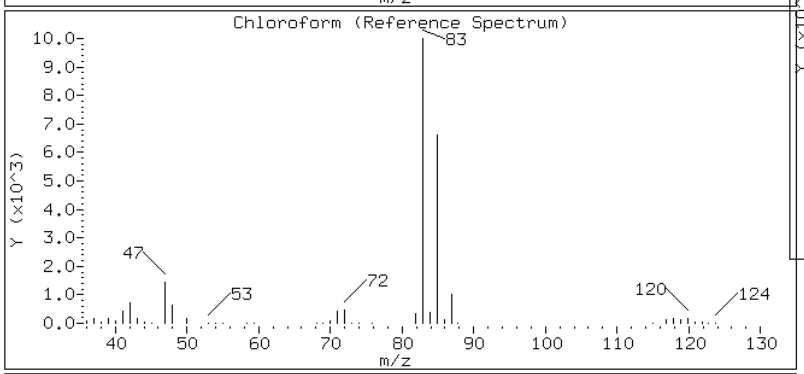
Client ID: SV-5 Instrument: B.i

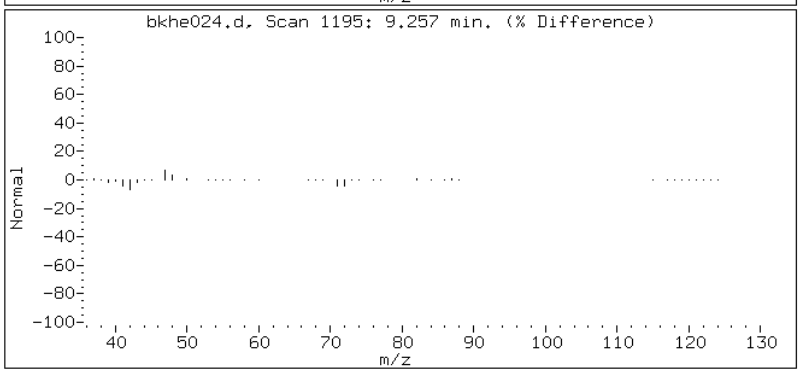
Sample Info: 200-6944-A-6 Operator: pad

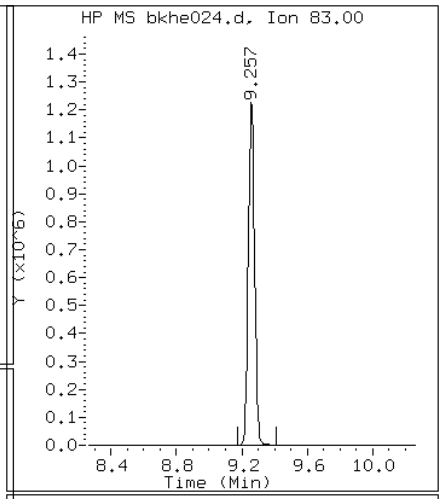
39 Chloroform

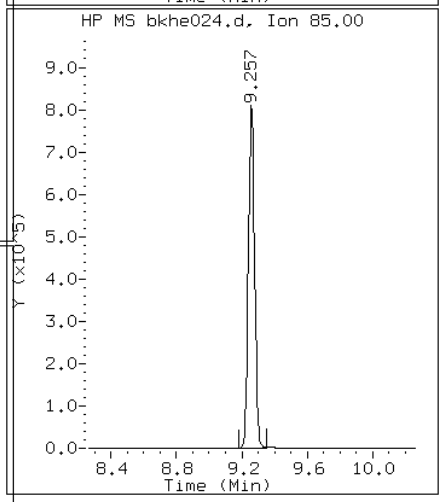












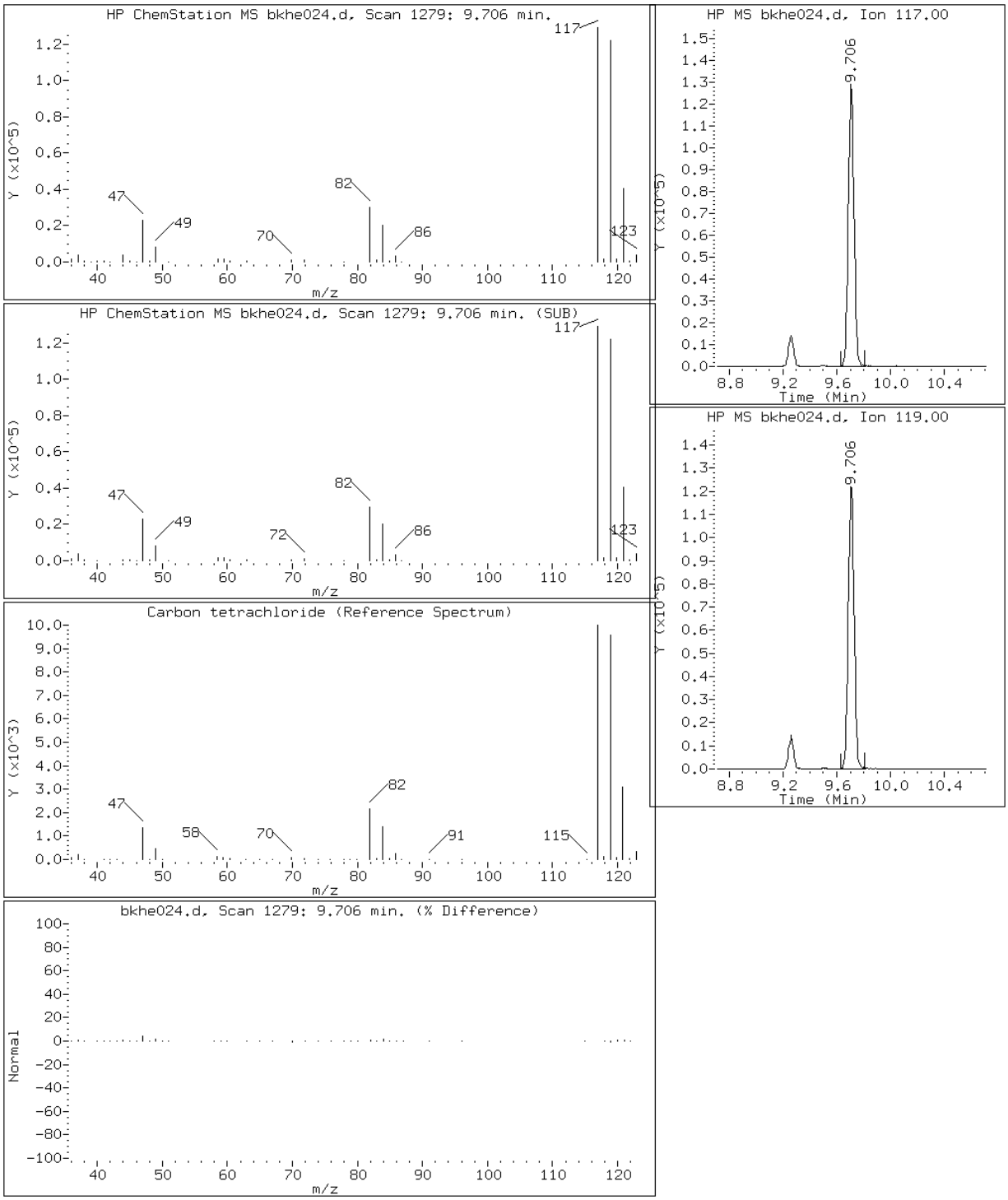
Data File: bkhe024.d

Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

Client ID: SV-5 Instrument: B.i

Sample Info: 200-6944-A-6 Operator: pad

42 Carbon tetrachloride



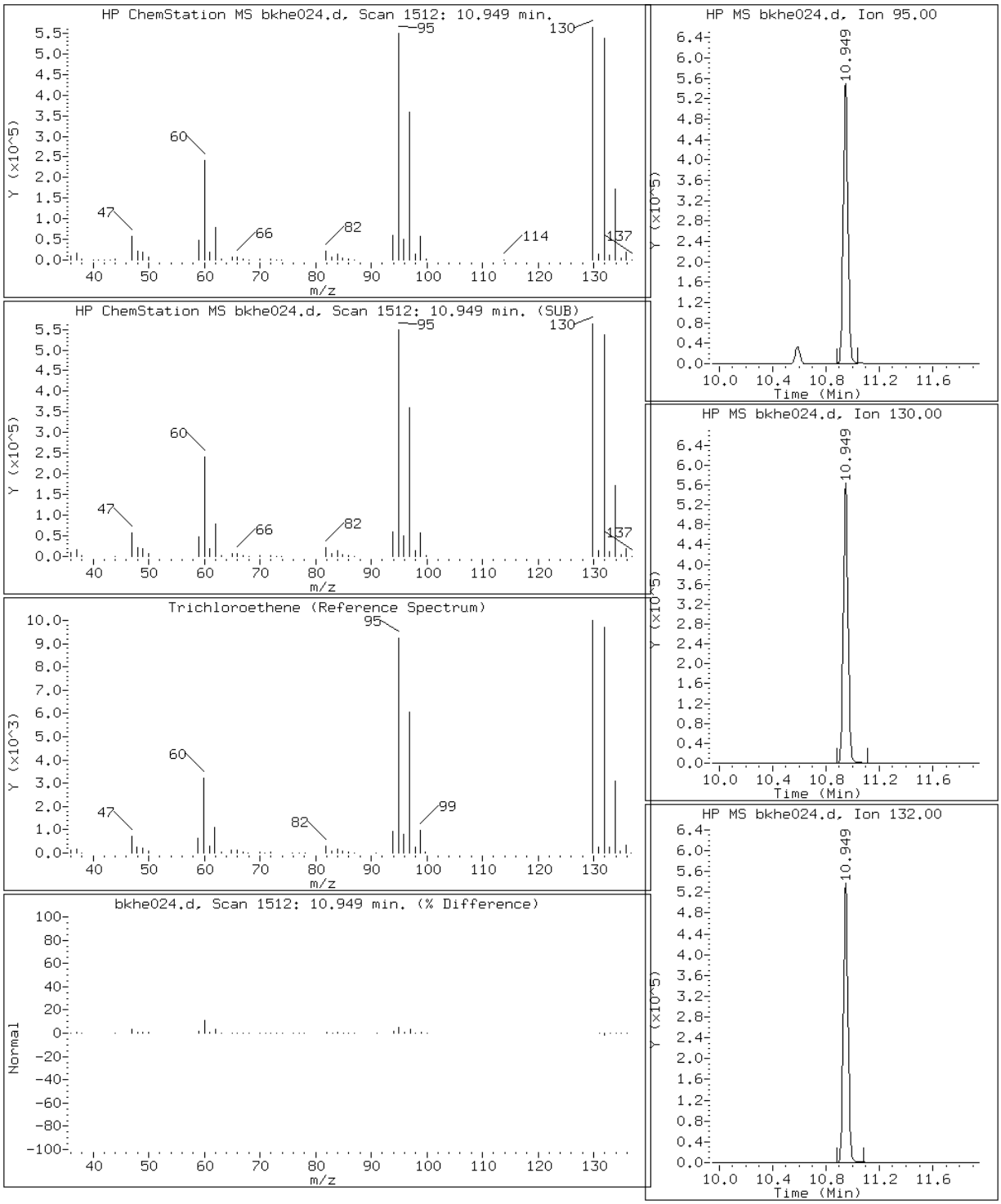
Data File: bkhe024.d

Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

Client ID: SV-5 Instrument: B.i

Sample Info: 200-6944-A-6 Operator: pad

49 Trichloroethene



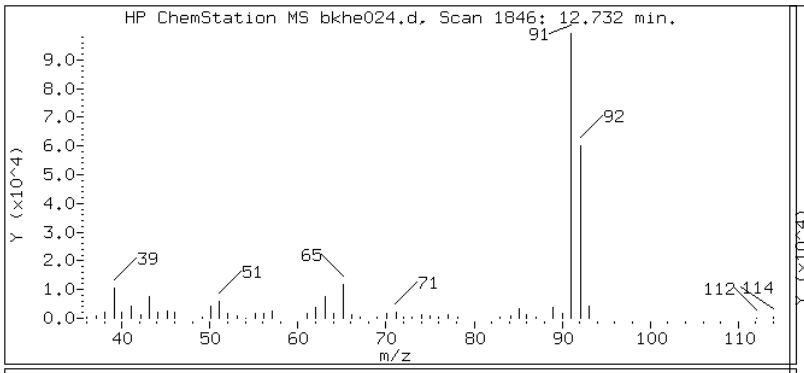
Data File: bkhe024.d

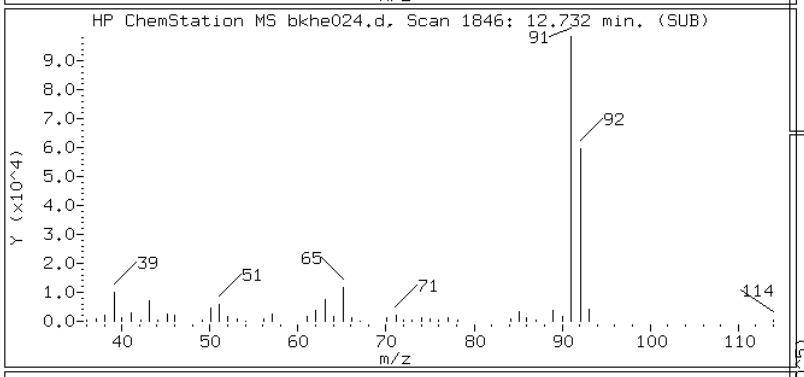
Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

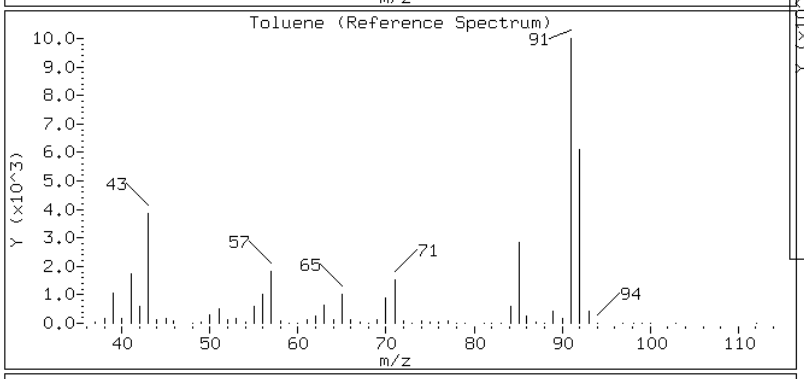
Client ID: SV-5 Instrument: B.i

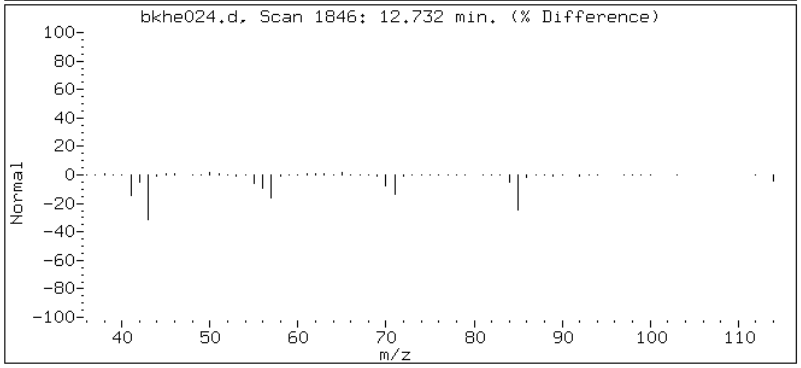
Sample Info: 200-6944-A-6 Operator: pad

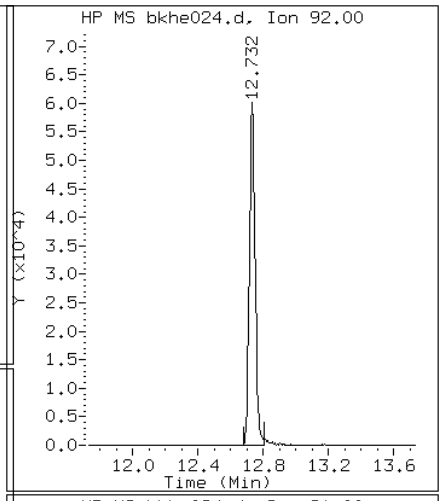
58 Toluene

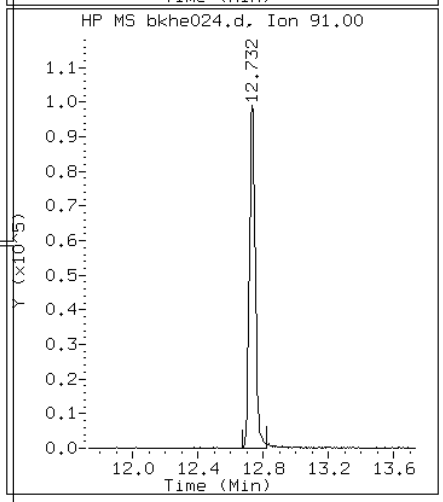












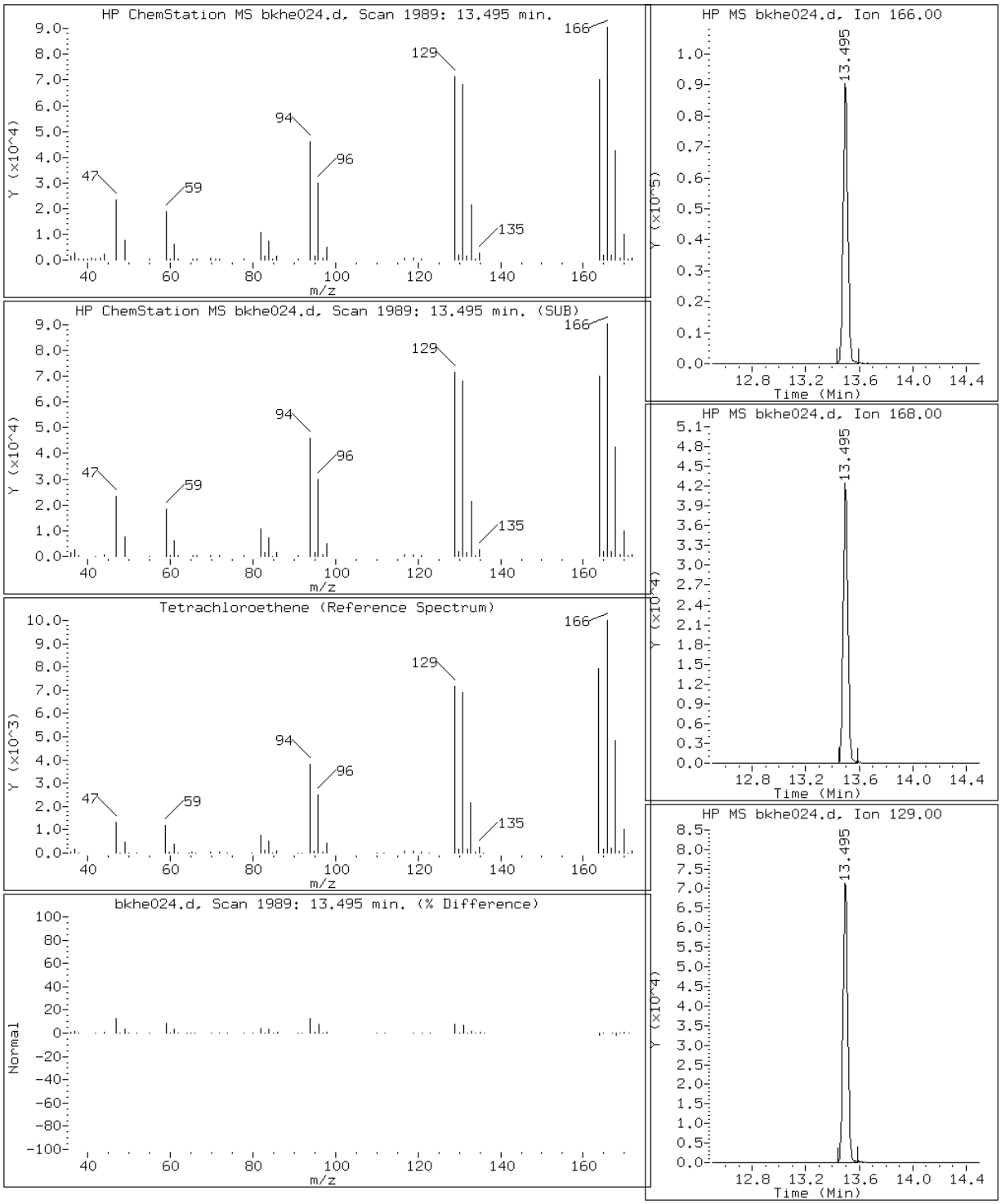
Data File: bkhe024.d

Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

Client ID: SV-5 Instrument: B.i

Sample Info: 200-6944-A-6 Operator: pad

61 Tetrachloroethene



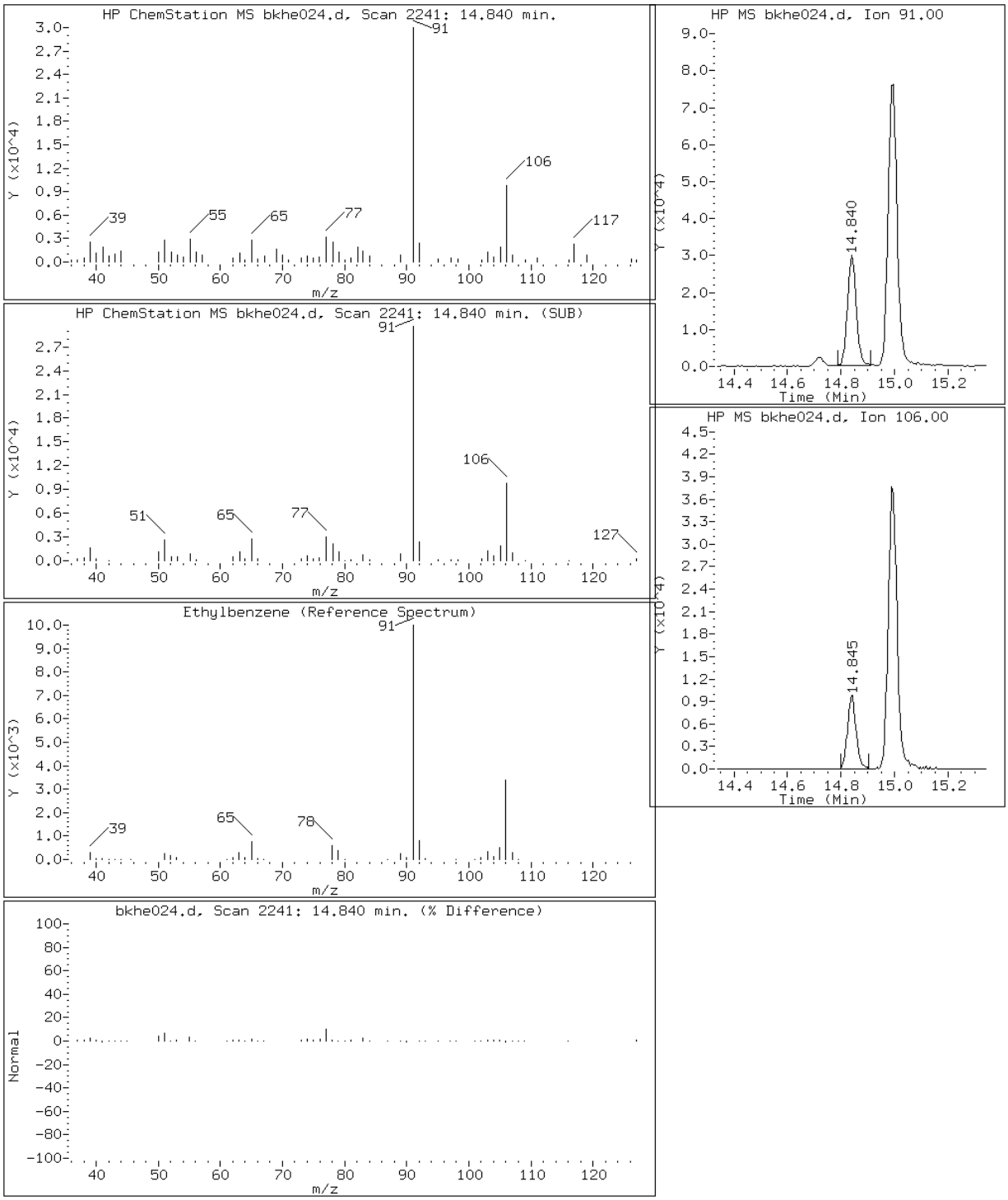
Data File: bkhe024.d

Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

Client ID: SV-5 Instrument: B.i

Sample Info: 200-6944-A-6 Operator: pad

68 Ethylbenzene



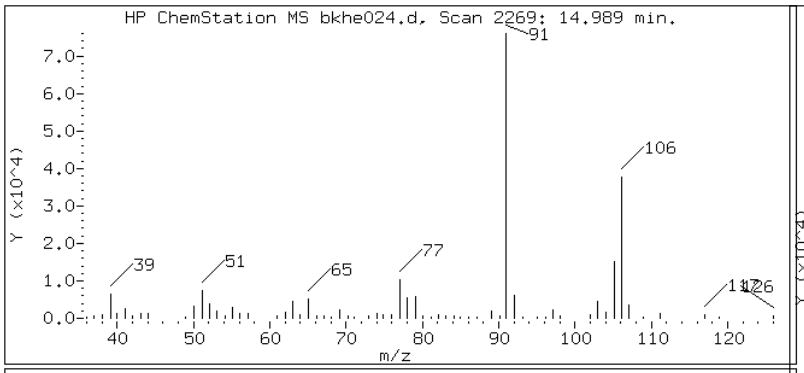
Data File: bkhe024.d

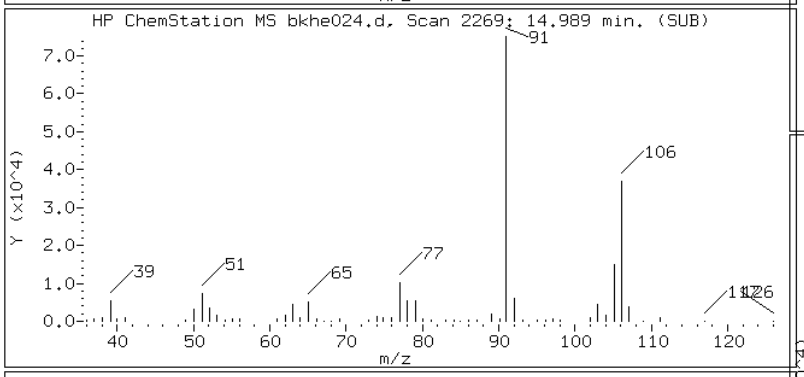
Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

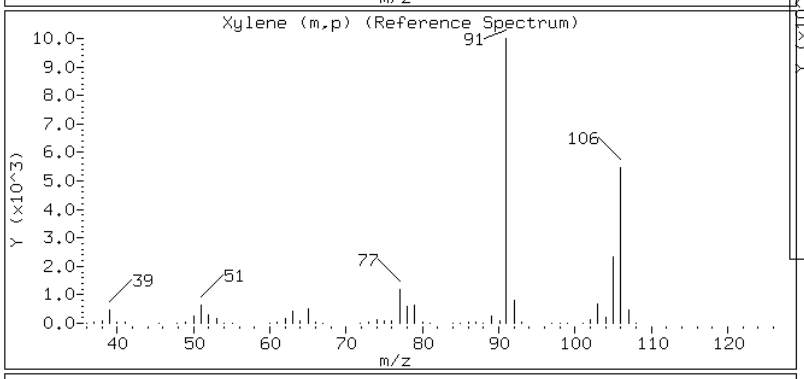
Client ID: SV-5 Instrument: B.i

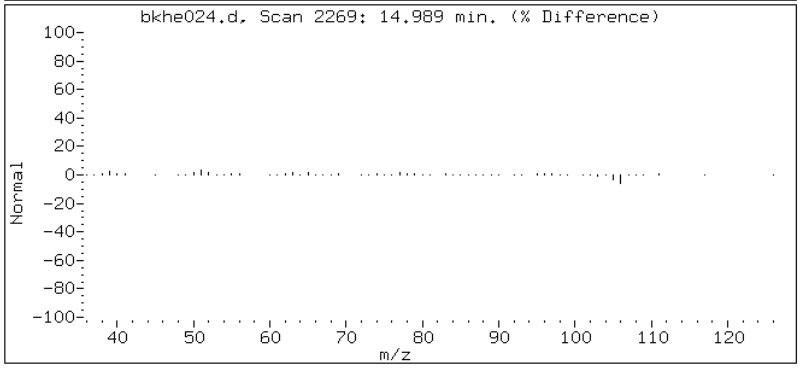
Sample Info: 200-6944-A-6 Operator: pad

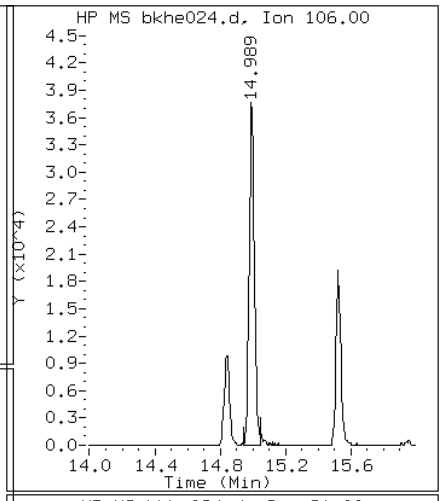
69 Xylene (m,p)

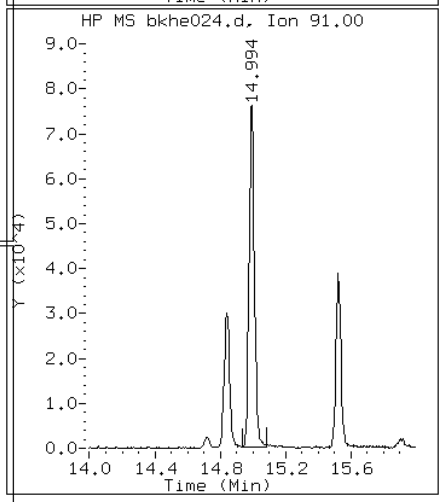












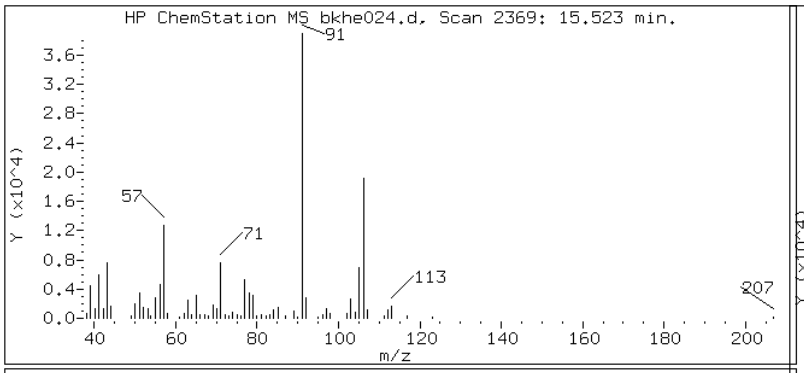
Data File: bkhe024.d

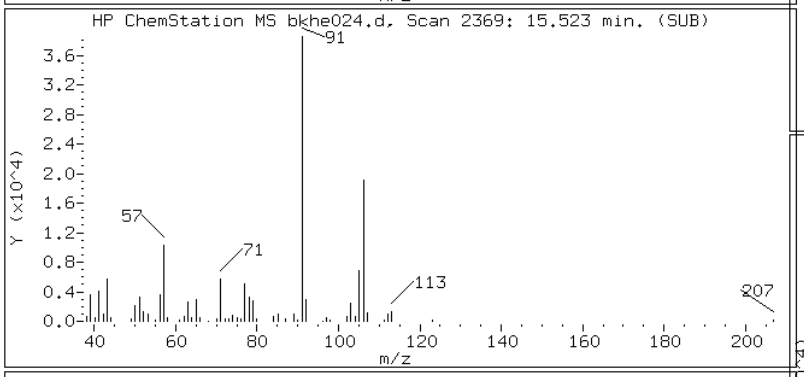
Lab Sample ID: 200-6944-6 Date: 22-SEP-2011 07:27

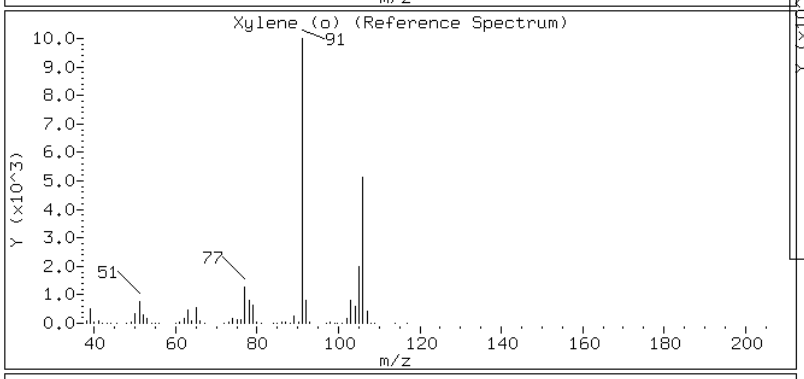
Client ID: SV-5 Instrument: B.i

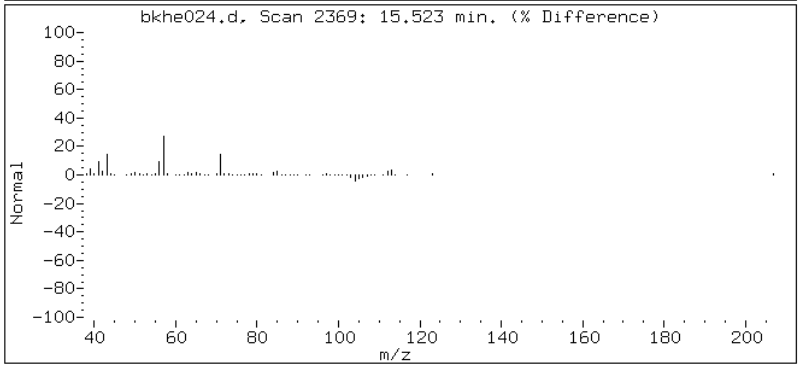
Sample Info: 200-6944-A-6 Operator: pad

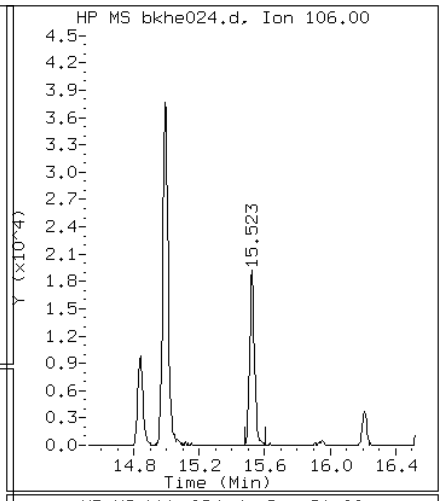
71 Xylene (o)

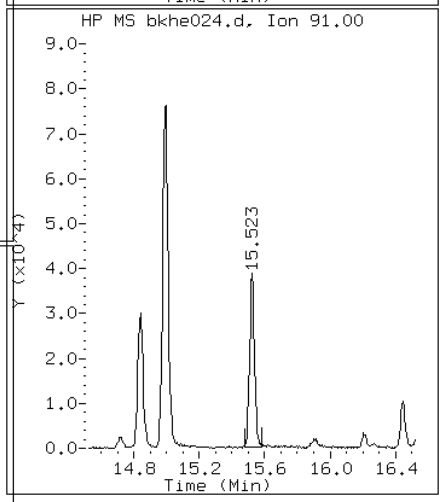












Manual Integration Report

Data File: bkhe024.d
Lab Sample ID: 200-6944-6
Inj. Date and Time: 22-SEP-2011 07:27
Instrument ID: B.i
Client ID: SV-5
Compound: 43 2,2,4-Trimethylpentane
CAS #: 540-84-1
Report Date: 09/23/2011

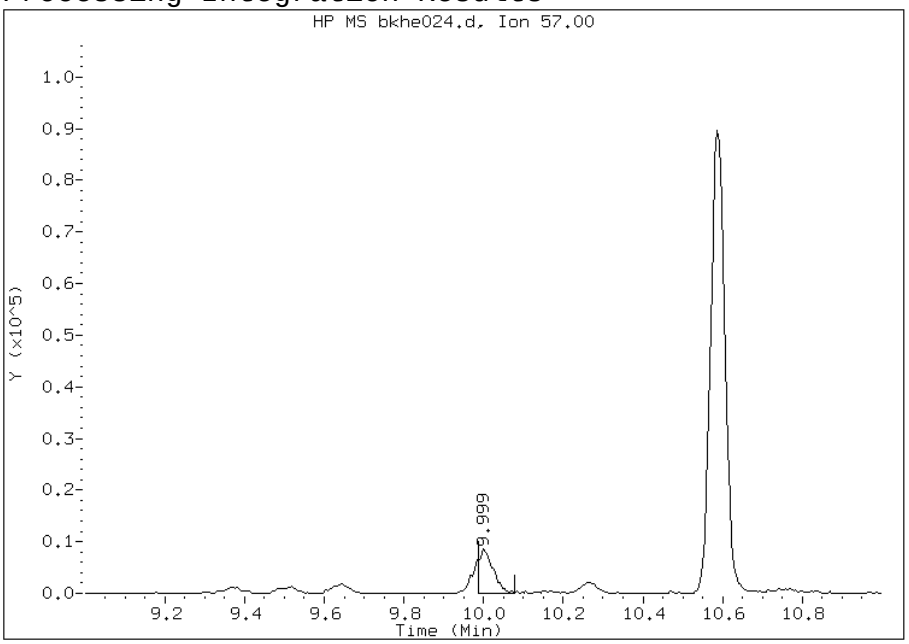
Processing Integration Results

RT: 10.00

Response: 20564

Amount: 0.080536

Conc: 0.805363



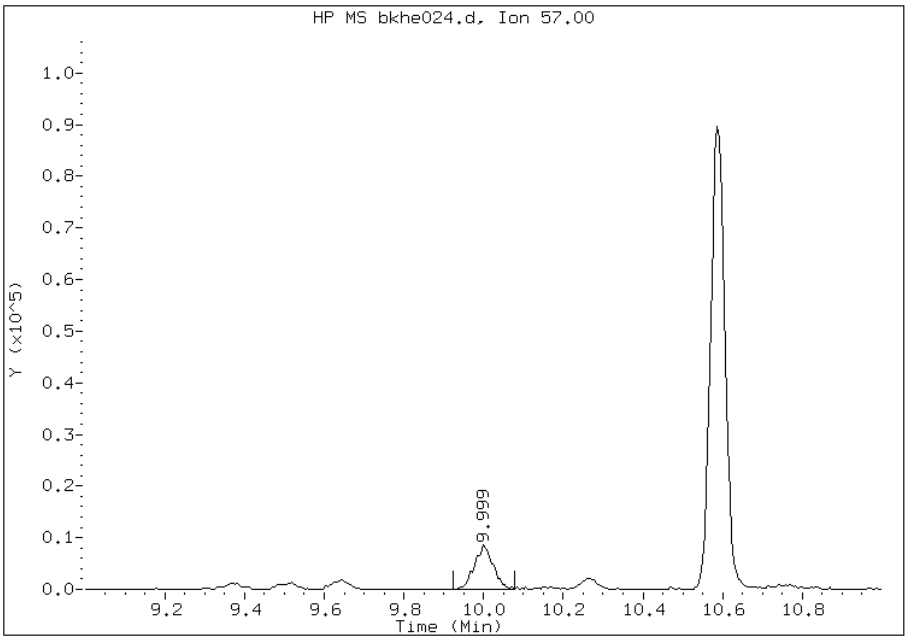
Manual Integration Results

RT: 10.00

Response: 28042

Amount: 0.109823

Conc: 1.10



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: bkhe024.d
Lab Sample ID: 200-6944-6
Inj. Date and Time: 22-SEP-2011 07:27
Instrument ID: B.i
Client ID: SV-5
Compound: 79 4-Ethyltoluene
CAS #: 622-96-8
Report Date: 09/23/2011

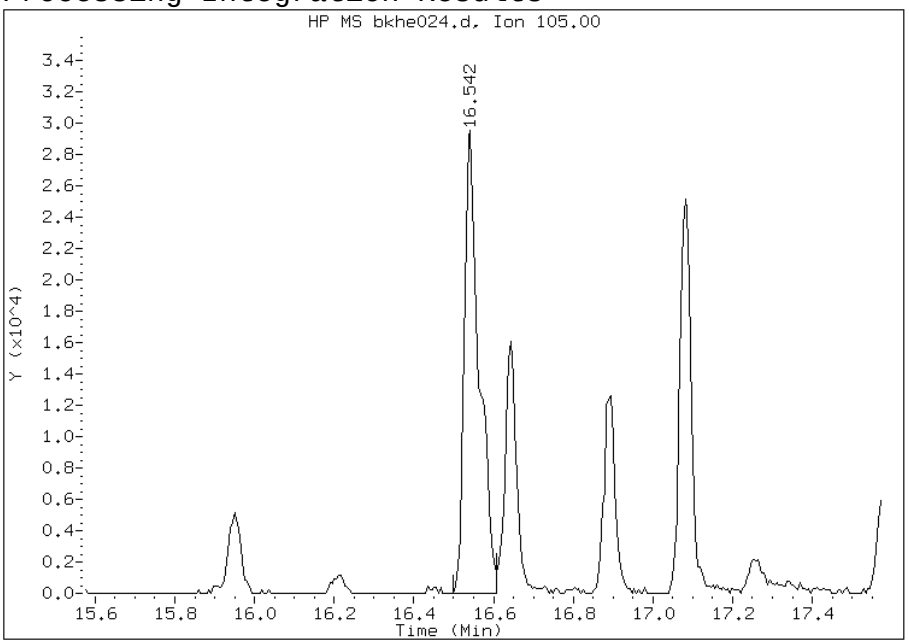
Processing Integration Results

RT: 16.54

Response: 77324

Amount: 0.226087

Conc: 2.26



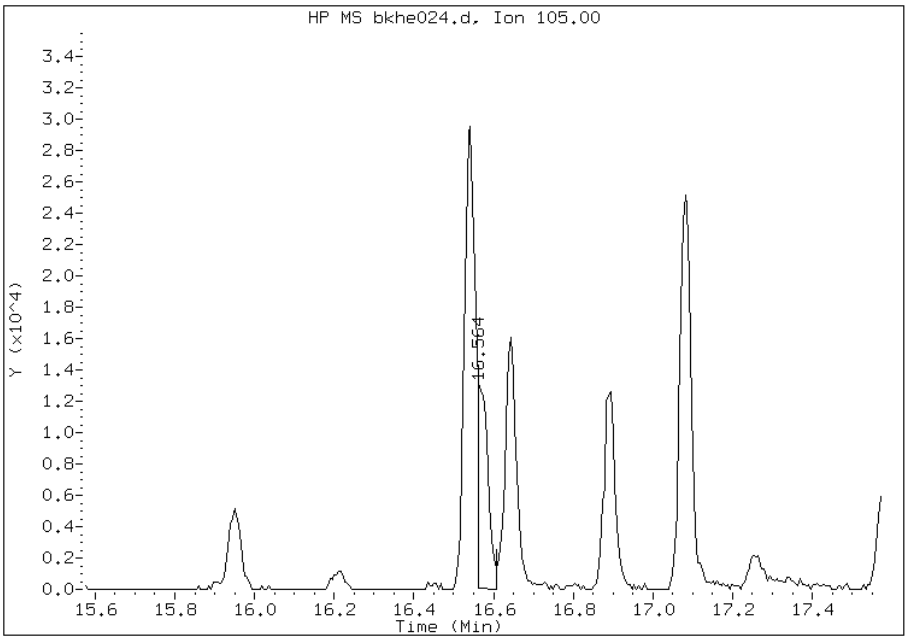
Manual Integration Results

RT: 16.56

Response: 21977

Amount: 0.064258

Conc: 0.642583



File Uploaded By: wrd
Manual Integration Reason: Baseline event

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-6 Lab Sample ID: 200-6944-7

Matrix: Air Lab File ID: bkhe025.d

Analysis Method: TO-15 Date Collected: 09/09/2011 18:23

Sample wt/vol: 29(mL) Date Analyzed: 09/22/2011 08:19

Soil Aliquot Vol: Dilution Factor: 13.9

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	7.0	U	7.0	7.0
75-45-6	Freon 22	86.47	7.0	U	7.0	7.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.8	U	2.8	2.8
74-87-3	Chloromethane	50.49	7.0	U	7.0	7.0
106-97-8	n-Butane	58.12	11		7.0	7.0
75-01-4	Vinyl chloride	62.50	2.8	U	2.8	2.8
106-99-0	1,3-Butadiene	54.09	2.8	U	2.8	2.8
74-83-9	Bromomethane	94.94	2.8	U	2.8	2.8
75-00-3	Chloroethane	64.52	7.0	U	7.0	7.0
593-60-2	Bromoethene(Vinyl Bromide)	106.96	2.8	U	2.8	2.8
75-69-4	Trichlorofluoromethane	137.37	2.8	U	2.8	2.8
76-13-1	Freon TF	187.38	2.8	U	2.8	2.8
75-35-4	1,1-Dichloroethene	96.94	2.8	U	2.8	2.8
67-64-1	Acetone	58.08	470		70	70
67-63-0	Isopropyl alcohol	60.10	70	U	70	70
75-15-0	Carbon disulfide	76.14	81		7.0	7.0
107-05-1	3-Chloropropene	76.53	7.0	U	7.0	7.0
75-09-2	Methylene Chloride	84.93	7.0	U	7.0	7.0
75-65-0	tert-Butyl alcohol	74.12	70	U	70	70
1634-04-4	Methyl tert-butyl ether	88.15	2.8	U	2.8	2.8
156-60-5	trans-1,2-Dichloroethene	96.94	2.8	U	2.8	2.8
110-54-3	n-Hexane	86.17	2.8		2.8	2.8
75-34-3	1,1-Dichloroethane	98.96	2.8	U	2.8	2.8
78-93-3	Methyl Ethyl Ketone	72.11	19		7.0	7.0
156-59-2	cis-1,2-Dichloroethene	96.94	2.8	U	2.8	2.8
540-59-0	1,2-Dichloroethene, Total	96.94	2.8	U	2.8	2.8
67-66-3	Chloroform	119.38	7.1		2.8	2.8
109-99-9	Tetrahydrofuran	72.11	70	U	70	70
71-55-6	1,1,1-Trichloroethane	133.41	2.8	U	2.8	2.8
110-82-7	Cyclohexane	84.16	2.8	U	2.8	2.8
56-23-5	Carbon tetrachloride	153.81	2.8	U	2.8	2.8
540-84-1	2,2,4-Trimethylpentane	114.23	2.8	U	2.8	2.8
71-43-2	Benzene	78.11	2.8	U	2.8	2.8
107-06-2	1,2-Dichloroethane	98.96	2.8	U	2.8	2.8
142-82-5	n-Heptane	100.21	2.8	U	2.8	2.8

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-6 Lab Sample ID: 200-6944-7

Matrix: Air Lab File ID: bkhe025.d

Analysis Method: TO-15 Date Collected: 09/09/2011 18:23

Sample wt/vol: 29(mL) Date Analyzed: 09/22/2011 08:19

Soil Aliquot Vol: Dilution Factor: 13.9

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	2.8	U	2.8	2.8
80-62-6	Methyl methacrylate	100.12	7.0	U	7.0	7.0
78-87-5	1,2-Dichloropropane	112.99	2.8	U	2.8	2.8
123-91-1	1,4-Dioxane	88.11	70	U	70	70
75-27-4	Bromodichloromethane	163.83	2.8	U	2.8	2.8
10061-01-5	cis-1,3-Dichloropropene	110.97	2.8	U	2.8	2.8
108-10-1	methyl isobutyl ketone	100.16	7.0	U	7.0	7.0
108-88-3	Toluene	92.14	12		2.8	2.8
10061-02-6	trans-1,3-Dichloropropene	110.97	2.8	U	2.8	2.8
79-00-5	1,1,2-Trichloroethane	133.41	2.8	U	2.8	2.8
127-18-4	Tetrachloroethene	165.83	24		2.8	2.8
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	7.0	U	7.0	7.0
124-48-1	Dibromochloromethane	208.29	2.8	U	2.8	2.8
106-93-4	1,2-Dibromoethane	187.87	2.8	U	2.8	2.8
108-90-7	Chlorobenzene	112.30	2.8	U	2.8	2.8
100-41-4	Ethylbenzene	106.17	4.3		2.8	2.8
179601-23-1	m,p-Xylene	106.17	14		7.0	7.0
95-47-6	Xylene, o-	106.17	7.7		2.8	2.8
1330-20-7	Xylene (total)	106.17	22		2.8	2.8
100-42-5	Styrene	104.15	2.8	U	2.8	2.8
75-25-2	Bromoform	252.75	2.8	U	2.8	2.8
98-82-8	Cumene	120.19	2.8		2.8	2.8
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.8	U	2.8	2.8
103-65-1	n-Propylbenzene	120.19	2.8	U	2.8	2.8
622-96-8	4-Ethyltoluene	120.20	2.8	U	2.8	2.8
108-67-8	1,3,5-Trimethylbenzene	120.20	5.2		2.8	2.8
95-49-8	2-Chlorotoluene	126.59	2.8	U	2.8	2.8
98-06-6	tert-Butylbenzene	134.22	2.8	U	2.8	2.8
95-63-6	1,2,4-Trimethylbenzene	120.20	6.4		2.8	2.8
135-98-8	sec-Butylbenzene	134.22	2.8	U	2.8	2.8
99-87-6	4-Isopropyltoluene	134.22	2.8	U	2.8	2.8
541-73-1	1,3-Dichlorobenzene	147.00	2.8	U	2.8	2.8
106-46-7	1,4-Dichlorobenzene	147.00	2.8	U	2.8	2.8
100-44-7	Benzyl chloride	126.58	2.8	U	2.8	2.8
104-51-8	n-Butylbenzene	134.22	2.8	U	2.8	2.8

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-6 Lab Sample ID: 200-6944-7

Matrix: Air Lab File ID: bkhe025.d

Analysis Method: TO-15 Date Collected: 09/09/2011 18:23

Sample wt/vol: 29(mL) Date Analyzed: 09/22/2011 08:19

Soil Aliquot Vol: Dilution Factor: 13.9

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	2.8	U	2.8	2.8
120-82-1	1,2,4-Trichlorobenzene	181.45	7.0	U	7.0	7.0
87-68-3	Hexachlorobutadiene	260.76	2.8	U	2.8	2.8
91-20-3	Naphthalene	128.17	7.0	U	7.0	7.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-6 Lab Sample ID: 200-6944-7

Matrix: Air Lab File ID: bkhe025.d

Analysis Method: TO-15 Date Collected: 09/09/2011 18:23

Sample wt/vol: 29(mL) Date Analyzed: 09/22/2011 08:19

Soil Aliquot Vol: Dilution Factor: 13.9

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	34	U	34	34
75-45-6	Freon 22	86.47	25	U	25	25
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	19	U	19	19
74-87-3	Chloromethane	50.49	14	U	14	14
106-97-8	n-Butane	58.12	26		17	17
75-01-4	Vinyl chloride	62.50	7.1	U	7.1	7.1
106-99-0	1,3-Butadiene	54.09	6.2	U	6.2	6.2
74-83-9	Bromomethane	94.94	11	U	11	11
75-00-3	Chloroethane	64.52	18	U	18	18
593-60-2	Bromoethene(Vinyl Bromide)	106.96	12	U	12	12
75-69-4	Trichlorofluoromethane	137.37	16	U	16	16
76-13-1	Freon TF	187.38	21	U	21	21
75-35-4	1,1-Dichloroethene	96.94	11	U	11	11
67-64-1	Acetone	58.08	1100		170	170
67-63-0	Isopropyl alcohol	60.10	170	U	170	170
75-15-0	Carbon disulfide	76.14	250		22	22
107-05-1	3-Chloropropene	76.53	22	U	22	22
75-09-2	Methylene Chloride	84.93	24	U	24	24
75-65-0	tert-Butyl alcohol	74.12	210	U	210	210
1634-04-4	Methyl tert-butyl ether	88.15	10	U	10	10
156-60-5	trans-1,2-Dichloroethene	96.94	11	U	11	11
110-54-3	n-Hexane	86.17	9.9		9.8	9.8
75-34-3	1,1-Dichloroethane	98.96	11	U	11	11
78-93-3	Methyl Ethyl Ketone	72.11	56		20	20
156-59-2	cis-1,2-Dichloroethene	96.94	11	U	11	11
540-59-0	1,2-Dichloroethene, Total	96.94	11	U	11	11
67-66-3	Chloroform	119.38	35		14	14
109-99-9	Tetrahydrofuran	72.11	200	U	200	200
71-55-6	1,1,1-Trichloroethane	133.41	15	U	15	15
110-82-7	Cyclohexane	84.16	9.6	U	9.6	9.6
56-23-5	Carbon tetrachloride	153.81	17	U	17	17
540-84-1	2,2,4-Trimethylpentane	114.23	13	U	13	13
71-43-2	Benzene	78.11	8.9	U	8.9	8.9
107-06-2	1,2-Dichloroethane	98.96	11	U	11	11
142-82-5	n-Heptane	100.21	11	U	11	11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-6 Lab Sample ID: 200-6944-7

Matrix: Air Lab File ID: bkhe025.d

Analysis Method: TO-15 Date Collected: 09/09/2011 18:23

Sample wt/vol: 29(mL) Date Analyzed: 09/22/2011 08:19

Soil Aliquot Vol: Dilution Factor: 13.9

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	15	U	15	15
80-62-6	Methyl methacrylate	100.12	28	U	28	28
78-87-5	1,2-Dichloropropane	112.99	13	U	13	13
123-91-1	1,4-Dioxane	88.11	250	U	250	250
75-27-4	Bromodichloromethane	163.83	19	U	19	19
10061-01-5	cis-1,3-Dichloropropene	110.97	13	U	13	13
108-10-1	methyl isobutyl ketone	100.16	28	U	28	28
108-88-3	Toluene	92.14	44		10	10
10061-02-6	trans-1,3-Dichloropropene	110.97	13	U	13	13
79-00-5	1,1,2-Trichloroethane	133.41	15	U	15	15
127-18-4	Tetrachloroethene	165.83	160		19	19
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	28	U	28	28
124-48-1	Dibromochloromethane	208.29	24	U	24	24
106-93-4	1,2-Dibromoethane	187.87	21	U	21	21
108-90-7	Chlorobenzene	112.30	13	U	13	13
100-41-4	Ethylbenzene	106.17	19		12	12
179601-23-1	m,p-Xylene	106.17	61		30	30
95-47-6	Xylene, o-	106.17	33		12	12
1330-20-7	Xylene (total)	106.17	94		12	12
100-42-5	Styrene	104.15	12	U	12	12
75-25-2	Bromoform	252.75	29	U	29	29
98-82-8	Cumene	120.19	14		14	14
79-34-5	1,1,2,2-Tetrachloroethane	167.85	19	U	19	19
103-65-1	n-Propylbenzene	120.19	14	U	14	14
622-96-8	4-Ethyltoluene	120.20	14	U	14	14
108-67-8	1,3,5-Trimethylbenzene	120.20	25		14	14
95-49-8	2-Chlorotoluene	126.59	14	U	14	14
98-06-6	tert-Butylbenzene	134.22	15	U	15	15
95-63-6	1,2,4-Trimethylbenzene	120.20	32		14	14
135-98-8	sec-Butylbenzene	134.22	15	U	15	15
99-87-6	4-Isopropyltoluene	134.22	15	U	15	15
541-73-1	1,3-Dichlorobenzene	147.00	17	U	17	17
106-46-7	1,4-Dichlorobenzene	147.00	17	U	17	17
100-44-7	Benzyl chloride	126.58	14	U	14	14
104-51-8	n-Butylbenzene	134.22	15	U	15	15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: SV-6 Lab Sample ID: 200-6944-7

Matrix: Air Lab File ID: bkhe025.d

Analysis Method: TO-15 Date Collected: 09/09/2011 18:23

Sample wt/vol: 29(mL) Date Analyzed: 09/22/2011 08:19

Soil Aliquot Vol: Dilution Factor: 13.9

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	17	U	17	17
120-82-1	1,2,4-Trichlorobenzene	181.45	52	U	52	52
87-68-3	Hexachlorobutadiene	260.76	30	U	30	30
91-20-3	Naphthalene	128.17	36	U	36	36

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-6944-7
Client Smp ID: SV-6
Inj Date : 22-SEP-2011 08:19
Operator : pad Inst ID: B.i
Smp Info : 200-6944-A-7@2.01
Misc Info : 29,13.9, all74 cdf 2.01
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/to15v5.m
Meth Date : 23-Sep-2011 09:43 wrd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 7
Dil Factor: 13.90000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	13.90000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	29.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	3.034	3.034	(0.331)	6488	0.06704	0.93(a)
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	3.333	3.333	(0.363)	2040	0.10563	1.5(a)
6 Butane	43	3.472	3.477	(0.378)	25388	0.78703	11(Q)
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	4.326	4.315	(0.471)	3613	0.16337	2.3(aM)
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	4.780	4.785	(0.521)	7811	0.04965	0.69(a)
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.023	6.023	(0.656)	2431921	33.7087	470

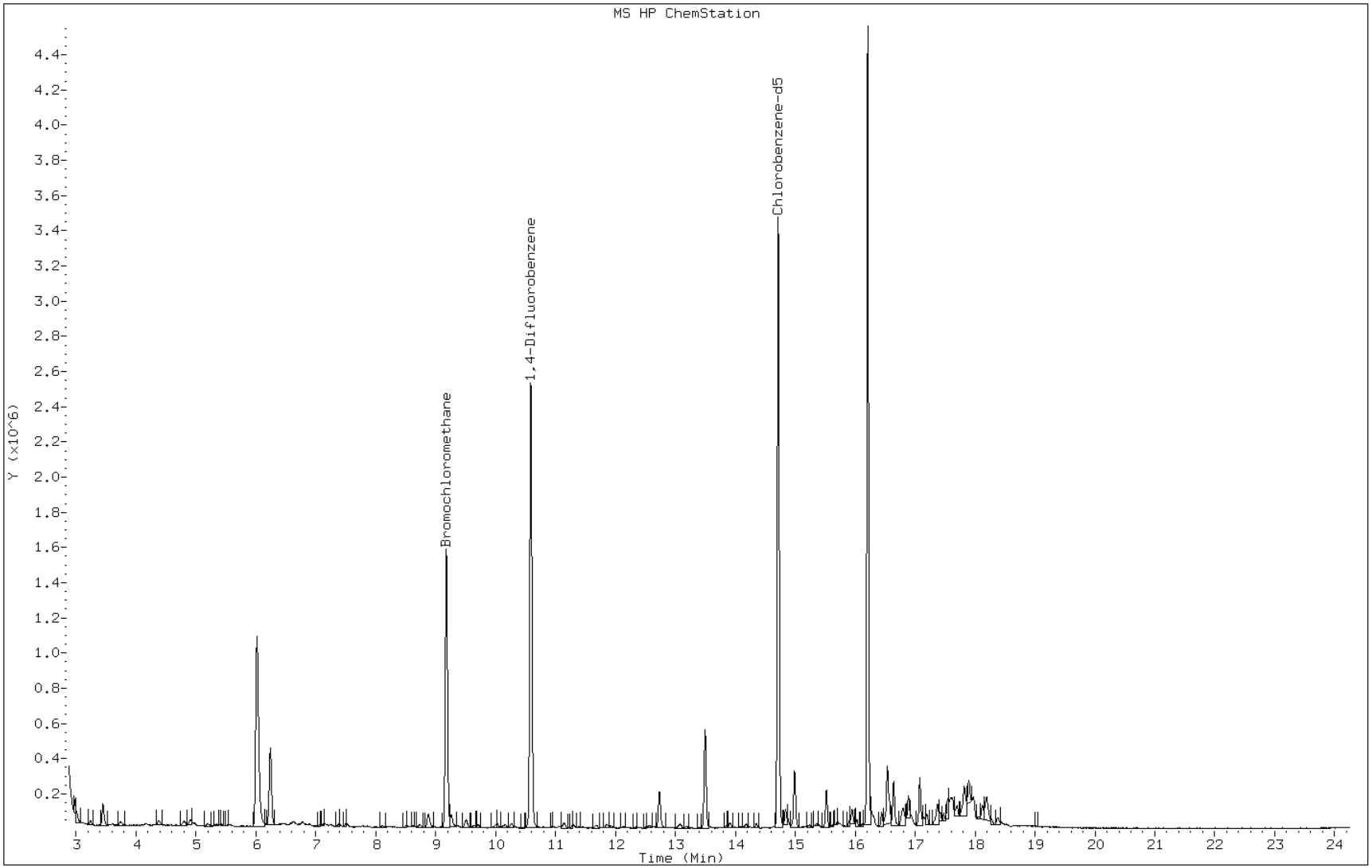
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	21 Carbon disulfide	76	6.247	6.247	(0.681)	923017	5.81009	81
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.781	6.781	(0.739)	4414	0.08637	1.2(aQ)
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.523	7.512	(0.820)	16997	0.20113	2.8
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	8.878	8.836	(0.967)	40681	1.35874	19(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	584068	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	9.263	9.263	(1.009)	61436	0.50860	7.1
	40 Cyclohexane	84	9.508	9.513	(0.898)	9651	0.11064	1.5(aQ)
	41 1,1,1-Trichloroethane	97	9.503	9.508	(0.898)	23371	0.17066	2.4(a)
	42 Carbon tetrachloride	117	9.700	9.711	(0.916)	15549	0.10306	1.4(a)
	43 2,2,4-Trimethylpentane	57	9.994	9.999	(0.944)	18461	0.07054	0.98(a)
	44 Benzene	78	10.036	10.031	(0.948)	22090	0.12105	1.7(a)
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	10.261	10.266	(0.969)	13702	0.14895	2.1(a)
*	47 1,4-Difluorobenzene	114	10.586	10.592	(1.000)	2831898	10.0000	
	49 Trichloroethene	95	10.954	10.949	(1.035)	6266	0.07334	1.0(aQM)
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	12.577	12.497	(1.188)	16899	0.16006	2.2(a)
	58 Toluene	92	12.737	12.732	(0.865)	115888	0.83069	12
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	220291	1.70288	24
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	2551248	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	14.840	14.840	(1.008)	93911	0.30751	4.3
	69 Xylene (m,p)	106	14.989	14.994	(1.018)	125436	1.00301	14
M	70 Xylenes, Total	106				193975	1.55456	22
	71 Xylene (o)	106	15.523	15.523	(1.055)	68539	0.55155	7.7
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	15.950	15.950	(1.084)	71360	0.19818	2.8
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
76 n-Propylbenzene	91	16.446	16.441	(1.117)	68268	0.16998	2.4(a)
79 4-Ethyltoluene	105	16.569	16.574	(1.126)	48116	0.13253	1.8(aM)
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	16.644	16.644	(1.131)	113635	0.37189	5.2
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	17.081	17.081	(1.161)	140440	0.46234	6.4
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	bkhe025.d	Date:	22-SEP-2011 08:19
Client ID:	SV-6	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-6944-A-7@2.01		
Lab Sample ID:	200-6944-7		



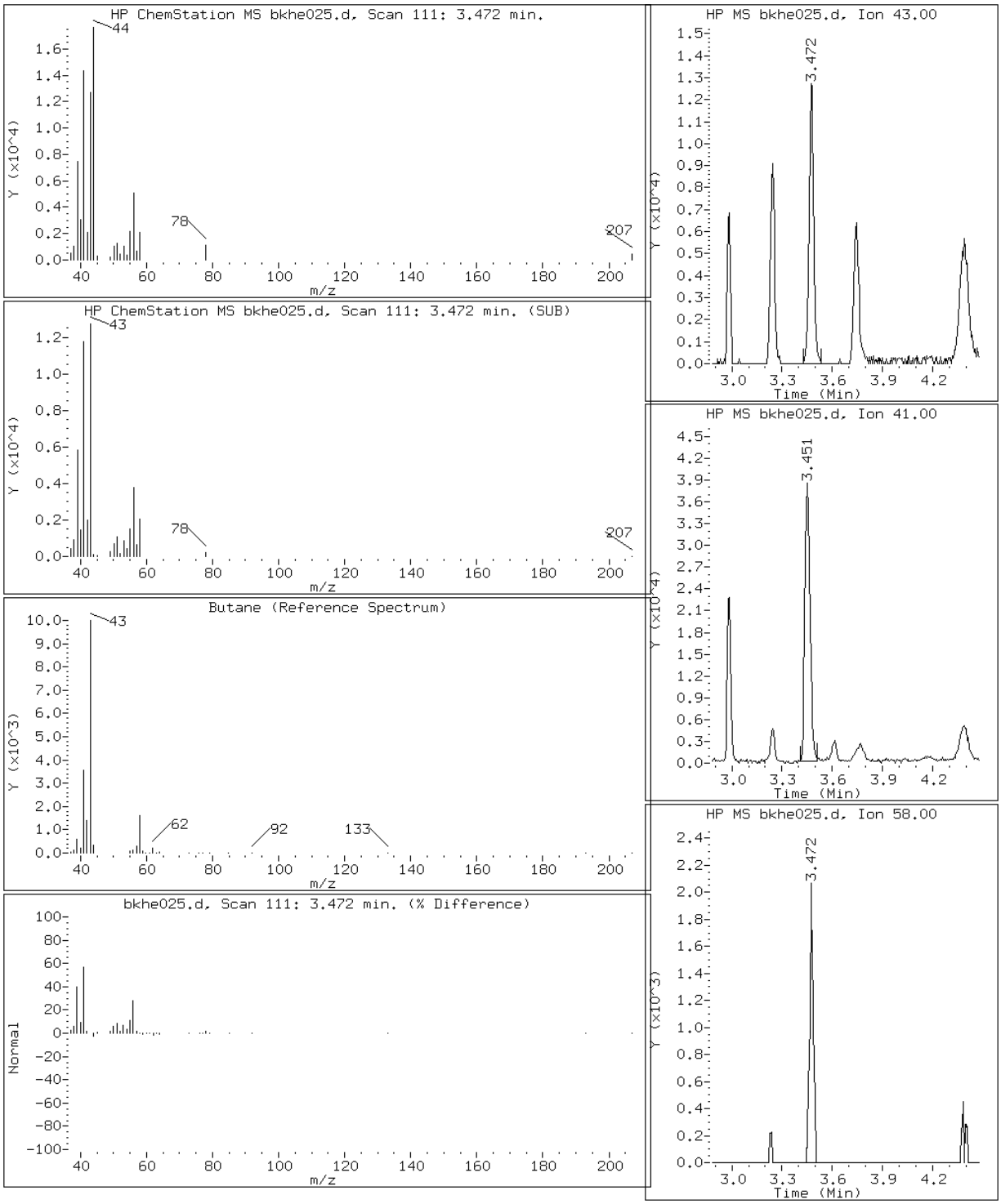
Data File: bkhe025.d

Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

Client ID: SV-6 Instrument: B.i

Sample Info: 200-6944-A-7@2.01 Operator: pad

6 Butane



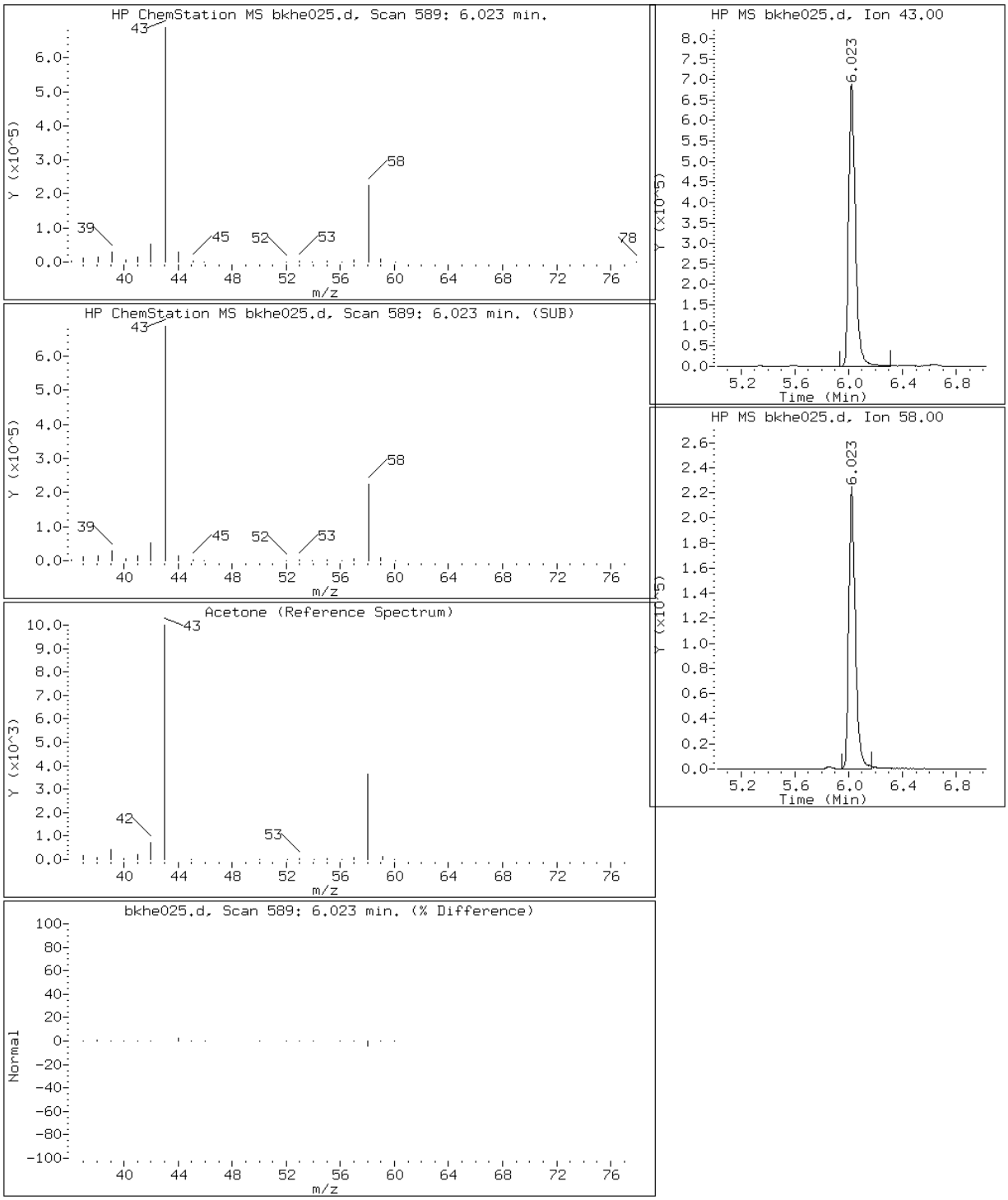
Data File: bkhe025.d

Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

Client ID: SV-6 Instrument: B.i

Sample Info: 200-6944-A-7@2.01 Operator: pad

20 Acetone



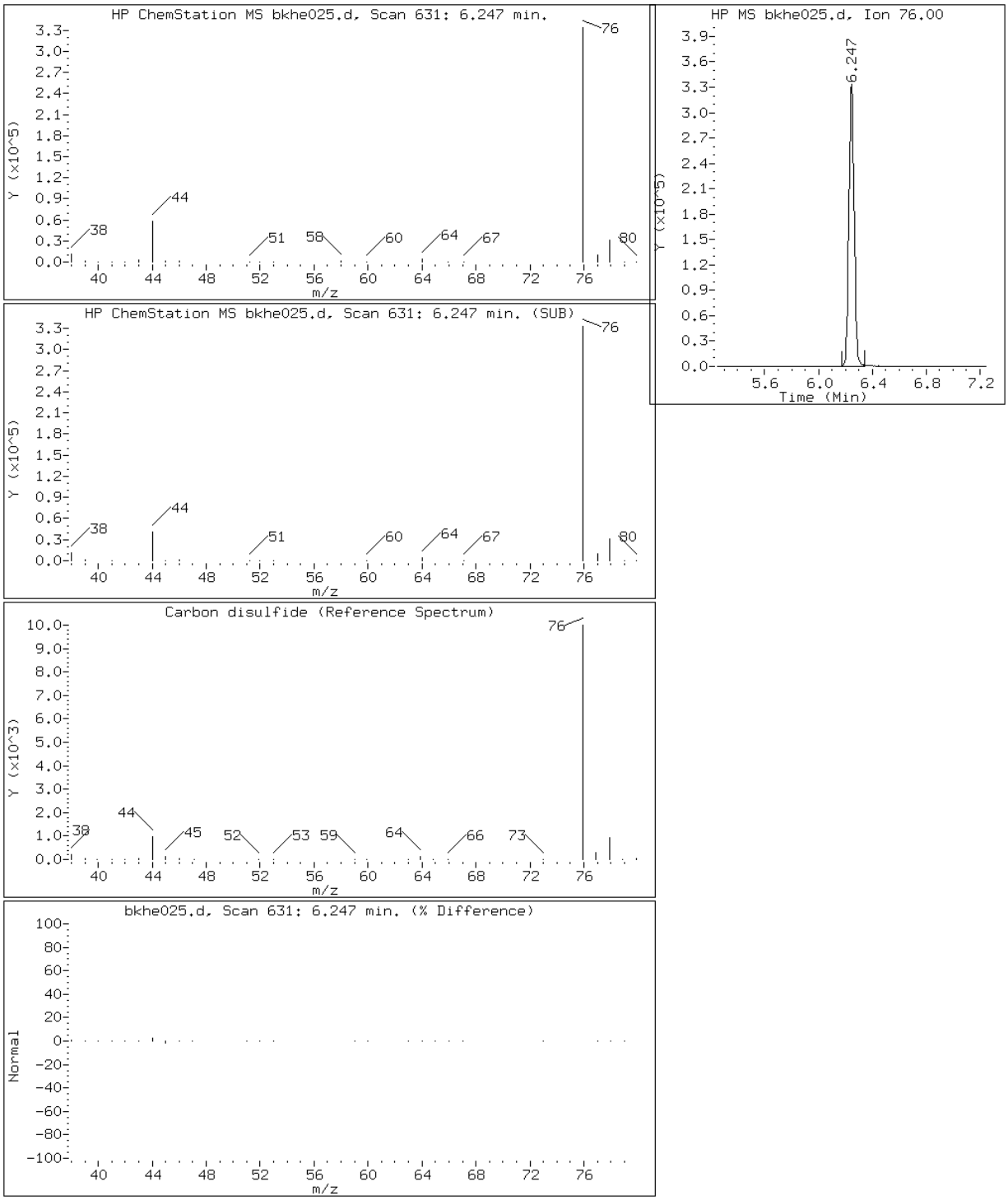
Data File: bkhe025.d

Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

Client ID: SV-6 Instrument: B.i

Sample Info: 200-6944-A-7@2.01 Operator: pad

21 Carbon disulfide



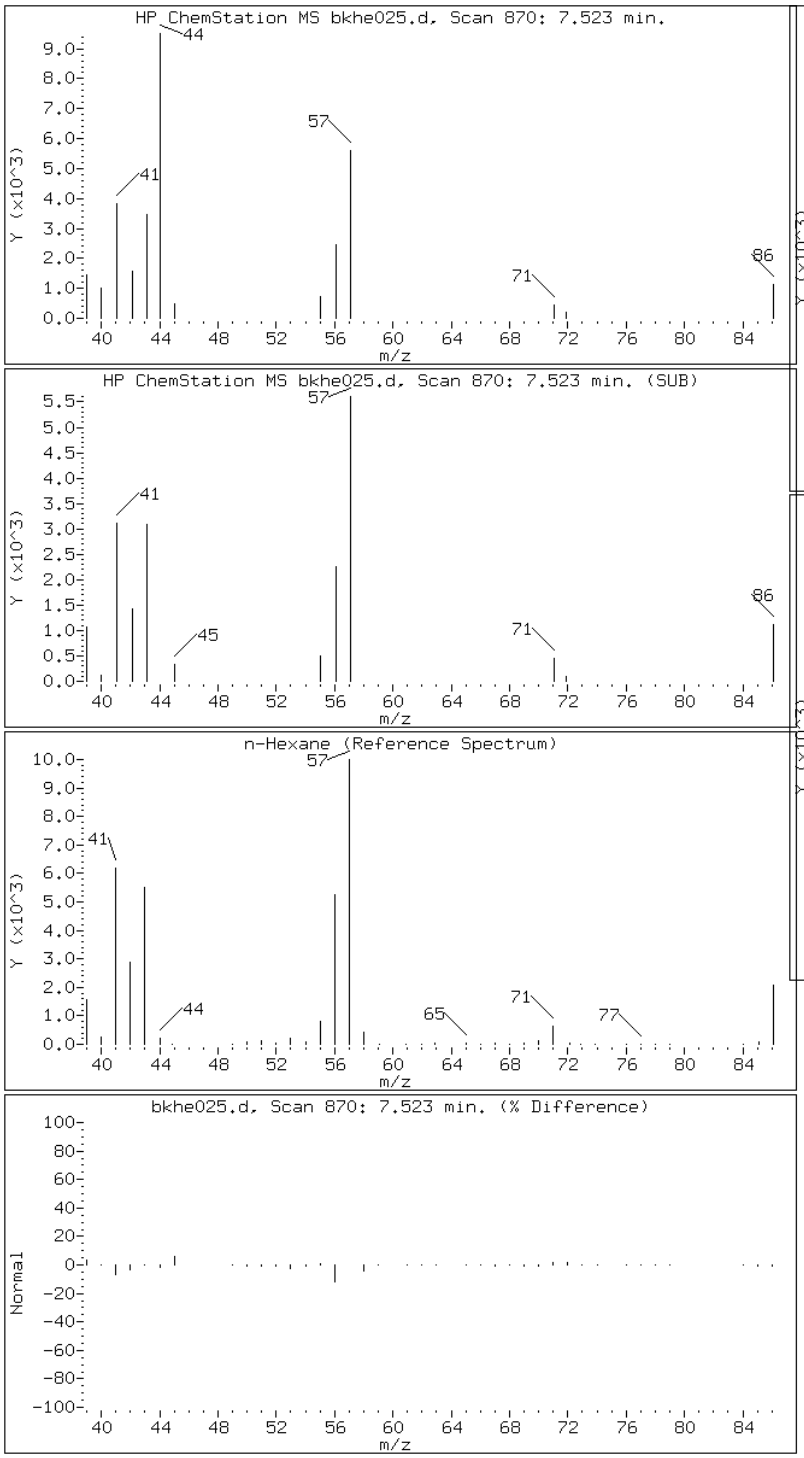
Data File: bkhe025.d

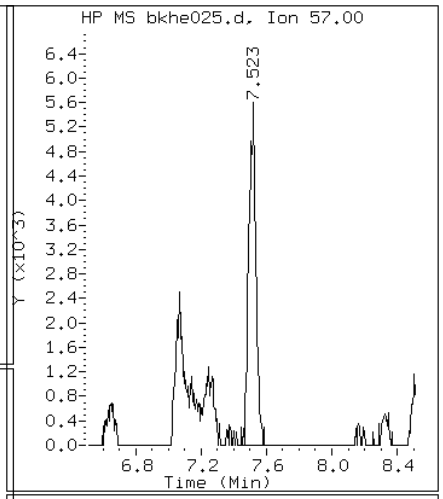
Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

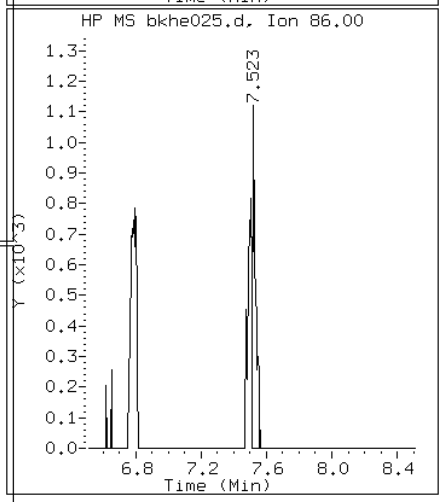
Client ID: SV-6 Instrument: B.i

Sample Info: 200-6944-A-7@2.01 Operator: pad

30 n-Hexane







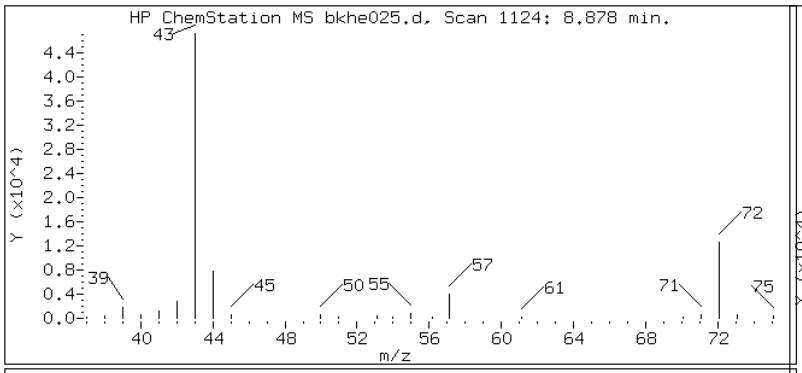
Data File: bkhe025.d

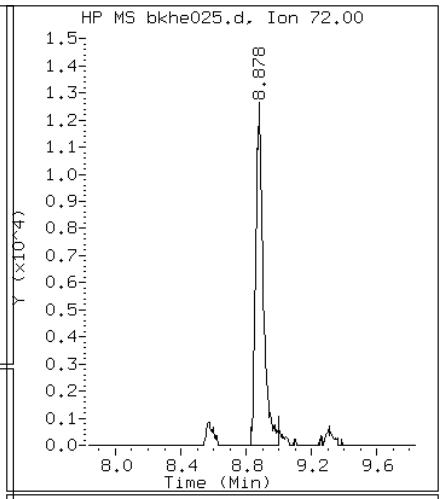
Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

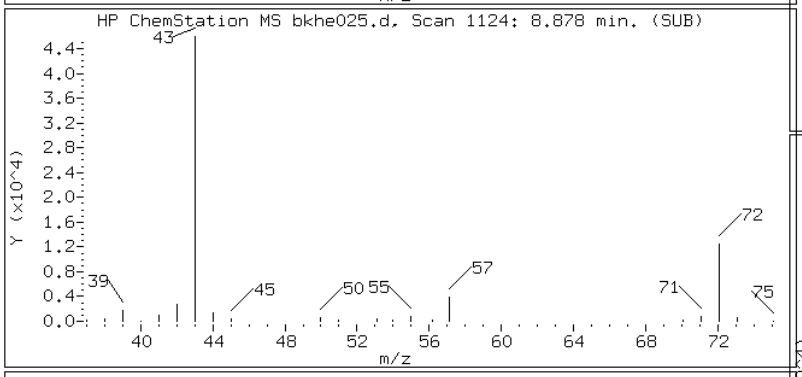
Client ID: SV-6 Instrument: B.i

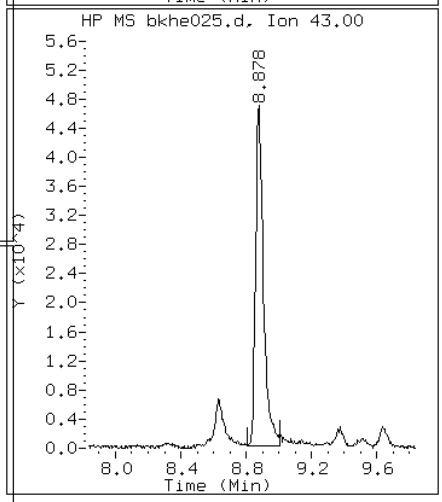
Sample Info: 200-6944-A-7@2.01 Operator: pad

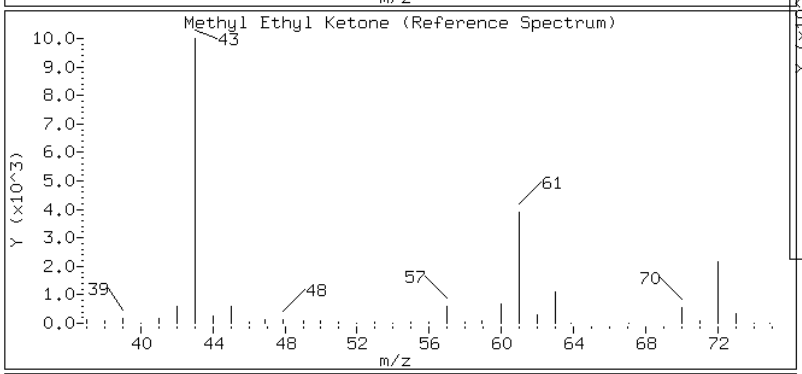
36 Methyl Ethyl Ketone

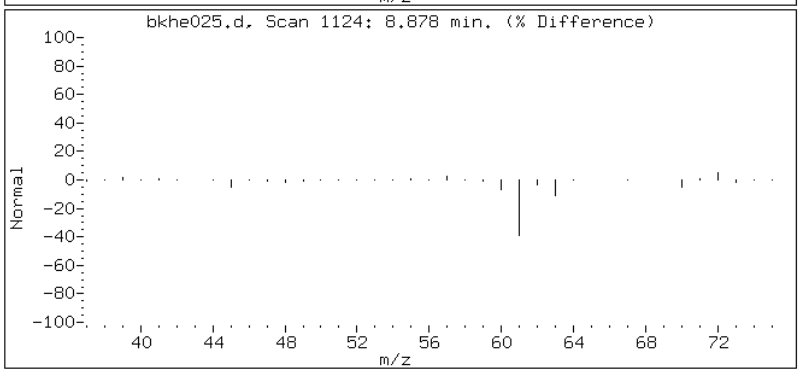












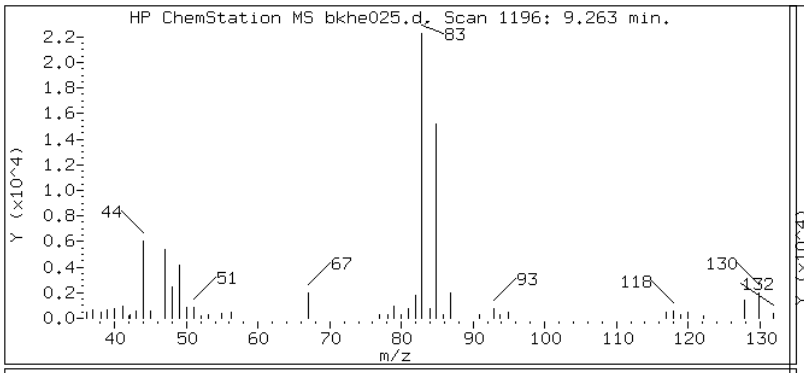
Data File: bkhe025.d

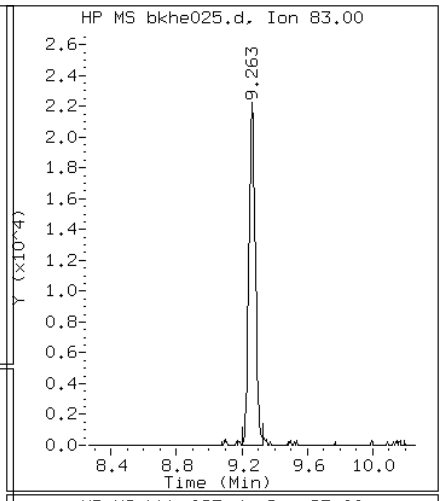
Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

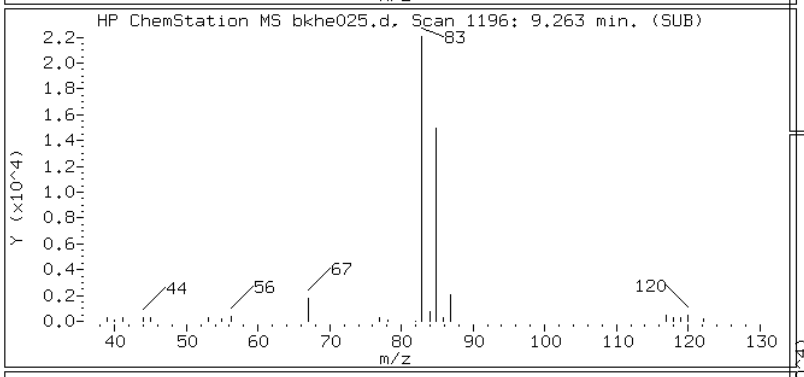
Client ID: SV-6 Instrument: B.i

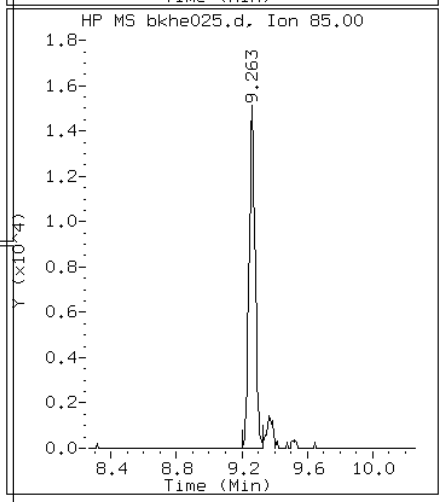
Sample Info: 200-6944-A-7@2.01 Operator: pad

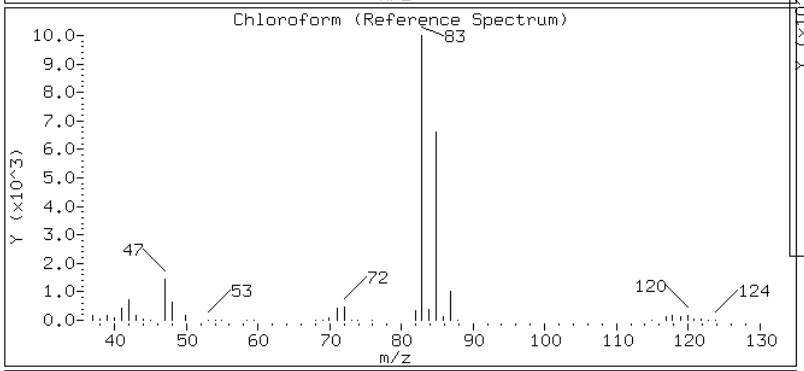
39 Chloroform

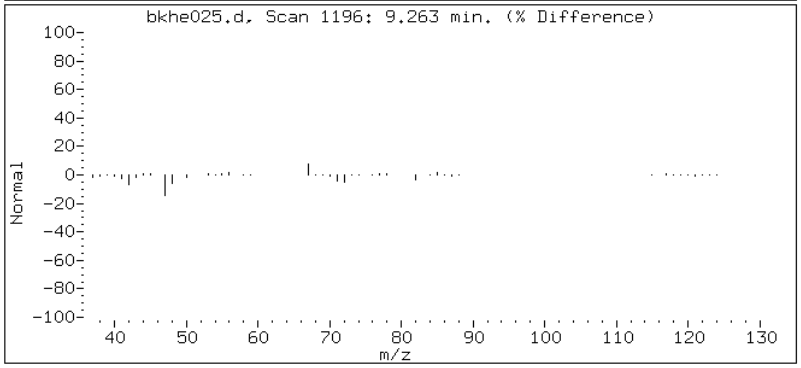












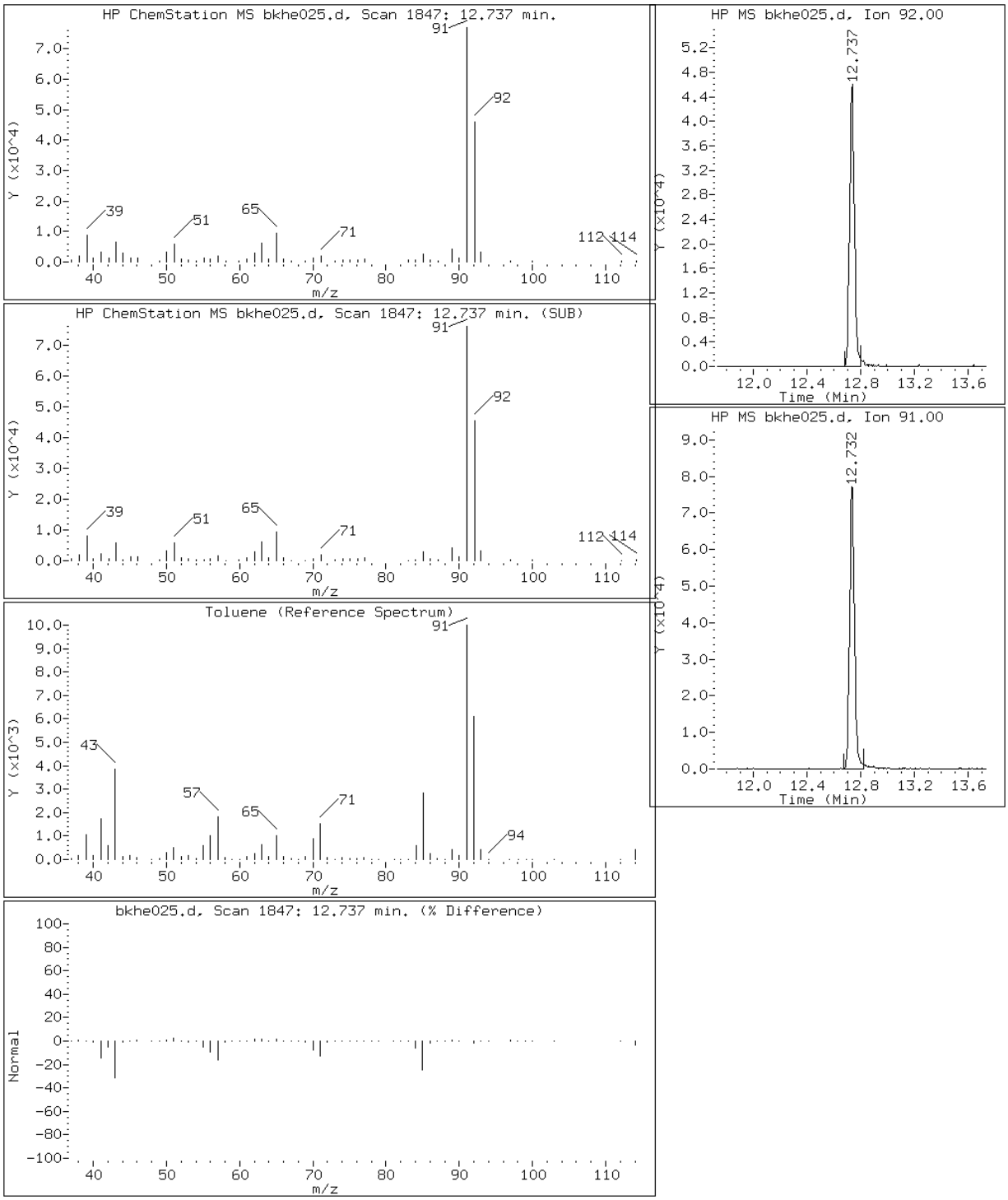
Data File: bkhe025.d

Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

Client ID: SV-6 Instrument: B.i

Sample Info: 200-6944-A-7@2.01 Operator: pad

58 Toluene



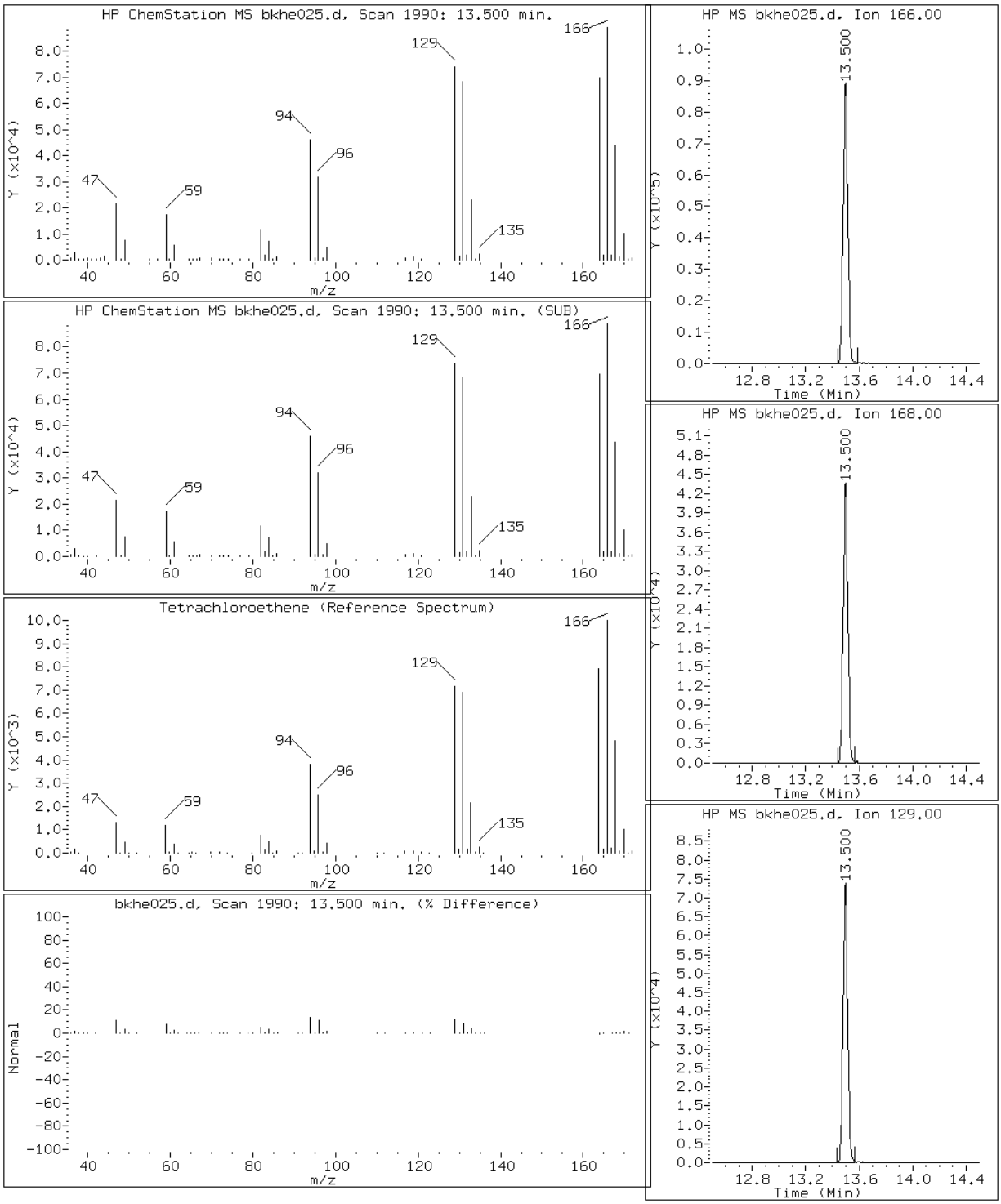
Data File: bkhe025.d

Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

Client ID: SV-6 Instrument: B.i

Sample Info: 200-6944-A-7@2.01 Operator: pad

61 Tetrachloroethene



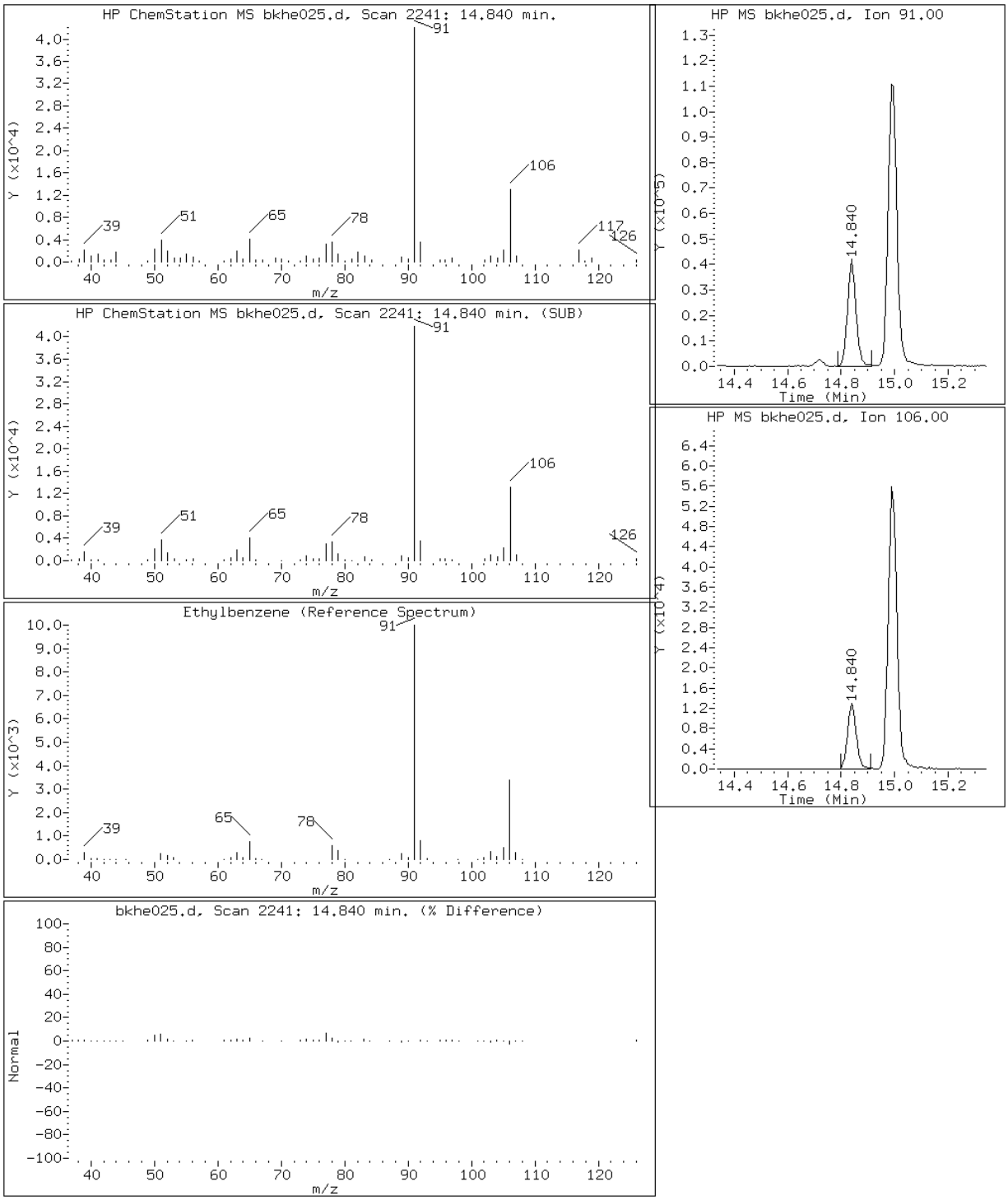
Data File: bkhe025.d

Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

Client ID: SV-6 Instrument: B.i

Sample Info: 200-6944-A-7@2.01 Operator: pad

68 Ethylbenzene



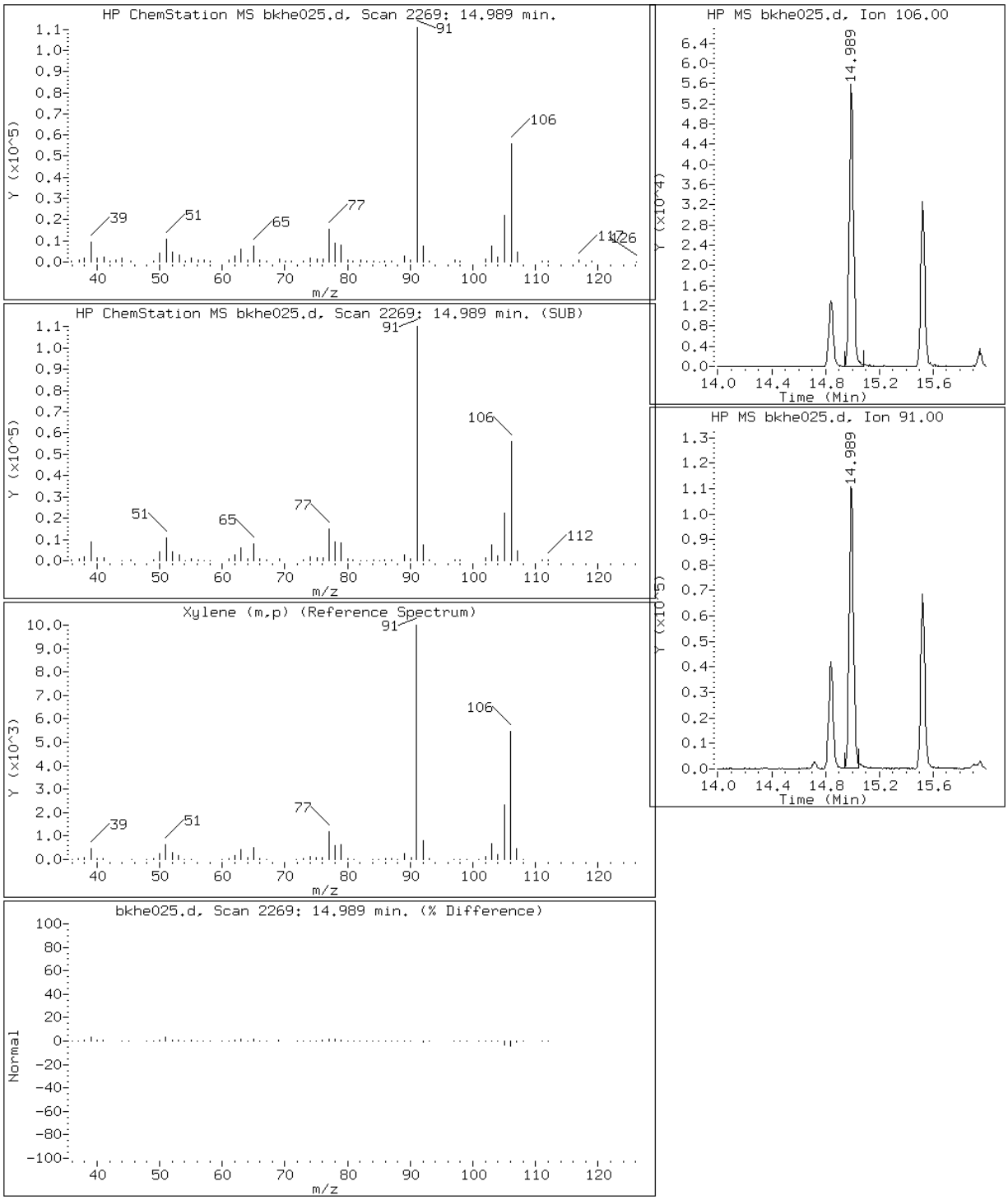
Data File: bkhe025.d

Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

Client ID: SV-6 Instrument: B.i

Sample Info: 200-6944-A-7@2.01 Operator: pad

69 Xylene (m,p)



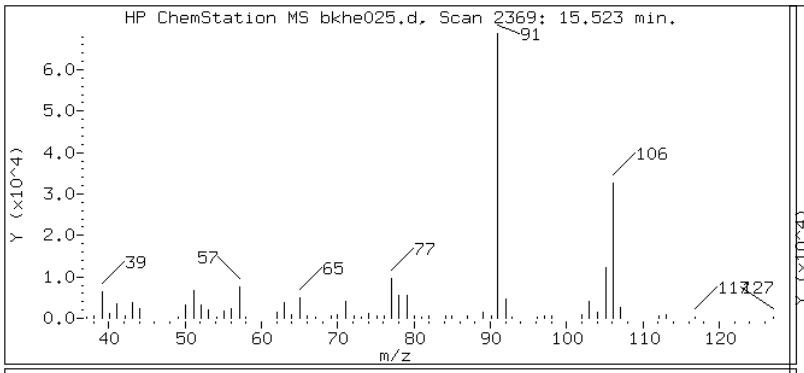
Data File: bkhe025.d

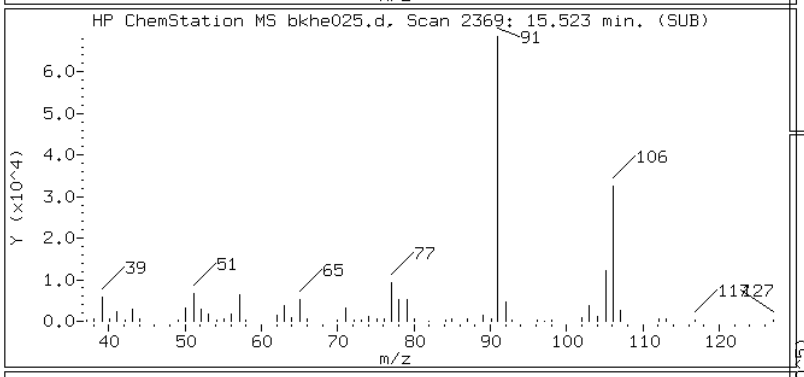
Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

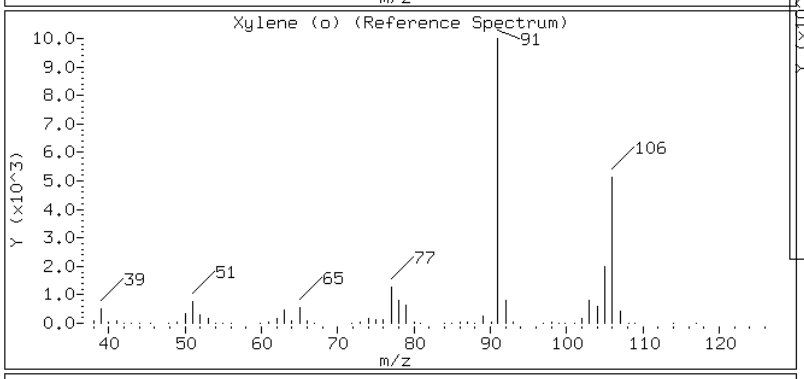
Client ID: SV-6 Instrument: B.i

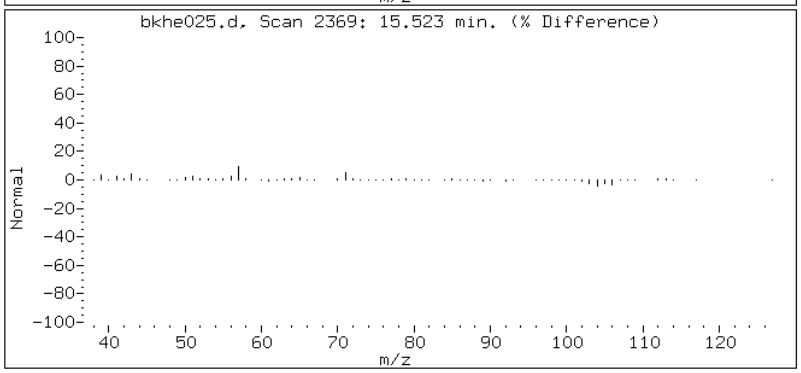
Sample Info: 200-6944-A-7@2.01 Operator: pad

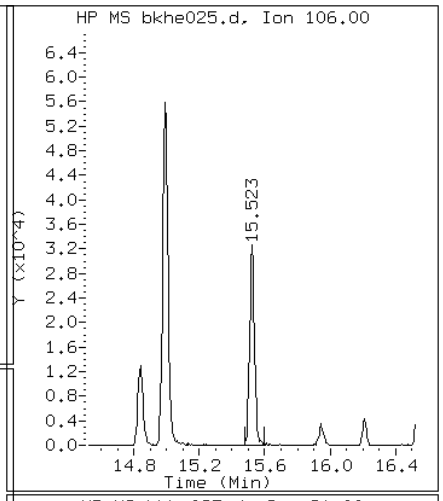
71 Xylene (o)

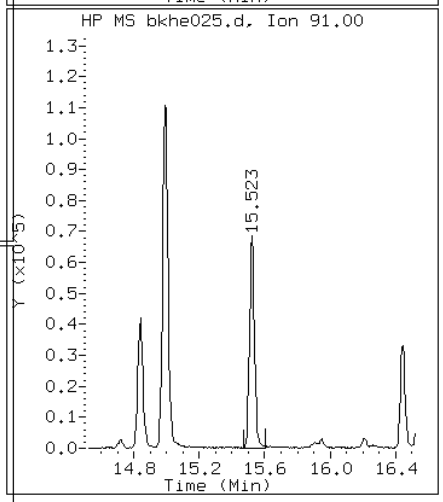












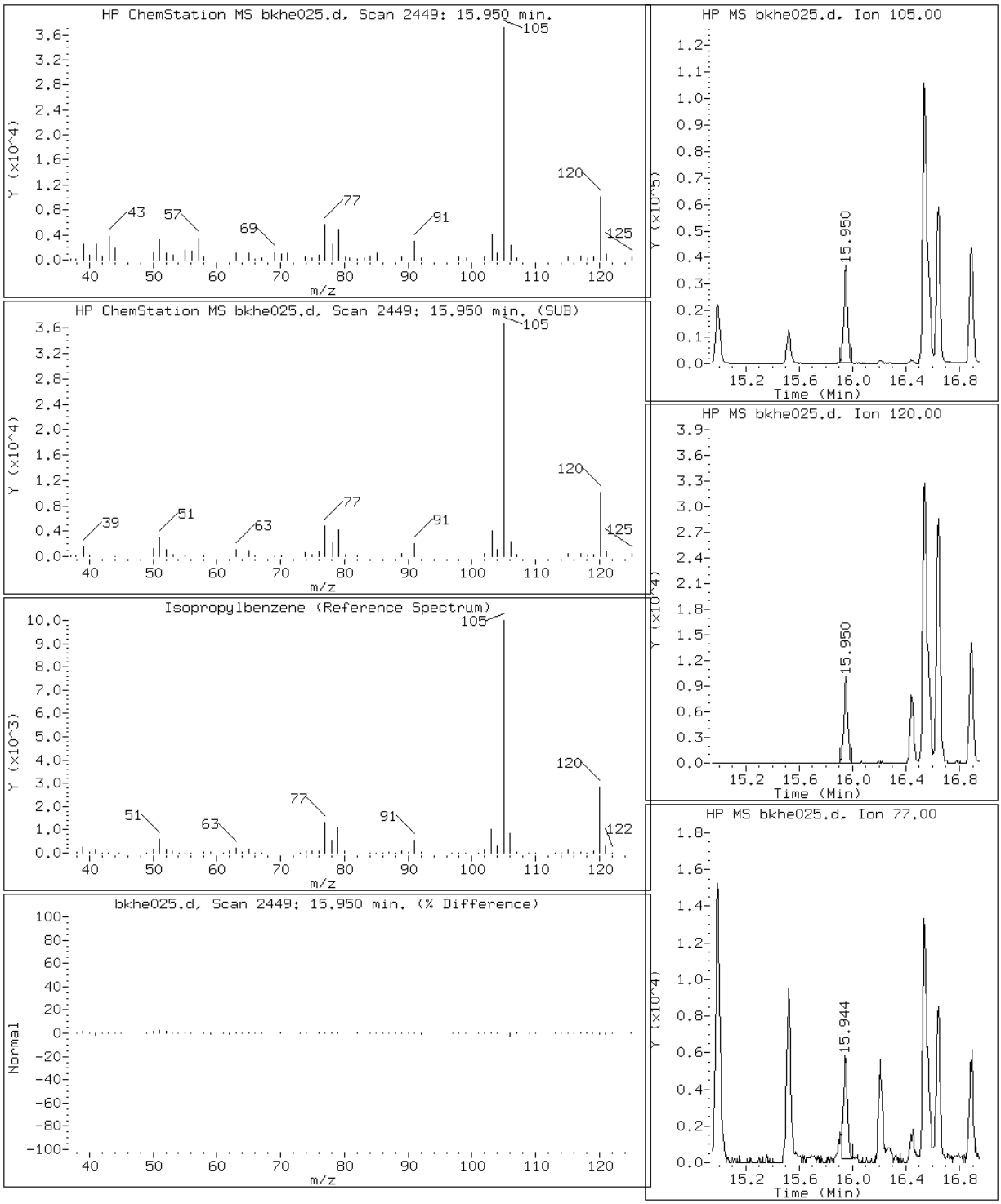
Data File: bkhe025.d

Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

Client ID: SV-6 Instrument: B.i

Sample Info: 200-6944-A-7@2.01 Operator: pad

74 Isopropylbenzene



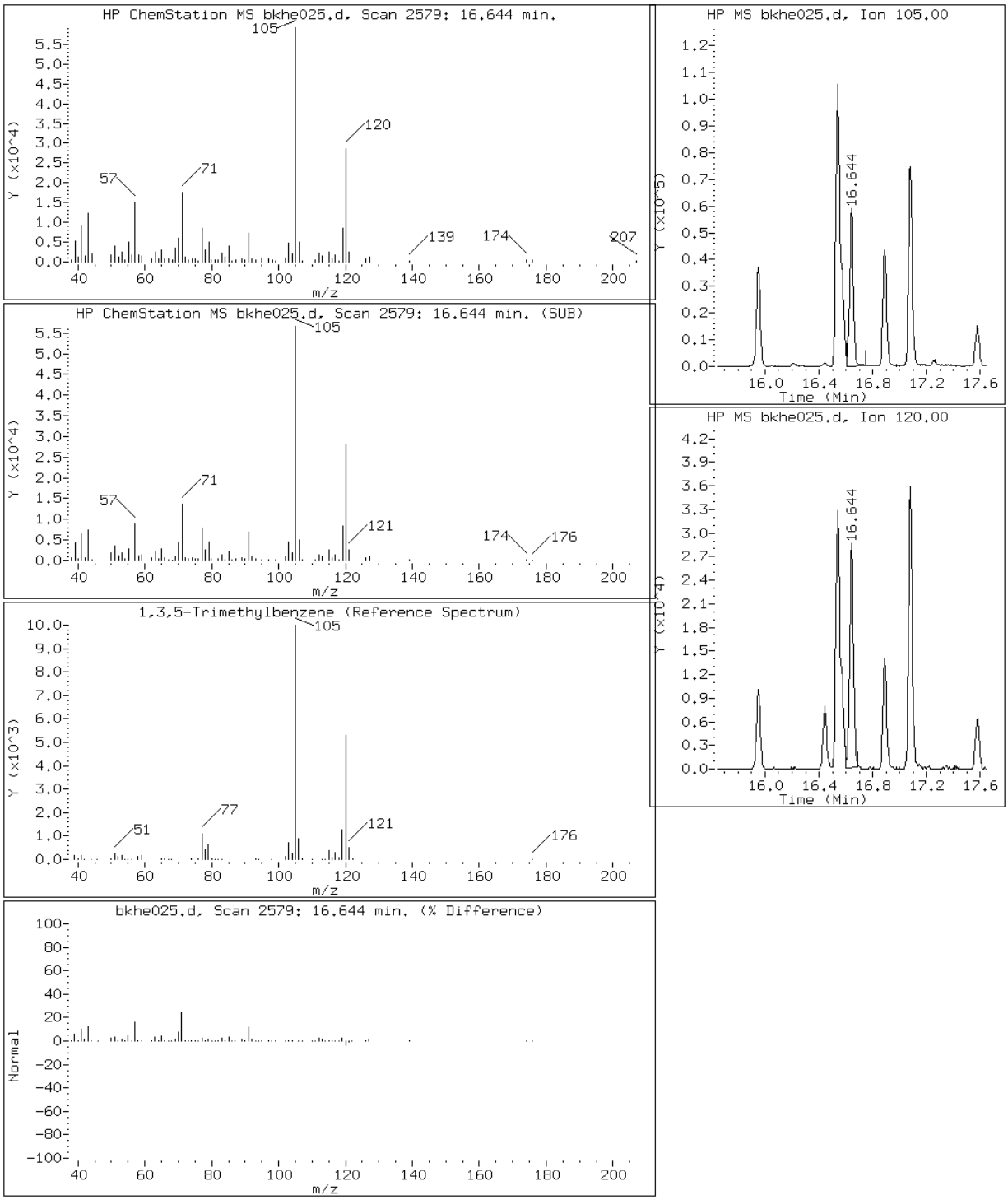
Data File: bkhe025.d

Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

Client ID: SV-6 Instrument: B.i

Sample Info: 200-6944-A-7@2.01 Operator: pad

81 1,3,5-Trimethylbenzene



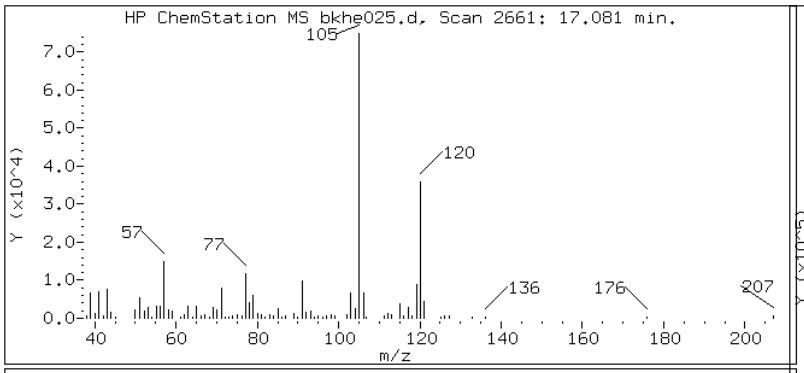
Data File: bkhe025.d

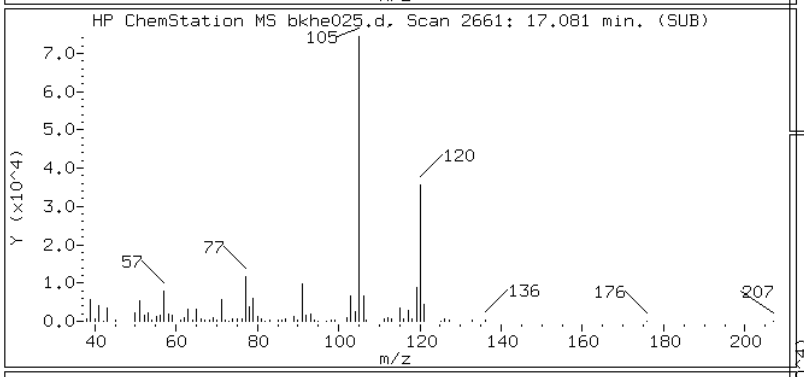
Lab Sample ID: 200-6944-7 Date: 22-SEP-2011 08:19

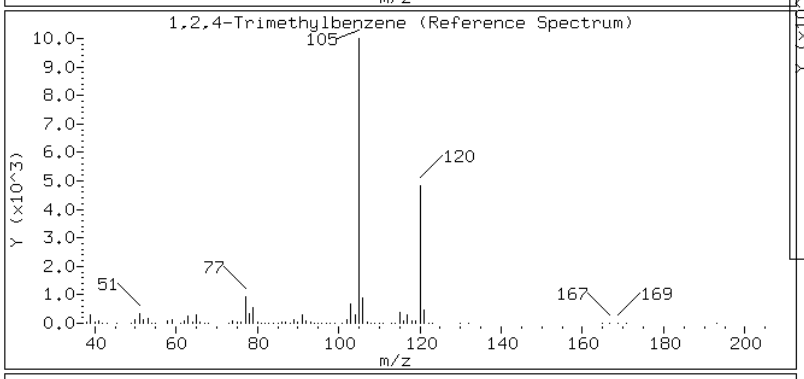
Client ID: SV-6 Instrument: B.i

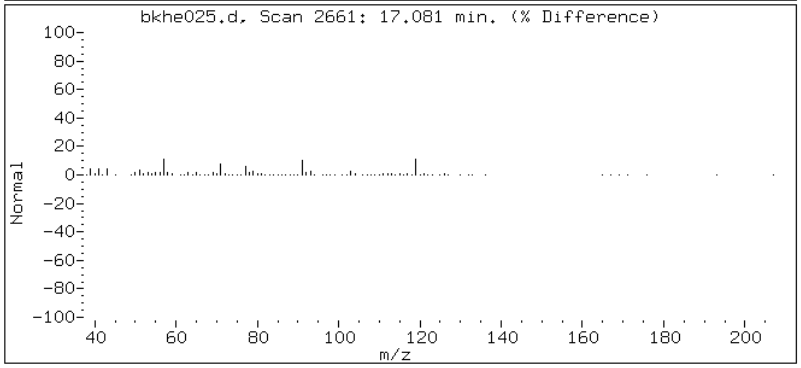
Sample Info: 200-6944-A-7@2.01 Operator: pad

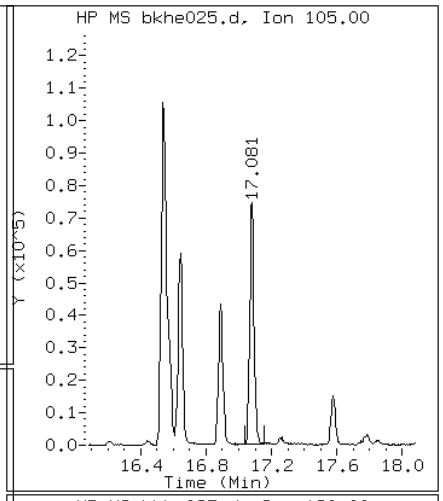
84 1,2,4-Trimethylbenzene

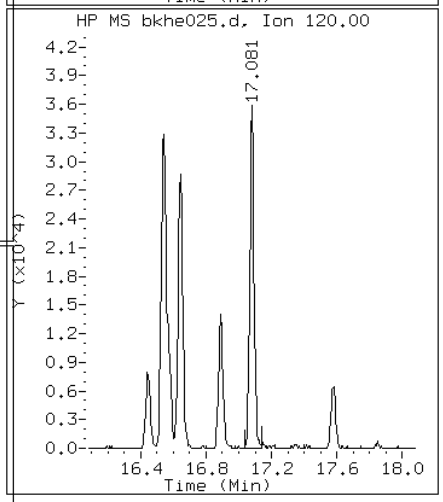












Manual Integration Report

Data File: bkhe025.d
Lab Sample ID: 200-6944-7
Inj. Date and Time: 22-SEP-2011 08:19
Instrument ID: B.i
Client ID: SV-6
Compound: 10 Chloroethane
CAS #: 75-00-3
Report Date: 09/23/2011

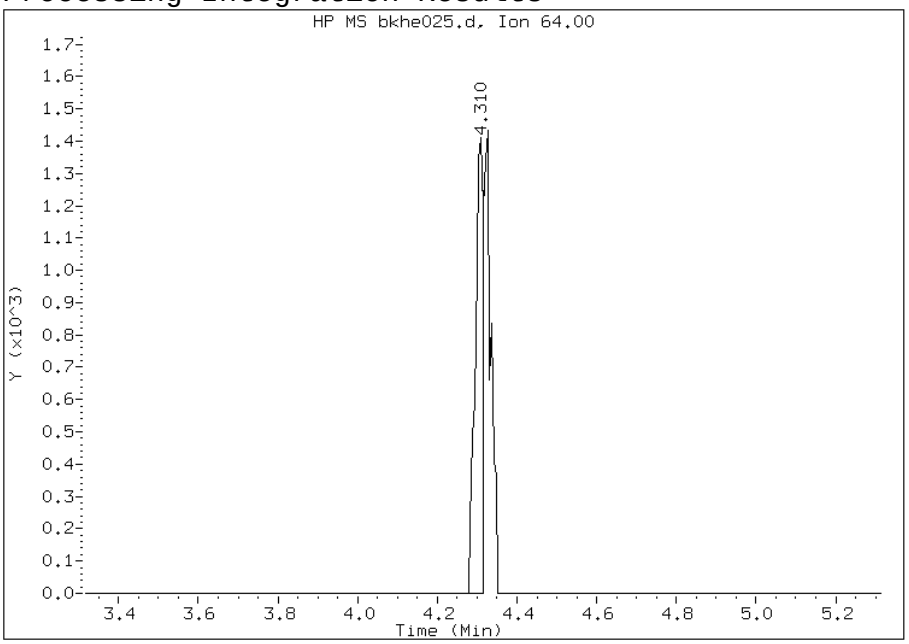
Processing Integration Results

RT: 4.31

Response: 1998

Amount: 0.090342

Conc: 1.26



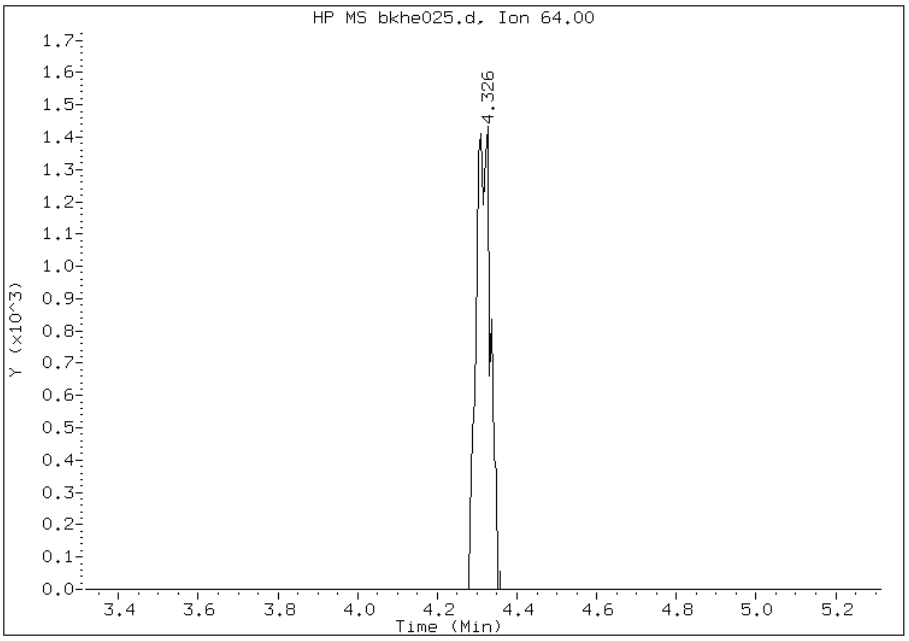
Manual Integration Results

RT: 4.33

Response: 3613

Amount: 0.163366

Conc: 2.27



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: bkhe025.d
Lab Sample ID: 200-6944-7
Inj. Date and Time: 22-SEP-2011 08:19
Instrument ID: B.i
Client ID: SV-6
Compound: 49 Trichloroethene
CAS #: 79-01-6
Report Date: 09/23/2011

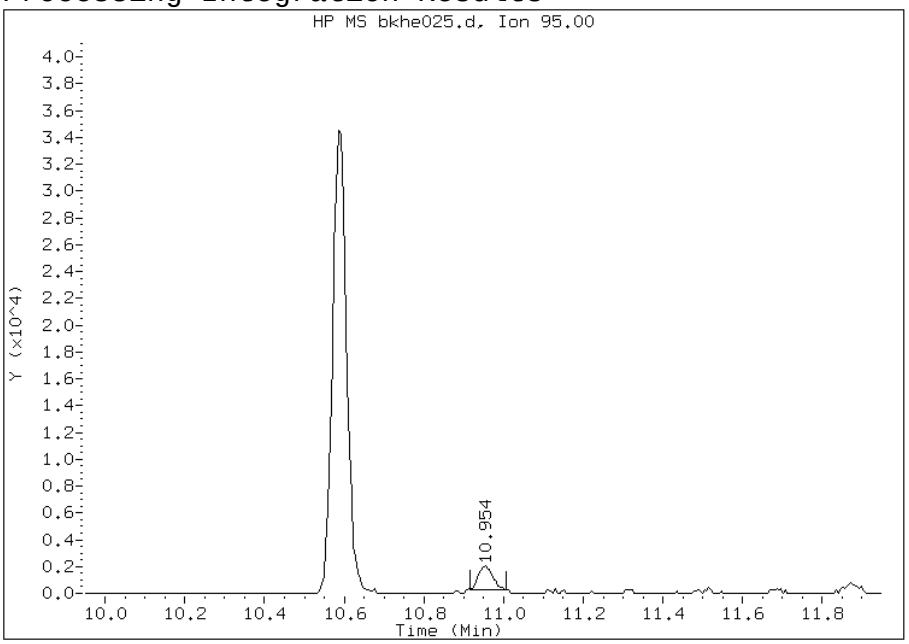
Processing Integration Results

RT: 10.95

Response: 4440

Amount: 0.051967

Conc: 0.722339



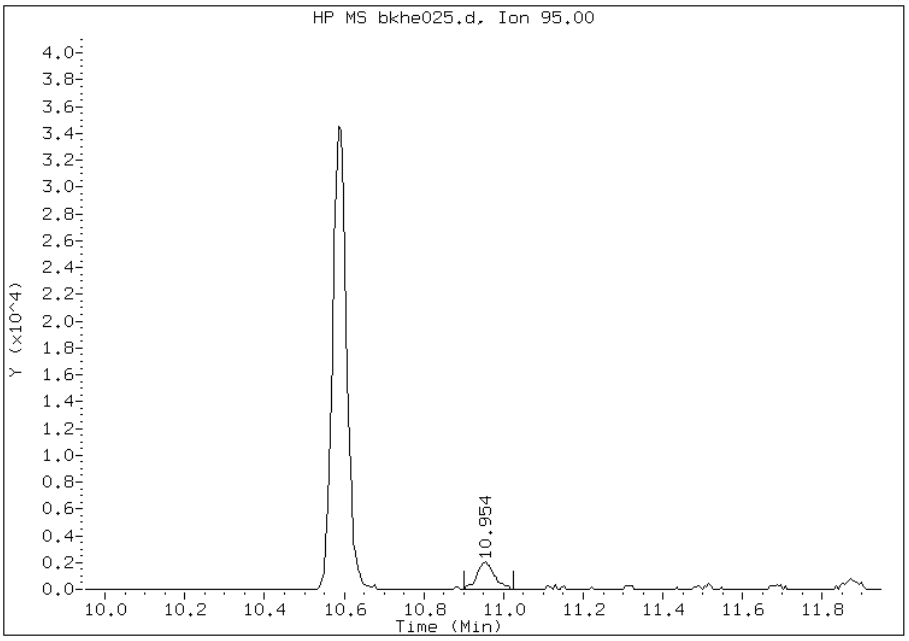
Manual Integration Results

RT: 10.95

Response: 6266

Amount: 0.073339

Conc: 1.02



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: bkhe025.d
Lab Sample ID: 200-6944-7
Inj. Date and Time: 22-SEP-2011 08:19
Instrument ID: B.i
Client ID: SV-6
Compound: 79 4-Ethyltoluene
CAS #: 622-96-8
Report Date: 09/23/2011

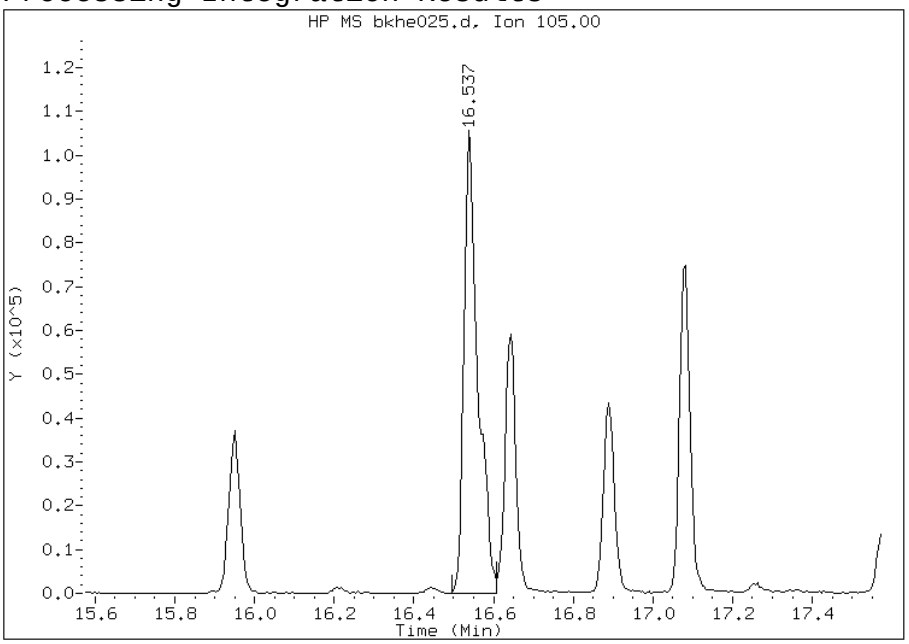
Processing Integration Results

RT: 16.54

Response: 258042

Amount: 0.710724

Conc: 9.88



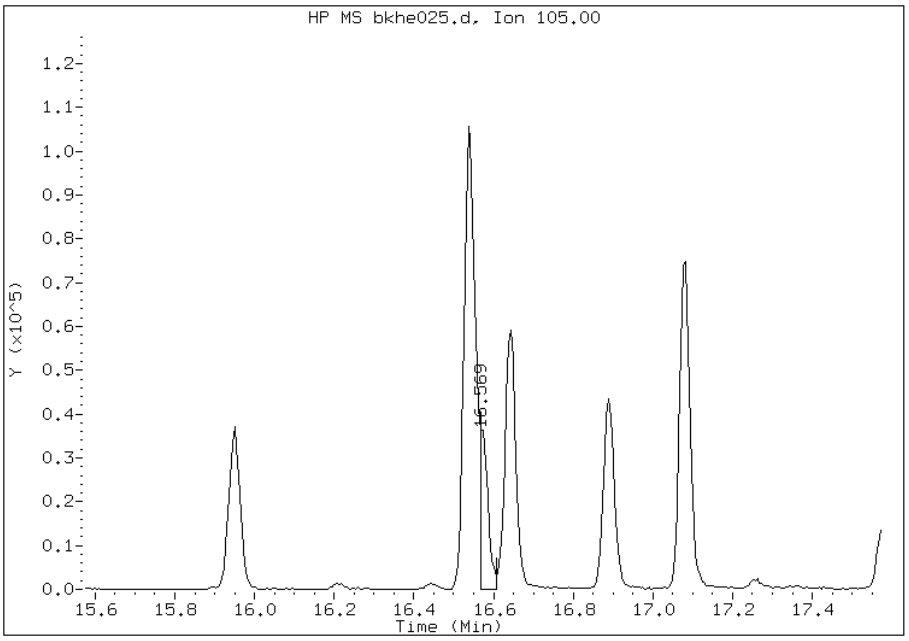
Manual Integration Results

RT: 16.57

Response: 48116

Amount: 0.132526

Conc: 1.84



File Uploaded By: wrd
Manual Integration Reason: Baseline event

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-6944-1 Analy Batch No.: 25331

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2011 13:01 Calibration End Date: 09/15/2011 18:16 Calibration ID: 9969

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-25331/3	ic 201836	bkh003.d
Level 2	IC 200-25331/4	ic 201802	bkh004.d
Level 3	IC 200-25331/5	ic 201717	bkh005.d
Level 4	ICIS 200-25331/6	icis 201712	bkh006.d
Level 5	IC 200-25331/7	ic 201699	bkh007.d
Level 6	IC 200-25331/8	ic 201697	bkh008.d
Level 7	IC 200-25331/9	ic 201696	bkh009.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.2041	0.3158 0.1865	0.2884	0.2469	0.2294	Ave		0.2452				20.2		30.0			
Dichlorodifluoromethane	+++++ 1.4372	1.9281 1.2916	1.9549	1.7345	1.5953	Ave		1.6569				16.1		30.0			
Freon 22	+++++ 0.5524	0.7580 0.4941	0.7701	0.6749	0.6139	Ave		0.6439				17.2		30.0			
1,2-Dichlorotetrafluoroethane	1.8598 1.3515	1.8242 1.2081	1.8349	1.6342	1.5112	Ave		1.6034				16.0		30.0			
Chloromethane	+++++ 0.2808	0.3965 0.2580	0.3922	0.3417	0.3147	Ave		0.3307				17.3		30.0			
n-Butane	+++++ 0.4692	0.6551 0.4220	0.6631	0.5799	0.5244	Ave		0.5523				17.8		30.0			
Vinyl chloride	0.5400 0.4032	0.5197 0.3662	0.5405	0.4815	0.4441	Ave		0.4707				14.6		30.0			
1,3-Butadiene	0.3550 0.2788	0.3713 0.2560	0.3881	0.3421	0.3117	Ave		0.3290				14.8		30.0			
Bromomethane	0.9279 0.6710	0.8912 0.6406	0.8634	0.8055	0.7581	Ave		0.7940				13.8		30.0			
Chloroethane	+++++ 0.3253	0.4314 0.3073	0.4463	0.3949	0.3668	Ave		0.3787				14.8		30.0			
Isopentane	0.8931 0.6090	0.8962 0.5570	0.9077	0.7651	0.6945	Ave		0.7604				19.1		30.0			
Bromoethene(Vinyl Bromide)	1.1005 0.9006	1.0469 0.8547	1.0434	1.0006	0.9736	Ave		0.9886				8.8		30.0			
Trichlorofluoromethane	3.0871 2.3895	2.9070 2.2374	2.9081	2.7206	2.6046	Ave		2.6935				11.3		30.0			
n-Pentane	+++++ 1.0285	1.5255 0.9275	1.4768	1.2929	1.1724	Ave		1.2373				19.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-6944-1 Analy Batch No.: 25331

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2011 13:01 Calibration End Date: 09/15/2011 18:16 Calibration ID: 9969

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acrolein	+++++ 0.2934	+++++ 0.2664	0.3883	0.2907	0.3124	Ave		0.3102				15.0		30.0			
Ethanol	+++++ 0.3019	0.4128 0.2680	0.4421	0.4284	0.3398	Ave		0.3655				19.8		30.0			
Ethyl ether	0.6876 0.5883	0.7060 0.5471	0.7377	0.6852	0.6466	Ave		0.6569				10.3		30.0			
Isopropyl alcohol	+++++ 0.7795	+++++ 0.7042	1.0934	0.9304	0.8673	Ave		0.8750				17.1		30.0			
Freon TF	2.2693 1.8210	2.1267 1.7337	2.0865	1.9649	1.9446	Ave		1.9924				9.2		30.0			
1,1-Dichloroethene	1.0620 0.8732	0.9646 0.8451	0.9884	0.9303	0.9173	Ave		0.9401				7.8		30.0			
Acetone	+++++ 0.9927	+++++ 0.9038	1.7474	1.3630	1.1691	Ave		1.2352				27.2		30.0			
Carbon disulfide	+++++ 2.4750	2.9949 2.3439	2.9801	2.8426	2.6833	Ave		2.7200				9.9		30.0			
3-Chloropropene	0.9786 0.8479	1.0296 0.7689	1.1485	1.0251	0.9351	Ave		0.9620				13.1		30.0			
Acetonitrile	+++++ 0.4975	+++++ 0.4650	0.7299	0.6320	0.5778	Ave		0.5804				18.3		30.0			
Methylene Chloride	+++++ 0.7437	1.0749 0.6800	1.0248	0.8992	0.8271	Ave		0.8750				17.7		30.0			
tert-Butyl alcohol	+++++ 1.3096	+++++ 1.2202	1.6975	1.4572	1.4365	Ave		1.4242				12.7		30.0			
Methyl tert-butyl ether	2.9488 2.4865	2.8648 2.3351	2.9804	2.7791	2.6940	Ave		2.7270				8.8		30.0			
trans-1,2-Dichloroethene	1.4608 1.1548	1.4518 1.0423	1.5180	1.3580	1.2764	Ave		1.3231				13.2		30.0			
Acrylonitrile	+++++ 0.5416	0.6642 0.5120	0.6925	0.6351	0.5948	Ave		0.6067				11.6		30.0			
n-Hexane	1.7044 1.2449	1.5834 1.1354	1.6306	1.4540	1.3753	Ave		1.4468				14.4		30.0			
Ethyl acetate	+++++ 0.0853	+++++ 0.0794	0.0942	0.0906	0.0900	Ave		0.0879				6.5		30.0			
n-Butanol	+++++ 0.0874	+++++ 0.0872	0.1104	0.1034	0.0959	Ave		0.0968				10.5		30.0			
1,1-Dichloroethane	1.8775 1.4558	1.8284 1.3386	1.8626	1.6734	1.6024	Ave		1.6627				12.6		30.0			
Vinyl acetate	+++++ 1.6847	+++++ 1.5129	2.1639	2.0225	1.8548	Ave		1.8478				14.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-6944-1 Analy Batch No.: 25331

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2011 13:01 Calibration End Date: 09/15/2011 18:16 Calibration ID: 9969

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.0883	+++++ 0.0797	0.1034	0.0933	0.0945	Ave		0.0918				9.5		30.0			
cis-1,2-Dichloroethene	1.1373 0.9885	1.0813 0.9248	1.1202	1.0668	1.0576	Ave		1.0538				7.1		30.0			
Methyl Ethyl Ketone	+++++ 0.4264	0.7312 0.3820	0.5560	0.5114	0.4688	Ave		0.5126				24.1		30.0			
Tetrahydrofuran	+++++ 0.1624	+++++ 0.1486	0.2206	0.1937	0.1823	Ave		0.1815				15.4		30.0			
Chloroform	2.3515 1.8644	2.1980 1.7658	2.2295	2.0616	2.0065	Ave		2.0682				10.1		30.0			
1,1,1-Trichloroethane	0.5380 0.4531	0.4919 0.4383	0.5034	0.4769	0.4834	Ave		0.4836				6.8		30.0			
Cyclohexane	0.3494 0.2842	0.3297 0.2628	0.3196	0.3055	0.3049	Ave		0.3080				9.3		30.0			
Carbon tetrachloride	0.5640 0.5148	0.5203 0.5152	0.5444	0.5285	0.5422	Ave		0.5328				3.4		30.0			
2,2,4-Trimethylpentane	1.0491 0.8149	0.9973 0.7281	1.0370	0.9370	0.9052	Ave		0.9241				12.9		30.0			
Benzene	0.7679 0.5810	0.6884 0.5393	0.6776	0.6301	0.6264	Ave		0.6444				11.7		30.0			
1,2-Dichloroethane	0.3065 0.2427	0.2884 0.2320	0.3005	0.2735	0.2655	Ave		0.2727				10.3		30.0			
n-Heptane	0.3950 0.2713	0.3679 0.2397	0.3690	0.3248	0.3061	Ave		0.3248				17.4		30.0			
Trichloroethene	0.3452 0.2838	0.2994 0.2706	0.3140	0.2959	0.3030	Ave		0.3017				7.9		30.0			
1,2-Dichloropropane	0.2499 0.1998	0.2333 0.1867	0.2422	0.2232	0.2179	Ave		0.2219				10.2		30.0			
Methyl methacrylate	+++++ 0.2088	0.1855 0.2003	0.2351	0.2237	0.2254	Ave		0.2132				8.6		30.0			
Dibromomethane	0.3035 0.3029	0.2623 0.3119	0.2751	0.2858	0.3091	Ave		0.2929				6.4		30.0			
Bromodichloromethane	0.4933 0.4492	0.4700 0.4346	0.5098	0.4798	0.4839	Ave		0.4744				5.4		30.0			
cis-1,3-Dichloropropene	0.3741 0.3474	0.3474 0.3338	0.3903	0.3710	0.3747	Ave		0.3627				5.5		30.0			
methyl isobutyl ketone	+++++ 0.3397	0.3682 0.3062	0.4445	0.3986	0.3797	Ave		0.3728				12.8		30.0			
Toluene	0.6692 0.5001	0.5586 0.4451	0.5717	0.5439	0.5392	Ave		0.5468				12.6		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-6944-1 Analy Batch No.: 25331

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2011 13:01 Calibration End Date: 09/15/2011 18:16 Calibration ID: 9969

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Octane	0.5231 0.3358	0.4852 0.2668	0.5076	0.4290	0.3872	Ave		0.4192				22.7		30.0			
trans-1,3-Dichloropropene	0.3719 0.3637	0.3633 0.3502	0.4119	0.3918	0.3920	Ave		0.3778				5.7		30.0			
1,1,2-Trichloroethane	0.2781 0.2382	0.2577 0.2255	0.2676	0.2552	0.2535	Ave		0.2537				6.9		30.0			
Tetrachloroethene	0.5374 0.5227	0.4605 0.5237	0.4811	0.4941	0.5299	Ave		0.5071				5.7		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.3640	0.3852 0.3346	0.4706	0.4179	0.4001	Ave		0.3954				11.8		30.0			
Dibromochloromethane	0.5454 0.6094	0.5097 0.6055	0.5958	0.6075	0.6262	Ave		0.5857				7.2		30.0			
1,2-Dibromoethane	0.5253 0.5019	0.4763 0.4876	0.5264	0.5149	0.5251	Ave		0.5082				4.0		30.0			
Chlorobenzene	0.9251 0.7697	0.7973 0.7487	0.8084	0.7890	0.8049	Ave		0.8062				7.0		30.0			
Ethylbenzene	1.3481 1.1239	1.2134 1.0519	1.2550	1.1990	1.1878	Ave		1.1970				7.8		30.0			
n-Nonane	0.5662 0.4158	0.5284 0.3565	0.5500	0.4940	0.4642	Ave		0.4822				15.7		30.0			
m,p-Xylene	0.5453 0.4646	0.4990 0.4051	0.5171	0.5008	0.4994	Ave		0.4902				9.1		30.0			
Xylene, o-	0.5301 0.4689	0.4810 0.4319	0.5107	0.4934	0.4936	Ave		0.4871				6.4		30.0			
Styrene	0.6737 0.7245	0.6313 0.6810	0.7677	0.7566	0.7649	Ave		0.7142				7.4		30.0			
Bromoform	0.5060 0.6444	0.4618 0.6173	0.5866	0.6218	0.6569	Ave		0.5850				12.6		30.0			
Cumene	1.5601 1.3460	1.3903 1.2609	1.4737	1.4268	1.4218	Ave		1.4114				6.7		30.0			
1,1,2,2-Tetrachloroethane	0.7472 0.6019	0.6803 0.5440	0.7127	0.6685	0.6494	Ave		0.6577				10.3		30.0			
n-Propylbenzene	1.8113 1.4347	1.6374 1.1914	1.7376	1.6342	1.5728	Ave		1.5742				13.1		30.0			
1,2,3-Trichloropropane	+++++ 0.4381	0.5623 0.3630	0.5654	0.5130	0.4862	Ave		0.4880				15.9		30.0			
n-Dodecane	+++++ 0.3757	+++++ 0.3844	0.5792	0.5704	0.4068	Ave		0.4633				22.1		30.0			
n-Decane	+++++ 0.4946	0.6765 0.4067	0.7073	0.6166	0.5638	Ave		0.5776				19.6		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-6944-1 Analy Batch No.: 25331

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2011 13:01 Calibration End Date: 09/15/2011 18:16 Calibration ID: 9969

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Ethyltoluene	1.5656 1.3561	1.4137 1.1892	1.5158	1.4646	1.4569	Ave		1.4231				8.7		30.0			
2-Chlorotoluene	1.4403 1.1579	1.3167 1.0422	1.3555	1.2739	1.2528	Ave		1.2628				10.4		30.0			
1,3,5-Trimethylbenzene	1.3019 1.1446	1.1925 1.0504	1.2574	1.2207	1.2163	Ave		1.1977				6.8		30.0			
Alpha Methyl Styrene	0.5162 0.6329	0.4925 0.6011	0.6447	0.6527	0.6653	Ave		0.6008				11.5		30.0			
tert-Butylbenzene	1.3095 1.1329	1.1510 1.0536	1.2374	1.1962	1.1998	Ave		1.1829				6.9		30.0			
1,2,4-Trimethylbenzene	1.2954 1.1298	1.1629 1.0492	1.2653	1.2194	1.2124	Ave		1.1906				7.1		30.0			
sec-Butylbenzene	2.0900 1.6162	1.8213 1.3973	1.8407	1.7522	1.7325	Ave		1.7500				12.2		30.0			
4-Isopropyltoluene	1.5981 1.4480	1.4189 1.2855	1.5802	1.5420	1.5454	Ave		1.4883				7.5		30.0			
1,3-Dichlorobenzene	0.9731 0.8775	0.8171 0.8354	0.8862	0.8881	0.9155	Ave		0.8847				5.8		30.0			
1,4-Dichlorobenzene	0.9964 0.8839	0.8265 0.8428	0.9017	0.9017	0.9333	Ave		0.8980				6.3		30.0			
Benzyl chloride	0.9912 1.0128	0.9132 0.9723	1.1149	1.0568	1.0772	Ave		1.0198				6.7		30.0			
n-Undecane	+++++ 0.4385	+++++ 0.3518	0.7454	0.6311	0.5311	Ave		0.5396				28.8		30.0			
n-Butylbenzene	1.3883 1.0744	1.3254 0.8638	1.4114	1.2871	1.2029	Ave		1.2219				16.0		30.0			
1,2-Dichlorobenzene	0.9629 0.8363	0.7960 0.8053	0.8484	0.8485	0.8730	Ave		0.8529				6.5		30.0			
1,2,4-Trichlorobenzene	+++++ 0.6083	0.5272 0.6515	0.6652	0.7180	0.6669	Ave		0.6395				10.2		30.0			
Hexachlorobutadiene	0.5590 0.5468	0.4699 0.5252	0.5517	0.5801	0.5802	Ave		0.5447				7.0		30.0			
Naphthalene	+++++ 1.0048	1.1482 1.3003	1.3866	1.4480	1.0957	Ave		1.2306				14.2		30.0			
1,2,3-Trichlorobenzene	0.5710 0.4984	0.4489 0.5625	0.5740	0.6262	0.5467	Ave		0.5468				10.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-6944-1 Analy Batch No.: 25331

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2011 13:01 Calibration End Date: 09/15/2011 18:16 Calibration ID: 9969

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-25331/3	bkh003.d
Level 2	IC 200-25331/4	bkh004.d
Level 3	IC 200-25331/5	bkh005.d
Level 4	ICIS 200-25331/6	bkh006.d
Level 5	IC 200-25331/7	bkh007.d
Level 6	IC 200-25331/8	bkh008.d
Level 7	IC 200-25331/9	bkh009.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 322201	10078 649024	89144	167068	256759	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dichlorodifluoromethane	BCM	Ave	+++++ 2269411	61534 4495320	604164	1173654	1785698	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Freon 22	BCM	Ave	+++++ 872309	24191 1719586	238004	456659	687181	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	25583 2134045	58217 4204693	567063	1105796	1691635	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloromethane	BCM	Ave	+++++ 443321	12655 897995	121206	231226	352276	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Butane	BCM	Ave	+++++ 740881	20908 1468845	204929	392384	587036	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl chloride	BCM	Ave	7428 636671	16585 1274688	167050	325800	497112	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Butadiene	BCM	Ave	4884 440177	11850 890985	119948	231482	348892	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromomethane	BCM	Ave	12764 1059542	28442 2229621	266839	545037	848621	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloroethane	BCM	Ave	+++++ 513649	13769 1069525	137913	267183	410570	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Isopentane	BCM	Ave	12286 961586	28603 1938517	280531	517710	777360	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoethene(Vinyl Bromide)	BCM	Ave	15139 1422102	33410 2974732	322445	677051	1089834	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichlorofluoromethane	BCM	Ave	42466 3773029	92774 7786999	898750	1840887	2915503	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Pentane	BCM	Ave	+++++ 1624049	48687 3227992	456398	874842	1312377	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Acrolein	BCM	Ave	+++++ 463277	+++++ 927076	119991	196674	349730	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-6944-1 Analy Batch No.: 25331

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2011 13:01 Calibration End Date: 09/15/2011 18:16 Calibration ID: 9969

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethanol	BCM	Ave	+++++ 953389	131746 2332023	273266	434797	507166	+++++ 40.0	5.00 100	10.0	15.0	20.0
Ethyl ether	BCM	Ave	9459 929013	22533 1904092	227969	463640	723838	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Isopropyl alcohol	BCM	Ave	+++++ 1230887	+++++ 2450871	337901	629574	970811	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Freon TF	BCM	Ave	31216 2875424	67871 6033825	644838	1329542	2176742	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethene	BCM	Ave	14609 1378794	30784 2941342	305470	629460	1026861	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetone	BCM	Ave	+++++ 1567539	+++++ 3145628	540024	922301	1308687	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Carbon disulfide	BCM	Ave	+++++ 3908069	95580 8157822	920988	1923416	3003638	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
3-Chloropropene	BCM	Ave	13461 1338791	32859 2676231	354947	693641	1046788	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetonitrile	BCM	Ave	+++++ 785517	+++++ 1618531	225586	427611	646747	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Methylene Chloride	BCM	Ave	+++++ 1174388	34305 2366760	316708	608434	925787	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
tert-Butyl alcohol	BCM	Ave	+++++ 2067810	+++++ 4246642	524616	985997	1607959	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Methyl tert-butyl ether	BCM	Ave	40563 3926305	91430 8127113	921071	1880449	3015600	0.200 20.0	0.500 40.0	5.00	10.0	15.0
trans-1,2-Dichloroethene	BCM	Ave	20094 1823468	46334 3627526	469116	918856	1428741	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acrylonitrile	BCM	Ave	+++++ 855235	21198 1782072	214029	429738	665796	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Hexane	BCM	Ave	23446 1965646	50532 3951742	503937	983820	1539444	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Ethyl acetate	BCM	Ave	+++++ 134759	+++++ 276228	29111	61301	100701	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
n-Butanol	DFB	Ave	+++++ 639946	+++++ 1375206	164581	336332	499754	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
1,1-Dichloroethane	BCM	Ave	25827 2298674	58351 4658954	575628	1132294	1793653	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl acetate	BCM	Ave	+++++ 2660157	+++++ 5265663	668756	1368539	2076195	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
1,4-Dioxane	DFB	Ave	+++++ 646745	+++++ 1257713	154170	303554	492321	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
cis-1,2-Dichloroethene	BCM	Ave	15644 1560921	34509 3218844	346183	721814	1183900	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-6944-1 Analy Batch No.: 25331

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2011 13:01 Calibration End Date: 09/15/2011 18:16 Calibration ID: 9969

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl Ethyl Ketone	BCM	Ave	+++++ 673250	23335 1329387	171827	346009	524805	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Tetrahydrofuran	DFB	Ave	+++++ 1189856	+++++ 2344454	328944	630284	950066	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Chloroform	BCM	Ave	32347 2943871	70147 6145585	689006	1394946	2245984	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,1-Trichloroethane	DFB	Ave	35101 3319228	75582 6914723	750725	1551472	2519552	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cyclohexane	DFB	Ave	22800 2081730	50650 4146467	476652	993796	1589206	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Carbon tetrachloride	DFB	Ave	36798 3771213	79945 8127603	811929	1719282	2825723	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2,2,4-Trimethylpentane	DFB	Ave	68449 5969484	153233 11485553	1546543	3048213	4717881	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzene	DFB	Ave	50104 4255784	105777 8508494	1010541	2049713	3264669	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethane	DFB	Ave	19996 1778097	44306 3660603	448183	889892	1383665	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Heptane	DFB	Ave	25773 1987544	56529 3781858	550283	1056668	1595276	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichloroethene	DFB	Ave	22525 2079080	46001 4268194	468307	962604	1579189	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloropropane	DFB	Ave	16306 1463794	35845 2944902	361190	726204	1135865	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl methacrylate	DFB	Ave	+++++ 1529839	28502 3160000	350670	727797	1174749	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dibromomethane	DFB	Ave	19802 2219120	40295 4919743	410297	929757	1610858	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromodichloromethane	DFB	Ave	32186 3290355	72208 6855845	760260	1560759	2522059	0.200 20.0	0.500 40.0	5.00	10.0	15.0
cis-1,3-Dichloropropene	DFB	Ave	24407 2545019	53377 5266338	581992	1207063	1952658	0.200 20.0	0.500 40.0	5.00	10.0	15.0
methyl isobutyl ketone	DFB	Ave	+++++ 2488614	56570 4829902	662876	1296897	1978812	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Toluene	CBZ	Ave	39371 3332141	78195 6354053	783869	1624227	2591959	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Octane	DFB	Ave	34128 2459698	74550 4209008	756913	1395733	2018084	0.200 20.0	0.500 40.0	5.00	10.0	15.0
trans-1,3-Dichloropropene	DFB	Ave	24266 2663994	55812 5524064	614204	1274656	2043213	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloroethane	CBZ	Ave	16365 1586852	36080 3218840	366911	762110	1218734	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-6944-1 Analy Batch No.: 25331

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2011 13:01 Calibration End Date: 09/15/2011 18:16 Calibration ID: 9969

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	31617 3482209	64460 7476724	659655	1475540	2547545	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 2424763	53925 4777079	645311	1248133	1923266	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dibromochloromethane	CBZ	Ave	32092 4060191	71350 8643672	816919	1814214	3010406	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dibromoethane	CBZ	Ave	30905 3343604	66671 6960233	721796	1537543	2524418	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chlorobenzene	CBZ	Ave	54428 5128009	111614 10688611	1108431	2356148	3869399	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Ethylbenzene	CBZ	Ave	79319 7487945	169850 15016547	1720736	3580532	5709986	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Nonane	CBZ	Ave	33312 2770210	73966 5089533	754071	1475199	2231586	0.200 20.0	0.500 40.0	5.00	10.0	15.0
m,p-Xylene	CBZ	Ave	64170 6190956	139709 11565758	1418107	2990867	4801208	0.400 40.0	1.00 80.0	10.0	20.0	30.0
Xylene, o-	CBZ	Ave	31190 3123750	67339 6165613	700214	1473441	2372581	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Styrene	CBZ	Ave	39639 4826640	88373 9721979	1052591	2259551	3677019	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoform	CBZ	Ave	29771 4292887	64638 8811911	804358	1856810	3157702	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cumene	CBZ	Ave	91792 8967396	194623 17999472	2020566	4261036	6834967	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	43964 4010356	95228 7765425	977185	1996437	3121644	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Propylbenzene	CBZ	Ave	106568 9558785	229206 17007593	2382410	4880257	7560812	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,3-Trichloropropane	CBZ	Ave	+++++ 2918792	78715 5182440	775224	1531914	2337191	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Dodecane	CBZ	Ave	+++++ 2503311	+++++ 5488151	794152	1703392	1955775	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
n-Decane	CBZ	Ave	+++++ 3295207	94700 5806010	969768	1841456	2710371	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
4-Ethyltoluene	CBZ	Ave	92112 9034641	197895 16976181	2078283	4373696	7003496	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2-Chlorotoluene	CBZ	Ave	84743 7714495	184317 14878330	1858493	3804344	6022438	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3,5-Trimethylbenzene	CBZ	Ave	76600 7625921	166932 14994990	1724031	3645517	5846948	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Alpha Methyl Styrene	CBZ	Ave	30373 4216850	68942 8581154	883912	1949059	3198088	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-6944-1 Analy Batch No.: 25331

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2011 13:01 Calibration End Date: 09/15/2011 18:16 Calibration ID: 9969

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
tert-Butylbenzene	CBZ	Ave	77047 7547946	161120 15040124	1696566	3572233	5767841	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trimethylbenzene	CBZ	Ave	76214 7527048	162791 14978099	1734845	3641496	5828130	0.200 20.0	0.500 40.0	5.00	10.0	15.0
sec-Butylbenzene	CBZ	Ave	122969 10767416	254948 19947311	2523842	5232644	8328510	0.200 20.0	0.500 40.0	5.00	10.0	15.0
4-Isopropyltoluene	CBZ	Ave	94026 9646990	198618 18351763	2166708	4604845	7429152	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichlorobenzene	CBZ	Ave	57253 5846275	114382 11926354	1215094	2652200	4400928	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,4-Dichlorobenzene	CBZ	Ave	58622 5888949	115699 12031029	1236285	2692833	4486424	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzyl chloride	CBZ	Ave	58317 6747813	127832 13879999	1528635	3155979	5178334	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Undecane	CBZ	Ave	+++++ 2921476	+++++ 5022110	1022095	1884710	2553194	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
n-Butylbenzene	CBZ	Ave	81684 7157945	185539 12330569	1935184	3843810	5782611	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorobenzene	CBZ	Ave	56654 5571461	111434 11495716	1163322	2533789	4196626	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 4053019	73803 9299807	912056	2144263	3205664	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Hexachlorobutadiene	CBZ	Ave	32889 3642743	65782 7498090	756450	1732505	2788967	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Naphthalene	CBZ	Ave	+++++ 6694073	160729 18562084	1901221	4324385	5267279	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2,3-Trichlorobenzene	CBZ	Ave	33597 3320490	62837 8029671	786984	1869963	2628004	0.200 20.0	0.500 40.0	5.00	10.0	15.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkhto15.b/bkh003.d
Lab Smp Id: ic 201836 Client Smp ID: ic 201836
Inj Date : 15-SEP-2011 13:01
Operator : dpd Inst ID: B.i
Smp Info : ic 201836
Misc Info : 200,1, level 1
Comment :
Method : /chem/B.i/Bsvr.p/bkhto15.b/to15v5.m
Meth Date : 16-Sep-2011 09:56 pd Quant Type: ISTD
Cal Date : 15-SEP-2011 13:01 Cal File: bkh003.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	2.992	2.986	(0.326)	5037	0.20000	0.30(a)
2 Dichlorodifluoromethane	85	3.035	3.034	(0.331)	26657	0.20000	0.23(a)
3 Chlorodifluoromethane	51	3.067	3.066	(0.334)	11108	0.20000	0.25(a)
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.227	3.221	(0.352)	25583	0.20000	0.23
5 Chloromethane	50	3.333	3.333	(0.363)	5752	0.20000	0.25(a)
6 Butane	43	3.478	3.477	(0.379)	9202	0.20000	0.24(a)
7 Vinyl chloride	62	3.510	3.509	(0.382)	7428	0.20000	0.23
8 1,3-Butadiene	54	3.568	3.563	(0.389)	4884	0.20000	0.22
9 Bromomethane	94	4.123	4.113	(0.449)	12764	0.20000	0.23
10 Chloroethane	64	4.315	4.315	(0.470)	6280	0.20000	0.24(a)
11 2-Methylbutane	43	4.385	4.385	(0.478)	12286	0.20000	0.23
12 Vinyl bromide	106	4.689	4.689	(0.511)	15139	0.20000	0.22
13 Trichlorofluoromethane	101	4.780	4.785	(0.521)	42466	0.20000	0.23
14 Pentane	43	4.908	4.908	(0.535)	22719	0.20000	0.27(a)

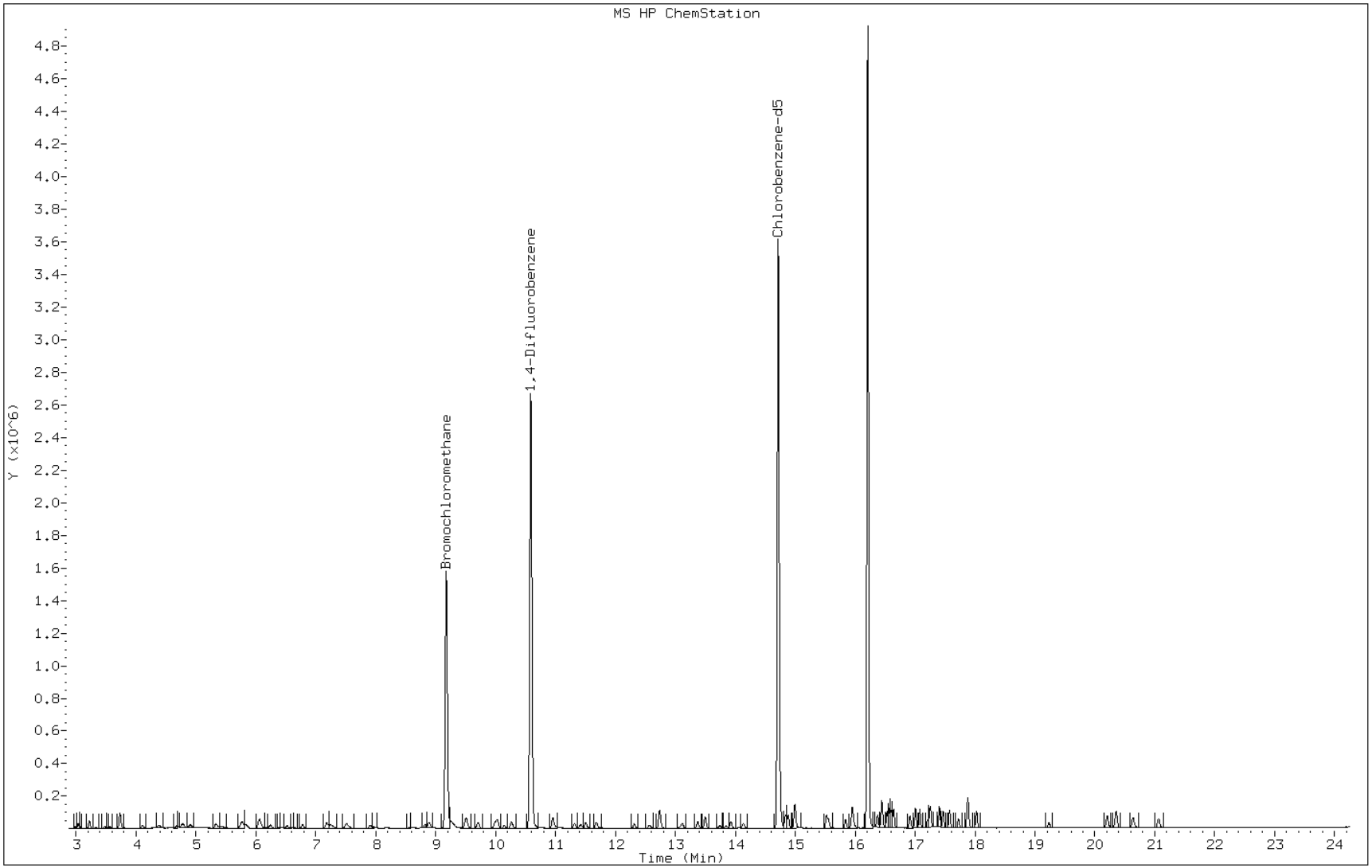
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	5.340	5.287	(0.582)	48825	0.20000	1.9(a)
	16 Ethyl ether	59	5.436	5.393	(0.592)	9459	0.20000	0.21(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.767	5.772	(0.628)	31216	0.20000	0.23
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	5.842	5.836	(0.637)	14609	0.20000	0.23
	20 Acetone	43	6.066	6.023	(0.661)	131443	0.20000	1.5(a)
	21 Carbon disulfide	76	6.247	6.247	(0.681)	42816	0.20000	0.23(a)
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	6.525	6.525	(0.711)	13461	0.20000	0.20(a)
	24 Acetonitrile	41	6.632	6.605	(0.723)	8874	0.20000	0.22(aQ)
	25 Methylene chloride	49	6.786	6.781	(0.739)	16948	0.20000	0.28(a)
	26 Tert-butyl alcohol	59	7.181	7.010	(0.782)	21398	0.20000	0.22(a)
	27 Methyl tert-butyl ether	73	7.256	7.165	(0.791)	40563	0.20000	0.22
	28 1,2-Dichloroethene (trans)	61	7.192	7.181	(0.784)	20094	0.20000	0.22(Q)
	29 Acrylonitrile	53	7.299	7.267	(0.795)	8607	0.20000	0.21(a)
	30 n-Hexane	57	7.518	7.512	(0.819)	23446	0.20000	0.24
	31 1,1-Dichloroethane	63	7.907	7.918	(0.862)	25827	0.20000	0.23
	32 Vinyl acetate	43	7.971	7.944	(0.869)	24333	0.20000	0.19(aM)
M	33 1,2-Dichloroethene,Total	61				35738	0.40000	0.44
	34 1,2-Dichloroethene (cis)	96	8.825	8.820	(0.962)	15644	0.20000	0.22
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	8.884	8.836	(0.968)	18328	0.20000	0.52(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	687797	10.0000	
	38 Tetrahydrofuran	42	9.305	9.225	(0.879)	13946	0.20000	0.24(a)
	39 Chloroform	83	9.257	9.263	(1.009)	32347	0.20000	0.23
	40 Cyclohexane	84	9.508	9.513	(0.898)	22800	0.20000	0.23
	41 1,1,1-Trichloroethane	97	9.503	9.508	(0.898)	35101	0.20000	0.22
	42 Carbon tetrachloride	117	9.711	9.711	(0.917)	36798	0.20000	0.21
	43 2,2,4-Trimethylpentane	57	10.005	9.999	(0.945)	68449	0.20000	0.23
	44 Benzene	78	10.037	10.031	(0.948)	50104	0.20000	0.24
	45 1,2-Dichloroethane	62	10.143	10.138	(0.958)	19996	0.20000	0.22
	46 n-Heptane	43	10.261	10.266	(0.969)	25773	0.20000	0.24
*	47 1,4-Difluorobenzene	114	10.586	10.592	(1.000)	3262358	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	10.949	10.949	(1.034)	22525	0.20000	0.23
	50 1,2-Dichloropropane	63	11.317	11.317	(1.069)	16306	0.20000	0.23
	51 Methyl methacrylate	69	11.424	11.387	(1.079)	13102	0.20000	0.19(a)
	52 Dibromomethane	174	11.504	11.504	(1.087)	19802	0.20000	0.21
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	11.680	11.680	(1.103)	32186	0.20000	0.21
	55 1,3-Dichloropropene (cis)	75	12.310	12.310	(1.163)	24407	0.20000	0.21
	56 Methyl isobutyl ketone	43	12.572	12.497	(1.188)	23241	0.20000	0.19(a)
	57 n-Octane	43	12.737	12.742	(1.203)	34128	0.20000	0.25(a)
	58 Toluene	92	12.737	12.732	(0.865)	39371	0.20000	0.24
	59 1,3-Dichloropropene (trans)	75	13.121	13.105	(1.239)	24266	0.20000	0.20
	60 1,1,2-Trichloroethane	83	13.372	13.372	(0.909)	16365	0.20000	0.22
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	31617	0.20000	0.21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	13.740	13.676	(0.934)	21190	0.20000	0.18(a)
	63 Dibromochloromethane	129	13.927	13.922	(0.946)	32092	0.20000	0.19(a)
	64 1,2-Dibromoethane	107	14.135	14.125	(0.960)	30905	0.20000	0.21
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	2941804	10.0000	
	66 Chlorobenzene	112	14.760	14.760	(1.003)	54428	0.20000	0.23
	67 n-Nonane	57	14.883	14.882	(1.011)	33312	0.20000	0.23
	68 Ethylbenzene	91	14.840	14.840	(1.008)	79319	0.20000	0.23
	69 Xylene (m,p)	106	14.995	14.994	(1.019)	64170	0.40000	0.44(a)
M	70 Xylenes, Total	106				95360	0.20000	0.66
	71 Xylene (o)	106	15.528	15.523	(1.055)	31190	0.20000	0.22
	72 Styrene	104	15.560	15.550	(1.057)	39639	0.20000	0.19(a)
	73 Bromoform	173	15.843	15.838	(1.077)	29771	0.20000	0.17(a)
	74 Isopropylbenzene	105	15.950	15.950	(1.084)	91792	0.20000	0.22
	75 1,1,2,2-Tetrachloroethane	83	16.377	16.377	(1.113)	43964	0.20000	0.23
	76 n-Propylbenzene	91	16.441	16.441	(1.117)	106568	0.20000	0.23
	77 1,2,3-Trichloropropane	75	16.457	16.451	(1.118)	37628	0.20000	0.26(a)
	78 n-Decane	57	16.532	16.532	(1.123)	41930	0.20000	0.25(a)
	79 4-Ethyltoluene	105	16.574	16.574	(1.126)	92112	0.20000	0.22
	80 2-Chlorotoluene	91	16.606	16.606	(1.128)	84743	0.20000	0.23
	81 1,3,5-Trimethylbenzene	105	16.644	16.644	(1.131)	76600	0.20000	0.22
	82 Alpha Methyl Styrene	118	16.921	16.916	(1.150)	30373	0.20000	0.17(a)
	83 tert-butylbenzene	119	17.007	17.012	(1.156)	77047	0.20000	0.22
	84 1,2,4-Trimethylbenzene	105	17.081	17.081	(1.161)	76214	0.20000	0.22
	85 sec-Butylbenzene	105	17.257	17.257	(1.173)	122969	0.20000	0.24
	86 4-Isopropyltoluene	119	17.407	17.407	(1.183)	94026	0.20000	0.21
	87 1,3-Dichlorobenzene	146	17.471	17.465	(1.187)	57253	0.20000	0.22
	88 1,4-Dichlorobenzene	146	17.578	17.578	(1.194)	58622	0.20000	0.22
	89 Benzyl chloride	91	17.727	17.722	(1.205)	58317	0.20000	0.19(a)
	90 Undecane	57	17.877	17.871	(1.215)	43109	0.20000	0.27(a)
	91 n-Butylbenzene	91	17.887	17.887	(1.215)	81684	0.20000	0.23
	92 1,2-Dichlorobenzene	146	18.031	18.026	(1.225)	56654	0.20000	0.23
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	20.203	20.198	(1.373)	40112	0.20000	0.21(a)
	95 1,3-Hexachlorobutadiene	225	20.353	20.358	(1.383)	32889	0.20000	0.21
	96 Naphthalene	128	20.636	20.625	(1.402)	96598	0.20000	0.27(a)
	97 1,2,3-Trichlorobenzene	180	21.063	21.057	(1.431)	33597	0.20000	0.21

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	bkh003.d	Date:	15-SEP-2011 13:01
Client ID:	ic 201836	Instrument:	B.i
Operator:	dpd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 201836		
Lab Sample ID:	ic 201836		



Manual Integration Report

Data File: bkh003.d
Lab Sample ID: ic 201836
Inj. Date and Time: 15-SEP-2011 13:01
Instrument ID: B.i
Client ID: ic 201836
Compound: 32 Vinyl acetate
CAS #: 108-05-4
Report Date: 09/16/2011

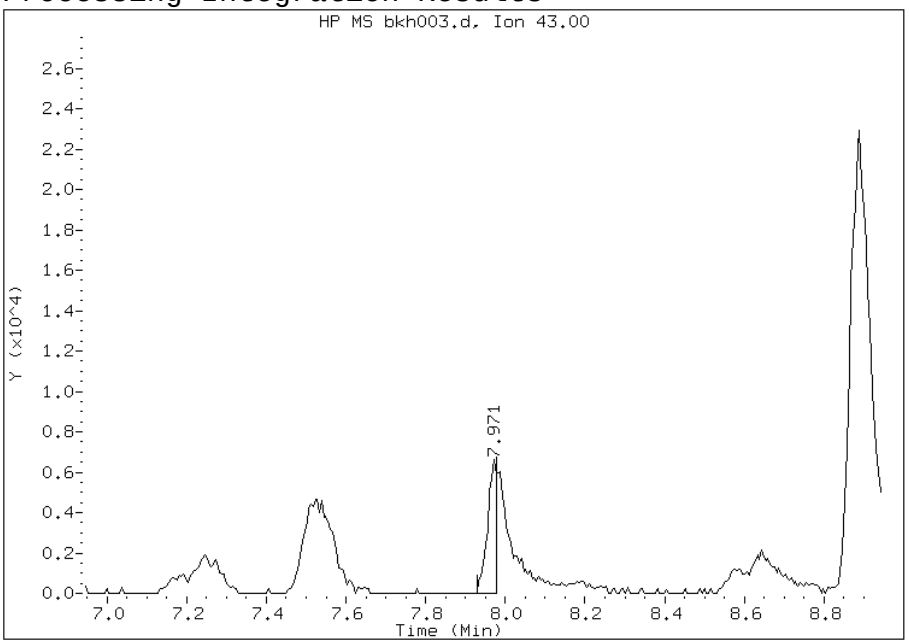
Processing Integration Results

RT: 7.97

Response: 10108

Amount: 0.079535

Conc: 0.079535



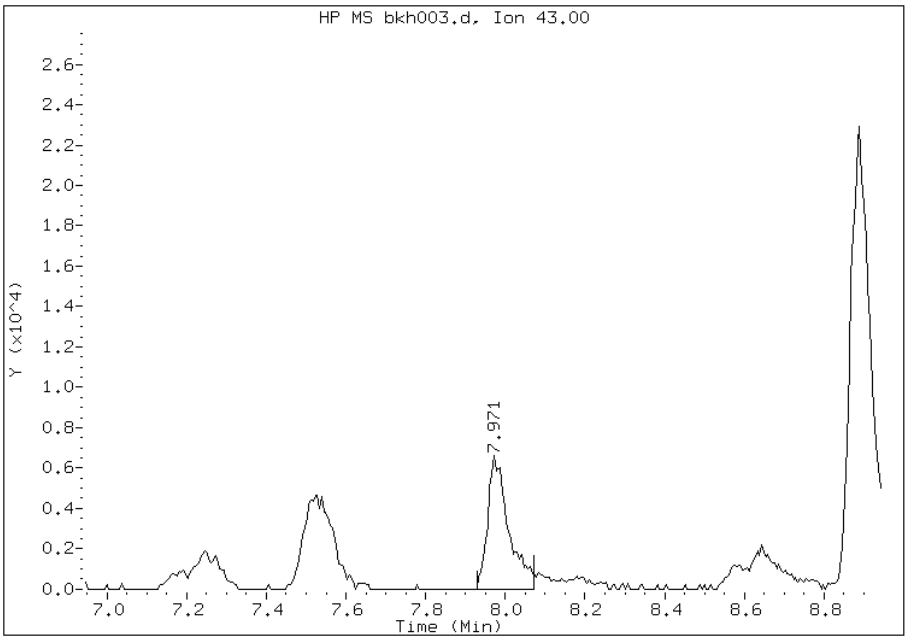
Manual Integration Results

RT: 7.97

Response: 24333

Amount: 0.191464

Conc: 0.191464



File Uploaded By: pd
Manual Integration Reason: Baseline event

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkhto15.b/bkh004.d
Lab Smp Id: ic 201802 Client Smp ID: ic 201802
Inj Date : 15-SEP-2011 13:53
Operator : dpd Inst ID: B.i
Smp Info : ic 201802
Misc Info : 200,1, level 2
Comment :
Method : /chem/B.i/Bsvr.p/bkhto15.b/to15v5.m
Meth Date : 16-Sep-2011 09:56 pd Quant Type: ISTD
Cal Date : 15-SEP-2011 13:53 Cal File: bkh004.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	2.986	2.986	(0.325)	10078	0.50000	0.64(a)
2 Dichlorodifluoromethane	85	3.034	3.034	(0.331)	61534	0.50000	0.58
3 Chlorodifluoromethane	51	3.066	3.066	(0.334)	24191	0.50000	0.59
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.221	3.221	(0.351)	58217	0.50000	0.57
5 Chloromethane	50	3.333	3.333	(0.363)	12655	0.50000	0.60
6 Butane	43	3.477	3.477	(0.379)	20908	0.50000	0.59
7 Vinyl chloride	62	3.509	3.509	(0.382)	16585	0.50000	0.55
8 1,3-Butadiene	54	3.563	3.563	(0.388)	11850	0.50000	0.56
9 Bromomethane	94	4.112	4.113	(0.448)	28442	0.50000	0.56
10 Chloroethane	64	4.315	4.315	(0.470)	13769	0.50000	0.57
11 2-Methylbutane	43	4.385	4.385	(0.478)	28603	0.50000	0.59
12 Vinyl bromide	106	4.683	4.689	(0.510)	33410	0.50000	0.53
13 Trichlorofluoromethane	101	4.779	4.785	(0.521)	92774	0.50000	0.54
14 Pentane	43	4.913	4.908	(0.535)	48687	0.50000	0.62

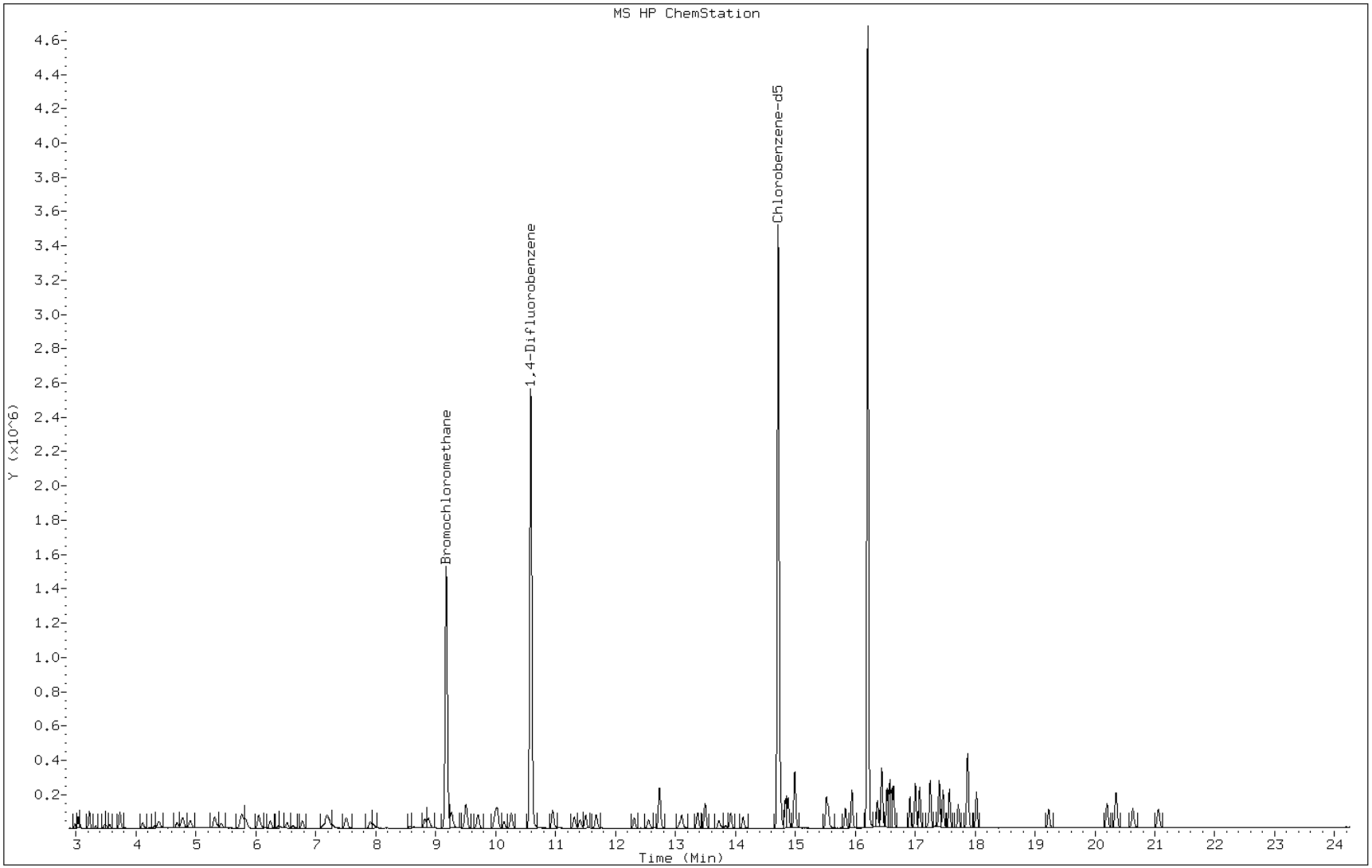
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	5.313	5.287	(0.579)	131746	5.00000	5.6
	16 Ethyl ether	59	5.436	5.393	(0.592)	22533	0.50000	0.54
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.767	5.772	(0.628)	67871	0.50000	0.53
	18 Acrolein	56	5.756	5.740	(0.627)	15380	0.50000	0.78(a)
	19 1,1-Dichloroethene	96	5.836	5.836	(0.636)	30784	0.50000	0.51
	20 Acetone	43	6.050	6.023	(0.659)	161227	0.50000	2.0(a)
	21 Carbon disulfide	76	6.247	6.247	(0.681)	95580	0.50000	0.55
	22 Isopropanol	45	6.386	6.306	(0.696)	33502	0.50000	0.60(a)
	23 Allyl chloride	41	6.530	6.525	(0.712)	32859	0.50000	0.54
	24 Acetonitrile	41	6.621	6.605	(0.721)	20891	0.50000	0.56(a)
	25 Methylene chloride	49	6.786	6.781	(0.739)	34305	0.50000	0.61
	26 Tert-butyl alcohol	59	7.144	7.010	(0.778)	49204	0.50000	0.54(a)
	27 Methyl tert-butyl ether	73	7.224	7.165	(0.787)	91430	0.50000	0.53
	28 1,2-Dichloroethene (trans)	61	7.186	7.181	(0.783)	46334	0.50000	0.55
	29 Acrylonitrile	53	7.288	7.267	(0.794)	21198	0.50000	0.55
	30 n-Hexane	57	7.507	7.512	(0.818)	50532	0.50000	0.55
	31 1,1-Dichloroethane	63	7.907	7.918	(0.862)	58351	0.50000	0.55
	32 Vinyl acetate	43	7.960	7.944	(0.867)	58976	0.50000	0.50(a)
M	33 1,2-Dichloroethene,Total	61				80843	1.00000	1.1
	34 1,2-Dichloroethene (cis)	96	8.814	8.820	(0.960)	34509	0.50000	0.51
	35 Ethyl acetate	88	8.889	8.857	(0.969)	2564	0.50000	0.46(a)
	36 Methyl Ethyl Ketone	72	8.873	8.836	(0.967)	23335	0.50000	0.71(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	638289	10.0000	
	38 Tetrahydrofuran	42	9.284	9.225	(0.877)	32318	0.50000	0.58(a)
	39 Chloroform	83	9.257	9.263	(1.009)	70147	0.50000	0.53
	40 Cyclohexane	84	9.508	9.513	(0.898)	50650	0.50000	0.54
	41 1,1,1-Trichloroethane	97	9.503	9.508	(0.898)	75582	0.50000	0.51
	42 Carbon tetrachloride	117	9.711	9.711	(0.917)	79945	0.50000	0.49
	43 2,2,4-Trimethylpentane	57	9.999	9.999	(0.945)	153233	0.50000	0.54
	44 Benzene	78	10.031	10.031	(0.948)	105777	0.50000	0.53
	45 1,2-Dichloroethane	62	10.143	10.138	(0.958)	44306	0.50000	0.53
	46 n-Heptane	43	10.266	10.266	(0.970)	56529	0.50000	0.57
*	47 1,4-Difluorobenzene	114	10.586	10.592	(1.000)	3072907	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	10.954	10.949	(1.035)	46001	0.50000	0.50
	50 1,2-Dichloropropane	63	11.317	11.317	(1.069)	35845	0.50000	0.53
	51 Methyl methacrylate	69	11.408	11.387	(1.078)	28502	0.50000	0.44(a)
	52 Dibromomethane	174	11.499	11.504	(1.086)	40295	0.50000	0.45
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	11.680	11.680	(1.103)	72208	0.50000	0.50
	55 1,3-Dichloropropene (cis)	75	12.315	12.310	(1.163)	53377	0.50000	0.48
	56 Methyl isobutyl ketone	43	12.550	12.497	(1.186)	56570	0.50000	0.49(a)
	57 n-Octane	43	12.742	12.742	(1.204)	74550	0.50000	0.58
	58 Toluene	92	12.737	12.732	(0.865)	78195	0.50000	0.51
	59 1,3-Dichloropropene (trans)	75	13.105	13.105	(1.238)	55812	0.50000	0.48
	60 1,1,2-Trichloroethane	83	13.372	13.372	(0.909)	36080	0.50000	0.51
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	64460	0.50000	0.45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	13.724	13.676	(0.933)	53925	0.50000	0.49(a)
	63 Dibromochloromethane	129	13.927	13.922	(0.946)	71350	0.50000	0.44
	64 1,2-Dibromoethane	107	14.135	14.125	(0.960)	66671	0.50000	0.47
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	2799679	10.0000	
	66 Chlorobenzene	112	14.754	14.760	(1.003)	111614	0.50000	0.49
	67 n-Nonane	57	14.882	14.882	(1.011)	73966	0.50000	0.55
	68 Ethylbenzene	91	14.840	14.840	(1.008)	169850	0.50000	0.51
	69 Xylene (m,p)	106	14.994	14.994	(1.019)	139709	1.00000	1.0
M	70 Xylenes, Total	106				207048	0.50000	1.5
	71 Xylene (o)	106	15.517	15.523	(1.054)	67339	0.50000	0.49
	72 Styrene	104	15.555	15.550	(1.057)	88373	0.50000	0.44
	73 Bromoform	173	15.843	15.838	(1.077)	64638	0.50000	0.39
	74 Isopropylbenzene	105	15.950	15.950	(1.084)	194623	0.50000	0.49
	75 1,1,2,2-Tetrachloroethane	83	16.371	16.377	(1.112)	95228	0.50000	0.52
	76 n-Propylbenzene	91	16.441	16.441	(1.117)	229206	0.50000	0.52
	77 1,2,3-Trichloropropane	75	16.451	16.451	(1.118)	78715	0.50000	0.58
	78 n-Decane	57	16.531	16.532	(1.123)	94700	0.50000	0.59
	79 4-Ethyltoluene	105	16.569	16.574	(1.126)	197895	0.50000	0.50
	80 2-Chlorotoluene	91	16.606	16.606	(1.128)	184317	0.50000	0.52
	81 1,3,5-Trimethylbenzene	105	16.638	16.644	(1.131)	166932	0.50000	0.50
	82 Alpha Methyl Styrene	118	16.916	16.916	(1.149)	68942	0.50000	0.41
	83 tert-butylbenzene	119	17.006	17.012	(1.156)	161120	0.50000	0.49
	84 1,2,4-Trimethylbenzene	105	17.076	17.081	(1.160)	162791	0.50000	0.49
	85 sec-Butylbenzene	105	17.257	17.257	(1.173)	254948	0.50000	0.52
	86 4-Isopropyltoluene	119	17.407	17.407	(1.183)	198618	0.50000	0.48
	87 1,3-Dichlorobenzene	146	17.465	17.465	(1.187)	114382	0.50000	0.46
	88 1,4-Dichlorobenzene	146	17.577	17.578	(1.194)	115699	0.50000	0.46
	89 Benzyl chloride	91	17.721	17.722	(1.204)	127832	0.50000	0.45
	90 Undecane	57	17.871	17.871	(1.214)	101847	0.50000	0.67(a)
	91 n-Butylbenzene	91	17.882	17.887	(1.215)	185539	0.50000	0.54
	92 1,2-Dichlorobenzene	146	18.026	18.026	(1.225)	111434	0.50000	0.47
	93 Dodecane	57	19.226	19.227	(1.306)	56478	0.50000	0.44(a)
	94 1,2,4-Trichlorobenzene	180	20.203	20.198	(1.373)	73803	0.50000	0.41(a)
	95 1,3-Hexachlorobutadiene	225	20.358	20.358	(1.383)	65782	0.50000	0.43
	96 Naphthalene	128	20.630	20.625	(1.402)	160729	0.50000	0.47(a)
	97 1,2,3-Trichlorobenzene	180	21.057	21.057	(1.431)	62837	0.50000	0.41

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File:	bkh004.d	Date:	15-SEP-2011 13:53
Client ID:	ic 201802	Instrument:	B.i
Operator:	dpd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 201802		
Lab Sample ID:	ic 201802		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkhto15.b/bkh005.d
Lab Smp Id: ic 201717 Client Smp ID: ic 201717
Inj Date : 15-SEP-2011 14:46
Operator : dpd Inst ID: B.i
Smp Info : ic 201717
Misc Info : 200,1, level 3
Comment :
Method : /chem/B.i/Bsvr.p/bkhto15.b/to15v5.m
Meth Date : 16-Sep-2011 09:56 pd Quant Type: ISTD
Cal Date : 15-SEP-2011 14:46 Cal File: bkh005.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	2.986	2.986	(0.325)	89144	5.00000	5.9
2 Dichlorodifluoromethane	85	3.034	3.034	(0.331)	604164	5.00000	5.9
3 Chlorodifluoromethane	51	3.066	3.066	(0.334)	238004	5.00000	6.0
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.221	3.221	(0.351)	567063	5.00000	5.7
5 Chloromethane	50	3.333	3.333	(0.363)	121206	5.00000	5.9
6 Butane	43	3.477	3.477	(0.379)	204929	5.00000	6.0
7 Vinyl chloride	62	3.509	3.509	(0.382)	167050	5.00000	5.7
8 1,3-Butadiene	54	3.563	3.563	(0.388)	119948	5.00000	5.9
9 Bromomethane	94	4.112	4.113	(0.448)	266839	5.00000	5.4
10 Chloroethane	64	4.315	4.315	(0.470)	137913	5.00000	5.9
11 2-Methylbutane	43	4.385	4.385	(0.478)	280531	5.00000	6.0
12 Vinyl bromide	106	4.689	4.689	(0.511)	322445	5.00000	5.3
13 Trichlorofluoromethane	101	4.779	4.785	(0.521)	898750	5.00000	5.4
14 Pentane	43	4.908	4.908	(0.535)	456398	5.00000	6.0

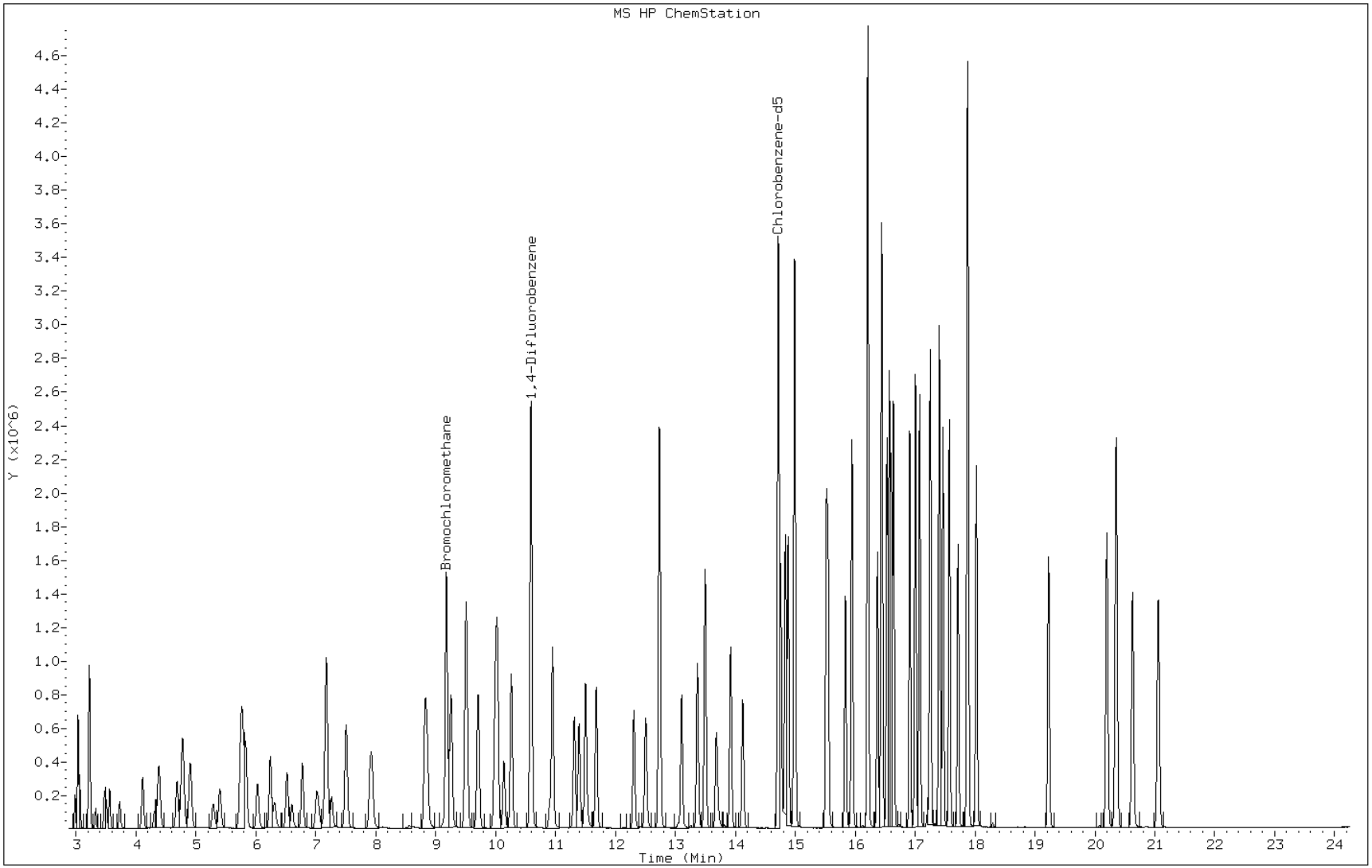
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	5.292	5.287	(0.577)	273266	10.0000	12
	16 Ethyl ether	59	5.399	5.393	(0.588)	227969	5.00000	5.6
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.772	5.772	(0.629)	644838	5.00000	5.2
	18 Acrolein	56	5.740	5.740	(0.625)	119991	5.00000	6.3
	19 1,1-Dichloroethene	96	5.836	5.836	(0.636)	305470	5.00000	5.3
	20 Acetone	43	6.034	6.023	(0.657)	540024	5.00000	7.1
	21 Carbon disulfide	76	6.247	6.247	(0.681)	920988	5.00000	5.5
	22 Isopropanol	45	6.316	6.306	(0.688)	337901	5.00000	6.2
	23 Allyl chloride	41	6.519	6.525	(0.710)	354947	5.00000	6.0
	24 Acetonitrile	41	6.610	6.605	(0.720)	225586	5.00000	6.3
	25 Methylene chloride	49	6.781	6.781	(0.739)	316708	5.00000	5.9
	26 Tert-butyl alcohol	59	7.021	7.010	(0.765)	524616	5.00000	6.0
	27 Methyl tert-butyl ether	73	7.176	7.165	(0.782)	921071	5.00000	5.5
	28 1,2-Dichloroethene (trans)	61	7.181	7.181	(0.782)	469116	5.00000	5.7
	29 Acrylonitrile	53	7.266	7.267	(0.792)	214029	5.00000	5.7
	30 n-Hexane	57	7.507	7.512	(0.818)	503937	5.00000	5.6
	31 1,1-Dichloroethane	63	7.912	7.918	(0.862)	575628	5.00000	5.6
	32 Vinyl acetate	43	7.950	7.944	(0.866)	668756	5.00000	5.9
M	33 1,2-Dichloroethene,Total	61				815299	10.0000	11
	34 1,2-Dichloroethene (cis)	96	8.814	8.820	(0.960)	346183	5.00000	5.3
	35 Ethyl acetate	88	8.862	8.857	(0.966)	29111	5.00000	5.4
	36 Methyl Ethyl Ketone	72	8.836	8.836	(0.963)	171827	5.00000	5.4(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	618091	10.0000	
	38 Tetrahydrofuran	42	9.236	9.225	(0.872)	328944	5.00000	6.1
	39 Chloroform	83	9.262	9.263	(1.009)	689006	5.00000	5.4
	40 Cyclohexane	84	9.508	9.513	(0.898)	476652	5.00000	5.2
	41 1,1,1-Trichloroethane	97	9.503	9.508	(0.897)	750725	5.00000	5.2
	42 Carbon tetrachloride	117	9.705	9.711	(0.916)	811929	5.00000	5.1
	43 2,2,4-Trimethylpentane	57	9.999	9.999	(0.944)	1546543	5.00000	5.6
	44 Benzene	78	10.031	10.031	(0.947)	1010541	5.00000	5.3
	45 1,2-Dichloroethane	62	10.138	10.138	(0.957)	448183	5.00000	5.5
	46 n-Heptane	43	10.266	10.266	(0.969)	550283	5.00000	5.7
*	47 1,4-Difluorobenzene	114	10.591	10.592	(1.000)	2982601	10.0000	
	48 n-Butanol	56	10.906	10.885	(1.030)	164581	5.00000	5.7
	49 Trichloroethene	95	10.949	10.949	(1.034)	468307	5.00000	5.2
	50 1,2-Dichloropropane	63	11.312	11.317	(1.068)	361190	5.00000	5.5
	51 Methyl methacrylate	69	11.392	11.387	(1.076)	350670	5.00000	5.5
	52 Dibromomethane	174	11.499	11.504	(1.086)	410297	5.00000	4.7
	53 1,4-Dioxane	88	11.520	11.504	(1.088)	154170	5.00000	5.6
	54 Bromodichloromethane	83	11.680	11.680	(1.103)	760260	5.00000	5.4
	55 1,3-Dichloropropene (cis)	75	12.310	12.310	(1.162)	581992	5.00000	5.4
	56 Methyl isobutyl ketone	43	12.507	12.497	(1.181)	662876	5.00000	6.0
	57 n-Octane	43	12.737	12.742	(1.203)	756913	5.00000	6.1
	58 Toluene	92	12.731	12.732	(0.865)	783869	5.00000	5.2
	59 1,3-Dichloropropene (trans)	75	13.105	13.105	(1.237)	614204	5.00000	5.5
	60 1,1,2-Trichloroethane	83	13.367	13.372	(0.908)	366911	5.00000	5.3
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	659655	5.00000	4.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	13.681	13.676	(0.930)	645311	5.00000	6.0
	63 Dibromochloromethane	129	13.922	13.922	(0.946)	816919	5.00000	5.1
	64 1,2-Dibromoethane	107	14.124	14.125	(0.960)	721796	5.00000	5.2
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	2742239	10.0000	
	66 Chlorobenzene	112	14.759	14.760	(1.003)	1108431	5.00000	5.0
	67 n-Nonane	57	14.882	14.882	(1.011)	754071	5.00000	5.7
	68 Ethylbenzene	91	14.834	14.840	(1.008)	1720736	5.00000	5.2
	69 Xylene (m,p)	106	14.989	14.994	(1.018)	1418107	10.0000	11
M	70 Xylenes, Total	106				2118321	5.00000	16
	71 Xylene (o)	106	15.523	15.523	(1.055)	700214	5.00000	5.2
	72 Styrene	104	15.549	15.550	(1.057)	1052591	5.00000	5.4
	73 Bromoform	173	15.838	15.838	(1.076)	804358	5.00000	5.0
	74 Isopropylbenzene	105	15.950	15.950	(1.084)	2020566	5.00000	5.2
	75 1,1,2,2-Tetrachloroethane	83	16.371	16.377	(1.112)	977185	5.00000	5.4
	76 n-Propylbenzene	91	16.441	16.441	(1.117)	2382410	5.00000	5.5
	77 1,2,3-Trichloropropane	75	16.451	16.451	(1.118)	775224	5.00000	5.8
	78 n-Decane	57	16.531	16.532	(1.123)	969768	5.00000	6.1
	79 4-Ethyltoluene	105	16.569	16.574	(1.126)	2078283	5.00000	5.3
	80 2-Chlorotoluene	91	16.601	16.606	(1.128)	1858493	5.00000	5.4
	81 1,3,5-Trimethylbenzene	105	16.643	16.644	(1.131)	1724031	5.00000	5.2
	82 Alpha Methyl Styrene	118	16.916	16.916	(1.149)	883912	5.00000	5.4
	83 tert-butylbenzene	119	17.006	17.012	(1.156)	1696566	5.00000	5.2
	84 1,2,4-Trimethylbenzene	105	17.081	17.081	(1.161)	1734845	5.00000	5.3
	85 sec-Butylbenzene	105	17.257	17.257	(1.173)	2523842	5.00000	5.3
	86 4-Isopropyltoluene	119	17.407	17.407	(1.183)	2166708	5.00000	5.3
	87 1,3-Dichlorobenzene	146	17.465	17.465	(1.187)	1215094	5.00000	5.0
	88 1,4-Dichlorobenzene	146	17.572	17.578	(1.194)	1236285	5.00000	5.0
	89 Benzyl chloride	91	17.716	17.722	(1.204)	1528635	5.00000	5.5
	90 Undecane	57	17.871	17.871	(1.214)	1022095	5.00000	6.9
	91 n-Butylbenzene	91	17.882	17.887	(1.215)	1935184	5.00000	5.8
	92 1,2-Dichlorobenzene	146	18.026	18.026	(1.225)	1163322	5.00000	5.0
	93 Dodecane	57	19.221	19.227	(1.306)	794152	5.00000	6.3
	94 1,2,4-Trichlorobenzene	180	20.198	20.198	(1.372)	912056	5.00000	5.2
	95 1,3-Hexachlorobutadiene	225	20.353	20.358	(1.383)	756450	5.00000	5.1
	96 Naphthalene	128	20.625	20.625	(1.401)	1901221	5.00000	5.6
	97 1,2,3-Trichlorobenzene	180	21.057	21.057	(1.431)	786984	5.00000	5.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File:	bkh005.d	Date:	15-SEP-2011 14:46
Client ID:	ic 201717	Instrument:	B.i
Operator:	dpd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 201717		
Lab Sample ID:	ic 201717		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkhto15.b/bkh006.d
Lab Smp Id: icis 201712 Client Smp ID: icis 201712
Inj Date : 15-SEP-2011 15:38
Operator : dpd Inst ID: B.i
Smp Info : icis 201712
Misc Info : 200,1, level 4
Comment :
Method : /chem/B.i/Bsvr.p/bkhto15.b/to15v5.m
Meth Date : 16-Sep-2011 09:57 pd Quant Type: ISTD
Cal Date : 15-SEP-2011 15:38 Cal File: bkh006.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

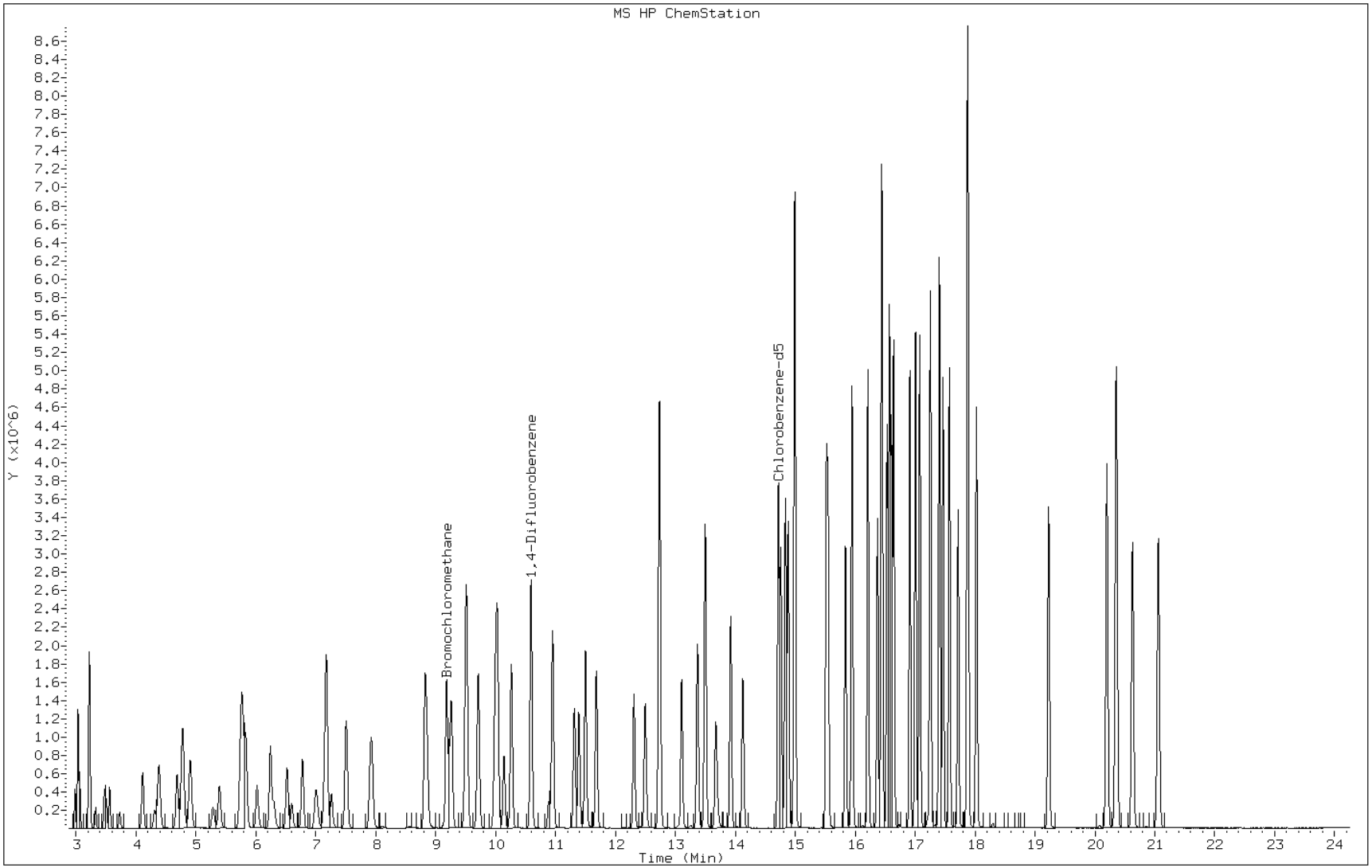
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	2.986	2.986	(0.325)	167068	10.0000	10
2 Dichlorodifluoromethane	85	3.034	3.034	(0.330)	1173654	10.0000	10
3 Chlorodifluoromethane	51	3.066	3.066	(0.334)	456659	10.0000	10
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.221	3.221	(0.351)	1105796	10.0000	10
5 Chloromethane	50	3.333	3.333	(0.363)	231226	10.0000	10
6 Butane	43	3.477	3.477	(0.379)	392384	10.0000	10
7 Vinyl chloride	62	3.509	3.509	(0.382)	325800	10.0000	10
8 1,3-Butadiene	54	3.563	3.563	(0.388)	231482	10.0000	10
9 Bromomethane	94	4.113	4.113	(0.448)	545037	10.0000	10
10 Chloroethane	64	4.315	4.315	(0.470)	267183	10.0000	10
11 2-Methylbutane	43	4.385	4.385	(0.478)	517710	10.0000	10
12 Vinyl bromide	106	4.689	4.689	(0.511)	677051	10.0000	10
13 Trichlorofluoromethane	101	4.785	4.785	(0.521)	1840887	10.0000	10
14 Pentane	43	4.908	4.908	(0.534)	874842	10.0000	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	5.287	5.287	(0.576)	434797	15.0000	18
	16 Ethyl ether	59	5.393	5.393	(0.587)	463640	10.0000	10
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.772	5.772	(0.629)	1329542	10.0000	9.9
	18 Acrolein	56	5.740	5.740	(0.625)	196674	10.0000	9.4
	19 1,1-Dichloroethene	96	5.836	5.836	(0.636)	629460	10.0000	9.9
	20 Acetone	43	6.023	6.023	(0.656)	922301	10.0000	11
	21 Carbon disulfide	76	6.247	6.247	(0.680)	1923416	10.0000	10
	22 Isopropanol	45	6.306	6.306	(0.687)	629574	10.0000	11
	23 Allyl chloride	41	6.525	6.525	(0.711)	693641	10.0000	11
	24 Acetonitrile	41	6.605	6.605	(0.719)	427611	10.0000	11
	25 Methylene chloride	49	6.781	6.781	(0.738)	608434	10.0000	10
	26 Tert-butyl alcohol	59	7.010	7.010	(0.763)	985997	10.0000	10
	27 Methyl tert-butyl ether	73	7.165	7.165	(0.780)	1880449	10.0000	10
	28 1,2-Dichloroethene (trans)	61	7.181	7.181	(0.782)	918856	10.0000	10
	29 Acrylonitrile	53	7.267	7.267	(0.791)	429738	10.0000	10
	30 n-Hexane	57	7.512	7.512	(0.818)	983820	10.0000	10
	31 1,1-Dichloroethane	63	7.918	7.918	(0.862)	1132294	10.0000	10
	32 Vinyl acetate	43	7.944	7.944	(0.865)	1368539	10.0000	11
M	33 1,2-Dichloroethene,Total	61				1640670	20.0000	20
	34 1,2-Dichloroethene (cis)	96	8.820	8.820	(0.960)	721814	10.0000	10
	35 Ethyl acetate	88	8.857	8.857	(0.965)	61301	10.0000	10
	36 Methyl Ethyl Ketone	72	8.836	8.836	(0.962)	346009	10.0000	10
*	37 Bromochloromethane	128	9.183	9.183	(1.000)	676647	10.0000	
	38 Tetrahydrofuran	42	9.225	9.225	(0.871)	630284	10.0000	11
	39 Chloroform	83	9.263	9.263	(1.009)	1394946	10.0000	10
	40 Cyclohexane	84	9.513	9.513	(0.898)	993796	10.0000	9.9
	41 1,1,1-Trichloroethane	97	9.508	9.508	(0.898)	1551472	10.0000	9.9
	42 Carbon tetrachloride	117	9.711	9.711	(0.917)	1719282	10.0000	9.9
	43 2,2,4-Trimethylpentane	57	9.999	9.999	(0.944)	3048213	10.0000	10
	44 Benzene	78	10.031	10.031	(0.947)	2049713	10.0000	9.8
	45 1,2-Dichloroethane	62	10.138	10.138	(0.957)	889892	10.0000	10
	46 n-Heptane	43	10.266	10.266	(0.969)	1056668	10.0000	10
*	47 1,4-Difluorobenzene	114	10.592	10.592	(1.000)	3253233	10.0000	
	48 n-Butanol	56	10.885	10.885	(1.028)	336332	10.0000	11
	49 Trichloroethene	95	10.949	10.949	(1.034)	962604	10.0000	9.8
	50 1,2-Dichloropropane	63	11.317	11.317	(1.069)	726204	10.0000	10
	51 Methyl methacrylate	69	11.387	11.387	(1.075)	727797	10.0000	10
	52 Dibromomethane	174	11.504	11.504	(1.086)	929757	10.0000	9.8
	53 1,4-Dioxane	88	11.504	11.504	(1.086)	303554	10.0000	10
	54 Bromodichloromethane	83	11.680	11.680	(1.103)	1560759	10.0000	10
	55 1,3-Dichloropropene (cis)	75	12.310	12.310	(1.162)	1207063	10.0000	10
	56 Methyl isobutyl ketone	43	12.497	12.497	(1.180)	1296897	10.0000	11
	57 n-Octane	43	12.742	12.742	(1.203)	1395733	10.0000	10
	58 Toluene	92	12.732	12.732	(0.865)	1624227	10.0000	9.9
	59 1,3-Dichloropropene (trans)	75	13.105	13.105	(1.237)	1274656	10.0000	10
	60 1,1,2-Trichloroethane	83	13.372	13.372	(0.908)	762110	10.0000	10
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	1475540	10.0000	9.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	13.676	13.676	(0.929)	1248133	10.0000	11
	63 Dibromochloromethane	129	13.922	13.922	(0.946)	1814214	10.0000	10
	64 1,2-Dibromoethane	107	14.125	14.125	(0.959)	1537543	10.0000	10
*	65 Chlorobenzene-d5	117	14.722	14.722	(1.000)	2986355	10.0000	
	66 Chlorobenzene	112	14.760	14.760	(1.003)	2356148	10.0000	9.8
	67 n-Nonane	57	14.882	14.882	(1.011)	1475199	10.0000	10
	68 Ethylbenzene	91	14.840	14.840	(1.008)	3580532	10.0000	10
	69 Xylene (m,p)	106	14.994	14.994	(1.018)	2990867	20.0000	20
M	70 Xylenes, Total	106				4464308	10.0000	31
	71 Xylene (o)	106	15.523	15.523	(1.054)	1473441	10.0000	10
	72 Styrene	104	15.550	15.550	(1.056)	2259551	10.0000	11
	73 Bromoform	173	15.838	15.838	(1.076)	1856810	10.0000	11
	74 Isopropylbenzene	105	15.950	15.950	(1.083)	4261036	10.0000	10
	75 1,1,2,2-Tetrachloroethane	83	16.377	16.377	(1.112)	1996437	10.0000	10
	76 n-Propylbenzene	91	16.441	16.441	(1.117)	4880257	10.0000	10
	77 1,2,3-Trichloropropane	75	16.451	16.451	(1.117)	1531914	10.0000	11
	78 n-Decane	57	16.532	16.532	(1.123)	1841456	10.0000	11
	79 4-Ethyltoluene	105	16.574	16.574	(1.126)	4373696	10.0000	10
	80 2-Chlorotoluene	91	16.606	16.606	(1.128)	3804344	10.0000	10
	81 1,3,5-Trimethylbenzene	105	16.644	16.644	(1.131)	3645517	10.0000	10
	82 Alpha Methyl Styrene	118	16.916	16.916	(1.149)	1949059	10.0000	11
	83 tert-butylbenzene	119	17.012	17.012	(1.155)	3572233	10.0000	10
	84 1,2,4-Trimethylbenzene	105	17.081	17.081	(1.160)	3641496	10.0000	10
	85 sec-Butylbenzene	105	17.257	17.257	(1.172)	5232644	10.0000	10
	86 4-Isopropyltoluene	119	17.407	17.407	(1.182)	4604845	10.0000	10
	87 1,3-Dichlorobenzene	146	17.465	17.465	(1.186)	2652200	10.0000	10
	88 1,4-Dichlorobenzene	146	17.578	17.578	(1.194)	2692833	10.0000	10
	89 Benzyl chloride	91	17.722	17.722	(1.204)	3155979	10.0000	10
	90 Undecane	57	17.871	17.871	(1.214)	1884710	10.0000	12
	91 n-Butylbenzene	91	17.887	17.887	(1.215)	3843810	10.0000	11
	92 1,2-Dichlorobenzene	146	18.026	18.026	(1.224)	2533789	10.0000	9.9
	93 Dodecane	57	19.227	19.227	(1.306)	1703392	10.0000	12
	94 1,2,4-Trichlorobenzene	180	20.198	20.198	(1.372)	2144263	10.0000	11
	95 1,3-Hexachlorobutadiene	225	20.358	20.358	(1.383)	1732505	10.0000	11
	96 Naphthalene	128	20.625	20.625	(1.401)	4324385	10.0000	12
	97 1,2,3-Trichlorobenzene	180	21.057	21.057	(1.430)	1869963	10.0000	11

Data File:	bkh006.d	Date:	15-SEP-2011 15:38
Client ID:	icis 201712	Instrument:	B.i
Operator:	dpd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	icis 201712		
Lab Sample ID:	icis 201712		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkhto15.b/bkh007.d
Lab Smp Id: ic 201699 Client Smp ID: ic 201699
Inj Date : 15-SEP-2011 16:31
Operator : dpd Inst ID: B.i
Smp Info : ic 201699
Misc Info : 200,1, level 5
Comment :
Method : /chem/B.i/Bsvr.p/bkhto15.b/to15v5.m
Meth Date : 16-Sep-2011 09:57 pd Quant Type: ISTD
Cal Date : 15-SEP-2011 16:31 Cal File: bkh007.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

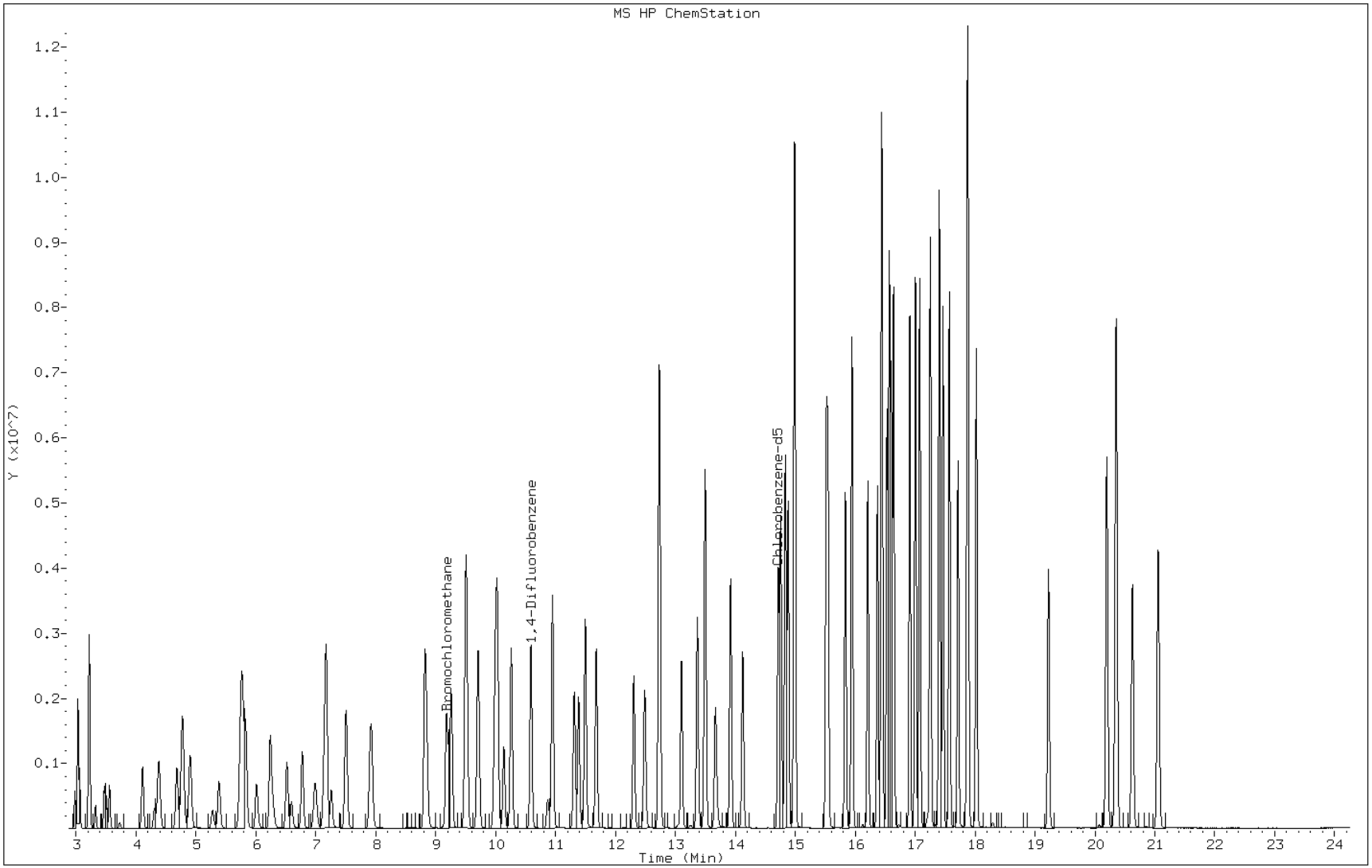
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	2.981	2.986	(0.325)	256759	15.0000	14
2 Dichlorodifluoromethane	85	3.034	3.034	(0.331)	1785698	15.0000	14
3 Chlorodifluoromethane	51	3.061	3.066	(0.334)	687181	15.0000	14
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.221	3.221	(0.351)	1691635	15.0000	14
5 Chloromethane	50	3.328	3.333	(0.363)	352276	15.0000	14
6 Butane	43	3.472	3.477	(0.378)	587036	15.0000	14
7 Vinyl chloride	62	3.504	3.509	(0.382)	497112	15.0000	14
8 1,3-Butadiene	54	3.563	3.563	(0.388)	348892	15.0000	14
9 Bromomethane	94	4.112	4.113	(0.448)	848621	15.0000	14
10 Chloroethane	64	4.310	4.315	(0.470)	410570	15.0000	15
11 2-Methylbutane	43	4.379	4.385	(0.477)	777360	15.0000	14
12 Vinyl bromide	106	4.683	4.689	(0.510)	1089834	15.0000	15
13 Trichlorofluoromethane	101	4.779	4.785	(0.521)	2915503	15.0000	15
14 Pentane	43	4.908	4.908	(0.535)	1312377	15.0000	14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
15 Ethanol	45	5.281	5.287	(0.575)	507166	20.0000	19
16 Ethyl ether	59	5.388	5.393	(0.587)	723838	15.0000	15
17 1,1,2-Trichloro-1,2,2-trifluo	101	5.767	5.772	(0.628)	2176742	15.0000	15
18 Acrolein	56	5.735	5.740	(0.625)	349730	15.0000	15
19 1,1-Dichloroethene	96	5.836	5.836	(0.636)	1026861	15.0000	15
20 Acetone	43	6.012	6.023	(0.655)	1308687	15.0000	14
21 Carbon disulfide	76	6.242	6.247	(0.680)	3003638	15.0000	15
22 Isopropanol	45	6.284	6.306	(0.685)	970811	15.0000	15
23 Allyl chloride	41	6.519	6.525	(0.710)	1046788	15.0000	15
24 Acetonitrile	41	6.599	6.605	(0.719)	646747	15.0000	15
25 Methylene chloride	49	6.775	6.781	(0.738)	925787	15.0000	14
26 Tert-butyl alcohol	59	6.994	7.010	(0.762)	1607959	15.0000	15
27 Methyl tert-butyl ether	73	7.154	7.165	(0.780)	3015600	15.0000	15
28 1,2-Dichloroethene (trans)	61	7.181	7.181	(0.782)	1428741	15.0000	14
29 Acrylonitrile	53	7.261	7.267	(0.791)	665796	15.0000	15
30 n-Hexane	57	7.512	7.512	(0.819)	1539444	15.0000	14
31 1,1-Dichloroethane	63	7.912	7.918	(0.862)	1793653	15.0000	14
32 Vinyl acetate	43	7.939	7.944	(0.865)	2076195	15.0000	15
M 33 1,2-Dichloroethene,Total	61				2612641	30.0000	30
34 1,2-Dichloroethene (cis)	96	8.814	8.820	(0.960)	1183900	15.0000	15
35 Ethyl acetate	88	8.852	8.857	(0.965)	100701	15.0000	15
36 Methyl Ethyl Ketone	72	8.830	8.836	(0.962)	524805	15.0000	14
* 37 Bromochloromethane	128	9.177	9.183	(1.000)	746254	10.0000	
38 Tetrahydrofuran	42	9.220	9.225	(0.870)	950066	15.0000	15
39 Chloroform	83	9.262	9.263	(1.009)	2245984	15.0000	15
40 Cyclohexane	84	9.513	9.513	(0.898)	1589206	15.0000	15
41 1,1,1-Trichloroethane	97	9.503	9.508	(0.897)	2519552	15.0000	15
42 Carbon tetrachloride	117	9.705	9.711	(0.916)	2825723	15.0000	15
43 2,2,4-Trimethylpentane	57	9.999	9.999	(0.944)	4717881	15.0000	15
44 Benzene	78	10.031	10.031	(0.947)	3264669	15.0000	15
45 1,2-Dichloroethane	62	10.138	10.138	(0.957)	1383665	15.0000	15
46 n-Heptane	43	10.260	10.266	(0.969)	1595276	15.0000	14
* 47 1,4-Difluorobenzene	114	10.591	10.592	(1.000)	3474594	10.0000	
48 n-Butanol	56	10.869	10.885	(1.026)	499754	15.0000	15
49 Trichloroethene	95	10.949	10.949	(1.034)	1579189	15.0000	15
50 1,2-Dichloropropane	63	11.312	11.317	(1.068)	1135865	15.0000	15
51 Methyl methacrylate	69	11.387	11.387	(1.075)	1174749	15.0000	16
52 Dibromomethane	174	11.499	11.504	(1.086)	1610858	15.0000	16
53 1,4-Dioxane	88	11.488	11.504	(1.085)	492321	15.0000	15
54 Bromodichloromethane	83	11.680	11.680	(1.103)	2522059	15.0000	15
55 1,3-Dichloropropene (cis)	75	12.305	12.310	(1.162)	1952658	15.0000	15
56 Methyl isobutyl ketone	43	12.486	12.497	(1.179)	1978812	15.0000	15
57 n-Octane	43	12.737	12.742	(1.203)	2018084	15.0000	14
58 Toluene	92	12.731	12.732	(0.865)	2591959	15.0000	15
59 1,3-Dichloropropene (trans)	75	13.100	13.105	(1.237)	2043213	15.0000	16
60 1,1,2-Trichloroethane	83	13.367	13.372	(0.908)	1218734	15.0000	15
61 Tetrachloroethene	166	13.500	13.500	(0.917)	2547545	15.0000	16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	13.671	13.676	(0.929)	1923266	15.0000	15
	63 Dibromochloromethane	129	13.922	13.922	(0.946)	3010406	15.0000	16
	64 1,2-Dibromoethane	107	14.124	14.125	(0.960)	2524418	15.0000	15
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	3204764	10.0000	
	66 Chlorobenzene	112	14.759	14.760	(1.003)	3869399	15.0000	15
	67 n-Nonane	57	14.882	14.882	(1.011)	2231586	15.0000	14
	68 Ethylbenzene	91	14.834	14.840	(1.008)	5709986	15.0000	15
	69 Xylene (m,p)	106	14.989	14.994	(1.018)	4801208	30.0000	31
M	70 Xylenes, Total	106				7173789	15.0000	46
	71 Xylene (o)	106	15.517	15.523	(1.054)	2372581	15.0000	15
	72 Styrene	104	15.549	15.550	(1.057)	3677019	15.0000	16
	73 Bromoform	173	15.838	15.838	(1.076)	3157702	15.0000	17
	74 Isopropylbenzene	105	15.950	15.950	(1.084)	6834967	15.0000	15
	75 1,1,2,2-Tetrachloroethane	83	16.371	16.377	(1.112)	3121644	15.0000	15
	76 n-Propylbenzene	91	16.441	16.441	(1.117)	7560812	15.0000	15
	77 1,2,3-Trichloropropane	75	16.451	16.451	(1.118)	2337191	15.0000	15
	78 n-Decane	57	16.531	16.532	(1.123)	2710371	15.0000	15
	79 4-Ethyltoluene	105	16.569	16.574	(1.126)	7003496	15.0000	15
	80 2-Chlorotoluene	91	16.601	16.606	(1.128)	6022438	15.0000	15
	81 1,3,5-Trimethylbenzene	105	16.643	16.644	(1.131)	5846948	15.0000	15
	82 Alpha Methyl Styrene	118	16.916	16.916	(1.149)	3198088	15.0000	17
	83 tert-butylbenzene	119	17.006	17.012	(1.156)	5767841	15.0000	15
	84 1,2,4-Trimethylbenzene	105	17.076	17.081	(1.160)	5828130	15.0000	15
	85 sec-Butylbenzene	105	17.257	17.257	(1.173)	8328510	15.0000	15
	86 4-Isopropyltoluene	119	17.407	17.407	(1.183)	7429152	15.0000	16
	87 1,3-Dichlorobenzene	146	17.465	17.465	(1.187)	4400928	15.0000	16
	88 1,4-Dichlorobenzene	146	17.572	17.578	(1.194)	4486424	15.0000	16
	89 Benzyl chloride	91	17.716	17.722	(1.204)	5178334	15.0000	16
	90 Undecane	57	17.871	17.871	(1.214)	2553194	15.0000	15
	91 n-Butylbenzene	91	17.887	17.887	(1.215)	5782611	15.0000	15
	92 1,2-Dichlorobenzene	146	18.026	18.026	(1.225)	4196626	15.0000	15
	93 Dodecane	57	19.221	19.227	(1.306)	1955775	15.0000	13
	94 1,2,4-Trichlorobenzene	180	20.198	20.198	(1.372)	3205664	15.0000	16
	95 1,3-Hexachlorobutadiene	225	20.353	20.358	(1.383)	2788967	15.0000	16
	96 Naphthalene	128	20.625	20.625	(1.401)	5267279	15.0000	13
	97 1,2,3-Trichlorobenzene	180	21.057	21.057	(1.431)	2628004	15.0000	15

Data File:	bkh007.d	Date:	15-SEP-2011 16:31
Client ID:	ic 201699	Instrument:	B.i
Operator:	dpd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 201699		
Lab Sample ID:	ic 201699		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkhto15.b/bkh008.d
Lab Smp Id: ic 201697 Client Smp ID: ic 201697
Inj Date : 15-SEP-2011 17:23
Operator : dpd Inst ID: B.i
Smp Info : ic 201697
Misc Info : 200,1, level 6
Comment :
Method : /chem/B.i/Bsvr.p/bkhto15.b/to15v5.m
Meth Date : 16-Sep-2011 09:57 pd Quant Type: ISTD
Cal Date : 15-SEP-2011 17:23 Cal File: bkh008.d
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	2.986	2.986	(0.325)	322201	20.0000	17
2 Dichlorodifluoromethane	85	3.034	3.034	(0.330)	2269411	20.0000	17
3 Chlorodifluoromethane	51	3.066	3.066	(0.334)	872309	20.0000	17
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.221	3.221	(0.351)	2134045	20.0000	17
5 Chloromethane	50	3.328	3.333	(0.362)	443321	20.0000	17
6 Butane	43	3.477	3.477	(0.379)	740881	20.0000	17
7 Vinyl chloride	62	3.509	3.509	(0.382)	636671	20.0000	17
8 1,3-Butadiene	54	3.563	3.563	(0.388)	440177	20.0000	17
9 Bromomethane	94	4.112	4.113	(0.448)	1059542	20.0000	17
10 Chloroethane	64	4.315	4.315	(0.470)	513649	20.0000	17
11 2-Methylbutane	43	4.385	4.385	(0.477)	961586	20.0000	16
12 Vinyl bromide	106	4.684	4.689	(0.510)	1422102	20.0000	18
13 Trichlorofluoromethane	101	4.780	4.785	(0.520)	3773029	20.0000	18
14 Pentane	43	4.908	4.908	(0.534)	1624049	20.0000	17

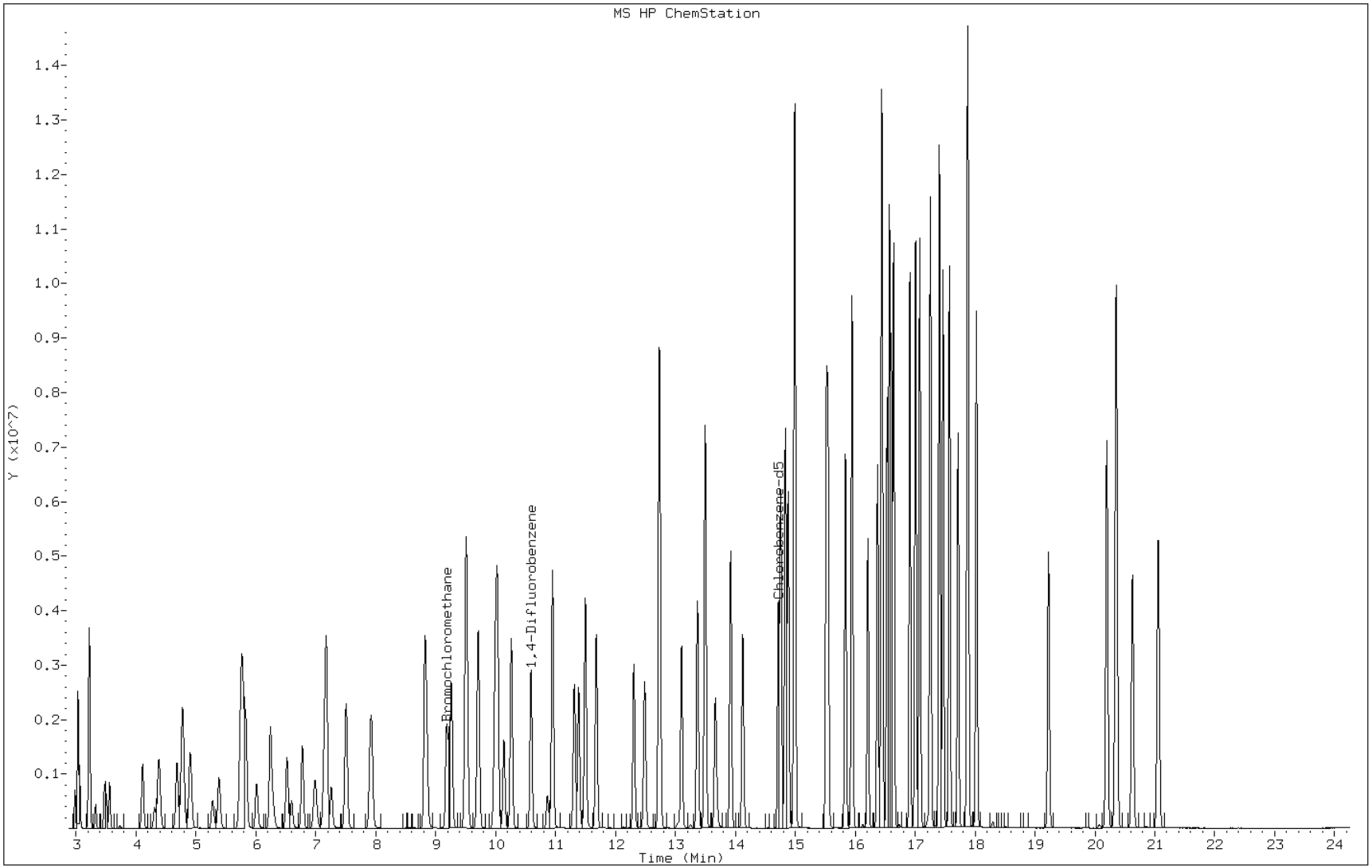
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	5.281	5.287	(0.575)	953389	40.0000	33
	16 Ethyl ether	59	5.388	5.393	(0.587)	929013	20.0000	18
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.772	5.772	(0.629)	2875424	20.0000	18
	18 Acrolein	56	5.730	5.740	(0.624)	463277	20.0000	19
	19 1,1-Dichloroethene	96	5.836	5.836	(0.636)	1378794	20.0000	19
	20 Acetone	43	6.012	6.023	(0.655)	1567539	20.0000	16
	21 Carbon disulfide	76	6.247	6.247	(0.680)	3908069	20.0000	18
	22 Isopropanol	45	6.285	6.306	(0.684)	1230887	20.0000	18
	23 Allyl chloride	41	6.525	6.525	(0.711)	1338791	20.0000	18
	24 Acetonitrile	41	6.599	6.605	(0.719)	785517	20.0000	17
	25 Methylene chloride	49	6.781	6.781	(0.738)	1174388	20.0000	17
	26 Tert-butyl alcohol	59	6.994	7.010	(0.762)	2067810	20.0000	18
	27 Methyl tert-butyl ether	73	7.154	7.165	(0.779)	3926305	20.0000	18
	28 1,2-Dichloroethene (trans)	61	7.181	7.181	(0.782)	1823468	20.0000	17
	29 Acrylonitrile	53	7.267	7.267	(0.791)	855235	20.0000	18
	30 n-Hexane	57	7.512	7.512	(0.818)	1965646	20.0000	17
	31 1,1-Dichloroethane	63	7.912	7.918	(0.862)	2298674	20.0000	18
	32 Vinyl acetate	43	7.944	7.944	(0.865)	2660157	20.0000	18
M	33 1,2-Dichloroethene,Total	61				3384389	40.0000	36
	34 1,2-Dichloroethene (cis)	96	8.814	8.820	(0.960)	1560921	20.0000	19
	35 Ethyl acetate	88	8.852	8.857	(0.964)	134759	20.0000	19
	36 Methyl Ethyl Ketone	72	8.825	8.836	(0.961)	673250	20.0000	17(Q)
*	37 Bromochloromethane	128	9.183	9.183	(1.000)	789511	10.0000	
	38 Tetrahydrofuran	42	9.215	9.225	(0.870)	1189856	20.0000	18
	39 Chloroform	83	9.263	9.263	(1.009)	2943871	20.0000	18
	40 Cyclohexane	84	9.513	9.513	(0.898)	2081730	20.0000	18
	41 1,1,1-Trichloroethane	97	9.503	9.508	(0.897)	3319228	20.0000	19
	42 Carbon tetrachloride	117	9.711	9.711	(0.917)	3771213	20.0000	19
	43 2,2,4-Trimethylpentane	57	9.999	9.999	(0.944)	5969484	20.0000	18
	44 Benzene	78	10.031	10.031	(0.947)	4255784	20.0000	18
	45 1,2-Dichloroethane	62	10.138	10.138	(0.957)	1778097	20.0000	18
	46 n-Heptane	43	10.261	10.266	(0.969)	1987544	20.0000	17
*	47 1,4-Difluorobenzene	114	10.591	10.592	(1.000)	3662598	10.0000	
	48 n-Butanol	56	10.864	10.885	(1.026)	639946	20.0000	18
	49 Trichloroethene	95	10.949	10.949	(1.034)	2079080	20.0000	19
	50 1,2-Dichloropropane	63	11.312	11.317	(1.068)	1463794	20.0000	18
	51 Methyl methacrylate	69	11.387	11.387	(1.075)	1529839	20.0000	20
	52 Dibromomethane	174	11.499	11.504	(1.086)	2219120	20.0000	21
	53 1,4-Dioxane	88	11.483	11.504	(1.084)	646745	20.0000	19
	54 Bromodichloromethane	83	11.680	11.680	(1.103)	3290355	20.0000	19
	55 1,3-Dichloropropene (cis)	75	12.305	12.310	(1.162)	2545019	20.0000	19
	56 Methyl isobutyl ketone	43	12.486	12.497	(1.179)	2488614	20.0000	18
	57 n-Octane	43	12.737	12.742	(1.203)	2459698	20.0000	16
	58 Toluene	92	12.732	12.732	(0.865)	3332141	20.0000	18
	59 1,3-Dichloropropene (trans)	75	13.105	13.105	(1.237)	2663994	20.0000	19
	60 1,1,2-Trichloroethane	83	13.372	13.372	(0.909)	1586852	20.0000	19
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	3482209	20.0000	21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	13.666	13.676	(0.929)	2424763	20.0000	18
	63 Dibromochloromethane	129	13.922	13.922	(0.946)	4060191	20.0000	21
	64 1,2-Dibromoethane	107	14.124	14.125	(0.960)	3343604	20.0000	20
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	3331170	10.0000	
	66 Chlorobenzene	112	14.760	14.760	(1.003)	5128009	20.0000	19
	67 n-Nonane	57	14.882	14.882	(1.011)	2770210	20.0000	17
	68 Ethylbenzene	91	14.834	14.840	(1.008)	7487945	20.0000	19
	69 Xylene (m,p)	106	14.994	14.994	(1.019)	6190956	40.0000	38
M	70 Xylenes, Total	106				9314706	20.0000	57
	71 Xylene (o)	106	15.523	15.523	(1.055)	3123750	20.0000	19
	72 Styrene	104	15.549	15.550	(1.057)	4826640	20.0000	20
	73 Bromoform	173	15.838	15.838	(1.076)	4292887	20.0000	22
	74 Isopropylbenzene	105	15.950	15.950	(1.084)	8967396	20.0000	19
	75 1,1,2,2-Tetrachloroethane	83	16.377	16.377	(1.113)	4010356	20.0000	18
	76 n-Propylbenzene	91	16.441	16.441	(1.117)	9558785	20.0000	18
	77 1,2,3-Trichloropropane	75	16.451	16.451	(1.118)	2918792	20.0000	18
	78 n-Decane	57	16.537	16.532	(1.124)	3295207	20.0000	17
	79 4-Ethyltoluene	105	16.574	16.574	(1.126)	9034641	20.0000	19
	80 2-Chlorotoluene	91	16.606	16.606	(1.128)	7714495	20.0000	18
	81 1,3,5-Trimethylbenzene	105	16.644	16.644	(1.131)	7625921	20.0000	19
	82 Alpha Methyl Styrene	118	16.916	16.916	(1.149)	4216850	20.0000	21
	83 tert-butylbenzene	119	17.012	17.012	(1.156)	7547946	20.0000	19
	84 1,2,4-Trimethylbenzene	105	17.081	17.081	(1.161)	7527048	20.0000	19
	85 sec-Butylbenzene	105	17.257	17.257	(1.173)	10767416	20.0000	18
	86 4-Isopropyltoluene	119	17.407	17.407	(1.183)	9646990	20.0000	19
	87 1,3-Dichlorobenzene	146	17.465	17.465	(1.187)	5846275	20.0000	20
	88 1,4-Dichlorobenzene	146	17.577	17.578	(1.194)	5888949	20.0000	20
	89 Benzyl chloride	91	17.722	17.722	(1.204)	6747813	20.0000	20
	90 Undecane	57	17.871	17.871	(1.214)	2921476	20.0000	16
	91 n-Butylbenzene	91	17.887	17.887	(1.215)	7157945	20.0000	18
	92 1,2-Dichlorobenzene	146	18.026	18.026	(1.225)	5571461	20.0000	20
	93 Dodecane	57	19.221	19.227	(1.306)	2503311	20.0000	16
	94 1,2,4-Trichlorobenzene	180	20.198	20.198	(1.372)	4053019	20.0000	19
	95 1,3-Hexachlorobutadiene	225	20.353	20.358	(1.383)	3642743	20.0000	20
	96 Naphthalene	128	20.625	20.625	(1.401)	6694073	20.0000	16
	97 1,2,3-Trichlorobenzene	180	21.057	21.057	(1.431)	3320490	20.0000	18

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File:	bkh008.d	Date:	15-SEP-2011 17:23
Client ID:	ic 201697	Instrument:	B.i
Operator:	dpd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 201697		
Lab Sample ID:	ic 201697		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkhto15.b/bkh009.d
Lab Smp Id: ic 201696 Client Smp ID: ic 201696
Inj Date : 15-SEP-2011 18:16
Operator : dpd Inst ID: B.i
Smp Info : ic 201696
Misc Info : 200,1, level 7
Comment :
Method : /chem/B.i/Bsvr.p/bkhto15.b/to15v5.m
Meth Date : 16-Sep-2011 09:57 pd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	2.981	2.986	(0.325)	649024	40.0000	30
2 Dichlorodifluoromethane	85	3.034	3.034	(0.330)	4495320	40.0000	31
3 Chlorodifluoromethane	51	3.066	3.066	(0.334)	1719586	40.0000	31
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.221	3.221	(0.351)	4204693	40.0000	30
5 Chloromethane	50	3.328	3.333	(0.362)	897995	40.0000	31
6 Butane	43	3.477	3.477	(0.379)	1468845	40.0000	31
7 Vinyl chloride	62	3.509	3.509	(0.382)	1274688	40.0000	31
8 1,3-Butadiene	54	3.563	3.563	(0.388)	890985	40.0000	31
9 Bromomethane	94	4.112	4.113	(0.448)	2229621	40.0000	32
10 Chloroethane	64	4.315	4.315	(0.470)	1069525	40.0000	32
11 2-Methylbutane	43	4.385	4.385	(0.477)	1938517	40.0000	29
12 Vinyl bromide	106	4.689	4.689	(0.511)	2974732	40.0000	35
13 Trichlorofluoromethane	101	4.780	4.785	(0.520)	7786999	40.0000	33
14 Pentane	43	4.913	4.908	(0.535)	3227992	40.0000	30

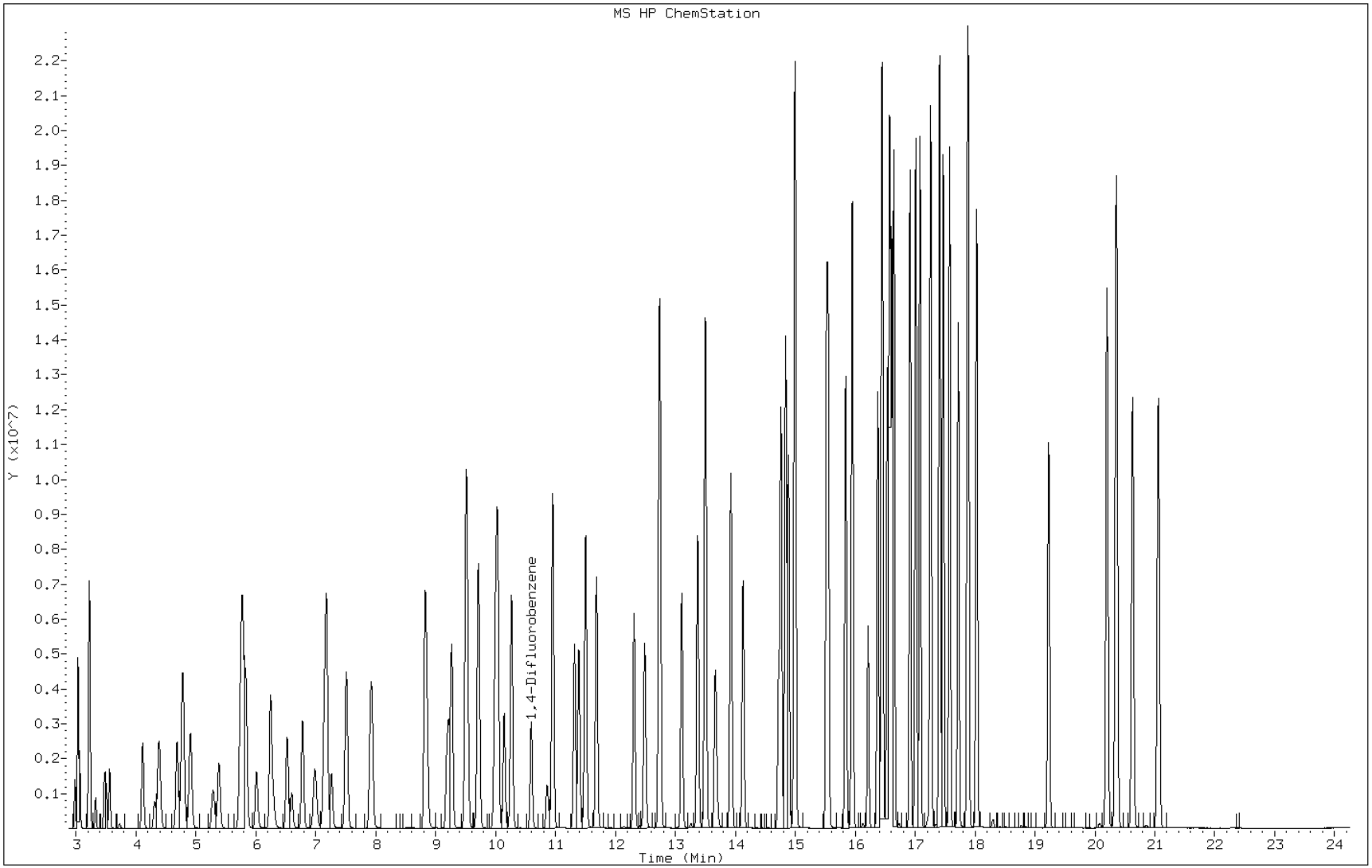
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	5.287	5.287	(0.576)	2332023	100.000	73
	16 Ethyl ether	59	5.388	5.393	(0.587)	1904092	40.0000	33
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.772	5.772	(0.629)	6033825	40.0000	35
	18 Acrolein	56	5.735	5.740	(0.625)	927076	40.0000	34
	19 1,1-Dichloroethene	96	5.842	5.836	(0.636)	2941342	40.0000	36
	20 Acetone	43	6.012	6.023	(0.655)	3145628	40.0000	29
	21 Carbon disulfide	76	6.247	6.247	(0.680)	8157822	40.0000	34
	22 Isopropanol	45	6.290	6.306	(0.685)	2450871	40.0000	32
	23 Allyl chloride	41	6.525	6.525	(0.711)	2676231	40.0000	32
	24 Acetonitrile	41	6.605	6.605	(0.719)	1618531	40.0000	32
	25 Methylene chloride	49	6.781	6.781	(0.738)	2366760	40.0000	31
	26 Tert-butyl alcohol	59	6.989	7.010	(0.761)	4246642	40.0000	34
	27 Methyl tert-butyl ether	73	7.154	7.165	(0.779)	8127113	40.0000	34
	28 1,2-Dichloroethene (trans)	61	7.187	7.181	(0.783)	3627526	40.0000	32
	29 Acrylonitrile	53	7.267	7.267	(0.791)	1782072	40.0000	34
	30 n-Hexane	57	7.512	7.512	(0.818)	3951742	40.0000	31
	31 1,1-Dichloroethane	63	7.918	7.918	(0.862)	4658954	40.0000	32
	32 Vinyl acetate	43	7.944	7.944	(0.865)	5265663	40.0000	33
M	33 1,2-Dichloroethene,Total	61				6846370	80.0000	67
	34 1,2-Dichloroethene (cis)	96	8.820	8.820	(0.960)	3218844	40.0000	35
	35 Ethyl acetate	88	8.857	8.857	(0.965)	276228	40.0000	36(Q)
	36 Methyl Ethyl Ketone	72	8.830	8.836	(0.962)	1329387	40.0000	30(Q)
*	37 Bromochloromethane	128	9.183	9.183	(1.000)	870101	10.0000	(Q)
	38 Tetrahydrofuran	42	9.220	9.225	(0.870)	2344454	40.0000	33
	39 Chloroform	83	9.268	9.263	(1.009)	6145585	40.0000	34
	40 Cyclohexane	84	9.519	9.513	(0.898)	4146467	40.0000	34
	41 1,1,1-Trichloroethane	97	9.508	9.508	(0.897)	6914723	40.0000	36
	42 Carbon tetrachloride	117	9.711	9.711	(0.916)	8127603	40.0000	39
	43 2,2,4-Trimethylpentane	57	10.004	9.999	(0.944)	11485553	40.0000	32
	44 Benzene	78	10.036	10.031	(0.947)	8508494	40.0000	33
	45 1,2-Dichloroethane	62	10.143	10.138	(0.957)	3660603	40.0000	34
	46 n-Heptane	43	10.266	10.266	(0.969)	3781858	40.0000	30
*	47 1,4-Difluorobenzene	114	10.597	10.592	(1.000)	3943912	10.0000	
	48 n-Butanol	56	10.858	10.885	(1.025)	1375206	40.0000	36
	49 Trichloroethene	95	10.954	10.949	(1.034)	4268194	40.0000	36
	50 1,2-Dichloropropane	63	11.317	11.317	(1.068)	2944902	40.0000	34
	51 Methyl methacrylate	69	11.387	11.387	(1.075)	3160000	40.0000	38
	52 Dibromomethane	174	11.504	11.504	(1.086)	4919743	40.0000	43(A)
	53 1,4-Dioxane	88	11.483	11.504	(1.084)	1257713	40.0000	35
	54 Bromodichloromethane	83	11.686	11.680	(1.103)	6855845	40.0000	37
	55 1,3-Dichloropropene (cis)	75	12.310	12.310	(1.162)	5266338	40.0000	37
	56 Methyl isobutyl ketone	43	12.486	12.497	(1.178)	4829902	40.0000	33
	57 n-Octane	43	12.742	12.742	(1.202)	4209008	40.0000	25
	58 Toluene	92	12.732	12.732	(0.865)	6354053	40.0000	33
	59 1,3-Dichloropropene (trans)	75	13.105	13.105	(1.237)	5524064	40.0000	37
	60 1,1,2-Trichloroethane	83	13.372	13.372	(0.908)	3218840	40.0000	36
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	7476724	40.0000	41(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	13.666	13.676	(0.928)	4777079	40.0000	34
	63 Dibromochloromethane	129	13.927	13.922	(0.946)	8643672	40.0000	41(A)
	64 1,2-Dibromoethane	107	14.130	14.125	(0.960)	6960233	40.0000	38
*	65 Chlorobenzene-d5	117	14.722	14.722	(1.000)	3568884	10.0000	
	66 Chlorobenzene	112	14.765	14.760	(1.003)	10688611	40.0000	37
	67 n-Nonane	57	14.888	14.882	(1.011)	5089533	40.0000	30
	68 Ethylbenzene	91	14.840	14.840	(1.008)	15016547	40.0000	35
	69 Xylene (m,p)	106	15.000	14.994	(1.019)	11565758	80.0000	66
M	70 Xylenes, Total	106				17731371	40.0000	100
	71 Xylene (o)	106	15.523	15.523	(1.054)	6165613	40.0000	35
	72 Styrene	104	15.555	15.550	(1.057)	9721979	40.0000	38
	73 Bromoform	173	15.843	15.838	(1.076)	8811911	40.0000	42(A)
	74 Isopropylbenzene	105	15.955	15.950	(1.084)	17999472	40.0000	36
	75 1,1,2,2-Tetrachloroethane	83	16.377	16.377	(1.112)	7765425	40.0000	33
	76 n-Propylbenzene	91	16.446	16.441	(1.117)	17007593	40.0000	30
	77 1,2,3-Trichloropropane	75	16.462	16.451	(1.118)	5182440	40.0000	30
	78 n-Decane	57	16.537	16.532	(1.123)	5806010	40.0000	28
	79 4-Ethyltoluene	105	16.574	16.574	(1.126)	16976181	40.0000	33
	80 2-Chlorotoluene	91	16.606	16.606	(1.128)	14878330	40.0000	33
	81 1,3,5-Trimethylbenzene	105	16.649	16.644	(1.131)	14994990	40.0000	35
	82 Alpha Methyl Styrene	118	16.921	16.916	(1.149)	8581154	40.0000	40(A)
	83 tert-butylbenzene	119	17.012	17.012	(1.155)	15040124	40.0000	36
	84 1,2,4-Trimethylbenzene	105	17.081	17.081	(1.160)	14978099	40.0000	35
	85 sec-Butylbenzene	105	17.257	17.257	(1.172)	19947311	40.0000	32
	86 4-Isopropyltoluene	119	17.407	17.407	(1.182)	18351763	40.0000	35
	87 1,3-Dichlorobenzene	146	17.471	17.465	(1.187)	11926354	40.0000	38
	88 1,4-Dichlorobenzene	146	17.578	17.578	(1.194)	12031029	40.0000	38
	89 Benzyl chloride	91	17.722	17.722	(1.204)	13879999	40.0000	38
	90 Undecane	57	17.871	17.871	(1.214)	5022110	40.0000	26
	91 n-Butylbenzene	91	17.892	17.887	(1.215)	12330569	40.0000	28
	92 1,2-Dichlorobenzene	146	18.031	18.026	(1.225)	11495716	40.0000	38
	93 Dodecane	57	19.227	19.227	(1.306)	5488151	40.0000	33
	94 1,2,4-Trichlorobenzene	180	20.198	20.198	(1.372)	9299807	40.0000	41(A)
	95 1,3-Hexachlorobutadiene	225	20.358	20.358	(1.383)	7498090	40.0000	39
	96 Naphthalene	128	20.625	20.625	(1.401)	18562084	40.0000	42(A)
	97 1,2,3-Trichlorobenzene	180	21.057	21.057	(1.430)	8029671	40.0000	41(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File:	bkh009.d	Date:	15-SEP-2011 18:16
Client ID:	ic 201696	Instrument:	B.i
Operator:	dpd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 201696		
Lab Sample ID:	ic 201696		



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Lab Sample ID: ICV 200-25331/12 Calibration Date: 09/15/2011 20:53

Instrument ID: B.i Calib Start Date: 09/15/2011 13:01

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/15/2011 18:16

Lab File ID: bkh012.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: icv 202460

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.2452	0.2180		8.89	10.0	-11.1	30.0
Dichlorodifluoromethane	Ave	1.657	1.603		9.68	10.0	-3.2	30.0
Freon 22	Ave	0.6439	0.6093		9.46	10.0	-5.4	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.603	1.512		9.43	10.0	-5.7	30.0
Chloromethane	Ave	0.3307	0.3100		9.37	10.0	-6.2	30.0
n-Butane	Ave	0.5523	0.5063		9.17	10.0	-8.3	30.0
Vinyl chloride	Ave	0.4707	0.4383		9.31	10.0	-6.9	30.0
1,3-Butadiene	Ave	0.3290	0.3179		9.66	10.0	-3.4	30.0
Bromomethane	Ave	0.7940	0.7225		9.10	10.0	-9.0	30.0
Chloroethane	Ave	0.3787	0.3565		9.41	10.0	-5.9	30.0
Isopentane	Ave	0.7604	0.6803		8.95	10.0	-10.5	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9886	0.997		10.1	10.0	0.8	30.0
Trichlorofluoromethane	Ave	2.693	2.631		9.77	10.0	-2.3	30.0
n-Pentane	Ave	1.237	1.116		9.02	10.0	-9.8	30.0
Ethanol	Ave	0.3655	0.3623		14.9	15.0	-0.9	30.0
Ethyl ether	Ave	0.6569	0.6213		9.46	10.0	-5.4	30.0
Acrolein	Ave	0.3102	0.2811		9.06	10.0	-9.4	30.0
Freon TF	Ave	1.992	2.172		10.9	10.0	9.0	30.0
1,1-Dichloroethene	Ave	0.9401	1.047		11.1	10.0	11.4	30.0
Acetone	Ave	1.235	1.126		9.11	10.0	-8.9	30.0
Carbon disulfide	Ave	2.720	2.785		10.2	10.0	2.4	30.0
Isopropyl alcohol	Ave	0.8750	0.8680		9.92	10.0	-0.8	30.0
3-Chloropropene	Ave	0.9620	0.9634		10.0	10.0	0.2	30.0
Acetonitrile	Ave	0.5804	0.5459		9.40	10.0	-6.0	30.0
Methylene Chloride	Ave	0.8750	0.8950		10.2	10.0	2.3	30.0
tert-Butyl alcohol	Ave	1.424	1.402		9.84	10.0	-1.6	30.0
Methyl tert-butyl ether	Ave	2.727	2.753		10.1	10.0	1.0	30.0
trans-1,2-Dichloroethene	Ave	1.323	1.299		9.82	10.0	-1.8	30.0
Acrylonitrile	Ave	0.6067	0.6028		9.93	10.0	-0.6	30.0
n-Hexane	Ave	1.447	1.400		9.67	10.0	-3.3	30.0
1,1-Dichloroethane	Ave	1.663	1.626		9.78	10.0	-2.2	30.0
Vinyl acetate	Ave	1.848	1.905		10.3	10.0	3.1	30.0
cis-1,2-Dichloroethene	Ave	1.054	1.114		10.6	10.0	5.7	30.0
Methyl Ethyl Ketone	Ave	0.5126	0.4790		9.34	10.0	-6.6	30.0
Ethyl acetate	Ave	0.0879	0.0933		10.6	10.0	6.2	30.0
Tetrahydrofuran	Ave	0.1815	0.1819		10.0	10.0	0.2	30.0
Chloroform	Ave	2.068	2.030		9.81	10.0	-1.9	30.0
1,1,1-Trichloroethane	Ave	0.4836	0.4802		9.93	10.0	-0.7	30.0
Cyclohexane	Ave	0.3080	0.3214		10.4	10.0	4.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Lab Sample ID: ICV 200-25331/12 Calibration Date: 09/15/2011 20:53

Instrument ID: B.i Calib Start Date: 09/15/2011 13:01

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/15/2011 18:16

Lab File ID: bkh012.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: icv 202460

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.5328	0.5324		9.99	10.0	-0.0	30.0
2,2,4-Trimethylpentane	Ave	0.9241	0.9187		9.94	10.0	-0.6	30.0
Benzene	Ave	0.6444	0.6372		9.89	10.0	-1.1	30.0
1,2-Dichloroethane	Ave	0.2727	0.2625		9.62	10.0	-3.7	30.0
n-Heptane	Ave	0.3248	0.3056		9.41	10.0	-5.9	30.0
n-Butanol	Ave	0.0968	0.0910		9.40	10.0	-6.0	30.0
Trichloroethene	Ave	0.3017	0.2997		9.93	10.0	-0.7	30.0
1,2-Dichloropropane	Ave	0.2219	0.2141		9.65	10.0	-3.5	30.0
Methyl methacrylate	Ave	0.2132	0.2222		10.4	10.0	4.2	30.0
1,4-Dioxane	Ave	0.0918	0.0917		9.99	10.0	-0.1	30.0
Dibromomethane	Ave	0.2929	0.3063		10.5	10.0	4.6	30.0
Bromodichloromethane	Ave	0.4744	0.4891		10.3	10.0	3.1	30.0
cis-1,3-Dichloropropene	Ave	0.3627	0.3609		9.95	10.0	-0.5	30.0
methyl isobutyl ketone	Ave	0.3728	0.3735		10.0	10.0	0.2	30.0
Toluene	Ave	0.5468	0.5489		10.0	10.0	0.4	30.0
n-Octane	Ave	0.4192	0.3984		9.50	10.0	-5.0	30.0
trans-1,3-Dichloropropene	Ave	0.3778	0.3763		9.96	10.0	-0.4	30.0
1,1,2-Trichloroethane	Ave	0.2537	0.2447		9.64	10.0	-3.6	30.0
Tetrachloroethene	Ave	0.5071	0.5233		10.3	10.0	3.2	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3954	0.4000		10.1	10.0	1.1	30.0
Dibromochloromethane	Ave	0.5857	0.6476		11.1	10.0	10.6	30.0
1,2-Dibromoethane	Ave	0.5082	0.5169		10.2	10.0	1.7	30.0
Chlorobenzene	Ave	0.8062	0.7954		9.86	10.0	-1.3	30.0
Ethylbenzene	Ave	1.197	1.205		10.1	10.0	0.7	30.0
n-Nonane	Ave	0.4822	0.4792		9.94	10.0	-0.6	30.0
m,p-Xylene	Ave	0.4902	0.5014		20.5	20.0	2.3	30.0
Xylene, o-	Ave	0.4871	0.4919		10.1	10.0	1.0	30.0
Styrene	Ave	0.7142	0.7606		10.6	10.0	6.5	30.0
Bromoform	Ave	0.5850	0.6631		11.3	10.0	13.4	30.0
Cumene	Ave	1.411	1.458		10.3	10.0	3.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6577	0.6426		9.77	10.0	-2.3	30.0
n-Propylbenzene	Ave	1.574	1.630		10.4	10.0	3.6	30.0
1,2,3-Trichloropropane	Ave	0.4880	0.5007		10.3	10.0	2.6	30.0
n-Decane	Ave	0.5776	0.5997		10.4	10.0	3.8	30.0
4-Ethyltoluene	Ave	1.423	1.507		10.6	10.0	5.9	30.0
2-Chlorotoluene	Ave	1.263	1.296		10.3	10.0	2.7	30.0
1,3,5-Trimethylbenzene	Ave	1.198	1.211		10.1	10.0	1.1	30.0
Alpha Methyl Styrene	Ave	0.6008	0.6654		11.1	10.0	10.8	30.0
tert-Butylbenzene	Ave	1.183	1.221		10.3	10.0	3.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Lab Sample ID: ICV 200-25331/12 Calibration Date: 09/15/2011 20:53

Instrument ID: B.i Calib Start Date: 09/15/2011 13:01

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/15/2011 18:16

Lab File ID: bkh012.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: icv 202460

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trimethylbenzene	Ave	1.191	1.187		9.97	10.0	-0.3	30.0
sec-Butylbenzene	Ave	1.750	1.769		10.1	10.0	1.1	30.0
4-Isopropyltoluene	Ave	1.488	1.567		10.5	10.0	5.3	30.0
1,3-Dichlorobenzene	Ave	0.8847	0.8783		9.93	10.0	-0.7	30.0
1,4-Dichlorobenzene	Ave	0.8980	0.8961		9.98	10.0	-0.2	30.0
Benzyl chloride	Ave	1.020	1.070		10.5	10.0	4.9	30.0
n-Undecane	Ave	0.5396	0.6023		11.2	10.0	11.6	30.0
n-Butylbenzene	Ave	1.222	1.266		10.4	10.0	3.6	30.0
1,2-Dichlorobenzene	Ave	0.8529	0.8192		9.60	10.0	-4.0	30.0
n-Dodecane	Ave	0.4633	0.5227		11.3	10.0	12.8	30.0
1,2,4-Trichlorobenzene	Ave	0.6395	0.6805		10.6	10.0	6.4	30.0
Hexachlorobutadiene	Ave	0.5447	0.5494		10.1	10.0	0.9	30.0
Naphthalene	Ave	1.231	1.440		11.7	10.0	17.0	30.0
1,2,3-Trichlorobenzene	Ave	0.5468	0.6113		11.2	10.0	11.8	30.0

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkhto15.b/bkh012.d
Lab Smp Id: icv 202460 Client Smp ID: icv 202460
Inj Date : 15-SEP-2011 20:53
Operator : dpd Inst ID: B.i
Smp Info : icv 202460
Misc Info : 200,1, icv
Comment :
Method : /chem/B.i/Bsvr.p/bkhto15.b/to15v5.m
Meth Date : 16-Sep-2011 09:57 pd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 9 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	2.981	2.986	(0.325)	175355	8.88924	8.9
2 Dichlorodifluoromethane	85	3.035	3.034	(0.331)	1289882	9.67529	9.7
3 Chlorodifluoromethane	51	3.061	3.066	(0.334)	490110	9.46007	9.5
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.221	3.221	(0.351)	1216703	9.43105	9.4
5 Chloromethane	50	3.328	3.333	(0.363)	249398	9.37432	9.4
6 Butane	43	3.472	3.477	(0.378)	407323	9.16613	9.2
7 Vinyl chloride	62	3.504	3.509	(0.382)	352602	9.30931	9.3
8 1,3-Butadiene	54	3.558	3.563	(0.388)	255751	9.66133	9.7
9 Bromomethane	94	4.113	4.113	(0.448)	581169	9.09748	9.1
10 Chloroethane	64	4.310	4.315	(0.470)	286764	9.41242	9.4
11 2-Methylbutane	43	4.385	4.385	(0.478)	547283	8.94548	8.9
12 Vinyl bromide	106	4.684	4.689	(0.510)	801719	10.0790	10
13 Trichlorofluoromethane	101	4.780	4.785	(0.521)	2116458	9.76606	9.8
14 Pentane	43	4.902	4.908	(0.534)	898088	9.02137	9.0

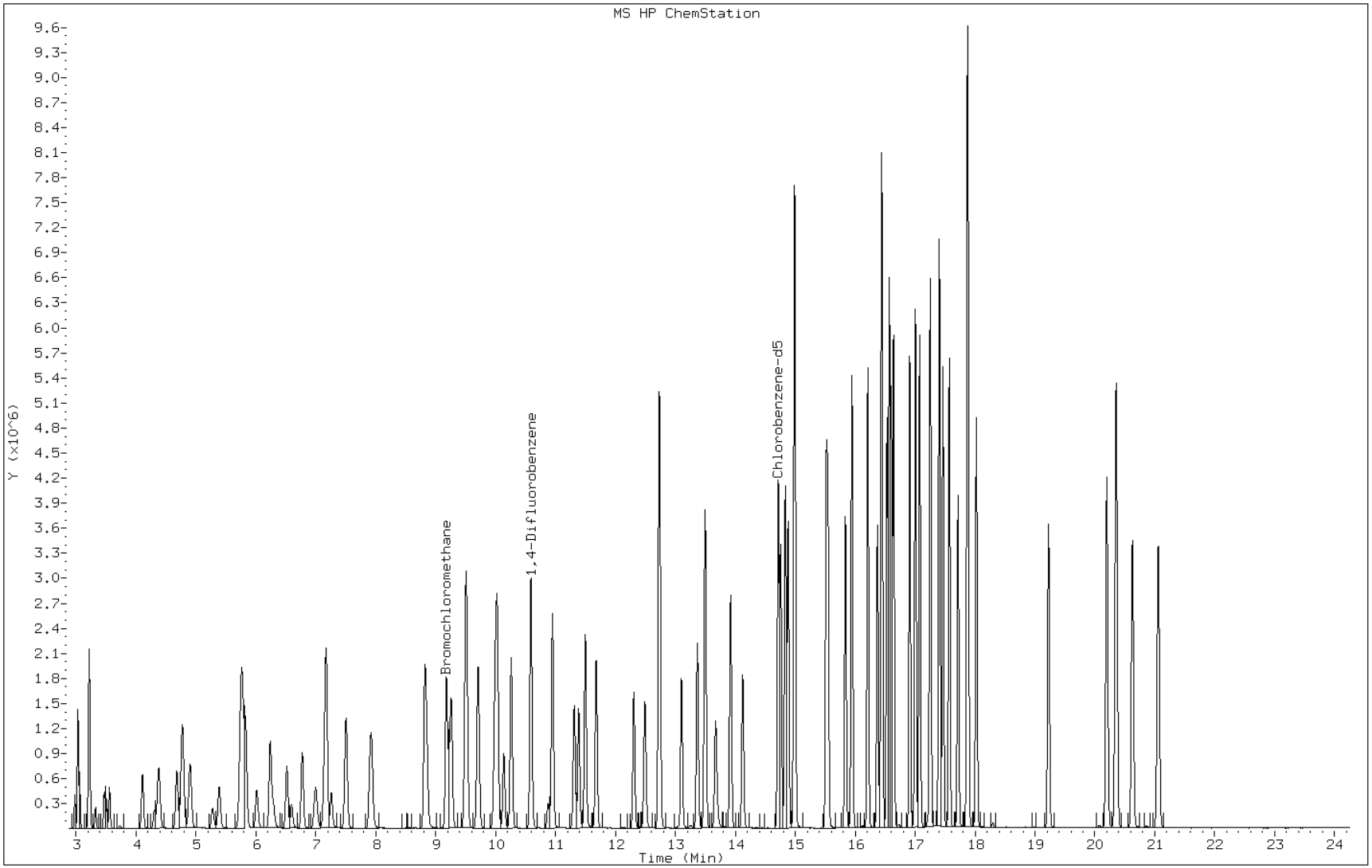
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	5.281	5.287	(0.575)	437361	14.8720	15
	16 Ethyl ether	59	5.393	5.393	(0.588)	499793	9.45545	9.5
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.767	5.772	(0.628)	1747410	10.9004	11
	18 Acrolein	56	5.735	5.740	(0.625)	226093	9.05800	9.1
	19 1,1-Dichloroethene	96	5.831	5.836	(0.635)	842402	11.1365	11
	20 Acetone	43	6.018	6.023	(0.656)	905534	9.11132	9.1
	21 Carbon disulfide	76	6.242	6.247	(0.680)	2240657	10.2384	10
	22 Isopropanol	45	6.295	6.306	(0.686)	698231	9.91818	9.9
	23 Allyl chloride	41	6.520	6.525	(0.710)	775034	10.0134	10
	24 Acetonitrile	41	6.600	6.605	(0.719)	439137	9.40298	9.4
	25 Methylene chloride	49	6.776	6.781	(0.738)	719972	10.2271	10
	26 Tert-butyl alcohol	59	7.000	7.010	(0.763)	1127675	9.84101	9.8
	27 Methyl tert-butyl ether	73	7.160	7.165	(0.780)	2215012	10.0953	10
	28 1,2-Dichloroethene (trans)	61	7.181	7.181	(0.782)	1045236	9.81820	9.8
	29 Acrylonitrile	53	7.261	7.267	(0.791)	484907	9.93328	9.9
	30 n-Hexane	57	7.507	7.512	(0.818)	1125876	9.67140	9.7
	31 1,1-Dichloroethane	63	7.912	7.918	(0.862)	1307825	9.77614	9.8
	32 Vinyl acetate	43	7.945	7.944	(0.866)	1532836	10.3102	10
M	33 1,2-Dichloroethene,Total	61				1941223	20.3857	20
	34 1,2-Dichloroethene (cis)	96	8.814	8.820	(0.960)	895987	10.5675	11
	35 Ethyl acetate	88	8.852	8.857	(0.965)	75070	10.6154	11
	36 Methyl Ethyl Ketone	72	8.830	8.836	(0.962)	385356	9.34309	9.3(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	804599	10.0000	
	38 Tetrahydrofuran	42	9.225	9.225	(0.871)	688007	10.0192	10
	39 Chloroform	83	9.263	9.263	(1.009)	1632793	9.81226	9.8
	40 Cyclohexane	84	9.514	9.513	(0.898)	1215447	10.4315	10
	41 1,1,1-Trichloroethane	97	9.503	9.508	(0.897)	1816009	9.92748	9.9
	42 Carbon tetrachloride	117	9.706	9.711	(0.916)	2013605	9.99126	10
	43 2,2,4-Trimethylpentane	57	9.999	9.999	(0.944)	3474711	9.94021	9.9
	44 Benzene	78	10.031	10.031	(0.947)	2409999	9.88680	9.9
	45 1,2-Dichloroethane	62	10.138	10.138	(0.957)	992950	9.62436	9.6
	46 n-Heptane	43	10.261	10.266	(0.969)	1155725	9.40540	9.4
*	47 1,4-Difluorobenzene	114	10.592	10.592	(1.000)	3782773	10.0000	
	48 n-Butanol	56	10.880	10.885	(1.027)	344256	9.39823	9.4
	49 Trichloroethene	95	10.949	10.949	(1.034)	1133440	9.93136	9.9
	50 1,2-Dichloropropane	63	11.312	11.317	(1.068)	809553	9.64587	9.6
	51 Methyl methacrylate	69	11.387	11.387	(1.075)	840287	10.4214	10
	52 Dibromomethane	174	11.499	11.504	(1.086)	1158594	10.4556	10
	53 1,4-Dioxane	88	11.494	11.504	(1.085)	346867	9.98515	10
	54 Bromodichloromethane	83	11.680	11.680	(1.103)	1849627	10.3079	10
	55 1,3-Dichloropropene (cis)	75	12.305	12.310	(1.162)	1364810	9.94836	9.9
	56 Methyl isobutyl ketone	43	12.492	12.497	(1.179)	1412730	10.0174	10
	57 n-Octane	43	12.737	12.742	(1.203)	1506893	9.50199	9.5
	58 Toluene	92	12.726	12.732	(0.865)	1864664	10.0360	10
	59 1,3-Dichloropropene (trans)	75	13.100	13.105	(1.237)	1423206	9.95816	10
	60 1,1,2-Trichloroethane	83	13.367	13.372	(0.908)	831231	9.64313	9.6
	61 Tetrachloroethene	166	13.495	13.500	(0.917)	1777569	10.3176	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	13.671	13.676	(0.929)	1358646	10.1126	10
	63 Dibromochloromethane	129	13.922	13.922	(0.946)	2199797	11.0548	11
	64 1,2-Dibromoethane	107	14.125	14.125	(0.960)	1755901	10.1689	10
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	3397736	10.0000	
	66 Chlorobenzene	112	14.760	14.760	(1.003)	2702138	9.86492	9.9
	67 n-Nonane	57	14.883	14.882	(1.011)	1627824	9.93651	9.9
	68 Ethylbenzene	91	14.834	14.840	(1.008)	4094271	10.0667	10
	69 Xylene (m,p)	106	14.989	14.994	(1.018)	3406504	20.4529	20
M	70 Xylenes, Total	106				5077555	30.5500	31
	71 Xylene (o)	106	15.518	15.523	(1.054)	1671051	10.0972	10
	72 Styrene	104	15.550	15.550	(1.057)	2583787	10.6468	11
	73 Bromoform	173	15.838	15.838	(1.076)	2252671	11.3341	11
	74 Isopropylbenzene	105	15.950	15.950	(1.084)	4952956	10.3284	10
	75 1,1,2,2-Tetrachloroethane	83	16.372	16.377	(1.112)	2182835	9.76773	9.8
	76 n-Propylbenzene	91	16.441	16.441	(1.117)	5538609	10.3551	10
	77 1,2,3-Trichloropropane	75	16.452	16.451	(1.118)	1700854	10.2579	10
	78 n-Decane	57	16.532	16.532	(1.123)	2037110	10.3802	10
	79 4-Ethyltoluene	105	16.569	16.574	(1.126)	5118592	10.5858	11
	80 2-Chlorotoluene	91	16.601	16.606	(1.128)	4404098	10.2647	10
	81 1,3,5-Trimethylbenzene	105	16.644	16.644	(1.131)	4112764	10.1064	10
	82 Alpha Methyl Styrene	118	16.911	16.916	(1.149)	2260522	11.0742	11
	83 tert-butylbenzene	119	17.007	17.012	(1.156)	4149206	10.3234	10
	84 1,2,4-Trimethylbenzene	105	17.076	17.081	(1.160)	4033493	9.97054	10
	85 sec-Butylbenzene	105	17.257	17.257	(1.173)	6009345	10.1063	10
	86 4-Isopropyltoluene	119	17.407	17.407	(1.183)	5324673	10.5296	11
	87 1,3-Dichlorobenzene	146	17.466	17.465	(1.187)	2983729	9.92589	9.9
	88 1,4-Dichlorobenzene	146	17.572	17.578	(1.194)	3044272	9.97705	10
	89 Benzyl chloride	91	17.716	17.722	(1.204)	3634907	10.4906	10
	90 Undecane	57	17.871	17.871	(1.214)	2045894	11.1590	11
	91 n-Butylbenzene	91	17.882	17.887	(1.215)	4299210	10.3553	10
	92 1,2-Dichlorobenzene	146	18.026	18.026	(1.225)	2782848	9.60273	9.6
	93 Dodecane	57	19.221	19.227	(1.306)	1775497	11.2783	11
	94 1,2,4-Trichlorobenzene	180	20.198	20.198	(1.372)	2311806	10.6393	11
	95 1,3-Hexachlorobutadiene	225	20.353	20.358	(1.383)	1866452	10.0848	10
	96 Naphthalene	128	20.625	20.625	(1.401)	4892227	11.7004	12
	97 1,2,3-Trichlorobenzene	180	21.057	21.057	(1.431)	2076507	11.1767	11

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File:	bkh012.d	Date:	15-SEP-2011 20:53
Client ID:	icv 202460	Instrument:	B.i
Operator:	dpd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	icv 202460		
Lab Sample ID:	icv 202460		



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Lab Sample ID: CCVIS 200-25690/3 Calibration Date: 09/21/2011 13:07

Instrument ID: B.i Calib Start Date: 09/15/2011 13:01

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/15/2011 18:16

Lab File ID: bkhe003.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 201713

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.2452	0.2510		10.2	10.0	2.4	30.0
Dichlorodifluoromethane	Ave	1.657	1.795		10.8	10.0	8.3	30.0
Freon 22	Ave	0.6439	0.6857		10.6	10.0	6.5	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.603	1.659		10.3	10.0	3.4	30.0
Chloromethane	Ave	0.3307	0.3425		10.4	10.0	3.6	30.0
n-Butane	Ave	0.5523	0.5801		10.5	10.0	5.0	30.0
Vinyl chloride	Ave	0.4707	0.4853		10.3	10.0	3.1	30.0
1,3-Butadiene	Ave	0.3290	0.3420		10.4	10.0	3.9	30.0
Bromomethane	Ave	0.7940	0.8165		10.3	10.0	2.8	30.0
Chloroethane	Ave	0.3787	0.3994		10.5	10.0	5.5	30.0
Isopentane	Ave	0.7604	0.7789		10.2	10.0	2.4	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9886	1.010		10.2	10.0	2.2	30.0
Trichlorofluoromethane	Ave	2.693	2.749		10.2	10.0	2.0	30.0
n-Pentane	Ave	1.237	1.295		10.5	10.0	4.6	30.0
Ethanol	Ave	0.3655	0.3573		14.7	15.0	-2.3	30.0
Ethyl ether	Ave	0.6569	0.6589		10.0	10.0	0.3	30.0
Acrolein	Ave	0.3102	0.3293		10.6	10.0	6.2	30.0
Freon TF	Ave	1.992	1.945		9.76	10.0	-2.4	30.0
1,1-Dichloroethene	Ave	0.9401	0.9179		9.76	10.0	-2.4	30.0
Acetone	Ave	1.235	1.372		11.1	10.0	11.1	30.0
Carbon disulfide	Ave	2.720	2.724		10.0	10.0	0.2	30.0
Isopropyl alcohol	Ave	0.8750	0.8812		10.1	10.0	0.7	30.0
3-Chloropropene	Ave	0.9620	0.9833		10.2	10.0	2.2	30.0
Acetonitrile	Ave	0.5804	0.6092		10.5	10.0	4.9	30.0
Methylene Chloride	Ave	0.8750	0.8821		10.1	10.0	0.8	30.0
tert-Butyl alcohol	Ave	1.424	1.406		9.87	10.0	-1.3	30.0
Methyl tert-butyl ether	Ave	2.727	2.717		9.96	10.0	-0.4	30.0
trans-1,2-Dichloroethene	Ave	1.323	1.343		10.1	10.0	1.5	30.0
Acrylonitrile	Ave	0.6067	0.6070		10.0	10.0	0.0	30.0
n-Hexane	Ave	1.447	1.412		9.76	10.0	-2.4	30.0
1,1-Dichloroethane	Ave	1.663	1.657		9.97	10.0	-0.3	30.0
Vinyl acetate	Ave	1.848	1.954		10.6	10.0	5.7	30.0
cis-1,2-Dichloroethene	Ave	1.054	1.044		9.91	10.0	-0.9	30.0
Methyl Ethyl Ketone	Ave	0.5126	0.4839		9.44	10.0	-5.6	30.0
Ethyl acetate	Ave	0.0879	0.0882		10.0	10.0	0.3	30.0
Tetrahydrofuran	Ave	0.1815	0.1933		10.6	10.0	6.5	30.0
Chloroform	Ave	2.068	2.031		9.82	10.0	-1.8	30.0
1,1,1-Trichloroethane	Ave	0.4836	0.4744		9.81	10.0	-1.9	30.0
Cyclohexane	Ave	0.3080	0.3015		9.78	10.0	-2.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Lab Sample ID: CCVIS 200-25690/3 Calibration Date: 09/21/2011 13:07

Instrument ID: B.i Calib Start Date: 09/15/2011 13:01

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/15/2011 18:16

Lab File ID: bkhe003.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 201713

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.5328	0.5269		9.89	10.0	-1.1	30.0
2,2,4-Trimethylpentane	Ave	0.9241	0.9309		10.1	10.0	0.7	30.0
Benzene	Ave	0.6444	0.6304		9.78	10.0	-2.2	30.0
1,2-Dichloroethane	Ave	0.2727	0.2703		9.91	10.0	-0.9	30.0
n-Heptane	Ave	0.3248	0.3202		9.85	10.0	-1.4	30.0
n-Butanol	Ave	0.0968	0.0901		9.30	10.0	-7.0	30.0
Trichloroethene	Ave	0.3017	0.2964		9.82	10.0	-1.8	30.0
1,2-Dichloropropane	Ave	0.2219	0.2223		10.0	10.0	0.2	30.0
Methyl methacrylate	Ave	0.2132	0.2214		10.4	10.0	3.9	30.0
1,4-Dioxane	Ave	0.0918	0.0946		10.3	10.0	3.0	30.0
Dibromomethane	Ave	0.2929	0.2841		9.70	10.0	-3.0	30.0
Bromodichloromethane	Ave	0.4744	0.4804		10.1	10.0	1.3	30.0
cis-1,3-Dichloropropene	Ave	0.3627	0.3683		10.2	10.0	1.5	30.0
methyl isobutyl ketone	Ave	0.3728	0.3960		10.6	10.0	6.2	30.0
Toluene	Ave	0.5468	0.5415		9.90	10.0	-1.0	30.0
n-Octane	Ave	0.4192	0.4255		10.1	10.0	1.5	30.0
trans-1,3-Dichloropropene	Ave	0.3778	0.3890		10.3	10.0	3.0	30.0
1,1,2-Trichloroethane	Ave	0.2537	0.2568		10.1	10.0	1.2	30.0
Tetrachloroethene	Ave	0.5071	0.4885		9.63	10.0	-3.7	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3954	0.4168		10.5	10.0	5.4	30.0
Dibromochloromethane	Ave	0.5857	0.6015		10.3	10.0	2.7	30.0
1,2-Dibromoethane	Ave	0.5082	0.5183		10.2	10.0	2.0	30.0
Chlorobenzene	Ave	0.8062	0.7809		9.68	10.0	-3.1	30.0
Ethylbenzene	Ave	1.197	1.187		9.91	10.0	-0.8	30.0
n-Nonane	Ave	0.4822	0.4930		10.2	10.0	2.2	30.0
m,p-Xylene	Ave	0.4902	0.4975		20.3	20.0	1.5	30.0
Xylene, o-	Ave	0.4871	0.4822		9.90	10.0	-1.0	30.0
Styrene	Ave	0.7142	0.7352		10.3	10.0	2.9	30.0
Bromoform	Ave	0.5850	0.6152		10.5	10.0	5.2	30.0
Cumene	Ave	1.411	1.403		9.94	10.0	-0.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6577	0.6744		10.3	10.0	2.5	30.0
n-Propylbenzene	Ave	1.574	1.636		10.4	10.0	3.9	30.0
1,2,3-Trichloropropane	Ave	0.4880	0.5178		10.6	10.0	6.1	30.0
n-Decane	Ave	0.5776	0.6185		10.7	10.0	7.1	30.0
4-Ethyltoluene	Ave	1.423	1.458		10.2	10.0	2.4	30.0
2-Chlorotoluene	Ave	1.263	1.273		10.1	10.0	0.8	30.0
1,3,5-Trimethylbenzene	Ave	1.198	1.210		10.1	10.0	1.0	30.0
Alpha Methyl Styrene	Ave	0.6008	0.6366		10.6	10.0	6.0	30.0
tert-Butylbenzene	Ave	1.183	1.174		9.92	10.0	-0.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Lab Sample ID: CCVIS 200-25690/3 Calibration Date: 09/21/2011 13:07

Instrument ID: B.i Calib Start Date: 09/15/2011 13:01

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/15/2011 18:16

Lab File ID: bkhe003.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 201713

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trimethylbenzene	Ave	1.191	1.207		10.1	10.0	1.4	30.0
sec-Butylbenzene	Ave	1.750	1.741		9.95	10.0	-0.5	30.0
4-Isopropyltoluene	Ave	1.488	1.514		10.2	10.0	1.7	30.0
1,3-Dichlorobenzene	Ave	0.8847	0.8669		9.80	10.0	-2.0	30.0
1,4-Dichlorobenzene	Ave	0.8980	0.8836		9.84	10.0	-1.6	30.0
Benzyl chloride	Ave	1.020	1.064		10.4	10.0	4.3	30.0
n-Undecane	Ave	0.5396	0.6282		11.6	10.0	16.4	30.0
n-Butylbenzene	Ave	1.222	1.292		10.6	10.0	5.7	30.0
1,2-Dichlorobenzene	Ave	0.8529	0.8306		9.74	10.0	-2.6	30.0
n-Dodecane	Ave	0.4633	0.5240		11.3	10.0	13.1	30.0
1,2,4-Trichlorobenzene	Ave	0.6395	0.6678		10.4	10.0	4.4	30.0
Hexachlorobutadiene	Ave	0.5447	0.5449		10.0	10.0	0.0	30.0
Naphthalene	Ave	1.231	1.352		11.0	10.0	9.9	30.0
1,2,3-Trichlorobenzene	Ave	0.5468	0.5798		10.6	10.0	6.0	30.0

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkheto15.b/bkhe003.d
Lab Smp Id: ccvis 201713 Client Smp ID: ccvis 201713
Inj Date : 21-SEP-2011 13:07
Operator : pad Inst ID: B.i
Smp Info : ccvis 201713
Misc Info : 200,1, ccvis
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/to15v5.m
Meth Date : 23-Sep-2011 09:43 wrd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	2.981	2.986	(0.325)	218615	10.0000	10
2 Dichlorodifluoromethane	85	3.035	3.034	(0.331)	1563510	10.0000	11
3 Chlorodifluoromethane	51	3.061	3.066	(0.334)	597265	10.0000	11
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.221	3.221	(0.351)	1444831	10.0000	10
5 Chloromethane	50	3.328	3.333	(0.363)	298298	10.0000	10
6 Butane	43	3.472	3.477	(0.378)	505315	10.0000	11
7 Vinyl chloride	62	3.504	3.509	(0.382)	422733	10.0000	10
8 1,3-Butadiene	54	3.563	3.563	(0.388)	297884	10.0000	10
9 Bromomethane	94	4.113	4.113	(0.448)	711240	10.0000	10
10 Chloroethane	64	4.310	4.315	(0.470)	347890	10.0000	11
11 2-Methylbutane	43	4.385	4.385	(0.478)	678492	10.0000	10
12 Vinyl bromide	106	4.684	4.689	(0.510)	880105	10.0000	10
13 Trichlorofluoromethane	101	4.774	4.785	(0.520)	2394188	10.0000	10
14 Pentane	43	4.903	4.908	(0.534)	1127578	10.0000	10

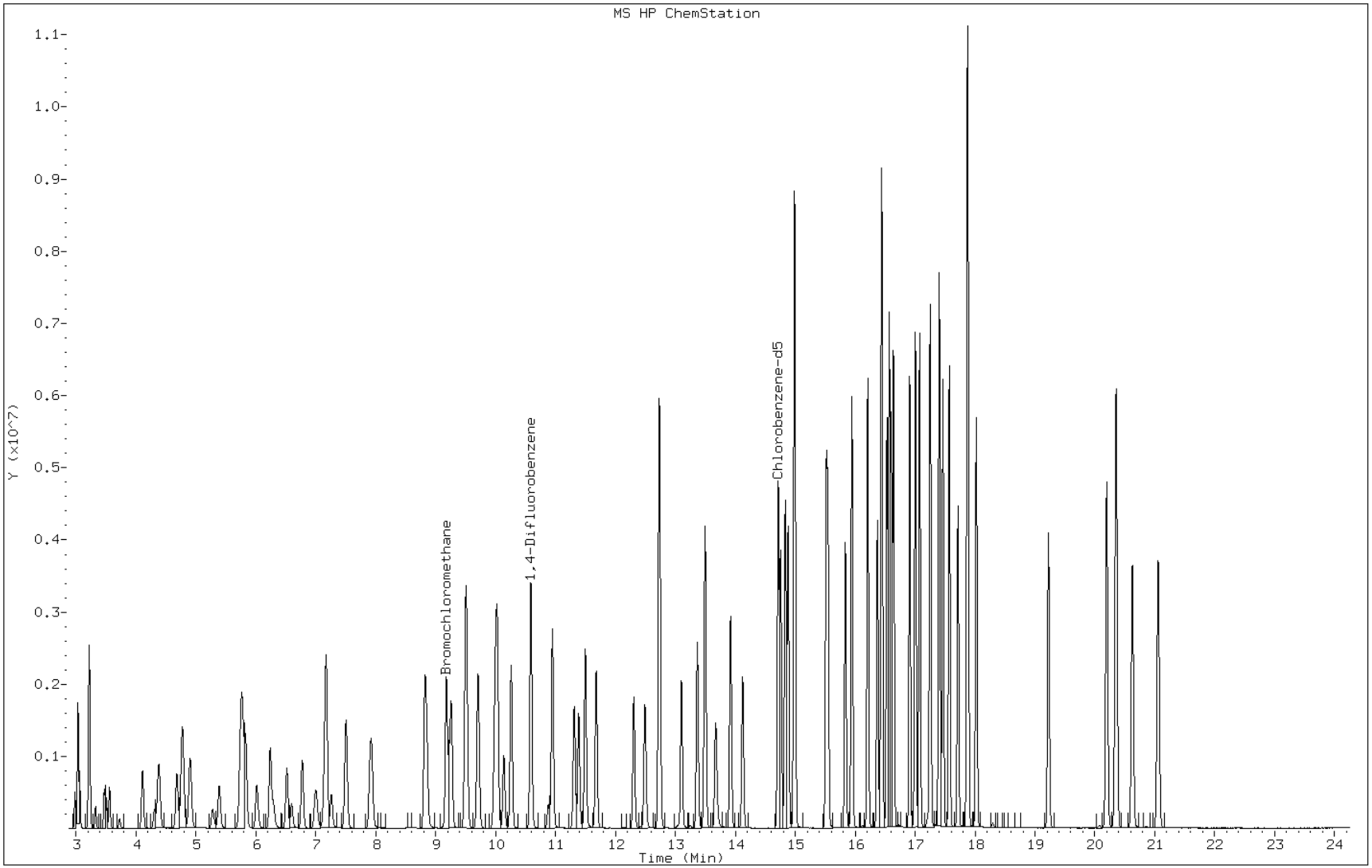
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	5.281	5.287	(0.575)	466997	15.0000	15
	16 Ethyl ether	59	5.388	5.393	(0.587)	573947	10.0000	10
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.767	5.772	(0.628)	1694349	10.0000	9.8
	18 Acrolein	56	5.735	5.740	(0.625)	286862	10.0000	11
	19 1,1-Dichloroethene	96	5.837	5.836	(0.636)	799516	10.0000	9.8
	20 Acetone	43	6.018	6.023	(0.656)	1195306	10.0000	11
	21 Carbon disulfide	76	6.242	6.247	(0.680)	2372796	10.0000	10
	22 Isopropanol	45	6.295	6.306	(0.686)	767543	10.0000	10
	23 Allyl chloride	41	6.520	6.525	(0.710)	856468	10.0000	10
	24 Acetonitrile	41	6.600	6.605	(0.719)	530605	10.0000	10
	25 Methylene chloride	49	6.776	6.781	(0.738)	768318	10.0000	10
	26 Tert-butyl alcohol	59	7.000	7.010	(0.763)	1224681	10.0000	9.9
	27 Methyl tert-butyl ether	73	7.165	7.165	(0.781)	2366486	10.0000	10
	28 1,2-Dichloroethene (trans)	61	7.181	7.181	(0.782)	1169440	10.0000	10
	29 Acrylonitrile	53	7.267	7.267	(0.792)	528704	10.0000	10
	30 n-Hexane	57	7.507	7.512	(0.818)	1229733	10.0000	9.8
	31 1,1-Dichloroethane	63	7.913	7.918	(0.862)	1443656	10.0000	10
	32 Vinyl acetate	43	7.945	7.944	(0.866)	1701789	10.0000	11
M	33 1,2-Dichloroethene,Total	61				2078940	20.0000	20
	34 1,2-Dichloroethene (cis)	96	8.815	8.820	(0.960)	909500	10.0000	9.9
	35 Ethyl acetate	88	8.857	8.857	(0.965)	76797	10.0000	10
	36 Methyl Ethyl Ketone	72	8.831	8.836	(0.962)	421469	10.0000	9.4(Q)
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	871220	10.0000	
	38 Tetrahydrofuran	42	9.225	9.225	(0.871)	794259	10.0000	11
	39 Chloroform	83	9.263	9.263	(1.009)	1769028	10.0000	9.8
	40 Cyclohexane	84	9.508	9.513	(0.898)	1238682	10.0000	9.8
	41 1,1,1-Trichloroethane	97	9.503	9.508	(0.897)	1949494	10.0000	9.8
	42 Carbon tetrachloride	117	9.706	9.711	(0.916)	2165059	10.0000	9.9
	43 2,2,4-Trimethylpentane	57	9.999	9.999	(0.944)	3825110	10.0000	10
	44 Benzene	78	10.031	10.031	(0.947)	2590281	10.0000	9.8
	45 1,2-Dichloroethane	62	10.138	10.138	(0.957)	1110802	10.0000	9.9
	46 n-Heptane	43	10.261	10.266	(0.969)	1315598	10.0000	9.9
*	47 1,4-Difluorobenzene	114	10.592	10.592	(1.000)	4109846	10.0000	
	48 n-Butanol	56	10.885	10.885	(1.028)	370084	10.0000	9.3
	49 Trichloroethene	95	10.949	10.949	(1.034)	1217809	10.0000	9.8
	50 1,2-Dichloropropane	63	11.312	11.317	(1.068)	913607	10.0000	10
	51 Methyl methacrylate	69	11.387	11.387	(1.075)	909791	10.0000	10
	52 Dibromomethane	174	11.499	11.504	(1.086)	1167402	10.0000	9.7
	53 1,4-Dioxane	88	11.499	11.504	(1.086)	388525	10.0000	10
	54 Bromodichloromethane	83	11.680	11.680	(1.103)	1973821	10.0000	10
	55 1,3-Dichloropropene (cis)	75	12.305	12.310	(1.162)	1513308	10.0000	10
	56 Methyl isobutyl ketone	43	12.492	12.497	(1.179)	1627361	10.0000	11
	57 n-Octane	43	12.737	12.742	(1.203)	1748253	10.0000	10
	58 Toluene	92	12.726	12.732	(0.865)	2033779	10.0000	9.9
	59 1,3-Dichloropropene (trans)	75	13.100	13.105	(1.237)	1598289	10.0000	10
	60 1,1,2-Trichloroethane	83	13.367	13.372	(0.908)	964343	10.0000	10
	61 Tetrachloroethene	166	13.495	13.500	(0.917)	1834737	10.0000	9.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	13.671	13.676	(0.929)	1565513	10.0000	11
	63 Dibromochloromethane	129	13.922	13.922	(0.946)	2259219	10.0000	10
	64 1,2-Dibromoethane	107	14.125	14.125	(0.960)	1946545	10.0000	10
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	3756742	10.0000	
	66 Chlorobenzene	112	14.760	14.760	(1.003)	2932894	10.0000	9.7
	67 n-Nonane	57	14.883	14.882	(1.011)	1851551	10.0000	10
	68 Ethylbenzene	91	14.835	14.840	(1.008)	4458035	10.0000	9.9
	69 Xylene (m,p)	106	14.989	14.994	(1.018)	3737317	20.0000	20
M	70 Xylenes, Total	106				5548319	10.0000	30
	71 Xylene (o)	106	15.518	15.523	(1.054)	1811002	10.0000	9.9
	72 Styrene	104	15.550	15.550	(1.057)	2761281	10.0000	10
	73 Bromoform	173	15.838	15.838	(1.076)	2310811	10.0000	11
	74 Isopropylbenzene	105	15.945	15.950	(1.083)	5268971	10.0000	9.9
	75 1,1,2,2-Tetrachloroethane	83	16.372	16.377	(1.112)	2533204	10.0000	10
	76 n-Propylbenzene	91	16.441	16.441	(1.117)	6143410	10.0000	10
	77 1,2,3-Trichloropropane	75	16.452	16.451	(1.118)	1944805	10.0000	11
	78 n-Decane	57	16.532	16.532	(1.123)	2322934	10.0000	11
	79 4-Ethyltoluene	105	16.569	16.574	(1.126)	5476128	10.0000	10
	80 2-Chlorotoluene	91	16.601	16.606	(1.128)	4780188	10.0000	10
	81 1,3,5-Trimethylbenzene	105	16.638	16.644	(1.131)	4543305	10.0000	10
	82 Alpha Methyl Styrene	118	16.911	16.916	(1.149)	2391240	10.0000	11
	83 tert-butylbenzene	119	17.007	17.012	(1.156)	4409036	10.0000	9.9
	84 1,2,4-Trimethylbenzene	105	17.076	17.081	(1.160)	4534887	10.0000	10
	85 sec-Butylbenzene	105	17.252	17.257	(1.172)	6538621	10.0000	9.9
	86 4-Isopropyltoluene	119	17.407	17.407	(1.183)	5686300	10.0000	10
	87 1,3-Dichlorobenzene	146	17.466	17.465	(1.187)	3256022	10.0000	9.8
	88 1,4-Dichlorobenzene	146	17.572	17.578	(1.194)	3318715	10.0000	9.8
	89 Benzyl chloride	91	17.716	17.722	(1.204)	3995502	10.0000	10
	90 Undecane	57	17.871	17.871	(1.214)	2359638	10.0000	12
	91 n-Butylbenzene	91	17.882	17.887	(1.215)	4851419	10.0000	11
	92 1,2-Dichlorobenzene	146	18.026	18.026	(1.225)	3119896	10.0000	9.7
	93 Dodecane	57	19.221	19.227	(1.306)	1968286	10.0000	11
	94 1,2,4-Trichlorobenzene	180	20.193	20.198	(1.372)	2508066	10.0000	10
	95 1,3-Hexachlorobutadiene	225	20.353	20.358	(1.383)	2046792	10.0000	10
	96 Naphthalene	128	20.625	20.625	(1.401)	5078877	10.0000	11
	97 1,2,3-Trichlorobenzene	180	21.057	21.057	(1.431)	2177748	10.0000	11

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File:	bkhe003.d	Date:	21-SEP-2011 13:07
Client ID:	ccvis 201713	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ccvis 201713		
Lab Sample ID:	ccvis 201713		



TestAmerica Burlington

Data file : /chem/B.i/Bsvr.p/bkhto15.b/bkh001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-SEP-2011 11:19
Operator : dpd Inst ID: B.i
Smp Info : BFB
Misc Info :
Comment :
Method : /chem/B.i/Bsvr.p/bkhto15.b/bfbto15.m
Meth Date : 08-Aug-2011 11:19 jd1 Quant Type: ESTD
Cal Date : 23-JUL-2003 17:23 Cal File: ai0005i4.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

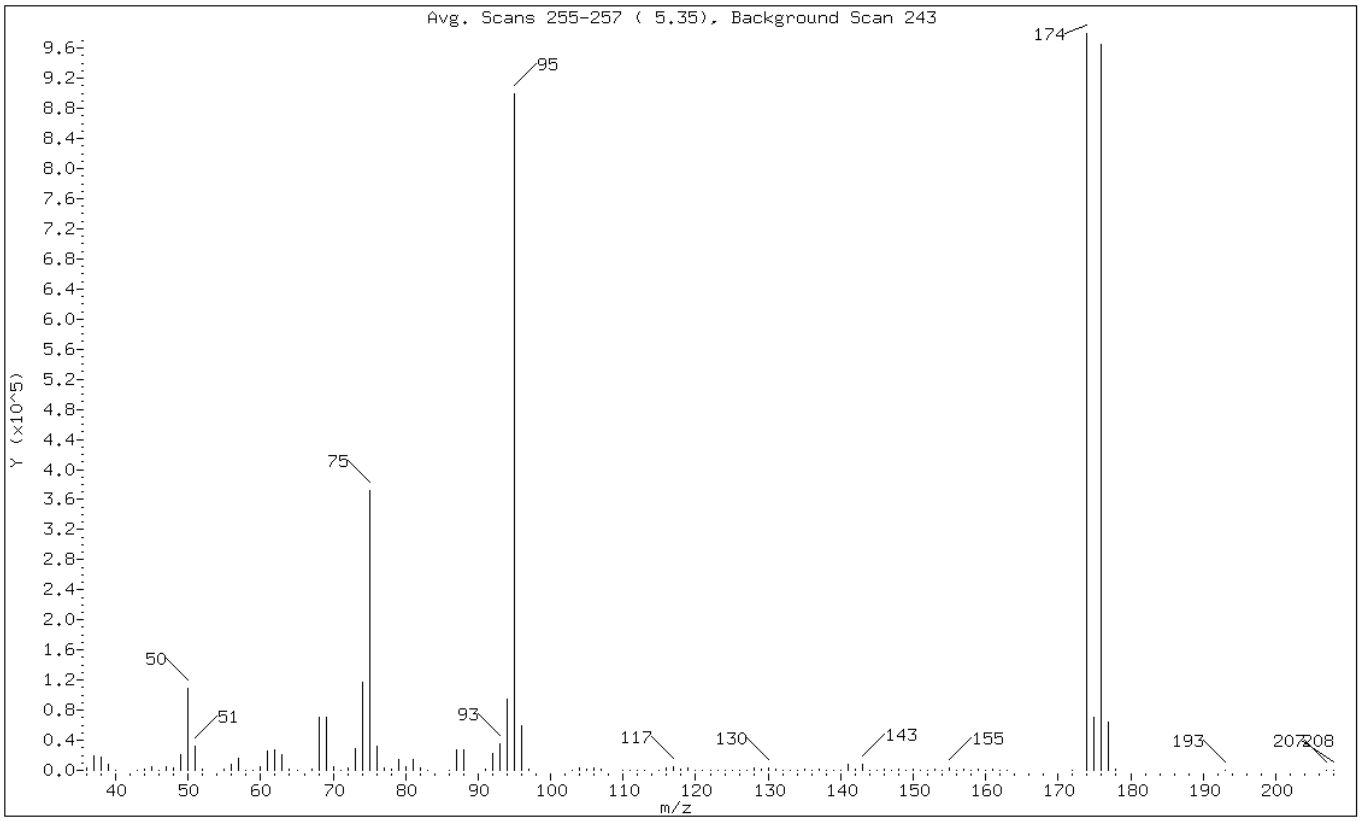
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 bfb						CAS #: 460-00-4		
5.346	5.670	-0.324	95	899333			100.00- 100.00	91.80
5.346	5.670	-0.324	50	109157			8.00- 40.00	12.14
5.346	5.670	-0.324	75	372373			30.00- 66.00	41.41
5.346	5.670	-0.324	96	60096			5.00- 9.00	6.68
5.346	5.670	-0.324	173	0			0.00- 2.00	0.00
5.346	5.670	-0.324	174	979690			50.00- 120.00	108.94
5.346	5.670	-0.324	175	70274			4.00- 9.00	7.17
5.346	5.670	-0.324	176	965802			93.00- 101.00	98.58
5.346	5.670	-0.324	177	63554			5.00- 9.00	6.58

Data File: bkh001.d
Client ID: BFB
Operator: dpd
Column Type:
Stationary Phase: RTX-624
Sample Info: BFB
Lab Sample ID: BFB
1 bfb

Date: 15-SEP-2011 11:19
Instrument: B.i
Inj Vol: 0.0 (ul)
Diameter: 0.32 (mm)



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	12.14
75	30.00 - 66.00% of mass 95	41.41
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	108.94
175	4.00 - 9.00% of mass 174	7.81 (7.17)
176	93.00 - 101.00% of mass 174	107.39 (98.58)
177	5.00 - 9.00% of mass 176	7.07 (6.58)

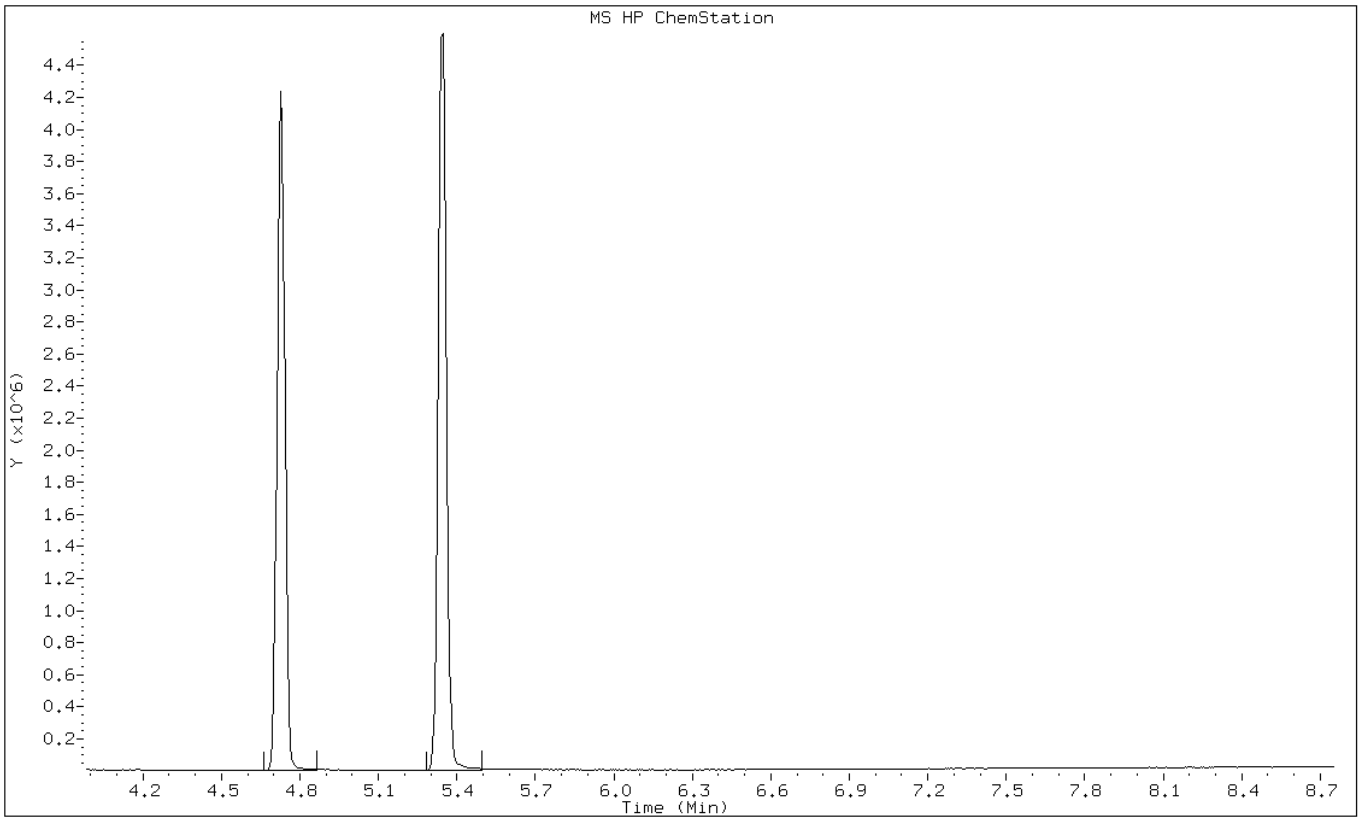
Data File: bkh001.d
Client ID: BFB
Operator: dpd
Column Type:
Stationary Phase: RTX-624
Sample Info: BFB
Lab Sample ID: BFB

Date: 15-SEP-2011 11:19
Instrument: B.i
Inj Vol: 0.0 (ul)
Diameter: 0.32 (mm)

Data File: /chem/B.i/Bsvr.p/bkhto15.b/bkh001.d
Spectrum: Avg. Scans 255-257 (5.35), Background Scan 243
Location of Maximum: 174.00
Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3345	72.00	3242	115.00	637	146.00	1431
37.00	19568	73.00	28128	116.00	2597	147.00	703
38.00	17928	74.00	117504	117.00	4845	148.00	2191
39.00	7627	75.00	372352	118.00	2352	149.00	645
40.00	48	76.00	31664	119.00	3968	150.00	855
43.00	241	77.00	3777	120.00	164	151.00	52
44.00	2165	78.00	2156	121.00	36	152.00	548
45.00	4373	79.00	13729	122.00	180	153.00	879
46.00	256	80.00	5128	123.00	322	154.00	753
47.00	5125	81.00	14873	124.00	486	155.00	2535
48.00	2541	82.00	3576	125.00	265	156.00	358
49.00	20352	83.00	323	126.00	353	157.00	1743
50.00	109152	86.00	559	127.00	268	158.00	225
51.00	32784	87.00	27232	128.00	3219	159.00	997
52.00	1547	88.00	27664	129.00	1621	160.00	44
55.00	1065	91.00	2234	130.00	3404	161.00	1136
56.00	7384	92.00	22216	131.00	1472	162.00	47
57.00	15464	93.00	34592	132.00	218	163.00	53
58.00	493	94.00	95304	133.00	34	172.00	373
59.00	54	95.00	899328	134.00	199	174.00	979648
60.00	4618	96.00	60096	135.00	1539	175.00	70272
61.00	25208	97.00	1682	136.00	305	176.00	965760
62.00	26624	103.00	251	137.00	1291	177.00	63552
63.00	20840	104.00	2802	138.00	43	178.00	1996
64.00	1895	105.00	1177	139.00	304	193.00	50
65.00	260	106.00	2665	140.00	637	207.00	152
67.00	1372	107.00	887	141.00	7748	208.00	36
68.00	70536	110.00	316	142.00	901		
69.00	70504	111.00	518	143.00	8176		
70.00	5213	112.00	352	144.00	533		
71.00	246	113.00	481	145.00	675		

Data File:	bkh001.d	Date:	15-SEP-2011 11:19
Client ID:	BFB	Instrument:	B.i
Operator:	dpd	Inj Vol:	0.0 (ul)
Column Type:		Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		



TestAmerica Burlington

Data file : /chem/B.i/Bsvr.p/bkheto15.b/bkhe001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 21-SEP-2011 11:24
Operator : pad Inst ID: B.i
Smp Info : BFB
Misc Info :
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/bfbto15.m
Meth Date : 08-Aug-2011 11:19 jd1 Quant Type: ESTD
Cal Date : 23-JUL-2003 17:23 Cal File: ai0005i4.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: chemsvr6

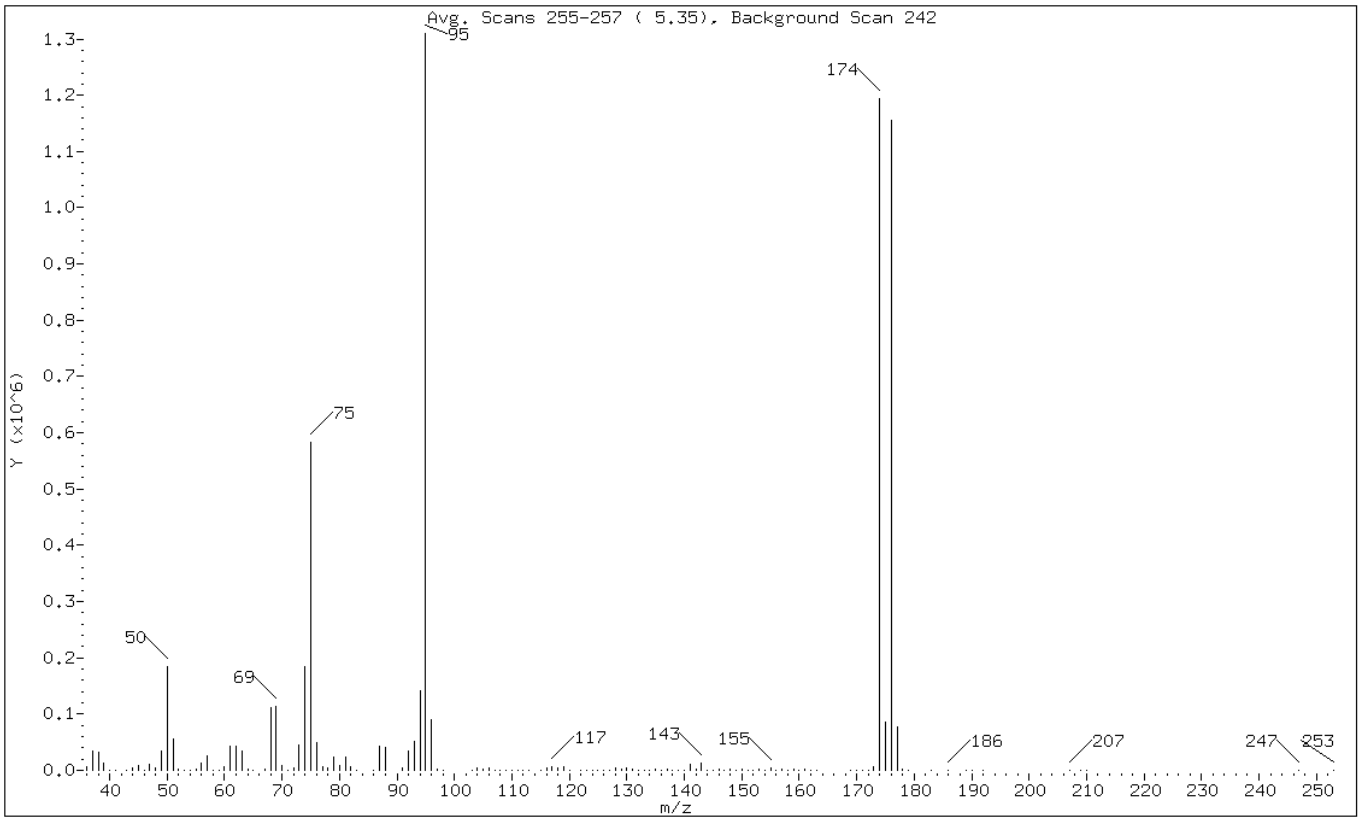
Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 bfb						CAS #: 460-00-4		
5.346	5.670	-0.324	95	1309925			100.00- 100.00	100.00
5.346	5.670	-0.324	50	184210			8.00- 40.00	14.06
5.346	5.670	-0.324	75	584064			30.00- 66.00	44.59
5.346	5.670	-0.324	96	89190			5.00- 9.00	6.81
5.346	5.670	-0.324	173	6612			0.00- 2.00	0.55
5.346	5.670	-0.324	174	1194080			50.00- 120.00	91.16
5.346	5.670	-0.324	175	85168			4.00- 9.00	7.13
5.346	5.670	-0.324	176	1155754			93.00- 101.00	96.79
5.346	5.670	-0.324	177	76968			5.00- 9.00	6.66

Data File:	bkhe001.d	Date:	21-SEP-2011 11:24
Client ID:	BFB	Instrument:	B.i
Operator:	pad	Inj Vol:	0.0 (ul)
Column Type:		Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		
1 bfb			



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	14.06
75	30.00 - 66.00% of mass 95	44.59
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.50 (0.55)
174	50.00 - 120.00% of mass 95	91.16
175	4.00 - 9.00% of mass 174	6.50 (7.13)
176	93.00 - 101.00% of mass 174	88.23 (96.79)
177	5.00 - 9.00% of mass 176	5.88 (6.66)

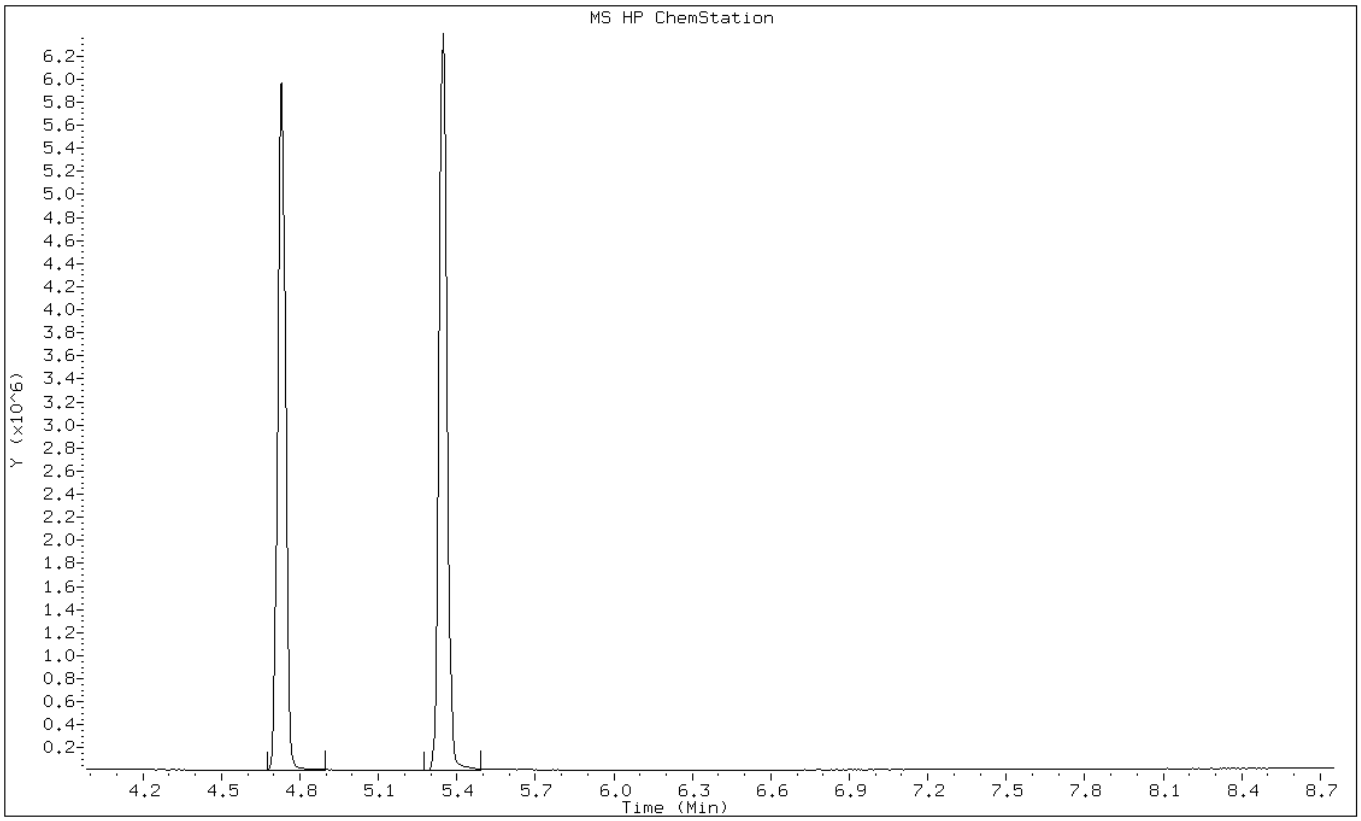
Data File: bkhe001.d
Client ID: BFB
Operator: pad
Column Type:
Stationary Phase: RTX-624
Sample Info: BFB
Lab Sample ID: BFB

Date: 21-SEP-2011 11:24
Instrument: B.i
Inj Vol: 0.0 (ul)
Diameter: 0.32 (mm)

Data File: /chem/B.i/Bsvr.p/bkheto15.b/bkhe001.d
Spectrum: Avg. Scans 255-257 (5.35), Background Scan 242
Location of Maximum: 95.00
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5805	73.00	44760	117.00	7443	153.00	1091
37.00	34744	74.00	184512	118.00	3939	154.00	777
38.00	31096	75.00	584064	119.00	5814	155.00	3565
39.00	13465	76.00	50368	120.00	284	156.00	731
40.00	767	77.00	5372	122.00	331	157.00	2326
41.00	31	78.00	3518	123.00	381	158.00	301
43.00	253	79.00	23104	124.00	705	159.00	1449
44.00	3373	80.00	8315	125.00	321	160.00	53
45.00	7850	81.00	23928	126.00	487	161.00	1485
46.00	686	82.00	6184	127.00	485	162.00	176
47.00	9651	83.00	796	128.00	4734	163.00	34
48.00	4489	86.00	703	129.00	2092	169.00	151
49.00	34560	87.00	42784	130.00	4472	170.00	130
50.00	184192	88.00	40232	131.00	1631	171.00	89
51.00	55160	91.00	3287	132.00	266	172.00	566
52.00	2273	92.00	33488	133.00	44	173.00	6612
53.00	134	93.00	52200	134.00	309	174.00	1193984
54.00	150	94.00	142464	135.00	2333	175.00	85168
55.00	2216	95.00	1309696	136.00	223	176.00	1155584
56.00	12286	96.00	89184	137.00	2144	177.00	76968
57.00	26184	97.00	2523	138.00	58	178.00	2123
58.00	1026	98.00	46	139.00	463	179.00	37
59.00	101	103.00	462	140.00	712	183.00	37
60.00	7462	104.00	4394	141.00	11444	186.00	84
61.00	42080	105.00	1508	142.00	1336	189.00	39
62.00	42768	106.00	4505	143.00	12058	190.00	71
63.00	33640	107.00	1067	144.00	691	192.00	35
64.00	2882	108.00	115	145.00	839	207.00	247
65.00	461	109.00	35	146.00	1812	209.00	46
67.00	2470	110.00	464	147.00	934	210.00	41
68.00	112440	111.00	901	148.00	3198	247.00	34
69.00	113128	112.00	554	149.00	988	253.00	35
70.00	8156	113.00	866	150.00	1099		
71.00	277	115.00	1043	151.00	135		
72.00	5313	116.00	4269	152.00	579		

Data File:	bkhe001.d	Date:	21-SEP-2011 11:24
Client ID:	BFB	Instrument:	B.i
Operator:	pad	Inj Vol:	0.0 (ul)
Column Type:		Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-25690/5

Matrix: Air Lab File ID: bkhe005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 14:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.50
75-45-6	Freon 22	86.47	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.20
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.50
106-97-8	n-Butane	58.12	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.20
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.20
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	0.20
76-13-1	Freon TF	187.38	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
67-64-1	Acetone	58.08	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
110-54-3	n-Hexane	86.17	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.20
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.20	U	0.20	0.20
67-66-3	Chloroform	119.38	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.20
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	U	0.20	0.20
71-43-2	Benzene	78.11	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.20
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-25690/5

Matrix: Air Lab File ID: bkhe005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 14:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.50
108-88-3	Toluene	92.14	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	112.30	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.50
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	106.17	0.20	U	0.20	0.20
100-42-5	Styrene	104.15	0.20	U	0.20	0.20
75-25-2	Bromoform	252.75	0.20	U	0.20	0.20
98-82-8	Cumene	120.19	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.20

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-25690/5

Matrix: Air Lab File ID: bkhe005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 14:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.20
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.50

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-25690/5

Matrix: Air Lab File ID: bkhe005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 14:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	2.5
75-45-6	Freon 22	86.47	1.8	U	1.8	1.8
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	1.4
74-87-3	Chloromethane	50.49	1.0	U	1.0	1.0
106-97-8	n-Butane	58.12	1.2	U	1.2	1.2
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.44
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.78
75-00-3	Chloroethane	64.52	1.3	U	1.3	1.3
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.87
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	1.1
76-13-1	Freon TF	187.38	1.5	U	1.5	1.5
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
67-64-1	Acetone	58.08	12	U	12	12
67-63-0	Isopropyl alcohol	60.10	12	U	12	12
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	1.6
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	1.6
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	1.7
75-65-0	tert-Butyl alcohol	74.12	15	U	15	15
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.72
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
110-54-3	n-Hexane	86.17	0.70	U	0.70	0.70
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.81
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	1.5
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	0.79	U	0.79	0.79
67-66-3	Chloroform	119.38	0.98	U	0.98	0.98
109-99-9	Tetrahydrofuran	72.11	15	U	15	15
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	1.1
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.69
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	1.3
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	U	0.93	0.93
71-43-2	Benzene	78.11	0.64	U	0.64	0.64
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.81
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.82

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-25690/5

Matrix: Air Lab File ID: bkhe005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 14:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.1
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	2.0
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.92
123-91-1	1,4-Dioxane	88.11	18	U	18	18
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	1.3
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.91
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	2.0
108-88-3	Toluene	92.14	0.75	U	0.75	0.75
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.91
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	1.1
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	1.4
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	2.0
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	1.7
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	1.5
108-90-7	Chlorobenzene	112.30	0.92	U	0.92	0.92
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.87
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	2.2
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.87
1330-20-7	Xylene (total)	106.17	0.87	U	0.87	0.87
100-42-5	Styrene	104.15	0.85	U	0.85	0.85
75-25-2	Bromoform	252.75	2.1	U	2.1	2.1
98-82-8	Cumene	120.19	0.98	U	0.98	0.98
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	1.4
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.98
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.98
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.98
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	1.0
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	1.1
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.98
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	1.1
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	1.1
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	1.2
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	1.2
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	1.0
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	1.1

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-25690/5

Matrix: Air Lab File ID: bkhe005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 14:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	1.2
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	3.7
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	2.1
91-20-3	Naphthalene	128.17	2.6	U	2.6	2.6

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkheto15.b/bkhe005.d
Lab Smp Id: mb Client Smp ID: mb
Inj Date : 21-SEP-2011 14:52
Operator : pad Inst ID: B.i
Smp Info : mb
Misc Info : 200,1, mb
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/to15v5.m
Meth Date : 23-Sep-2011 09:43 wrd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	3.034	3.034	(0.331)	7201	0.04508	0.045(a)
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	3.344	3.333	(0.364)	1427	0.04479	0.045(aM)
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
11 2-Methylbutane	43	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Pentane	43	Compound Not Detected.					
15 Ethanol	45	Compound Not Detected.					

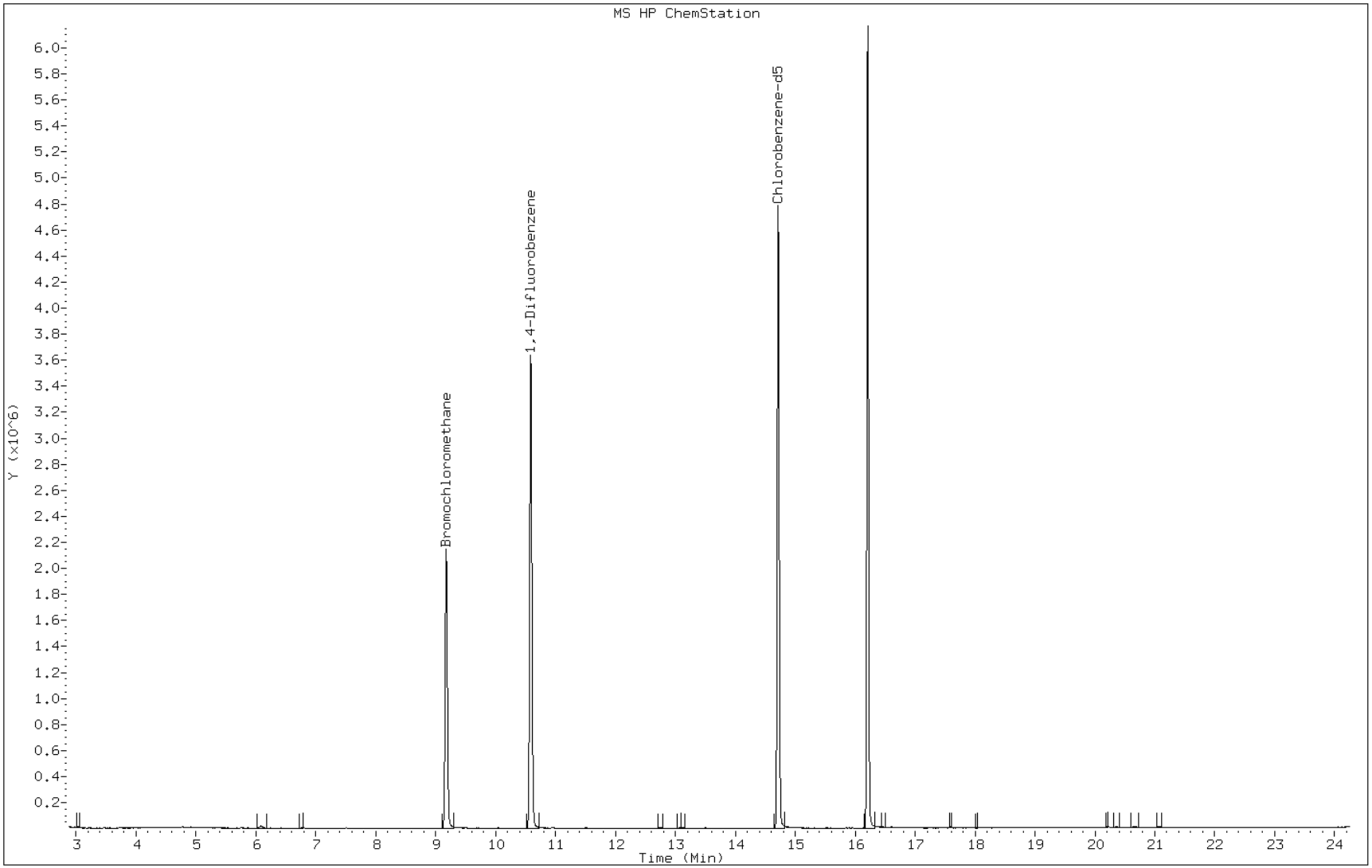
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	16 Ethyl ether	59	Compound Not Detected.					
	17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	6.087	6.023	(0.663)	41134	0.34543	0.35(a)
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	24 Acetonitrile	41	Compound Not Detected.					
	25 Methylene chloride	49	6.781	6.781	(0.739)	5811	0.06889	0.069(aQ)
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	29 Acrylonitrile	53	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	964040	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	10.586	10.592	(1.000)	4544730	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	52 Dibromomethane	174	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	57 n-Octane	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					
	62 2-Hexanone	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	4019445	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	67 n-Nonane	57	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					
	77 1,2,3-Trichloropropane	75	Compound Not Detected.					
	78 n-Decane	57	Compound Not Detected.					
	79 4-Ethyltoluene	105	Compound Not Detected.					
	80 2-Chlorotoluene	91	Compound Not Detected.					
	81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	82 Alpha Methyl Styrene	118	Compound Not Detected.					
	83 tert-butylbenzene	119	Compound Not Detected.					
	84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	85 sec-Butylbenzene	105	Compound Not Detected.					
	86 4-Isopropyltoluene	119	Compound Not Detected.					
	87 1,3-Dichlorobenzene	146	Compound Not Detected.					
	88 1,4-Dichlorobenzene	146	Compound Not Detected.					
	89 Benzyl chloride	91	Compound Not Detected.					
	90 Undecane	57	Compound Not Detected.					
	91 n-Butylbenzene	91	Compound Not Detected.					
	92 1,2-Dichlorobenzene	146	Compound Not Detected.					
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
	96 Naphthalene	128	Compound Not Detected.					
	97 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	bkhe005.d	Date:	21-SEP-2011 14:52
Client ID:	mb	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	mb		
Lab Sample ID:	mb		



Manual Integration Report

Data File: bkhe005.d
Lab Sample ID: mb
Inj. Date and Time: 21-SEP-2011 14:52
Instrument ID: B.i
Client ID: mb
Compound: 5 Chloromethane
CAS #: 74-87-3
Report Date: 09/23/2011

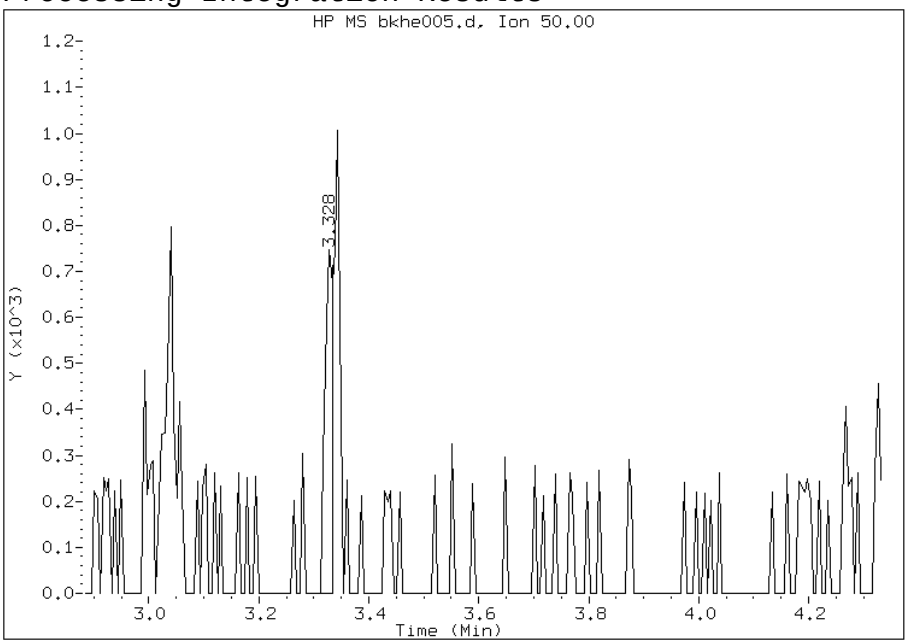
Processing Integration Results

RT: 3.33

Response: 739

Amount: 0.023183

Conc: 0.023183



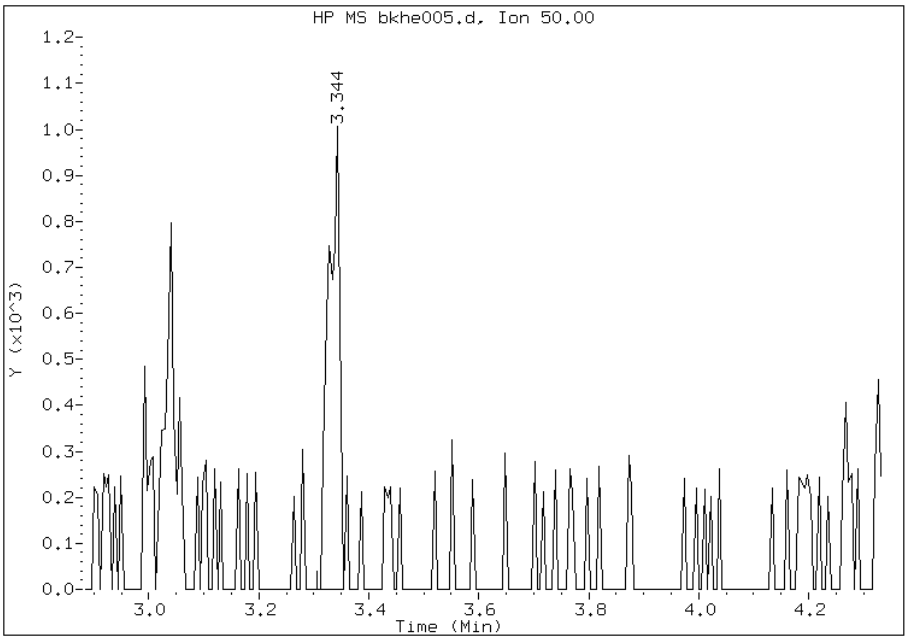
Manual Integration Results

RT: 3.34

Response: 1427

Amount: 0.044793

Conc: 0.044793



File Uploaded By: jd1
Manual Integration Reason: Poor chromatography

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-25690/4

Matrix: Air Lab File ID: bkhe004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 14:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-71-8	Dichlorodifluoromethane	120.91	10.4		0.50	0.50
75-45-6	Freon 22	86.47	9.99		0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	10.1		0.20	0.20
74-87-3	Chloromethane	50.49	9.84		0.50	0.50
106-97-8	n-Butane	58.12	9.69		0.50	0.50
75-01-4	Vinyl chloride	62.50	9.93		0.20	0.20
106-99-0	1,3-Butadiene	54.09	10.2		0.20	0.20
74-83-9	Bromomethane	94.94	9.89		0.20	0.20
75-00-3	Chloroethane	64.52	9.99		0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	106.96	10.6		0.20	0.20
75-69-4	Trichlorofluoromethane	137.37	10.1		0.20	0.20
76-13-1	Freon TF	187.38	10.8		0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	11.1		0.20	0.20
67-64-1	Acetone	58.08	10.0		5.0	5.0
67-63-0	Isopropyl alcohol	60.10	10.0		5.0	5.0
75-15-0	Carbon disulfide	76.14	10.2		0.50	0.50
107-05-1	3-Chloropropene	76.53	9.67		0.50	0.50
75-09-2	Methylene Chloride	84.93	10.4		0.50	0.50
75-65-0	tert-Butyl alcohol	74.12	10.2		5.0	5.0
1634-04-4	Methyl tert-butyl ether	88.15	9.95		0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	9.88		0.20	0.20
110-54-3	n-Hexane	86.17	9.60		0.20	0.20
75-34-3	1,1-Dichloroethane	98.96	9.78		0.20	0.20
78-93-3	Methyl Ethyl Ketone	72.11	9.35		0.50	0.50
156-59-2	cis-1,2-Dichloroethene	96.94	10.4		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	20.3		0.20	0.20
67-66-3	Chloroform	119.38	9.81		0.20	0.20
109-99-9	Tetrahydrofuran	72.11	10.1		5.0	5.0
71-55-6	1,1,1-Trichloroethane	133.41	9.90		0.20	0.20
110-82-7	Cyclohexane	84.16	9.96		0.20	0.20
56-23-5	Carbon tetrachloride	153.81	10.0		0.20	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	9.86		0.20	0.20
71-43-2	Benzene	78.11	9.76		0.20	0.20
107-06-2	1,2-Dichloroethane	98.96	9.72		0.20	0.20
142-82-5	n-Heptane	100.21	9.41		0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-25690/4

Matrix: Air Lab File ID: bkhe004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 14:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
79-01-6	Trichloroethene	131.39	9.78		0.20	0.20
80-62-6	Methyl methacrylate	100.12	10.1		0.50	0.50
78-87-5	1,2-Dichloropropane	112.99	9.56		0.20	0.20
123-91-1	1,4-Dioxane	88.11	9.65		5.0	5.0
75-27-4	Bromodichloromethane	163.83	10.3		0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	9.78		0.20	0.20
108-10-1	methyl isobutyl ketone	100.16	10.1		0.50	0.50
108-88-3	Toluene	92.14	9.72		0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	9.70		0.20	0.20
79-00-5	1,1,2-Trichloroethane	133.41	9.48		0.20	0.20
127-18-4	Tetrachloroethene	165.83	9.88		0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	9.93		0.50	0.50
124-48-1	Dibromochloromethane	208.29	10.8		0.20	0.20
106-93-4	1,2-Dibromoethane	187.87	9.95		0.20	0.20
108-90-7	Chlorobenzene	112.30	9.60		0.20	0.20
100-41-4	Ethylbenzene	106.17	9.80		0.20	0.20
179601-23-1	m,p-Xylene	106.17	19.9		0.50	0.50
95-47-6	Xylene, o-	106.17	9.73		0.20	0.20
1330-20-7	Xylene (total)	106.17	29.7		0.20	0.20
100-42-5	Styrene	104.15	10.1		0.20	0.20
75-25-2	Bromoform	252.75	11.1		0.20	0.20
98-82-8	Cumene	120.19	10.0		0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	167.85	9.63		0.20	0.20
103-65-1	n-Propylbenzene	120.19	10.2		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	10.4		0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	120.20	9.90		0.20	0.20
95-49-8	2-Chlorotoluene	126.59	10.1		0.20	0.20
98-06-6	tert-Butylbenzene	134.22	10.1		0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	120.20	9.79		0.20	0.20
135-98-8	sec-Butylbenzene	134.22	9.92		0.20	0.20
99-87-6	4-Isopropyltoluene	134.22	10.3		0.20	0.20
541-73-1	1,3-Dichlorobenzene	147.00	9.72		0.20	0.20
106-46-7	1,4-Dichlorobenzene	147.00	9.70		0.20	0.20
100-44-7	Benzyl chloride	126.58	8.85		0.20	0.20
104-51-8	n-Butylbenzene	134.22	10.5		0.20	0.20

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-25690/4

Matrix: Air Lab File ID: bkhe004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/21/2011 14:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 25690 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
95-50-1	1,2-Dichlorobenzene	147.00	9.42		0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	10.4		0.50	0.50
87-68-3	Hexachlorobutadiene	260.76	9.98		0.20	0.20
91-20-3	Naphthalene	128.17	11.3		0.50	0.50

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkheto15.b/bkhe004.d
Lab Smp Id: lcs 214171 Client Smp ID: lcs 214171
Inj Date : 21-SEP-2011 14:01
Operator : pad Inst ID: B.i
Smp Info : lcs 214171
Misc Info : 200,1, lcs
Comment :
Method : /chem/B.i/Bsvr.p/bkheto15.b/to15v5.m
Meth Date : 23-Sep-2011 09:43 wrd Quant Type: ISTD
Cal Date : 15-SEP-2011 18:16 Cal File: bkh009.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

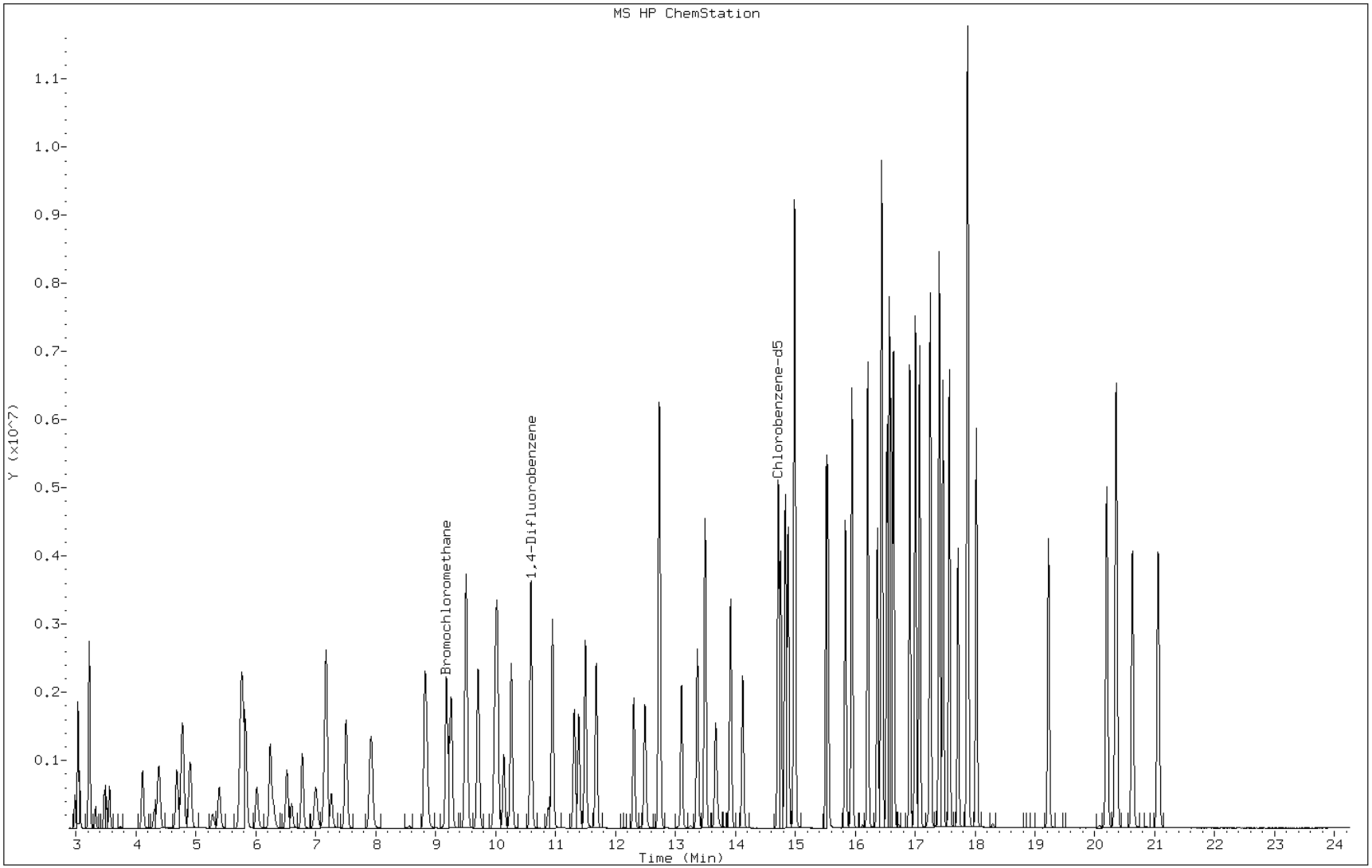
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	2.981	2.986	(0.325)	220395	9.33505	9.3
2 Dichlorodifluoromethane	85	3.035	3.034	(0.331)	1660334	10.4059	10
3 Chlorodifluoromethane	51	3.067	3.066	(0.334)	619694	9.99416	10
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.221	3.221	(0.351)	1555090	10.0716	10
5 Chloromethane	50	3.328	3.333	(0.363)	313274	9.83874	9.8
6 Butane	43	3.478	3.477	(0.379)	515575	9.69410	9.7
7 Vinyl chloride	62	3.504	3.509	(0.382)	449976	9.92637	9.9
8 1,3-Butadiene	54	3.563	3.563	(0.388)	324362	10.2381	10
9 Bromomethane	94	4.113	4.113	(0.448)	756001	9.88803	9.9
10 Chloroethane	64	4.310	4.315	(0.470)	364404	9.99375	10
11 2-Methylbutane	43	4.385	4.385	(0.478)	689752	9.42005	9.4
12 Vinyl bromide	106	4.684	4.689	(0.510)	1005177	10.5586	11
13 Trichlorofluoromethane	101	4.780	4.785	(0.521)	2629654	10.1386	10
14 Pentane	43	4.908	4.908	(0.535)	1137236	9.54493	9.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	5.281	5.287	(0.575)	370011	10.5126	11
	16 Ethyl ether	59	5.394	5.393	(0.588)	598124	9.45479	9.5
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.772	5.772	(0.629)	2078400	10.8329	11
	18 Acrolein	56	5.735	5.740	(0.625)	245945	8.23288	8.2
	19 1,1-Dichloroethene	96	5.837	5.836	(0.636)	1000620	11.0527	11
	20 Acetone	43	6.018	6.023	(0.656)	1189613	10.0012	10
	21 Carbon disulfide	76	6.242	6.247	(0.680)	2660156	10.1562	10
	22 Isopropanol	45	6.295	6.306	(0.686)	842309	9.99708	10
	23 Allyl chloride	41	6.520	6.525	(0.710)	895672	9.66895	9.7
	24 Acetonitrile	41	6.600	6.605	(0.719)	558973	10.0006	10
	25 Methylene chloride	49	6.776	6.781	(0.738)	872752	10.3585	10
	26 Tert-butyl alcohol	59	7.005	7.010	(0.763)	1405441	10.2479	10
	27 Methyl tert-butyl ether	73	7.160	7.165	(0.780)	2612809	9.94990	9.9
	28 1,2-Dichloroethene (trans)	61	7.181	7.181	(0.782)	1259002	9.88126	9.9
	29 Acrylonitrile	53	7.267	7.267	(0.792)	582020	9.96186	10
	30 n-Hexane	57	7.512	7.512	(0.819)	1337358	9.59875	9.6
	31 1,1-Dichloroethane	63	7.913	7.918	(0.862)	1565785	9.77954	9.8
	32 Vinyl acetate	43	7.945	7.944	(0.866)	1812961	10.1889	10
M	33 1,2-Dichloroethene,Total	61				2311654	20.2547	20
	34 1,2-Dichloroethene (cis)	96	8.815	8.820	(0.960)	1052652	10.3734	10
	35 Ethyl acetate	88	8.857	8.857	(0.965)	85918	10.1513	10
	36 Methyl Ethyl Ketone	72	8.831	8.836	(0.962)	461437	9.34780	9.3
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	962966	10.0000	
	38 Tetrahydrofuran	42	9.225	9.225	(0.871)	829127	10.0914	10
	39 Chloroform	83	9.263	9.263	(1.009)	1952763	9.80519	9.8
	40 Cyclohexane	84	9.514	9.513	(0.898)	1388508	9.95977	10
	41 1,1,1-Trichloroethane	97	9.503	9.508	(0.897)	2166185	9.89708	9.9
	42 Carbon tetrachloride	117	9.706	9.711	(0.916)	2412523	10.0048	10
	43 2,2,4-Trimethylpentane	57	9.999	9.999	(0.944)	4122189	9.85589	9.9
	44 Benzene	78	10.031	10.031	(0.947)	2847094	9.76184	9.8
	45 1,2-Dichloroethane	62	10.138	10.138	(0.957)	1199418	9.71641	9.7
	46 n-Heptane	43	10.261	10.266	(0.969)	1383775	9.41194	9.4
*	47 1,4-Difluorobenzene	114	10.592	10.592	(1.000)	4526051	10.0000	
	48 n-Butanol	56	10.880	10.885	(1.027)	359934	8.21256	8.2
	49 Trichloroethene	95	10.949	10.949	(1.034)	1335927	9.78327	9.8
	50 1,2-Dichloropropane	63	11.312	11.317	(1.068)	959540	9.55542	9.6
	51 Methyl methacrylate	69	11.387	11.387	(1.075)	975891	10.1156	10
	52 Dibromomethane	174	11.499	11.504	(1.086)	1357663	10.2400	10
	53 1,4-Dioxane	88	11.499	11.504	(1.086)	401204	9.65267	9.7
	54 Bromodichloromethane	83	11.680	11.680	(1.103)	2206892	10.2792	10
	55 1,3-Dichloropropene (cis)	75	12.305	12.310	(1.162)	1605120	9.77863	9.8
	56 Methyl isobutyl ketone	43	12.492	12.497	(1.179)	1706990	10.1162	10
	57 n-Octane	43	12.737	12.742	(1.203)	1804488	9.50992	9.5
	58 Toluene	92	12.726	12.732	(0.865)	2190047	9.72302	9.7
	59 1,3-Dichloropropene (trans)	75	13.105	13.105	(1.237)	1659051	9.70202	9.7
	60 1,1,2-Trichloroethane	83	13.367	13.372	(0.908)	990651	9.47989	9.5
	61 Tetrachloroethene	166	13.500	13.500	(0.917)	2063903	9.88158	9.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	13.671	13.676	(0.929)	1617920	9.93349	9.9
	63 Dibromochloromethane	129	13.922	13.922	(0.946)	2601449	10.7837	11
	64 1,2-Dibromoethane	107	14.125	14.125	(0.960)	2083632	9.95366	10
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	4119109	10.0000	
	66 Chlorobenzene	112	14.760	14.760	(1.003)	3188355	9.60150	9.6
	67 n-Nonane	57	14.883	14.882	(1.011)	1938030	9.75828	9.8
	68 Ethylbenzene	91	14.835	14.840	(1.008)	4833687	9.80341	9.8
	69 Xylene (m,p)	106	14.989	14.994	(1.018)	4027011	19.9441	20
M	70 Xylenes, Total	106				5978929	29.6729	30
	71 Xylene (o)	106	15.523	15.523	(1.055)	1951918	9.72876	9.7
	72 Styrene	104	15.550	15.550	(1.057)	2986059	10.1495	10
	73 Bromoform	173	15.838	15.838	(1.076)	2678852	11.1180	11
	74 Isopropylbenzene	105	15.950	15.950	(1.084)	5812829	9.99866	10
	75 1,1,2,2-Tetrachloroethane	83	16.372	16.377	(1.112)	2607836	9.62585	9.6
	76 n-Propylbenzene	91	16.441	16.441	(1.117)	6636881	10.2354	10
	77 1,2,3-Trichloropropane	75	16.452	16.451	(1.118)	2060911	10.2526	10
	78 n-Decane	57	16.532	16.532	(1.123)	2425887	10.1964	10
	79 4-Ethyltoluene	105	16.569	16.574	(1.126)	6088675	10.3868	10
	80 2-Chlorotoluene	91	16.601	16.606	(1.128)	5248460	10.0904	10
	81 1,3,5-Trimethylbenzene	105	16.644	16.644	(1.131)	4886167	9.90417	9.9
	82 Alpha Methyl Styrene	118	16.911	16.916	(1.149)	2645502	10.6905	11
	83 tert-butylbenzene	119	17.007	17.012	(1.156)	4926783	10.1113	10
	84 1,2,4-Trimethylbenzene	105	17.076	17.081	(1.160)	4799052	9.78541	9.8
	85 sec-Butylbenzene	105	17.258	17.257	(1.173)	7153725	9.92394	9.9
	86 4-Isopropyltoluene	119	17.407	17.407	(1.183)	6343598	10.3476	10
	87 1,3-Dichlorobenzene	146	17.466	17.465	(1.187)	3543006	9.72228	9.7
	88 1,4-Dichlorobenzene	146	17.572	17.578	(1.194)	3586696	9.69616	9.7
	89 Benzyl chloride	91	17.716	17.722	(1.204)	3719480	8.85476	8.9
	90 Undecane	57	17.871	17.871	(1.214)	2521961	11.3466	11
	91 n-Butylbenzene	91	17.882	17.887	(1.215)	5260023	10.4507	10
	92 1,2-Dichlorobenzene	146	18.026	18.026	(1.225)	3309455	9.41994	9.4
	93 Dodecane	57	19.221	19.227	(1.306)	2069967	10.8461	11
	94 1,2,4-Trichlorobenzene	180	20.198	20.198	(1.372)	2743665	10.4154	10
	95 1,3-Hexachlorobutadiene	225	20.353	20.358	(1.383)	2238613	9.97732	10
	96 Naphthalene	128	20.625	20.625	(1.401)	5730118	11.3043	11
	97 1,2,3-Trichlorobenzene	180	21.052	21.057	(1.430)	2471498	10.9730	11

Data File:	bkhe004.d	Date:	21-SEP-2011 14:01
Client ID:	lcs 214171	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	lcs 214171		
Lab Sample ID:	lcs 214171		



GC/MS INSTRUMENT RUN LOG

Sequence			Standard Traceability	Instrument Information
Batch ID: BKH	Start Date: 9/15/11	Time: 1119	ISTD Lot #: 84580	Instrument ID: B
Test Method: T015	End Date: 9/16/11	Time: 1119	CAL STD Lot # see comments	Instrument: 5973
ICAL Date: 9/15/11			ICV / LCS Lot # see comments	Column Type: RTX-624

	Manager MTP	Analyst	Analyst WJD	Analyst	Analyst
Name/Initial	Mark Phillips	Paul Daigle	William DeJardins		
Signature	Mark Phillips	Paul D PAD	[illegible]		

Sequence Information								Individual Sample Review			
Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
1119	BKH001	N/A	BFB	N/A			PAD	N/A	✓	PAD	
1208	002	4633	VIBLK		1	200		✓	✓		
1301	003	2572	IC-01		2			N/A	✓		201836
1353	004	2874	-02		3				✓		201802
1446	005	2960	-03		4				✓		201717
1538	006	2887	ICIS-04		5				✓	WRD	201712
1631	007	5014	IC-05		6				✓		201699
1723	008	3631	-06		7				✓		201697
1816	009	3089	-07		8				✓		201696
1908	010	4633	VIBLK		1			✓	✓		
2000	011				1			✓	✓		
2053	012	3093	ICV	NA	9	200	WJD	✓	✓		AG 202460
2146	013	4633	VIBLK		1			✓	✓		
2239	014	3093	LCS		9			✓	✓		AG 202460
2332	015	4633	MB		1			✓	✓		
0025	016	Bag	6973-2	100	10	20	WRD	✓	✓	PAD	1:10 dil C
0118	017		-3	30	11	67		✓	✓		1:10 dil C
0212	018		-4	20	12	10		✓	✓		C
0305	019		-5	200	13	20		✓	✓		1:200 dil C
0358	020		-6	20	14	10		✓	↑		IPA 9001 R 1:32
0450	021	4875	6882-1	15,400	15	20		✓	✓		CDF 1537.48 C
0542	022	2911	-2	2010	16	20		✓	↑		200.53 TCE 40 R 1:3200
0635	023	2675	-3	1	2	200		✓	✓		C
0727	024	3668	-4	1	3	200		✓	✓		C
0824	025	3673	-6	102	4	20		✓	✓		CDF 10.17 C
0916	026	3654	-5	200	5	20		✓	✓		CDF 20.03 C
				PAD 9/16/11							

Legend: C=Complete ▪ R=Reanalyze ▪ ↑ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

GC/MS INSTRUMENT RUN LOG

Sequence			Standard Traceability	Instrument Information
Batch ID: BKHE	Start Date: 9/21/11	Time: 1124	ISTD Lot #: 84580	Instrument ID: B
Test Method: T015	End Date: 9/22/11	Time: 1124	CAL STD Lot # 201713	Instrument: 5973
ICAL Date: 9/15/11			ICV / LCS Lot # 214171	Column Type: RTX-624

	Manager	Analyst	Analyst	Analyst	Analyst
Name/Initial					
Signature					

Sequence Information								Individual Sample Review			
Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
1124	BKHE 001	N/A	BFB	N/A			PAD	N/A	✓	PAD	
1215	002	3551	N/A		1	200			↑		R
1307	003		CCV		1	200			✓		AG
1401	004	3344	LCS		2	200		✓	✓		AG
1452	005	4633	MB		3	200		✓	✓	WRD	
1545	006	3824	7068-01	1	4	200		✓	✓		TICs ✓ C
1637	007	3832	-02		5			✓	✓		TICs ✓ C
1730	008	4257	-03		6			✓	✓		TICs ✓ C
1822	009	3671	-04		7			✓	✓		TICs ✓ C
1915	010	2556	6944-01	1	8	200		✓	✓		C
2007	011	2708	-02	8.70	9	23		✓	✓		C
2059	012	2781	-03	33.6	10	22		✓	✓		cdf 3.69 C
2151	013	3230	6944-04	16.7	11	12		✓	✓		
2244	014	4255	7068-05	1	12	200		✓	✓		TICs ✓ C
2336	015	3827	-06	1	13	200		✓	✓		TICs ✓ C
0029	016	4801	7011-01	10	14	200		✓	✓		C
0121	017	4561	-02		15			✓	✓		C
0213	018	4132	-03		16			✓	✓		C
0306	019	3828	7068-07	1	1	200		✓	✓		TPA42 TICs ✓ C NCM
0358	020	3804	-08		2			✓	✓		TICs ✓ C
0450	021	3803	-09		3			↓	R		
0542	022	3675	7068-10	1	4	200		↓	R		
0634	023	2988	6944-5	10	5	20	WRD	✓	✓		C
0727	024	3206	-6	10	6	20		✓	✓		C
0819	025	3533	-7	13.9	7	29		✓	✓		CDF2.01 C
0919	026	5126	7080-3	0.2	8	NCU		✓	✓		
	027		Continue		9	200					MM 9/22/11

Legend: C=Complete ▪ R=Reanalyze ▪ ↑ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Instrument ID: B.i Start Date: 09/15/2011 11:19

Analysis Batch Number: 25331 End Date: 09/16/2011 09:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-25331/1		09/15/2011 11:19	1	bkh001.d	RTX-624 0.32(mm)
VIBLK 200-25331/2		09/15/2011 12:08	1		RTX-624 0.32(mm)
IC 200-25331/3		09/15/2011 13:01	1	bkh003.d	RTX-624 0.32(mm)
IC 200-25331/4		09/15/2011 13:53	1	bkh004.d	RTX-624 0.32(mm)
IC 200-25331/5		09/15/2011 14:46	1	bkh005.d	RTX-624 0.32(mm)
ICIS 200-25331/6		09/15/2011 15:38	1	bkh006.d	RTX-624 0.32(mm)
IC 200-25331/7		09/15/2011 16:31	1	bkh007.d	RTX-624 0.32(mm)
IC 200-25331/8		09/15/2011 17:23	1	bkh008.d	RTX-624 0.32(mm)
IC 200-25331/9		09/15/2011 18:16	1	bkh009.d	RTX-624 0.32(mm)
VIBLK 200-25331/10		09/15/2011 19:08	1		RTX-624 0.32(mm)
VIBLK 200-25331/11		09/15/2011 20:00	1		RTX-624 0.32(mm)
ICV 200-25331/12		09/15/2011 20:53	1	bkh012.d	RTX-624 0.32(mm)
VIBLK 200-25331/13		09/15/2011 21:46	1		RTX-624 0.32(mm)
ZZZZZ		09/15/2011 22:39	1		RTX-624 0.32(mm)
ZZZZZ		09/15/2011 23:32	1		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 00:25	100		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 01:18	30		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 02:12	20		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 03:05	200		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 03:58	20		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 04:50	15400		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 05:42	2010		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 06:35	1		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 07:27	1		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 08:24	102		RTX-624 0.32(mm)
ZZZZZ		09/16/2011 09:16	200		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-6944-1

SDG No.:

Instrument ID: B.i Start Date: 09/21/2011 11:24

Analysis Batch Number: 25690 End Date: 09/22/2011 09:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-25690/1		09/21/2011 11:24	1	bkhe001.d	RTX-624 0.32(mm)
CCVIS 200-25690/2		09/21/2011 12:15	1		RTX-624 0.32(mm)
CCVIS 200-25690/3		09/21/2011 13:07	1	bkhe003.d	RTX-624 0.32(mm)
LCS 200-25690/4		09/21/2011 14:01	1	bkhe004.d	RTX-624 0.32(mm)
MB 200-25690/5		09/21/2011 14:52	1	bkhe005.d	RTX-624 0.32(mm)
ZZZZZ		09/21/2011 15:45	1		RTX-624 0.32(mm)
ZZZZZ		09/21/2011 16:37	1		RTX-624 0.32(mm)
ZZZZZ		09/21/2011 17:30	1		RTX-624 0.32(mm)
ZZZZZ		09/21/2011 18:22	1		RTX-624 0.32(mm)
200-6944-1	AMB-090911	09/21/2011 19:15	1	bkhe010.d	RTX-624 0.32(mm)
200-6944-2	SV-1	09/21/2011 20:07	8.7	bkhe011.d	RTX-624 0.32(mm)
200-6944-3	SV-2	09/21/2011 20:59	33.6	bkhe012.d	RTX-624 0.32(mm)
200-6944-4	SV-4	09/21/2011 21:51	16.7	bkhe013.d	RTX-624 0.32(mm)
ZZZZZ		09/21/2011 22:44	1		RTX-624 0.32(mm)
ZZZZZ		09/21/2011 23:36	1		RTX-624 0.32(mm)
ZZZZZ		09/22/2011 00:29	10		RTX-624 0.32(mm)
ZZZZZ		09/22/2011 01:21	10		RTX-624 0.32(mm)
ZZZZZ		09/22/2011 02:13	10		RTX-624 0.32(mm)
ZZZZZ		09/22/2011 03:06	1		RTX-624 0.32(mm)
ZZZZZ		09/22/2011 03:58	1		RTX-624 0.32(mm)
ZZZZZ		09/22/2011 04:50	1		RTX-624 0.32(mm)
ZZZZZ		09/22/2011 05:42	1		RTX-624 0.32(mm)
200-6944-5	SV-3	09/22/2011 06:34	10	bkhe023.d	RTX-624 0.32(mm)
200-6944-6	SV-5	09/22/2011 07:27	10	bkhe024.d	RTX-624 0.32(mm)
200-6944-7	SV-6	09/22/2011 08:19	13.9	bkhe025.d	RTX-624 0.32(mm)
ZZZZZ		09/22/2011 09:19	0.2		RTX-624 0.32(mm)

Post-Sampling Air Canister Pressure Check Record

Client ID	Job	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gague ID	Analyst
Roux Assoc.	6944	9/13/11	~~18~~ 1955	29.3	22	G6	DPD

Sampling Information and Return Equipment Check DPD 9/13/11	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	✓		
(2) Is the flow controller ID used for each canister recorded?	✓		
(3) Is visible sign of damage to canister and/or flow controller (FC) present?		✓	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[5]	FC Return (Y/N)	Can Cert Batch ID	Comments
1	2556	-4.5	N	3132	Y	3316 BKEU	2hr
2	2708	-4.6	N	2617	↓	↓	↓
3	2781	0.0	Y	4034	↓	↓	↓
4	3230	-1.2	N	4991	↓	↓	↓
5	2988	-3.9	N	4043	↓	↓	↓
6	3208	-2.9	N	4496	↓	↓	↓
7	3533	0.0	Y	2817	↓	↓	↓
					DPD	9/13/11	

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg)

[2] If return pressure is not within criteria, initiate anomaly report.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

Internal Use Only: Flow Controller Date and Page # 8/31 46 p 38
p 39

Summa Canister Dilution Worksheet

Client: Roux Associates, Inc.

TestAmerica Job ID: 200-6944-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Dilution Factor	Final Dilution Factor	Date	Analyst
200-6944-3	6	0.0	1.00	6.00	39.5	3.69	22.12	3.69	3.69	09/21/11 13:59	Daigle, Paul A
200-6944-7	6	0	1.00	6.00	14.8	2.01	12.04	2.01	2.01	09/21/11 21:43	Desjardins, William R

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg

Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig

Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

Vol = Volume of SUMMA canister at atmospheric pressure

Pre-Shipment Clean Canister Certification Report

Certification Type: ☒ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test					
System ID	# Cycles	Cleaning Date	Technician	Canister Size	
Bottom	50	8/22/11	VP	(6L)	1L / 3L

Port	Can ID	Initial[1] ("Hg)	Final ("Hg) VP 9/1/11	Adjusted Initial[2] ("Hg)	Difference[3]
1	2988	-29.1	-29.85	-29.5	0.0
2	2708				
3	3230				
4	3533				
5	4168				
6	2556				
7	2781				
8	3609				
9	3206				
10	3625				
11	3316				
12	3208				

Leak Test

Initial Reading	Final Reading
Gauge ID: G1	Gauge ID: G1
Date: 8/25/11	Date: 9/2/11
Time: 0900	Time: 1200
Tech: VP	Tech: VP
BP: 29.3 ("Hg)	BP: 29.7 ("Hg)
Temp 22 (°C)	Temp: 22 (°C)

[3]Acceptance Criteria:

(1) The difference must be less than or equal to + 0.5

(2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister:

PM Authorization:

Signature Date

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
3316	09/01/11	BREU	KLP		✓				9/01/11	PAD

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments: ~~Please cert can for TO15LL~~ VP 8/31/11

~~0.01 ppb~~

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Matrix: Air Level: Low Lab File ID: bkeu003.d

Lab ID: LCS 200-24579/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	10.6	106	70-130	
Dichlorodifluoromethane	10.0	11.3	113	70-130	
Freon 22	10.0	11.3	113	70-130	
1,2-Dichlorotetrafluoroethane	10.0	10.2	102	70-130	
Chloromethane	10.0	10.4	104	70-130	
n-Butane	10.0	9.78	98	70-130	
Vinyl chloride	10.0	10.1	101	70-130	
1,3-Butadiene	10.0	10.5	105	70-130	
Bromomethane	10.0	9.32	93	70-130	
Chloroethane	10.0	9.37	94	70-130	
Bromoethene(Vinyl Bromide)	10.0	10.2	102	70-130	
Trichlorofluoromethane	10.0	10.6	106	70-130	
Ethanol	15.0	14.3	95	70-130	
Freon TF	10.0	10.5	105	70-130	
1,1-Dichloroethene	10.0	10.8	108	70-130	
Acetone	10.0	10.4	104	70-130	
Isopropyl alcohol	10.0	9.26	93	70-130	
Carbon disulfide	10.0	9.51	95	70-130	
3-Chloropropene	10.0	8.46	85	70-130	
Methylene Chloride	10.0	9.43	94	70-130	
tert-Butyl alcohol	10.0	10.1	101	70-130	
Methyl tert-butyl ether	10.0	10.2	102	70-130	
trans-1,2-Dichloroethene	10.0	9.26	93	70-130	
n-Hexane	10.0	8.90	89	70-130	
1,1-Dichloroethane	10.0	9.00	90	70-130	
Vinyl acetate	10.0	9.01	90	70-130	
Ethyl acetate	10.0	9.68	97	70-130	
Methyl Ethyl Ketone	10.0	9.77	98	70-130	
cis-1,2-Dichloroethene	10.0	10.1	101	70-130	
Chloroform	10.0	9.88	99	70-130	
Tetrahydrofuran	10.0	9.33	93	70-130	
1,1,1-Trichloroethane	10.0	11.2	112	70-130	
Cyclohexane	10.0	10.3	103	70-130	
Carbon tetrachloride	10.0	11.5	115	70-130	
2,2,4-Trimethylpentane	10.0	9.84	98	70-130	
Benzene	10.0	9.52	95	70-130	
1,2-Dichloroethane	10.0	10.6	106	70-130	
n-Heptane	10.0	9.62	96	70-130	
Trichloroethene	10.0	10.6	106	70-130	
Methyl methacrylate	10.0	10.4	104	70-130	
1,2-Dichloropropane	10.0	8.98	90	70-130	
1,4-Dioxane	10.0	10.0	100	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Matrix: Air Level: Low Lab File ID: bkeu003.d

Lab ID: LCS 200-24579/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	11.0	110	70-130	
cis-1,3-Dichloropropene	10.0	10.2	102	70-130	
methyl isobutyl ketone	10.0	10.3	103	70-130	
Toluene	10.0	10.1	101	70-130	
trans-1,3-Dichloropropene	10.0	10.5	105	70-130	
1,1,2-Trichloroethane	10.0	9.28	93	70-130	
Tetrachloroethene	10.0	11.4	114	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.1	101	70-130	
Dibromochloromethane	10.0	12.0	120	70-130	
1,2-Dibromoethane	10.0	10.5	105	70-130	
Chlorobenzene	10.0	9.67	97	70-130	
Ethylbenzene	10.0	10.1	101	70-130	
m,p-Xylene	20.0	21.1	106	70-130	
Xylene, o-	10.0	10.9	109	70-130	
Styrene	10.0	11.0	110	70-130	
Bromoform	10.0	12.5	125	70-130	
Cumene	10.0	11.3	113	70-130	
1,1,2,2-Tetrachloroethane	10.0	8.96	90	70-130	
n-Propylbenzene	10.0	10.5	105	70-130	
4-Ethyltoluene	10.0	11.0	110	70-130	
1,3,5-Trimethylbenzene	10.0	10.6	107	70-130	
2-Chlorotoluene	10.0	10.4	104	70-130	
tert-Butylbenzene	10.0	11.5	115	70-130	
1,2,4-Trimethylbenzene	10.0	10.6	106	70-130	
sec-Butylbenzene	10.0	11.1	111	70-130	
4-Isopropyltoluene	10.0	11.7	117	70-130	
1,3-Dichlorobenzene	10.0	10.8	108	70-130	
1,4-Dichlorobenzene	10.0	11.0	110	70-130	
Benzyl chloride	10.0	8.17	82	70-130	
n-Butylbenzene	10.0	10.7	107	70-130	
1,2-Dichlorobenzene	10.0	10.6	106	70-130	
1,2,4-Trichlorobenzene	10.0	11.8	118	70-130	
Hexachlorobutadiene	10.0	11.8	118	70-130	
Naphthalene	10.0	12.1	121	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Lab File ID: bkeu004.d Lab Sample ID: MB 200-24579/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: B.i Date Analyzed: 08/31/2011 14:29

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-24579/3	bkeu003.d	08/31/2011 13:40
3316	200-6660-11	bkeu027.d	09/01/2011 11:35

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-6660-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-24579/4

Matrix: Air | Lab File ID: bkeu004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 08/31/2011 14:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 24579 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.20	U	0.20	0.20
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-24579/4

Matrix: Air Lab File ID: bkeu004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 08/31/2011 14:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 24579 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.20	U	0.20	0.20
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-24579/4

Matrix: Air Lab File ID: bkeu004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 08/31/2011 14:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 24579 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bkeuto15.b/bkeu004.d
Lab Smp Id: mb Client Smp ID: mb
Inj Date : 31-AUG-2011 14:29
Operator : pad Inst ID: B.i
Smp Info : mb
Misc Info : 200,1, mb
Comment :
Method : /chem/B.i/Bsvr.p/bkeuto15.b/to15v5.m
Meth Date : 01-Sep-2011 11:31 klp Quant Type: ISTD
Cal Date : 28-JUL-2011 11:12 Cal File: bke016.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
11 2-Methylbutane	43	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Pentane	43	Compound Not Detected.					

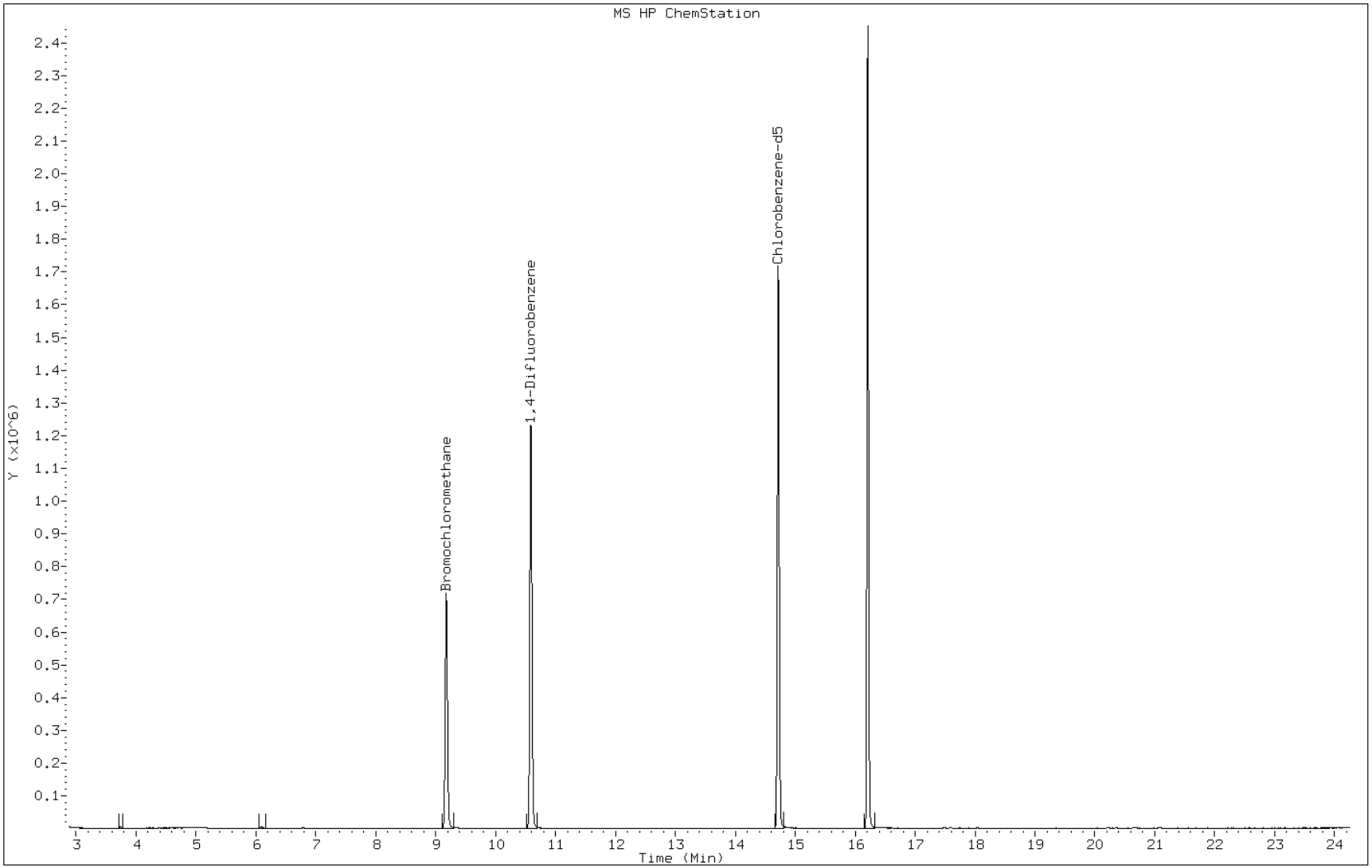
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	Compound Not Detected.					
	16 Ethyl ether	59	Compound Not Detected.					
	17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	6.093	6.023	(0.664)	10986	0.28937	0.29(a)
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	24 Acetonitrile	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	29 Acrylonitrile	53	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	323323	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	10.592	10.597	(1.000)	1485333	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	52 Dibromomethane	174	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	57 n-Octane	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	1360132	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	67 n-Nonane	57	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					
	77 1,2,3-Trichloropropane	75	Compound Not Detected.					
	78 n-Decane	57	Compound Not Detected.					
	79 4-Ethyltoluene	105	Compound Not Detected.					
	80 2-Chlorotoluene	91	Compound Not Detected.					
	81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	82 Alpha Methyl Styrene	118	Compound Not Detected.					
	83 tert-butylbenzene	119	Compound Not Detected.					
	84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	85 sec-Butylbenzene	105	Compound Not Detected.					
	86 4-Isopropyltoluene	119	Compound Not Detected.					
	87 1,3-Dichlorobenzene	146	Compound Not Detected.					
	88 1,4-Dichlorobenzene	146	Compound Not Detected.					
	89 Benzyl chloride	91	Compound Not Detected.					
	90 Undecane	57	Compound Not Detected.					
	91 n-Butylbenzene	91	Compound Not Detected.					
	92 1,2-Dichlorobenzene	146	Compound Not Detected.					
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
	96 Naphthalene	128	Compound Not Detected.					
	97 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File:	bkeu004.d	Date:	31-AUG-2011 14:29
Client ID:	mb	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	mb		
Lab Sample ID:	mb		



FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Lab File ID: bke001.d BFB Injection Date: 07/27/2011

Instrument ID: B.i BFB Injection Time: 22:09

Analysis Batch No.: 22552

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	15.0	
75	30.0 - 66.0% of mass 95	47.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.5	(0.5)1
174	50.0 - 120.0% of mass 95	90.5	
175	4.0 - 9.0 % of mass 174	6.3	(6.9)1
176	93.0 - 101.0% of mass 174	88.0	(97.2)1
177	5.0 - 9.0% of mass 176	5.8	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 200-22552/6	bke006.d	07/28/2011	02:28
	IC 200-22552/7	bke007.d	07/28/2011	03:20
	IC 200-22552/8	bke008.d	07/28/2011	04:13
	IC 200-22552/9	bke009.d	07/28/2011	05:06
	IC 200-22552/14	bke014.d	07/28/2011	09:27
	IC 200-22552/15	bke015.d	07/28/2011	10:20
	IC 200-22552/16	bke016.d	07/28/2011	11:12
	ICV 200-22552/20	bke020.d	07/28/2011	14:41

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Lab File ID: bkeu001.d BFB Injection Date: 08/31/2011

Instrument ID: B.i BFB Injection Time: 11:58

Analysis Batch No.: 24579

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	15.7	
75	30.0 - 66.0% of mass 95	49.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.3	(0.3)1
174	50.0 - 120.0% of mass 95	97.0	
175	4.0 - 9.0 % of mass 174	6.8	(7.0)1
176	93.0 - 101.0% of mass 174	93.8	(96.7)1
177	5.0 - 9.0% of mass 176	6.2	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-24579/2	bkeu002.d	08/31/2011	12:49
	LCS 200-24579/3	bkeu003.d	08/31/2011	13:40
	MB 200-24579/4	bkeu004.d	08/31/2011	14:29
3316	200-6660-11	bkeu027.d	09/01/2011	11:35

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Sample No.: ICIS 200-22552/6 Date Analyzed: 07/28/2011 02:28

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): bke006.d Heated Purge: (Y/N) N

Calibration ID: 8888

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		242780	9.18	1193228	10.60	1141582	14.72
UPPER LIMIT		339892	9.51	1670519	10.93	1598215	15.05
LOWER LIMIT		145668	8.85	715937	10.27	684949	14.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-22552/20		308575	9.19	1511660	10.60	1404265	14.72

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Sample No.: CCVIS 200-24579/2 Date Analyzed: 08/31/2011 12:49

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): bkeu002.d Heated Purge: (Y/N) N

Calibration ID: 8888

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		319013	9.18	1472333	10.59	1410268	14.72
UPPER LIMIT		446618	9.51	2061266	10.92	1974375	15.05
LOWER LIMIT		191408	8.85	883400	10.26	846161	14.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-24579/3		330447	9.18	1526778	10.59	1448023	14.72
MB 200-24579/4		323323	9.18	1485333	10.59	1360132	14.72
200-6660-11	3316	331885	9.18	1538063	10.59	1396768	14.72

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-6660-1

SDG No.:

Client Sample ID: 3316 | Lab Sample ID: 200-6660-11

Matrix: Air | Lab File ID: bkeu027.d

Analysis Method: TO-15 | Date Collected: 08/22/2011 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/01/2011 11:35

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 24579 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.040	U	0.040	0.040
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Client Sample ID: 3316 Lab Sample ID: 200-6660-11

Matrix: Air Lab File ID: bkeu027.d

Analysis Method: TO-15 Date Collected: 08/22/2011 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/01/2011 11:35

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 24579 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.040	U	0.040	0.040
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Client Sample ID: 3316 Lab Sample ID: 200-6660-11

Matrix: Air Lab File ID: bkeu027.d

Analysis Method: TO-15 Date Collected: 08/22/2011 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/01/2011 11:35

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 24579 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-6660-11
Client Smp ID: 3316
Inj Date : 01-SEP-2011 11:35
Operator : pad Inst ID: B.i
Smp Info : 200-6660-A-11
Misc Info : 1000,0.2,all74+mn
Comment :
Method : /chem/B.i/Bsvr.p/bkeuto15.b/to15v5.m
Meth Date : 01-Sep-2011 11:31 klp Quant Type: ISTD
Cal Date : 28-JUL-2011 11:12 Cal File: bke016.d
Als bottle: 10
Dil Factor: 0.20000
Integrator: HP RTE Compound Sublist: all74+MN.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	0.20000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	1000.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Ethanol	45	Compound Not Detected.					
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					

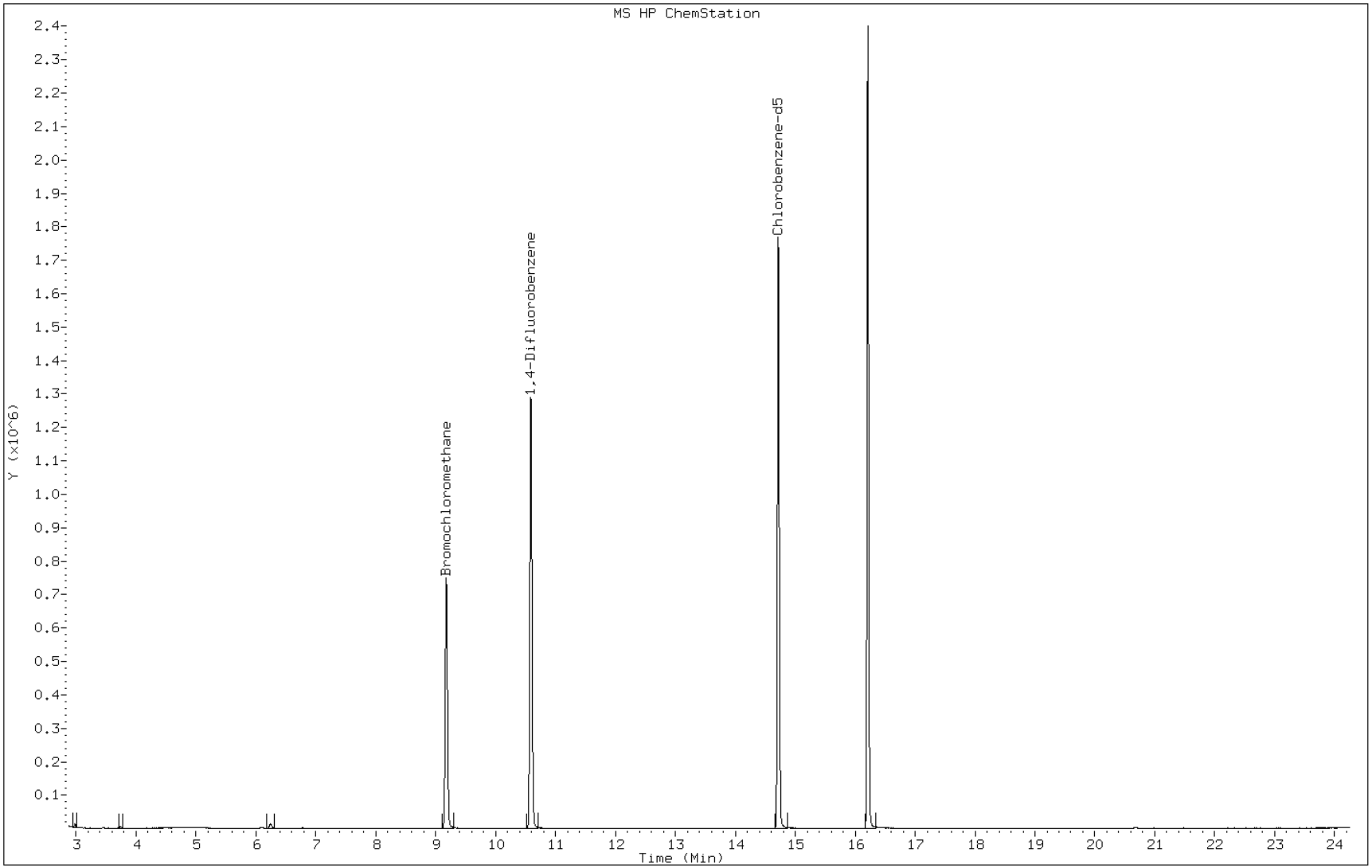
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	6.093	6.023	(0.664)	6196	0.15899	0.032(a)
	21 Carbon disulfide	76	6.247	6.247	(0.681)	28870	0.32252	0.065(a)
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	9.177	9.183	(1.000)	331885	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	10.592	10.597	(1.000)	1538063	10.0000	
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.717	14.722	(1.000)	1396768	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
72 Styrene	104	Compound Not Detected.					
73 Bromoform	173	Compound Not Detected.					
74 Isopropylbenzene	105	Compound Not Detected.					
75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File:	bkeu027.d	Date:	01-SEP-2011 11:35
Client ID:	3316	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-6660-A-11		
Lab Sample ID:	200-6660-11		



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-6660-1 Analy Batch No.: 22552

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2011 02:28 Calibration End Date: 07/28/2011 11:12 Calibration ID: 8888

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-22552/14	ic 158785	bke014.d
Level 2	IC 200-22552/15	ic 158782	bke015.d
Level 3	IC 200-22552/16	ic 158463	bke016.d
Level 4	ICIS 200-22552/6	icis 163189	bke006.d
Level 5	IC 200-22552/7	ic 158419	bke007.d
Level 6	IC 200-22552/8	ic 158408	bke008.d
Level 7	IC 200-22552/9	ic 158370	bke009.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.2159	0.3331 0.2461	0.2868	0.3495	0.3023	Ave		0.2889				17.6		30.0			
Dichlorodifluoromethane	+++++ 1.5394	2.1992 1.6592	2.1740	2.6269	2.2047	Ave		2.0672				19.4		30.0			
Freon 22	+++++ 0.6067	0.8868 0.6836	0.8459	1.0205	0.8713	Ave		0.8191				18.3		30.0			
1,2-Dichlorotetrafluoroethane	2.3652 1.3605	1.9285 1.4972	1.9122	2.2792	1.9369	Ave		1.8971				19.4		30.0			
Chloromethane	+++++ 0.2604	0.3730 0.2943	0.3528	0.4149	0.3615	Ave		0.3428				16.3		30.0			
n-Butane	+++++ 0.4529	0.7539 0.5083	0.6048	0.7179	0.6211	Ave		0.6098				19.1		30.0			
Vinyl chloride	0.6161 0.3821	0.4989 0.4225	0.5117	0.6154	0.5251	Ave		0.5102				17.3		30.0			
1,3-Butadiene	0.4043 0.2666	0.3327 0.2992	0.3571	0.4242	0.3682	Ave		0.3503				15.9		30.0			
Acrolein	+++++ 0.2320	+++++ 0.2767	0.3427	0.3573	0.3416	Ave		0.3101				17.3		30.0			
Bromomethane	1.0535 0.6080	0.8696 0.6885	0.8666	0.9848	0.8520	Ave		0.8461				18.4		30.0			
Chloroethane	+++++ 0.2849	0.4085 0.3277	0.4129	0.4659	0.4037	Ave		0.3839				17.1		30.0			
Isopentane	0.9714 0.5259	0.8046 0.5890	0.7663	0.8798	0.7481	Ave		0.7550				20.6		30.0			
Bromoethene(Vinyl Bromide)	1.4178 0.8028	1.1001 0.9248	1.0991	1.1949	1.0968	Ave		1.0909				17.9		30.0			
Acetonitrile	+++++ 0.3629	+++++ 0.4258	0.5768	0.6597	0.5123	Ave		0.5075				23.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-6660-1 Analy Batch No.: 22552

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2011 02:28 Calibration End Date: 07/28/2011 11:12 Calibration ID: 8888

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichlorofluoromethane	4.1314 2.3455	3.3776 2.6571	3.3120	3.7242	3.2824	Ave		3.2615				18.5		30.0			
n-Pentane	+++++ 0.8924	1.5415 0.9870	1.3205	1.5101	1.2727	Ave		1.2540				21.3		30.0			
tert-Butyl alcohol	+++++ 1.1119	+++++ 1.3084	1.4487	1.7115	1.5185	Ave		1.4198				15.9		30.0			
Ethanol	+++++ 0.1996	0.2803 0.2178	0.2743	0.3178	0.2718	Ave		0.2603				16.8		30.0			
Ethyl ether	0.7132 0.4894	0.6184 0.5566	0.6871	0.7494	0.6750	Ave		0.6413				14.4		30.0			
Isopropyl alcohol	+++++ 0.6305	+++++ 0.7231	0.8298	1.0524	0.8783	Ave		0.8228				19.5		30.0			
Freon TF	3.0207 1.5936	2.2131 1.8453	2.1633	2.2172	2.1093	Ave		2.1661				20.4		30.0			
1,1-Dichloroethene	1.2312 0.7328	0.9659 0.8777	0.9797	0.9915	0.9554	Ave		0.9620				15.5		30.0			
Acetone	+++++ 0.9045	+++++ 0.9653	1.2918	1.4789	1.2305	Ave		1.1742				20.3		30.0			
Carbon disulfide	+++++ 2.0920	2.9038 2.4587	2.9274	2.9979	2.8034	Ave		2.6972				13.1		30.0			
Ethyl acetate	+++++ 0.0728	+++++ 0.0848	0.0924	0.0940	0.0928	Ave		0.0874				10.2		30.0			
3-Chloropropene	1.0530 0.6360	0.8045 0.7250	0.9348	1.0318	0.9058	Ave		0.8701				17.9		30.0			
Methylene Chloride	+++++ 0.6121	0.9849 0.6821	0.9100	0.9892	0.8554	Ave		0.8389				18.9		30.0			
Vinyl acetate	+++++ 1.3708	+++++ 1.5717	1.9311	2.2264	1.9411	Ave		1.8082				18.7		30.0			
Methyl tert-butyl ether	3.0117 2.1652	2.4825 2.5396	2.9224	3.1185	2.9129	Ave		2.7361				12.6		30.0			
trans-1,2-Dichloroethene	1.6468 0.9724	1.2994 1.1020	1.4317	1.5232	1.3427	Ave		1.3312				17.6		30.0			
Acrylonitrile	+++++ 0.4142	0.5241 0.4961	0.6082	0.6438	0.5845	Ave		0.5451				15.4		30.0			
n-Hexane	1.4811 0.9598	1.2730 1.0965	1.3787	1.4581	1.3045	Ave		1.2788				14.9		30.0			
n-Butanol	+++++ 0.0664	+++++ 0.0831	0.0787	0.0960	0.0885	Ave		0.0825				13.4		30.0			
1,1-Dichloroethane	2.1297 1.2226	1.7202 1.3894	1.7706	1.8698	1.6720	Ave		1.6820				17.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-6660-1 Analy Batch No.: 22552

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2011 02:28 Calibration End Date: 07/28/2011 11:12 Calibration ID: 8888

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.0736	+++++ 0.0844	0.0954	0.1072	0.0983	Ave		0.0918				14.2		30.0			
cis-1,2-Dichloroethene	1.3144 0.8345	0.9825 0.9811	1.0963	1.1097	1.0885	Ave		1.0581				14.0		30.0			
Methyl Ethyl Ketone	+++++ 0.3579	0.4134 0.4032	0.4900	0.5076	0.4767	Ave		0.4415				13.3		30.0			
Tetrahydrofuran	+++++ 0.1186	+++++ 0.1352	0.1705	0.1921	0.1674	Ave		0.1567				18.8		30.0			
Chloroform	2.9291 1.7014	2.3201 1.9848	2.3815	2.5088	2.3020	Ave		2.3040				16.8		30.0			
1,1,1-Trichloroethane	0.6760 0.4024	0.5250 0.4643	0.5304	0.5758	0.5442	Ave		0.5312				16.2		30.0			
Cyclohexane	0.3328 0.2237	0.2563 0.2574	0.2886	0.3003	0.2936	Ave		0.2790				12.8		30.0			
Carbon tetrachloride	0.6945 0.4359	0.5380 0.5197	0.5567	0.6024	0.5822	Ave		0.5613				14.2		30.0			
2,2,4-Trimethylpentane	0.8743 0.6199	0.7001 0.6991	0.8509	0.9153	0.8370	Ave		0.7852				14.1		30.0			
Benzene	0.8363 0.4738	0.6471 0.5468	0.6404	0.6578	0.6280	Ave		0.6329				17.7		30.0			
1,2-Dichloroethane	0.3679 0.2271	0.3002 0.2664	0.3132	0.3446	0.3111	Ave		0.3044				15.4		30.0			
n-Heptane	0.2731 0.1981	0.2471 0.2229	0.2886	0.3150	0.2751	Ave		0.2600				15.4		30.0			
Trichloroethene	0.3888 0.2395	0.2868 0.2826	0.3193	0.3261	0.3164	Ave		0.3085				15.0		30.0			
1,2-Dichloropropane	0.2525 0.1556	0.2021 0.1803	0.2170	0.2262	0.2090	Ave		0.2061				15.2		30.0			
Methyl methacrylate	+++++ 0.1695	0.1450 0.2018	0.2204	0.2357	0.2245	Ave		0.1995				17.7		30.0			
Dibromomethane	0.3363 0.2191	0.2484 0.2651	0.2650	0.2626	0.2794	Ave		0.2680				13.3		30.0			
Bromodichloromethane	0.6379 0.4021	0.4974 0.4665	0.5417	0.5738	0.5423	Ave		0.5231				14.6		30.0			
cis-1,3-Dichloropropene	0.3494 0.2813	0.2752 0.3395	0.3625	0.3842	0.3728	Ave		0.3379				12.8		30.0			
methyl isobutyl ketone	+++++ 0.2697	0.2598 0.3074	0.3793	0.4203	0.3727	Ave		0.3349				19.5		30.0			
Toluene	0.6539 0.4096	0.5163 0.4554	0.5482	0.5431	0.5404	Ave		0.5238				14.8		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-6660-1 Analy Batch No.: 22552

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2011 02:28 Calibration End Date: 07/28/2011 11:12 Calibration ID: 8888

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Octane	0.3923 0.2607	0.3389 0.2715	0.4051	0.4318	0.3638	Ave		0.3520				18.7		30.0			
trans-1,3-Dichloropropene	0.3637 0.3052	0.3080 0.3711	0.4041	0.4311	0.4126	Ave		0.3708				13.4		30.0			
1,1,2-Trichloroethane	0.3122 0.1938	0.2523 0.2305	0.2609	0.2601	0.2561	Ave		0.2523				14.1		30.0			
Tetrachloroethene	0.5815 0.3819	0.4353 0.4593	0.4504	0.4451	0.4844	Ave		0.4626				13.2		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2880	0.2816 0.3366	0.3901	0.4231	0.3961	Ave		0.3526				16.9		30.0			
n-Dodecane	+++++ 0.4163	+++++ 0.4234	0.5088	0.5224	0.5327	Ave		0.4807				11.7		30.0			
Dibromochloromethane	0.6940 0.4705	0.5264 0.5648	0.5777	0.5879	0.6128	Ave		0.5763				12.1		30.0			
1,2-Dibromoethane	0.5812 0.4022	0.4586 0.4880	0.5110	0.5068	0.5259	Ave		0.4963				11.3		30.0			
Chlorobenzene	1.0630 0.6130	0.7852 0.7502	0.7816	0.7567	0.7891	Ave		0.7913				17.0		30.0			
Ethylbenzene	1.4071 0.9365	1.1112 1.1082	1.2315	1.2329	1.2315	Ave		1.1799				12.4		30.0			
n-Nonane	0.5019 0.3236	0.4305 0.3602	0.4705	0.4732	0.4387	Ave		0.4284				15.0		30.0			
m,p-Xylene	0.5778 0.3810	0.4527 0.4092	0.5068	0.5030	0.5056	Ave		0.4766				14.1		30.0			
Xylene, o-	0.4588 0.3769	0.3743 0.4324	0.4872	0.4764	0.4908	Ave		0.4424				11.2		30.0			
Styrene	0.6775 0.5926	0.5815 0.6904	0.7686	0.7511	0.7777	Ave		0.6913				11.7		30.0			
Bromoform	0.6094 0.4528	0.4609 0.5209	0.5495	0.5576	0.5933	Ave		0.5349				11.3		30.0			
Cumene	1.3912 1.1176	1.1088 1.3098	1.4416	1.4268	1.4592	Ave		1.3221				11.4		30.0			
1,1,2,2-Tetrachloroethane	0.9319 0.5033	0.6753 0.5757	0.6998	0.6806	0.6668	Ave		0.6762				19.7		30.0			
n-Propylbenzene	1.9025 1.2614	1.4864 1.3321	1.7345	1.7381	1.6882	Ave		1.5919				14.8		30.0			
1,2,3-Trichloropropane	+++++ 0.3836	0.5874 0.4085	0.5514	0.5568	0.5201	Ave		0.5013				16.9		30.0			
n-Decane	+++++ 0.4158	0.5463 0.4400	0.6216	0.6063	0.5646	Ave		0.5324				16.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-6660-1 Analy Batch No.: 22552

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2011 02:28 Calibration End Date: 07/28/2011 11:12 Calibration ID: 8888

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Ethyltoluene	1.7772 1.1536	1.3619 1.2632	1.5345	1.5164	1.5304	Ave		1.4482				14.3		30.0			
2-Chlorotoluene	1.7895 1.0034	1.3084 1.1227	1.3704	1.3694	1.3426	Ave		1.3295				18.5		30.0			
1,3,5-Trimethylbenzene	1.5145 0.9552	1.1037 1.0874	1.2569	1.2363	1.2599	Ave		1.2020				14.8		30.0			
Alpha Methyl Styrene	0.5122 0.5077	0.4205 0.6044	0.6300	0.6177	0.6609	Ave		0.5648				15.3		30.0			
tert-Butylbenzene	1.3094 0.9101	1.0127 1.0545	1.1863	1.1631	1.1969	Ave		1.1190				12.0		30.0			
1,2,4-Trimethylbenzene	1.3546 0.9450	1.0671 1.0875	1.2542	1.2227	1.2453	Ave		1.1681				12.0		30.0			
sec-Butylbenzene	1.9656 1.3380	1.4871 1.5106	1.7894	1.7400	1.7592	Ave		1.6557				13.1		30.0			
4-Isopropyltoluene	1.5638 1.1828	1.2096 1.3461	1.5334	1.4973	1.5584	Ave		1.4131				11.7		30.0			
1,3-Dichlorobenzene	1.1327 0.6810	0.7950 0.7922	0.8747	0.8190	0.8894	Ave		0.8548				16.4		30.0			
1,4-Dichlorobenzene	1.0495 0.6874	0.7586 0.8071	0.8808	0.8239	0.9013	Ave		0.8441				13.7		30.0			
Benzyl chloride	1.1714 0.7825	0.8821 1.0458	1.1363	1.0559	1.1468	Ave		1.0315				14.2		30.0			
n-Undecane	+++++ 0.4220	+++++ 0.4211	0.6628	0.6307	0.5838	Ave		0.5441				21.2		30.0			
n-Butylbenzene	1.6683 0.9701	1.2690 0.9693	1.4118	1.3652	1.3243	Ave		1.2826				19.4		30.0			
1,2-Dichlorobenzene	1.0656 0.6444	0.7393 0.7582	0.8361	0.7827	0.8376	Ave		0.8091				16.2		30.0			
1,2,4-Trichlorobenzene	+++++ 0.5475	0.3402 0.6251	0.6403	0.5591	0.7257	Ave		0.5730				22.8		30.0			
Hexachlorobutadiene	0.5820 0.3722	0.3991 0.3722	0.4700	0.4656	0.4972	Ave		0.4512				16.9		30.0			
Naphthalene	+++++ 1.2321	0.5539 1.4973	1.4650	1.2366	1.6135	Ave		1.2664				30.0	*	30.0			
1,2,3-Trichlorobenzene	0.4703 0.4897	0.2692 0.5688	0.5623	0.5088	0.6406	Ave		0.5014				23.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-6660-1 Analy Batch No.: 22552

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2011 02:28 Calibration End Date: 07/28/2011 11:12 Calibration ID: 8888

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-22552/14	bke014.d
Level 2	IC 200-22552/15	bke015.d
Level 3	IC 200-22552/16	bke016.d
Level 4	ICIS 200-22552/6	bke006.d
Level 5	IC 200-22552/7	bke007.d
Level 6	IC 200-22552/8	bke008.d
Level 7	IC 200-22552/9	bke009.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 140803	5489 357541	43770	84853	131228	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dichlorodifluoromethane	BCM	Ave	+++++ 1003964	36241 2410913	331837	637760	957125	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Freon 22	BCM	Ave	+++++ 395685	14614 993384	129112	247765	378243	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	16432 887285	31780 2175500	291871	553352	840857	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloromethane	BCM	Ave	+++++ 169805	6147 427631	53858	100727	156919	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Butane	BCM	Ave	+++++ 295360	12423 738624	92311	174286	269637	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl chloride	BCM	Ave	4280 249188	8221 613958	78110	149406	227941	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Butadiene	BCM	Ave	2809 173886	5482 434764	54504	102986	159835	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acrolein	BCM	Ave	+++++ 151313	+++++ 402107	52313	86734	148306	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Bromomethane	BCM	Ave	7319 396497	14330 1000389	132273	239081	369861	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloroethane	BCM	Ave	+++++ 185813	6731 476224	63018	113105	175266	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Isopentane	BCM	Ave	6749 342955	13259 855928	116967	213609	324752	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoethene(Vinyl Bromide)	BCM	Ave	9850 523559	18128 1343834	167762	290097	476172	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetonitrile	BCM	Ave	+++++ 236673	+++++ 618718	88048	160172	222417	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Trichlorofluoromethane	BCM	Ave	28703 1529659	55661 3860976	505534	904161	1424990	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-6660-1 Analy Batch No.: 22552

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2011 02:28 Calibration End Date: 07/28/2011 11:12 Calibration ID: 8888

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Pentane	BCM	Ave	+++++ 581994	25403 1434161	201552	366630	552494	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
tert-Butyl alcohol	BCM	Ave	+++++ 725136	+++++ 1901159	221134	415517	659213	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Ethanol	BCM	Ave	+++++ 260294	46189 791056	83738	115716	157351	+++++ 40.0	5.00 100	10.0	15.0	20.0
Ethyl ether	BCM	Ave	4955 319198	10190 808796	104885	181930	293028	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Isopropyl alcohol	BCM	Ave	+++++ 411204	+++++ 1050682	126667	255502	381289	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Freon TF	BCM	Ave	20986 1039277	36470 2681359	330209	538297	915726	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethene	BCM	Ave	8554 477879	15918 1275361	149540	240709	414754	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetone	BCM	Ave	+++++ 589879	+++++ 1402668	197177	359059	534181	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Carbon disulfide	BCM	Ave	+++++ 1364299	47852 3572655	446827	727830	1217020	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Ethyl acetate	BCM	Ave	+++++ 47470	+++++ 123290	14099	22826	40299	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
3-Chloropropene	BCM	Ave	7316 414753	13257 1053510	142693	250491	393217	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methylene Chloride	BCM	Ave	+++++ 399221	16230 991084	138895	240159	371344	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl acetate	BCM	Ave	+++++ 893985	+++++ 2283813	294764	540530	842701	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Methyl tert-butyl ether	BCM	Ave	20924 1412066	40910 3690216	446068	757115	1264587	0.200 20.0	0.500 40.0	5.00	10.0	15.0
trans-1,2-Dichloroethene	BCM	Ave	11441 634178	21413 1601265	218526	369800	582897	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acrylonitrile	BCM	Ave	+++++ 270108	8636 720925	92829	156294	253741	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Hexane	BCM	Ave	10290 625936	20978 1593336	210450	353993	566322	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Butanol	DFB	Ave	+++++ 209545	+++++ 580663	60096	114566	186209	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
1,1-Dichloroethane	BCM	Ave	14796 797338	28347 2018864	270258	453958	725850	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,4-Dioxane	DFB	Ave	+++++ 232162	+++++ 589696	72880	127905	206863	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
cis-1,2-Dichloroethene	BCM	Ave	9132 544202	16191 1425587	167345	269407	472566	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-6660-1 Analy Batch No.: 22552

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2011 02:28 Calibration End Date: 07/28/2011 11:12 Calibration ID: 8888

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl Ethyl Ketone	BCM	Ave	+++++ 233411	6812 585913	74798	123243	206941	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Tetrahydrofuran	DFB	Ave	+++++ 374151	+++++ 945027	130160	229221	352403	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Chloroform	BCM	Ave	20350 1109593	38234 2884024	363516	609080	999344	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,1-Trichloroethane	DFB	Ave	22986 1270123	42515 3245488	405002	687051	1145497	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cyclohexane	DFB	Ave	11318 705895	20752 1798933	220368	358334	617977	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Carbon tetrachloride	DFB	Ave	23617 1375585	43564 3632534	425141	718755	1225510	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2,2,4-Trimethylpentane	DFB	Ave	29729 1956535	56694 4886482	649757	1092146	1761711	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzene	DFB	Ave	28438 1495205	52400 3822002	489015	784892	1321909	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethane	DFB	Ave	12509 716641	24310 1862348	239173	411159	654783	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Heptane	DFB	Ave	9287 625126	20011 1557951	220362	375908	578974	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichloroethene	DFB	Ave	13222 755941	23221 1975414	243799	389076	665895	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloropropane	DFB	Ave	8585 491227	16363 1260270	165677	269914	439919	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl methacrylate	DFB	Ave	+++++ 534912	11744 1410880	168338	281278	472565	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dibromomethane	DFB	Ave	11437 691501	20112 1853044	202338	313393	588006	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromodichloromethane	DFB	Ave	21692 1268983	40274 3260511	413640	684711	1141428	0.200 20.0	0.500 40.0	5.00	10.0	15.0
cis-1,3-Dichloropropene	DFB	Ave	11882 887919	22288 2372953	276784	458489	784732	0.200 20.0	0.500 40.0	5.00	10.0	15.0
methyl isobutyl ketone	DFB	Ave	+++++ 851101	21039 2148684	289674	501550	784407	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Toluene	CBZ	Ave	20044 1206390	37593 2932348	394540	619995	1064101	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Octane	DFB	Ave	13338 822762	27439 1897887	309319	515213	765744	0.200 20.0	0.500 40.0	5.00	10.0	15.0
trans-1,3-Dichloropropene	DFB	Ave	12367 963331	24942 2593797	308602	514414	868538	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloroethane	CBZ	Ave	9570 570878	18371 1484635	187738	296970	504316	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-6660-1 Analy Batch No.: 22552

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2011 02:28 Calibration End Date: 07/28/2011 11:12 Calibration ID: 8888

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	17826 1125043	31693 2957836	324151	508063	953885	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 848447	20502 2167852	280714	482978	779897	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Dodecane	CBZ	Ave	+++++ 1226406	+++++ 2726522	366186	596328	1048975	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Dibromochloromethane	CBZ	Ave	21274 1385787	38324 3637189	415766	671082	1206684	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dibromoethane	CBZ	Ave	17817 1184862	33393 3142643	367764	578599	1035501	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chlorobenzene	CBZ	Ave	32585 1805527	57172 4831232	562443	863828	1553857	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Ethylbenzene	CBZ	Ave	43133 2758693	80908 7136678	886242	1407445	2424981	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Nonane	CBZ	Ave	15386 953072	31343 2319892	338574	540200	863789	0.200 20.0	0.500 40.0	5.00	10.0	15.0
m,p-Xylene	CBZ	Ave	35426 2244614	65916 5270722	729472	1148324	1991298	0.400 40.0	1.00 80.0	10.0	20.0	30.0
Xylene, o-	CBZ	Ave	14065 1110164	27249 2784741	350578	543860	966548	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Styrene	CBZ	Ave	20769 1745448	42335 4445657	553141	857403	1531368	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoform	CBZ	Ave	18679 1333730	33555 3354306	395416	636590	1168225	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cumene	CBZ	Ave	42644 3291918	80730 8434506	1037398	1628833	2873320	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	28566 1482411	49167 3707068	503605	776936	1313106	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Propylbenzene	CBZ	Ave	58319 3715733	108226 8578555	1248239	1984158	3324242	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,3-Trichloropropane	CBZ	Ave	+++++ 1129796	42770 2630466	396839	635644	1024159	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Decane	CBZ	Ave	+++++ 1224834	39778 2833769	447347	692093	1111763	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
4-Ethyltoluene	CBZ	Ave	54476 3398105	99157 8134324	1104303	1731055	3013649	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2-Chlorotoluene	CBZ	Ave	54853 2955590	95262 7230173	986201	1563243	2643759	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3,5-Trimethylbenzene	CBZ	Ave	46426 2813539	80362 7002854	904509	1411363	2480900	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Alpha Methyl Styrene	CBZ	Ave	15700 1495356	30613 3892263	453376	705130	1301435	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-6660-1 Analy Batch No.: 22552

SDG No.:

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2011 02:28 Calibration End Date: 07/28/2011 11:12 Calibration ID: 8888

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
tert-Butylbenzene	CBZ	Ave	40136 2680826	73735 6790369	853722	1327831	2356901	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trimethylbenzene	CBZ	Ave	41522 2783483	77697 7003362	902596	1395816	2452220	0.200 20.0	0.500 40.0	5.00	10.0	15.0
sec-Butylbenzene	CBZ	Ave	60253 3941176	108276 9727629	1287736	1986402	3464214	0.200 20.0	0.500 40.0	5.00	10.0	15.0
4-Isopropyltoluene	CBZ	Ave	47936 3484092	88070 8668296	1103505	1709240	3068745	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichlorobenzene	CBZ	Ave	34720 2005924	57880 5101399	629467	934955	1751412	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,4-Dichlorobenzene	CBZ	Ave	32172 2024850	55230 5197372	633876	940516	1774743	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzyl chloride	CBZ	Ave	35908 2304818	64225 6734475	817699	1205341	2258317	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Undecane	CBZ	Ave	+++++ 1243086	+++++ 2711646	476941	720011	1149506	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
n-Butylbenzene	CBZ	Ave	51139 2857601	92394 6242181	1015988	1558540	2607698	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorobenzene	CBZ	Ave	32665 1898283	53827 4882744	601716	893525	1649283	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 1612617	24772 4025596	460772	638208	1428948	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Hexachlorobutadiene	CBZ	Ave	17840 1096322	29061 2397022	338232	531504	978972	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Naphthalene	CBZ	Ave	+++++ 3629414	40331 9642035	1054299	1411665	3177217	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2,3-Trichlorobenzene	CBZ	Ave	14417 1442447	19599 3662626	404683	580894	1261517	0.200 20.0	0.500 40.0	5.00	10.0	15.0

Curve Type Legend:
Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Lab Sample ID: ICV 200-22552/20 Calibration Date: 07/28/2011 14:41

Instrument ID: B.i Calib Start Date: 07/28/2011 02:28

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/28/2011 11:12

Lab File ID: bke020.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: icv 159345

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.2889	0.2638		9.13	10.0	-8.7	30.0
Dichlorodifluoromethane	Ave	2.067	2.043		9.88	10.0	-1.2	30.0
Freon 22	Ave	0.8191	0.8020		9.79	10.0	-2.1	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.897	1.796		9.47	10.0	-5.3	30.0
Chloromethane	Ave	0.3428	0.3328		9.71	10.0	-2.9	30.0
n-Butane	Ave	0.6098	0.5653		9.27	10.0	-7.3	30.0
Vinyl chloride	Ave	0.5102	0.4862		9.53	10.0	-4.7	30.0
1,3-Butadiene	Ave	0.3503	0.3526		10.1	10.0	0.6	30.0
Bromomethane	Ave	0.8461	0.7722		9.13	10.0	-8.7	30.0
Chloroethane	Ave	0.3839	0.3739		9.74	10.0	-2.6	30.0
Isopentane	Ave	0.7550	0.6971		9.23	10.0	-7.7	30.0
Bromoethene(Vinyl Bromide)	Ave	1.091	1.072		9.82	10.0	-1.7	30.0
Trichlorofluoromethane	Ave	3.261	3.163		9.70	10.0	-3.0	30.0
n-Pentane	Ave	1.254	1.180		9.41	10.0	-5.9	30.0
Ethanol	Ave	0.2603	0.2809		16.2	15.0	7.9	30.0
Ethyl ether	Ave	0.6413	0.6167		9.61	10.0	-3.8	30.0
Acrolein	Ave	0.3101	0.2766		8.92	10.0	-10.8	30.0
Freon TF	Ave	2.166	2.262		10.4	10.0	4.4	30.0
1,1-Dichloroethene	Ave	0.9620	1.072		11.1	10.0	11.4	30.0
Acetone	Ave	1.174	1.375		11.7	10.0	17.1	30.0
Carbon disulfide	Ave	2.697	2.820		10.5	10.0	4.6	30.0
Isopropyl alcohol	Ave	0.8228	0.7848		9.54	10.0	-4.6	30.0
3-Chloropropene	Ave	0.8701	0.8999		10.3	10.0	3.4	30.0
Acetonitrile	Ave	0.5075	0.4975		9.80	10.0	-2.0	30.0
Methylene Chloride	Ave	0.8389	0.9192		11.0	10.0	9.6	30.0
tert-Butyl alcohol	Ave	1.420	1.391		9.80	10.0	-2.0	30.0
Methyl tert-butyl ether	Ave	2.736	2.931		10.7	10.0	7.1	30.0
trans-1,2-Dichloroethene	Ave	1.331	1.354		10.2	10.0	1.7	30.0
Acrylonitrile	Ave	0.5451	0.5837		10.7	10.0	7.1	30.0
n-Hexane	Ave	1.279	1.322		10.3	10.0	3.4	30.0
1,1-Dichloroethane	Ave	1.682	1.706		10.1	10.0	1.5	30.0
Vinyl acetate	Ave	1.808	1.870		10.3	10.0	3.4	30.0
cis-1,2-Dichloroethene	Ave	1.058	1.141		10.8	10.0	7.8	30.0
Methyl Ethyl Ketone	Ave	0.4415	0.4885		11.1	10.0	10.6	30.0
Ethyl acetate	Ave	0.0874	0.0924		10.6	10.0	5.7	30.0
Tetrahydrofuran	Ave	0.1567	0.1658		10.6	10.0	5.8	30.0
Chloroform	Ave	2.304	2.351		10.2	10.0	2.1	30.0
1,1,1-Trichloroethane	Ave	0.5312	0.5407		10.2	10.0	1.8	30.0
Cyclohexane	Ave	0.2790	0.2972		10.7	10.0	6.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Lab Sample ID: ICV 200-22552/20 Calibration Date: 07/28/2011 14:41

Instrument ID: B.i Calib Start Date: 07/28/2011 02:28

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/28/2011 11:12

Lab File ID: bke020.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: icv 159345

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.5613	0.5772		10.3	10.0	2.8	30.0
2,2,4-Trimethylpentane	Ave	0.7852	0.8493		10.8	10.0	8.2	30.0
Benzene	Ave	0.6329	0.6334		10.0	10.0	0.0	30.0
1,2-Dichloroethane	Ave	0.3044	0.3146		10.3	10.0	3.4	30.0
n-Heptane	Ave	0.2600	0.2763		10.6	10.0	6.3	30.0
n-Butanol	Ave	0.0825	0.0683		8.28	10.0	-17.2	30.0
Trichloroethene	Ave	0.3085	0.3181		10.3	10.0	3.1	30.0
1,2-Dichloropropane	Ave	0.2061	0.2067		10.0	10.0	0.3	30.0
Methyl methacrylate	Ave	0.1995	0.2211		11.1	10.0	10.8	30.0
1,4-Dioxane	Ave	0.0918	0.0891		9.71	10.0	-2.9	30.0
Dibromomethane	Ave	0.2680	0.2846		10.6	10.0	6.2	30.0
Bromodichloromethane	Ave	0.5231	0.5608		10.7	10.0	7.2	30.0
cis-1,3-Dichloropropene	Ave	0.3379	0.3634		10.8	10.0	7.6	30.0
methyl isobutyl ketone	Ave	0.3349	0.3664		10.9	10.0	9.4	30.0
Toluene	Ave	0.5238	0.5399		10.3	10.0	3.1	30.0
n-Octane	Ave	0.3520	0.3714		10.5	10.0	5.5	30.0
trans-1,3-Dichloropropene	Ave	0.3708	0.4008		10.8	10.0	8.1	30.0
1,1,2-Trichloroethane	Ave	0.2523	0.2473		9.80	10.0	-2.0	30.0
Tetrachloroethene	Ave	0.4626	0.4779		10.3	10.0	3.3	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3526	0.3753		10.6	10.0	6.4	30.0
Dibromochloromethane	Ave	0.5763	0.6320		11.0	10.0	9.7	30.0
1,2-Dibromoethane	Ave	0.4963	0.5137		10.3	10.0	3.5	30.0
Chlorobenzene	Ave	0.7913	0.7702		9.73	10.0	-2.7	30.0
Ethylbenzene	Ave	1.180	1.213		10.3	10.0	2.8	30.0
n-Nonane	Ave	0.4284	0.4417		10.3	10.0	3.1	30.0
m,p-Xylene	Ave	0.4766	0.4926		20.7	20.0	3.4	30.0
Xylene, o-	Ave	0.4424	0.4745		10.7	10.0	7.2	30.0
Styrene	Ave	0.6913	0.7328		10.6	10.0	6.0	30.0
Bromoform	Ave	0.5349	0.5973		11.2	10.0	11.7	30.0
Cumene	Ave	1.322	1.446		10.9	10.0	9.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6762	0.6403		9.47	10.0	-5.3	30.0
n-Propylbenzene	Ave	1.592	1.685		10.6	10.0	5.8	30.0
1,2,3-Trichloropropane	Ave	0.5013	0.5227		10.4	10.0	4.3	30.0
n-Decane	Ave	0.5324	0.5638		10.6	10.0	5.9	30.0
4-Ethyltoluene	Ave	1.448	1.523		10.5	10.0	5.2	30.0
2-Chlorotoluene	Ave	1.329	1.349		10.1	10.0	1.5	30.0
1,3,5-Trimethylbenzene	Ave	1.202	1.204		10.0	10.0	0.2	30.0
Alpha Methyl Styrene	Ave	0.5648	0.5541		9.81	10.0	-1.9	30.0
tert-Butylbenzene	Ave	1.119	1.183		10.6	10.0	5.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Lab Sample ID: ICV 200-22552/20 Calibration Date: 07/28/2011 14:41

Instrument ID: B.i Calib Start Date: 07/28/2011 02:28

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/28/2011 11:12

Lab File ID: bke020.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: icv 159345

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trimethylbenzene	Ave	1.168	1.167		9.99	10.0	-0.0	30.0
sec-Butylbenzene	Ave	1.656	1.747		10.6	10.0	5.5	30.0
4-Isopropyltoluene	Ave	1.413	1.507		10.7	10.0	6.6	30.0
1,3-Dichlorobenzene	Ave	0.8548	0.8374		9.79	10.0	-2.0	30.0
1,4-Dichlorobenzene	Ave	0.8441	0.8460		10.0	10.0	0.2	30.0
Benzyl chloride	Ave	1.032	1.093		10.6	10.0	6.0	30.0
n-Undecane	Ave	0.5441	0.5752		10.6	10.0	5.7	30.0
n-Butylbenzene	Ave	1.283	1.304		10.2	10.0	1.7	30.0
1,2-Dichlorobenzene	Ave	0.8091	0.7711		9.53	10.0	-4.7	30.0
n-Dodecane	Ave	0.4807	0.4282		8.91	10.0	-10.9	30.0
1,2,4-Trichlorobenzene	Ave	0.5730	0.5761		10.1	10.0	0.5	30.0
Hexachlorobutadiene	Ave	0.4512	0.4184		9.27	10.0	-7.3	30.0
Naphthalene	Ave	1.266	1.322		10.4	10.0	4.4	30.0
1,2,3-Trichlorobenzene	Ave	0.5014	0.5212		10.4	10.0	4.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Lab Sample ID: CCVIS 200-24579/2 Calibration Date: 08/31/2011 12:49

Instrument ID: B.i Calib Start Date: 07/28/2011 02:28

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/28/2011 11:12

Lab File ID: bkeu002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 201714

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.2889	0.3115		10.8	10.0	7.8	30.0
Dichlorodifluoromethane	Ave	2.067	2.353		11.4	10.0	13.8	30.0
Freon 22	Ave	0.8191	0.9171		11.2	10.0	12.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.897	1.938		10.2	10.0	2.1	30.0
Chloromethane	Ave	0.3428	0.3476		10.1	10.0	1.4	30.0
n-Butane	Ave	0.6098	0.5898		9.67	10.0	-3.3	30.0
Vinyl chloride	Ave	0.5102	0.5131		10.1	10.0	0.6	30.0
1,3-Butadiene	Ave	0.3503	0.3552		10.1	10.0	1.4	30.0
Bromomethane	Ave	0.8461	0.8140		9.62	10.0	-3.8	30.0
Chloroethane	Ave	0.3839	0.3669		9.55	10.0	-4.4	30.0
Isopentane	Ave	0.7550	0.6841		9.06	10.0	-9.4	30.0
Bromoethene(Vinyl Bromide)	Ave	1.091	1.091		10.0	10.0	-0.0	30.0
Trichlorofluoromethane	Ave	3.261	3.481		10.7	10.0	6.7	30.0
n-Pentane	Ave	1.254	1.190		9.48	10.0	-5.1	30.0
Ethanol	Ave	0.2603	0.2894		16.7	15.0	11.2	30.0
Ethyl ether	Ave	0.6413	0.6066		9.46	10.0	-5.4	30.0
Acrolein	Ave	0.3101	0.2738		8.83	10.0	-11.7	30.0
Freon TF	Ave	2.166	2.080		9.60	10.0	-4.0	30.0
1,1-Dichloroethene	Ave	0.9620	0.9246		9.61	10.0	-3.9	30.0
Acetone	Ave	1.174	1.163		9.90	10.0	-1.0	30.0
Carbon disulfide	Ave	2.697	2.527		9.37	10.0	-6.3	30.0
Isopropyl alcohol	Ave	0.8228	0.7620		9.26	10.0	-7.4	30.0
3-Chloropropene	Ave	0.8701	0.7713		8.86	10.0	-11.4	30.0
Acetonitrile	Ave	0.5075	0.4462		8.79	10.0	-12.1	30.0
Methylene Chloride	Ave	0.8389	0.7570		9.02	10.0	-9.8	30.0
tert-Butyl alcohol	Ave	1.420	1.389		9.78	10.0	-2.1	30.0
Methyl tert-butyl ether	Ave	2.736	2.747		10.0	10.0	0.4	30.0
trans-1,2-Dichloroethene	Ave	1.331	1.251		9.40	10.0	-6.0	30.0
Acrylonitrile	Ave	0.5451	0.4806		8.81	10.0	-11.8	30.0
n-Hexane	Ave	1.279	1.156		9.04	10.0	-9.6	30.0
1,1-Dichloroethane	Ave	1.682	1.524		9.06	10.0	-9.4	30.0
Vinyl acetate	Ave	1.808	1.606		8.88	10.0	-11.2	30.0
cis-1,2-Dichloroethene	Ave	1.058	1.010		9.54	10.0	-4.5	30.0
Methyl Ethyl Ketone	Ave	0.4415	0.4268		9.67	10.0	-3.3	30.0
Ethyl acetate	Ave	0.0874	0.0831		9.51	10.0	-4.9	30.0
Tetrahydrofuran	Ave	0.1567	0.1529		9.75	10.0	-2.5	30.0
Chloroform	Ave	2.304	2.268		9.84	10.0	-1.6	30.0
1,1,1-Trichloroethane	Ave	0.5312	0.5911		11.1	10.0	11.3	30.0
Cyclohexane	Ave	0.2790	0.2813		10.1	10.0	0.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Lab Sample ID: CCVIS 200-24579/2 Calibration Date: 08/31/2011 12:49

Instrument ID: B.i Calib Start Date: 07/28/2011 02:28

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/28/2011 11:12

Lab File ID: bkeu002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 201714

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.5613	0.6491		11.6	10.0	15.6	30.0
2,2,4-Trimethylpentane	Ave	0.7852	0.7799		9.93	10.0	-0.7	30.0
Benzene	Ave	0.6329	0.6016		9.50	10.0	-5.0	30.0
1,2-Dichloroethane	Ave	0.3044	0.3236		10.6	10.0	6.3	30.0
n-Heptane	Ave	0.2600	0.2561		9.85	10.0	-1.5	30.0
n-Butanol	Ave	0.0825	0.0775		9.39	10.0	-6.0	30.0
Trichloroethene	Ave	0.3085	0.3241		10.5	10.0	5.1	30.0
1,2-Dichloropropane	Ave	0.2061	0.1901		9.22	10.0	-7.8	30.0
Methyl methacrylate	Ave	0.1995	0.2108		10.6	10.0	5.6	30.0
Dibromomethane	Ave	0.2680	0.3122		11.6	10.0	16.5	30.0
1,4-Dioxane	Ave	0.0918	0.0943		10.3	10.0	2.7	30.0
Bromodichloromethane	Ave	0.5231	0.5597		10.7	10.0	7.0	30.0
cis-1,3-Dichloropropene	Ave	0.3379	0.3517		10.4	10.0	4.1	30.0
methyl isobutyl ketone	Ave	0.3349	0.3501		10.5	10.0	4.5	30.0
Toluene	Ave	0.5238	0.5283		10.1	10.0	0.9	30.0
n-Octane	Ave	0.3520	0.3542		10.1	10.0	0.6	30.0
trans-1,3-Dichloropropene	Ave	0.3708	0.4073		11.0	10.0	9.8	30.0
1,1,2-Trichloroethane	Ave	0.2523	0.2444		9.68	10.0	-3.1	30.0
Tetrachloroethene	Ave	0.4626	0.5211		11.3	10.0	12.7	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3526	0.3643		10.3	10.0	3.3	30.0
Dibromochloromethane	Ave	0.5763	0.6578		11.4	10.0	14.1	30.0
1,2-Dibromoethane	Ave	0.4963	0.5277		10.6	10.0	6.3	30.0
Chlorobenzene	Ave	0.7913	0.7638		9.65	10.0	-3.5	30.0
Ethylbenzene	Ave	1.180	1.194		10.1	10.0	1.2	30.0
n-Nonane	Ave	0.4284	0.4083		9.53	10.0	-4.7	30.0
m,p-Xylene	Ave	0.4766	0.5134		21.5	20.0	7.7	30.0
Xylene, o-	Ave	0.4424	0.4921		11.1	10.0	11.2	30.0
Styrene	Ave	0.6913	0.7633		11.0	10.0	10.4	30.0
Bromoform	Ave	0.5349	0.6459		12.1	10.0	20.7	30.0
Cumene	Ave	1.322	1.466		11.1	10.0	10.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6762	0.6334		9.36	10.0	-6.3	30.0
n-Propylbenzene	Ave	1.592	1.672		10.5	10.0	5.1	30.0
1,2,3-Trichloropropane	Ave	0.5013	0.5107		10.2	10.0	1.9	30.0
n-Decane	Ave	0.5324	0.5291		9.93	10.0	-0.6	30.0
4-Ethyltoluene	Ave	1.448	1.545		10.7	10.0	6.7	30.0
2-Chlorotoluene	Ave	1.329	1.360		10.2	10.0	2.3	30.0
1,3,5-Trimethylbenzene	Ave	1.202	1.292		10.7	10.0	7.5	30.0
Alpha Methyl Styrene	Ave	0.5648	0.6710		11.9	10.0	18.8	30.0
tert-Butylbenzene	Ave	1.119	1.260		11.3	10.0	12.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Lab Sample ID: CCVIS 200-24579/2 Calibration Date: 08/31/2011 12:49

Instrument ID: B.i Calib Start Date: 07/28/2011 02:28

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/28/2011 11:12

Lab File ID: bkeu002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 201714

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trimethylbenzene	Ave	1.168	1.274		10.9	10.0	9.1	30.0
sec-Butylbenzene	Ave	1.656	1.801		10.9	10.0	8.8	30.0
4-Isopropyltoluene	Ave	1.413	1.613		11.4	10.0	14.2	30.0
1,3-Dichlorobenzene	Ave	0.8548	0.9382		11.0	10.0	9.7	30.0
1,4-Dichlorobenzene	Ave	0.8441	0.9409		11.1	10.0	11.5	30.0
Benzyl chloride	Ave	1.032	1.115		10.8	10.0	8.1	30.0
n-Undecane	Ave	0.5441	0.5614		10.3	10.0	3.2	30.0
n-Butylbenzene	Ave	1.283	1.349		10.5	10.0	5.2	30.0
1,2-Dichlorobenzene	Ave	0.8091	0.8869		11.0	10.0	9.6	30.0
n-Dodecane	Ave	0.4807	0.3693		7.68	10.0	-23.2	30.0
1,2,4-Trichlorobenzene	Ave	0.5730	0.6604		11.5	10.0	15.2	30.0
Hexachlorobutadiene	Ave	0.4512	0.5277		11.7	10.0	17.0	30.0
Naphthalene	Ave	1.266	1.378		10.9	10.0	8.8	30.0
1,2,3-Trichlorobenzene	Ave	0.5014	0.5562		11.1	10.0	10.9	30.0

GC/MS INSTRUMENT RUN LOG

Sequence			Standard Traceability	Instrument Information
Batch ID: BKE	Start Date: 7/27/11	Time: 2209	ISTD Lot #: 84580	Instrument ID: B
Test Method: T015	End Date: 7/28/11	Time: 2209	CAL STD Lot # see comments	Instrument: 5973
ICAL Date: 7/27/11	TALS # 22552 (8888)		ICV / LCS Lot # see comments	Column Type: RTX-624

	Manager	Analyst	Analyst	Analyst	Analyst
Name/Initial	MTP Mark Phillips	Paul Daigle			
Signature	Mark Phillips	Pal O-J PAD			

Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
	Sequence Information							Individual Sample Review			
2209	BKE 001	N/A	BFB	N/A	—	—	PAD	N/A	✓	PAD	
2257	002	4632	VIBLK		1	200		✓	✓		
2350	003	4261	N/A		2			N/A	↑		177636
0043	004	3649			3				↑		177591
0135	005	3197			4				↑		176603
0228	006	3308	ICIS-04		5				✓		163189
0320	007	3413	IC-05		6				✓		158419
0413	008	3382	-06		7				✓		158408
0506	009	3639	-07		8				✓		158370
0558	010	4632	N/A		1			✓	✓		
0650	011				1			✓	✓		
0743	012	5032			9			✓	✓		159345
0835	013	4632			1			✓	✓		
0927	014	4837	IC-01		10			N/A	✓		158785
1020	015	2571	-02		11				✓		158782
1112	016	3544	-03		12				✓		158463
1205	017	4632	VIBLK		1			✓	✓		
1256	018		VIBLK		1			✓	✓		
1349	019	5032	N/A		9			✓	↑		159345
1441	020		ICV		9			✓	✓		159345 AG

PAD 7/28/11

Legend: C=Complete ▪ R=Reanalyze ▪ ↑ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

GC/MS INSTRUMENT RUN LOG

TALS BATCH 24579

Sequence			Standard Traceability	Instrument Information
Batch ID: BKEU	Start Date: 8/31/11	Time: 1158	ISTD Lot #: 84580	Instrument ID: B
Test Method: TO15	End Date: 9/01/11	Time: 1158	CAL STD Lot # 201714	Instrument: 5973
ICAL Date: 7/27/11			ICV / LCS Lot # 194689	Column Type: RTX-624

	Manager	Analyst	Analyst	Analyst	Analyst
Name/Initial					
Signature					

Sequence Information								Individual Sample Review			
Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
1158	BKEU001	N/A	BFB	N/A			PAD	N/A	✓	PAD	
1249	002	3535	CCVIS		1	200			✓		AG
1340	003	2518	LCS		2	200		✓	✓		ok A1174
1429	004	4635	MB		3	200		✓	✓	KLP	
1519	005	4014	6768-01	1	4	200		✓	✓		C
1611	006	4923	-02	15.4	5	13		✓	✓		↑ HCS C
1704	007	3029	-03	20	6	10		✓	✓		↑ HCS C
1756	008	2615	-04	1	7	200		✓	✓		C
1849	009	5104	6758-01	1	8	200		✓	✓		C
1941	010	4183	-02	2	9	~~100~~ 173		✓	↑ ✓		cdf 1.73, ~~8~~ mapR 54
2033	011	2631	-03	1	10	200		✓	✓		C
2125	012	4127	-04	1	11	200		✓	✓		C
2218	013	3034	6751-01	1	12	200		✓	✓		C
2310	014	4453	-02	3.39	13	59		✓	✓		C
0002	015	5112	-03	3.57	14	56		✓	✓		C
0054	016	4016	-04	1	15	200		✓	✓		C
0147	017	4221	-05	3.23	16	62		✓	✓		C
0239	018	4071	-06	2	1	100		✓	✓		C
0331	019	4910	-07	2.86	2	70		✓	✓		C
0424	020	Aerosol	660-43126-1	100	3	100		↑	✓		df 50 RA
0516	021	2899	6717-06	5	4	40		✓	✓		C
0608	022	3560	6741-01	1	5	200		✓	✓		C
0701	023	3001	-02	1.57	6	200		✓	✓		cdf 1.57 C
0851	024	5031	-03	1	7	200		✓	✓		C
0943	025	aerosol	660-43126-1	100	3	100		✓	✓		df 50 KLP 09/01/11 C
1035	026	4153	6758-2	4.61	9	75		✓	✓		cdf 1.73 C
1135	027	3316	6660-11	0.2	10	1000	WRD	✓	✓	KLP	C

Legend: C=Complete ▪ R=Reanalyze ▪ ↑ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Instrument ID: B.i Start Date: 07/27/2011 22:09

Analysis Batch Number: 22552 End Date: 07/28/2011 14:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-22552/1		07/27/2011 22:09	1	bke001.d	RTX-624 0.32(mm)
VIBLK 200-22552/2		07/27/2011 22:57	1		RTX-624 0.32(mm)
ZZZZZ		07/27/2011 23:50	1		RTX-624 0.32(mm)
ZZZZZ		07/28/2011 00:43	1		RTX-624 0.32(mm)
ZZZZZ		07/28/2011 01:35	1		RTX-624 0.32(mm)
ICIS 200-22552/6		07/28/2011 02:28	1	bke006.d	RTX-624 0.32(mm)
IC 200-22552/7		07/28/2011 03:20	1	bke007.d	RTX-624 0.32(mm)
IC 200-22552/8		07/28/2011 04:13	1	bke008.d	RTX-624 0.32(mm)
IC 200-22552/9		07/28/2011 05:06	1	bke009.d	RTX-624 0.32(mm)
ZZZZZ		07/28/2011 05:58	1		RTX-624 0.32(mm)
ZZZZZ		07/28/2011 06:50	1		RTX-624 0.32(mm)
ZZZZZ		07/28/2011 07:43	1		RTX-624 0.32(mm)
ZZZZZ		07/28/2011 08:35	1		RTX-624 0.32(mm)
IC 200-22552/14		07/28/2011 09:27	1	bke014.d	RTX-624 0.32(mm)
IC 200-22552/15		07/28/2011 10:20	1	bke015.d	RTX-624 0.32(mm)
IC 200-22552/16		07/28/2011 11:12	1	bke016.d	RTX-624 0.32(mm)
VIBLK 200-22552/17		07/28/2011 12:05	1		RTX-624 0.32(mm)
VIBLK 200-22552/18		07/28/2011 12:56	1		RTX-624 0.32(mm)
ZZZZZ		07/28/2011 13:49	1		RTX-624 0.32(mm)
ICV 200-22552/20		07/28/2011 14:41	1	bke020.d	RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-6660-1

SDG No.:

Instrument ID: B.i Start Date: 08/31/2011 11:58

Analysis Batch Number: 24579 End Date: 09/01/2011 11:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-24579/1		08/31/2011 11:58	1	bkeu001.d	RTX-624 0.32(mm)
CCVIS 200-24579/2		08/31/2011 12:49	1	bkeu002.d	RTX-624 0.32(mm)
LCS 200-24579/3		08/31/2011 13:40	1	bkeu003.d	RTX-624 0.32(mm)
MB 200-24579/4		08/31/2011 14:29	1	bkeu004.d	RTX-624 0.32(mm)
ZZZZZ		08/31/2011 15:19	1		RTX-624 0.32(mm)
ZZZZZ		08/31/2011 16:11	15.4		RTX-624 0.32(mm)
ZZZZZ		08/31/2011 17:04	20		RTX-624 0.32(mm)
ZZZZZ		08/31/2011 17:56	1		RTX-624 0.32(mm)
ZZZZZ		08/31/2011 18:49	1		RTX-624 0.32(mm)
ZZZZZ		08/31/2011 19:41	2		RTX-624 0.32(mm)
ZZZZZ		08/31/2011 20:33	1		RTX-624 0.32(mm)
ZZZZZ		08/31/2011 21:25	1		RTX-624 0.32(mm)
ZZZZZ		08/31/2011 22:18	1		RTX-624 0.32(mm)
ZZZZZ		08/31/2011 23:10	3.39		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 00:02	3.57		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 00:54	1		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 01:47	3.23		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 02:39	2		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 03:31	2.86		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 04:24	100		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 05:16	5		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 06:08	1		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 07:01	1.57		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 08:51	1		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 09:43	100		RTX-624 0.32(mm)
ZZZZZ		09/01/2011 10:35	4.61		RTX-624 0.32(mm)
200-6660-11	3316	09/01/2011 11:35	0.2	bkeu027.d	RTX-624 0.32(mm)

TO-15

Shipping and Receiving Documents

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information
Company: Roux Associates
Address: 209 Shafter St.
City/State/Zip Islandia, NY 11749
Phone: 631 232 2600
FAX:

Project Manager: Josh Levine
Phone: 631 232 2600
Email: jlevine@rouxinc.com
Site Contact: E. Livingstone
TA Contact: Sara Goff

Project Name: Devon Self Storage
Site: Staten Island, NY
~~PO#~~ Project #2077.0001Y000

Analysis Turnaround Time
Standard (Specify) ✓
Rush (Specify)

Samples Collected By: EL

1 of 2 COCs

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
AMB-090911	9/9/11	1427	1633	-31	-5	3132	2556	X							X				
SV-1		1435	1735	-30	-5.5	2617	2708	X									X		
SV-2		1445	1733	-32	-4	4034	2781	X									X		
SV-4		1510	1733	-31	-5	4991	3230	X									X		
SV-3		1519	1734	-31	-5	4043	2988	X									X		
SV-5		1529	1734	-30	-4	4496	3208	X									X		

Temperature (Fahrenheit)

	Interior	Ambient
Start		83°F
Stop		

Pressure (inches of Hg)

	Interior	Ambient
Start		29.79in
Stop		

Special Instructions/QC Requirements & Comments:

Samples Shipped by: E. Livingstone	Date/Time: 9/9/11 1830	Samples Received by: TMBUR 09/12/11 0920
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information
Company: Roux Associates
Address: 209 Shafter St.
City/State/Zip: Islandia, NY 11749
Phone: 631 232 2600
FAX:
Project Name: Devon Self Storage
Site: Staten Island, NY
~~PO#~~ Project # 2017.0001Y000

Project Manager: Josh Levine
Phone: 631 232 2600
Email: jlevine@rouxinc.com
Site Contact: E. Livingstone
TA Contact: Sara Groff

Analysis Turnaround Time
Standard (Specify) ✓
~~Rush~~ (Specify)

Samples Collected By: E. Livingstone

2 of 2 COCs

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SV-6	9/9/11	1535	1823	-32	-7	2817	3533	X									X		
VOID	9/9/11	—	—	—	—	3788	3625	Flow controller BROKEN											
unused	—	—	—	—	—	4259	3609	Unused equipment											

Temperature (Fahrenheit)	Interior	Ambient
Start		83°F
Stop		

Pressure (inches of Hg)	Interior	Ambient
Start		29.79 in
Stop		

Special Instructions/QC Requirements & Comments:
2 canisters not sampled; (1) didn't work, bad seal, hissed
(2) unused

Samples Shipped by: E. Livingstone	Date/Time: 9/9/11 1830	Samples Received by: TA BUR 09/12/11 09:20
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 200-6944-1

Login Number: 6944

List Source: TestAmerica Burlington

List Number: 1

Creator: Matot, Wade M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	168661, 662, 663, 664, 665, 666
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	Ambient
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

fedex.com 1.800.GoFedEx 1.800.463.3339

FedEx Express US Airbill

FedEx Tracking Number 8750 3982 6984

0200 Form ID No.

FedEx Retrieval Copy

From

Date 7/4/11 Sender's FedEx Account Number 1068-05407

Sender's Name [illegible] Phone 631 732-7600

Company [illegible]

Address [illegible] Dept./Floor/Suite/Room

City [illegible] State NY ZIP 11749

2 Your Internal Billing Reference

3 To

Recipient's Name [illegible] Phone 212 660-4490

Company [illegible]

Address [illegible] Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address
Use this line for the HOLD location address or for continuation of your shipping address

City [illegible] State VT ZIP 05403

01 ☐ HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

01 ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☒ FedEx Standard Overnight — *Next business afternoon.* Saturday Delivery NOT available.

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.*

03 ☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

70 ☐ FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.

80 ☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* — Includes FedEx Small Pak and FedEx Large Pak. 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☐ Other

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☒ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?
One box must be checked.

☒ No 04 ☐ Yes — As per attached Shipper's Declaration ☐ Yes — Shipper's Declaration not required. 06 ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☒ Sender — Acct. No. in Section 1 will be billed 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages 2 Total Weight ____ lbs. Credit Card Auth

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

606

8750 3982 6984

fedex.com 1.800.GoFedEx 1.800.463.3339

New Jersey
ACCUTEST LABORATORIES

Reissue #1
10/10/11

Technical Report for

Roux Associates

Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY

2077.0001Y000

Accutest Job Number: JA85619

Sampling Date: 09/08/11

Report to:

Roux Associates

jlevine@rouxinc.com

ATTN: Josh Levine

Total number of pages in report: **58**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP, Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

ACCUTEST
LABORATORIES

September 28, 2011

Mr. Josh Levine
209 Shafter Street
Islandia, NY 11749

RE: Accutest Job # JA85619

Dear Mr. Levine:

The final report for Accutest job number JA85619 has been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, the identification number for B-14/MW-2/7-8' has been corrected per your request dated on September 21, 2011.

Accutest apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Kristin M. Beebe
Project Manager

Accutest Laboratories

Table of Contents

-1-

Section 1: Sample Summary **4**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Sample Results **9**
3.1: JA85619-1: B-15/7-9' 10
3.2: JA85619-2: B-14/MW-2/7-8' 18
3.3: JA85619-3: B-17/MW-3/4-5 26
3.4: JA85619-4: FB090811 34
3.5: JA85619-5: TRIP BLANK 42
3.6: JA85619-6: B-16/MW-1/5-7' 44
Section 4: Misc. Forms **52**
4.1: Chain of Custody 53

Sample Summary

Roux Associates

Job No: JA85619

Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY
Project No: 2077.0001Y000

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA85619-1	09/08/11	10:15	EL	09/08/11	SO	Soil	B-15/7-9'
JA85619-2	09/08/11	10:40	EL	09/08/11	SO	Soil	B-14/MW-2/7-8'
JA85619-3	09/08/11	11:15	EL	09/08/11	SO	Soil	B-17/MW-3/4-5
JA85619-4	09/08/11	13:00	EL	09/08/11	AQ	Field Blank Soil	FB090811
JA85619-5	09/08/11	14:45	EL	09/08/11	AQ	Trip Blank Soil	TRIP BLANK
JA85619-6	09/08/11	14:45	EL	09/08/11	SO	Soil	B-16/MW-1/5-7'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Roux Associates	**Job No**	JA85619
Site:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY	**Report Date**	9/26/2011 12:02:35 P

On 09/08/2011, 4 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 2 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA85619 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V3A4170

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85487-7MS, JA85487-8DUP were used as the QC samples indicated.

Matrix: SO **Batch ID:** VG6633

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA85619-1MS, JA85619-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Acetone are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Methyl Acetate are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, Methyl Acetate, 1,2,4-Trichlorobenzene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Chlorobenzene, cis-1,3-Dichloropropene, Ethylbenzene, m,p-Xylene, Styrene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene are outside control limits for sample JA85619-1MSD. Outside control limits due to matrix interference.

Matrix: SO **Batch ID:** VV5092

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA85619-3MS, JA85619-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** VV5099

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA85619-2MS, JA85619-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP51811

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85653-1MS, JA85653-1MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP51818

- All samples were extracted within the recommended method holding time.
- Sample(s) JA85548-1MS, JA85548-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081B

Matrix: AQ **Batch ID:** OP51812

- All samples were extracted within the recommended method holding time.
- Sample(s) JA85644-4AMS, JA85644-4AMSD, OP51812-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** OP51801

- All samples were extracted within the recommended method holding time.
- Sample(s) JA85344-2MS, JA85344-2MSD, OP51801-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JA85619-3 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JA85619-3 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JA85619-6 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JA85619-6 for 4,4'-DDT: Reported from 1st signal. %D of check on 2nd signal excess method criteria (20 %) so using for confirmation only.
- JA85619-1 for 4,4'-DDT: Reported from 1st signal. %D of check on 2nd signal excess method criteria (20 %) so using for confirmation only.

Extractables by GC By Method SW846 8082A

Matrix: AQ **Batch ID:** OP51813

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85644-5AMS, JA85644-5AMSD, OP51813-MSMSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP51802

- All samples were extracted within the recommended method holding time.
- Sample(s) JA85344-4MS, JA85344-4MSD, OP51802-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ	**Batch ID:** MP60249

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85733-2MS, JA85733-2MSD, JA85733-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Chromium, Nickel, Thallium, Vanadium, Zinc are outside control limits for sample MP60249-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO	**Batch ID:** MP60259

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85097-2RMS, JA85097-2RMSD, JA85097-2RSDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony, Copper, Iron, Lead, Magnesium, Potassium, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Calcium, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Copper, Zinc are outside control limits for sample MP60259-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Beryllium, Cadmium, Sodium, Thallium are outside control limits for sample MP60259-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- RPD(s) for Serial Dilution for Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Potassium, Vanadium, Zinc are outside control limits for sample MP60259-SD1. Serial dilution indicates possible matrix interference.
- JA85619-1 for Zinc: Elevated detection limit due to dilution required for high interfering element.
- JA85619-1 for Manganese: Elevated detection limit due to dilution required for high interfering element.
- JA85619-1 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JA85619-1 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JA85619-1 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JA85619-1 for Selenium: Elevated detection limit due to dilution required for high interfering element.

Metals By Method SW846 7470A

Matrix: AQ	**Batch ID:** MP60235

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 7471B

Matrix: SO	**Batch ID:** MP60277

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85548-1MS, JA85548-1MSD were used as the QC samples for metals.

Wet Chemistry By Method SM18 2540G

Matrix: SO	**Batch ID:** GN55651

- The data for SM18 2540G meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	B-15/7-9'		
Lab Sample ID:	JA85619-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	86.7
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G141716.D	1	09/10/11	SJM	n/a	n/a	VG6633
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	7.3	ug/kg	
71-43-2	Benzene	0.96	1.1	0.15	ug/kg	J
74-97-5	Bromochloromethane	ND	5.5	0.58	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	0.25	ug/kg	
75-25-2	Bromoform	ND	5.5	0.84	ug/kg	
74-83-9	Bromomethane	ND	5.5	0.44	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	4.8	ug/kg	
75-15-0	Carbon disulfide	5.4	5.5	0.22	ug/kg	J
56-23-5	Carbon tetrachloride	ND	5.5	0.38	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	0.36	ug/kg	
75-00-3	Chloroethane	ND	5.5	0.45	ug/kg	
67-66-3	Chloroform	2.6	5.5	0.54	ug/kg	J
74-87-3	Chloromethane	ND	5.5	0.69	ug/kg	
110-82-7	Cyclohexane	ND	5.5	0.42	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.26	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.5	0.31	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.5	0.21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.5	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.5	0.36	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	0.24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.5	0.68	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.5	0.36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.5	0.47	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	0.30	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	0.37	ug/kg	
123-91-1	1,4-Dioxane	ND	140	65	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.16	ug/kg	
76-13-1	Freon 113	ND	5.5	0.80	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-15/7-9'		
Lab Sample ID:	JA85619-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	86.7
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.5	2.8	ug/kg	
98-82-8	Isopropylbenzene	ND	5.5	0.15	ug/kg	
79-20-9	Methyl Acetate	ND	5.5	2.5	ug/kg	
108-87-2	Methylcyclohexane	ND	5.5	0.27	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.20	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	2.9	ug/kg	
75-09-2	Methylene chloride	ND	5.5	0.26	ug/kg	
100-42-5	Styrene	ND	5.5	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	5.5	0.21	ug/kg	
108-88-3	Toluene	ND	1.1	0.42	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.5	0.49	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	0.38	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	0.27	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	0.48	ug/kg	
79-01-6	Trichloroethene	2.8	5.5	0.27	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	5.5	0.53	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	0.51	ug/kg	
	m,p-Xylene	ND	1.1	0.35	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	69%		67-131%
17060-07-0	1,2-Dichloroethane-D4	86%		66-130%
2037-26-5	Toluene-D8	104%		76-125%
460-00-4	4-Bromofluorobenzene	110%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-15/7-9'		
Lab Sample ID:	JA85619-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	86.7
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M38681.D	1	09/19/11	OYA	09/12/11	OP51818	E2M1684
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	53	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	55	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	660	40	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	660	40	ug/kg	
95-48-7	2-Methylphenol	ND	66	38	ug/kg	
	3&4-Methylphenol	ND	66	42	ug/kg	
88-75-5	2-Nitrophenol	ND	160	35	ug/kg	
100-02-7	4-Nitrophenol	ND	330	56	ug/kg	
87-86-5	Pentachlorophenol	ND	330	56	ug/kg	
108-95-2	Phenol	ND	66	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	34	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	31	ug/kg	
83-32-9	Acenaphthene	75.1	33	9.6	ug/kg	
208-96-8	Acenaphthylene	260	33	11	ug/kg	
98-86-2	Acetophenone	ND	160	5.8	ug/kg	
120-12-7	Anthracene	300	33	12	ug/kg	
1912-24-9	Atrazine	ND	160	6.5	ug/kg	
56-55-3	Benzo(a)anthracene	1100	33	11	ug/kg	
50-32-8	Benzo(a)pyrene	1240	33	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	947	33	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1150	33	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	762	33	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	66	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	66	19	ug/kg	
92-52-4	1,1'-Biphenyl	13.8	66	3.8	ug/kg	J
100-52-7	Benzaldehyde	ND	160	7.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	66	10	ug/kg	
106-47-8	4-Chloroaniline	ND	160	11	ug/kg	
86-74-8	Carbazole	107	66	15	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-15/7-9'		
Lab Sample ID:	JA85619-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	86.7
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	66	10	ug/kg	
218-01-9	Chrysene	1100	33	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	66	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	66	9.9	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	66	9.8	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	66	9.9	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	66	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	66	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	160	8.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	404	33	11	ug/kg	
132-64-9	Dibenzofuran	59.9	66	9.8	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	66	7.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	66	16	ug/kg	
84-66-2	Diethyl phthalate	ND	66	11	ug/kg	
131-11-3	Dimethyl phthalate	37.1	66	12	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	75.5	66	29	ug/kg	
206-44-0	Fluoranthene	1990	33	15	ug/kg	
86-73-7	Fluorene	91.5	33	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	66	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	9.2	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	660	34	ug/kg	
67-72-1	Hexachloroethane	ND	160	9.2	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	941	33	11	ug/kg	
78-59-1	Isophorone	ND	66	8.9	ug/kg	
91-57-6	2-Methylnaphthalene	84.2	66	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	13	ug/kg	
91-20-3	Naphthalene	113	33	9.0	ug/kg	
98-95-3	Nitrobenzene	ND	66	9.5	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	66	8.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	20	ug/kg	
85-01-8	Phenanthrene	1230	33	15	ug/kg	
129-00-0	Pyrene	2090	33	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	83%		21-116%
4165-62-2	Phenol-d5	79%		19-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-15/7-9'		
Lab Sample ID:	JA85619-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	86.7
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	90%		24-136%
4165-60-0	Nitrobenzene-d5	81%		21-122%
321-60-8	2-Fluorobiphenyl	86%		30-117%
1718-51-0	Terphenyl-d14	109%		31-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-15/7-9'		
Lab Sample ID:	JA85619-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8081B SW846 3545A	**Percent Solids:**	86.7
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G67091.D	1	09/22/11	CT	09/12/11	OP51801	G1G2445
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.34	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.51	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.48	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.40	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.31	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.68	0.44	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.68	0.35	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.53	ug/kg	
72-54-8	4,4'-DDD	ND	0.68	0.35	ug/kg	
72-55-9	4,4'-DDE	ND	0.68	0.40	ug/kg	
50-29-3	4,4'-DDT [a]	14.4	0.68	0.50	ug/kg	
72-20-8	Endrin	ND	0.68	0.35	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.61	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.64	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.33	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.45	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.42	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.33	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.48	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.44	ug/kg	
8001-35-2	Toxaphene	ND	17	8.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		23-137%
877-09-8	Tetrachloro-m-xylene	123%		23-137%
2051-24-3	Decachlorobiphenyl	97%		22-160%
2051-24-3	Decachlorobiphenyl	100%		22-160%

(a) Reported from 1st signal. %D of check on 2nd signal excess method criteria (20 %) so using for confirmation only.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-15/7-9'		
Lab Sample ID:	JA85619-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	86.7
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G58783.D	1	09/21/11	AZ	09/12/11	OP51802	G2G2172
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.8	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	10	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		22-141%
877-09-8	Tetrachloro-m-xylene	89%		22-141%
2051-24-3	Decachlorobiphenyl	65%		18-163%
2051-24-3	Decachlorobiphenyl	85%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-15/7-9'		
Lab Sample ID:	JA85619-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
		Percent Solids:	86.7
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2550	58	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Antimony	< 2.3	2.3	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	10.8	2.3	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Barium	43.4	23	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	< 0.23	0.23	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.58	0.58	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Calcium	55500	1200	mg/kg	2	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Chromium	13.8	1.2	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	< 5.8	5.8	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Copper	38.8	2.9	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Iron	53100	120	mg/kg	2	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Lead [a]	69.3	4.6	mg/kg	2	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Magnesium	29200	580	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	362	3.5	mg/kg	2	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Mercury	2.3	0.19	mg/kg	5	09/19/11	09/19/11	JW	SW846 7471B [1]	SW846 7471B [5]
Nickel	14.9	4.6	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Potassium	< 1200	1200	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Selenium [a]	< 4.6	4.6	mg/kg	2	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Silver [a]	< 1.2	1.2	mg/kg	2	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Sodium	< 1200	1200	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Thallium [a]	< 2.3	2.3	mg/kg	2	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Vanadium	13.1	5.8	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Zinc [a]	109	4.6	mg/kg	2	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA27107
(2) Instrument QC Batch: MA27112
(3) Instrument QC Batch: MA27114
(4) Prep QC Batch: MP60259
(5) Prep QC Batch: MP60277

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-14/MW-2/7-8'		
Lab Sample ID:	JA85619-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	83.2
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V119494.D	1	09/16/11	CL	n/a	n/a	VV5099
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	20.3	13	8.8	ug/kg	
71-43-2	Benzene	ND	1.3	0.18	ug/kg	
74-97-5	Bromochloromethane	ND	6.7	0.69	ug/kg	
75-27-4	Bromodichloromethane	ND	6.7	0.30	ug/kg	
75-25-2	Bromoform	ND	6.7	1.0	ug/kg	
74-83-9	Bromomethane	ND	6.7	0.53	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	5.8	ug/kg	
75-15-0	Carbon disulfide	1.2	6.7	0.26	ug/kg	J
56-23-5	Carbon tetrachloride	ND	6.7	0.46	ug/kg	
108-90-7	Chlorobenzene	ND	6.7	0.43	ug/kg	
75-00-3	Chloroethane	ND	6.7	0.54	ug/kg	
67-66-3	Chloroform	ND	6.7	0.65	ug/kg	
74-87-3	Chloromethane	ND	6.7	0.83	ug/kg	
110-82-7	Cyclohexane	ND	6.7	0.51	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	6.7	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.7	0.37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.7	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.7	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.7	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.7	0.29	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.24	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.7	0.82	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.7	0.43	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.7	0.57	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.7	0.36	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.7	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.7	0.45	ug/kg	
123-91-1	1,4-Dioxane	ND	170	78	ug/kg	
100-41-4	Ethylbenzene	0.35	1.3	0.20	ug/kg	J
76-13-1	Freon 113	ND	6.7	0.96	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-14/MW-2/7-8'		
Lab Sample ID:	JA85619-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	83.2
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.7	3.3	ug/kg	
98-82-8	Isopropylbenzene	ND	6.7	0.18	ug/kg	
79-20-9	Methyl Acetate	ND	6.7	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	6.7	0.33	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.7	3.5	ug/kg	
75-09-2	Methylene chloride	ND	6.7	0.31	ug/kg	
100-42-5	Styrene	ND	6.7	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.7	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	6.7	0.26	ug/kg	
108-88-3	Toluene	ND	1.3	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	0.58	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	0.46	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.7	0.32	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.7	0.58	ug/kg	
79-01-6	Trichloroethene	ND	6.7	0.33	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.7	0.64	ug/kg	
75-01-4	Vinyl chloride	ND	6.7	0.62	ug/kg	
	m,p-Xylene	1.3	1.3	0.42	ug/kg	
95-47-6	o-Xylene	0.55	1.3	0.25	ug/kg	J
1330-20-7	Xylene (total)	1.9	1.3	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		67-131%
17060-07-0	1,2-Dichloroethane-D4	98%		66-130%
2037-26-5	Toluene-D8	108%		76-125%
460-00-4	4-Bromofluorobenzene	97%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-14/MW-2/7-8'		
Lab Sample ID:	JA85619-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.2
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M38676.D	1	09/19/11	OYA	09/12/11	OP51818	E2M1684
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	35	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	58	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	42	ug/kg	
95-48-7	2-Methylphenol	ND	69	39	ug/kg	
	3&4-Methylphenol	ND	69	44	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	58	ug/kg	
87-86-5	Pentachlorophenol	ND	340	59	ug/kg	
108-95-2	Phenol	ND	69	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	10	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.0	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.8	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	69	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	69	16	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-14/MW-2/7-8'		
Lab Sample ID:	JA85619-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.2
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	69	11	ug/kg	
218-01-9	Chrysene	ND	34	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	12	ug/kg	
132-64-9	Dibenzofuran	ND	69	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	7.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	17	ug/kg	
84-66-2	Diethyl phthalate	ND	69	12	ug/kg	
131-11-3	Dimethyl phthalate	67.0	69	12	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	ND	69	30	ug/kg	
206-44-0	Fluoranthene	17.5	34	15	ug/kg	J
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.5	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	690	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.5	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	12	ug/kg	
78-59-1	Isophorone	ND	69	9.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	34	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	69	9.9	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	8.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	21	ug/kg	
85-01-8	Phenanthrene	ND	34	16	ug/kg	
129-00-0	Pyrene	15.7	34	13	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	86%		21-116%
4165-62-2	Phenol-d5	73%		19-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-14/MW-2/7-8'		
Lab Sample ID:	JA85619-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.2
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	104%		24-136%
4165-60-0	Nitrobenzene-d5	85%		21-122%
321-60-8	2-Fluorobiphenyl	73%		30-117%
1718-51-0	Terphenyl-d14	96%		31-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-14/MW-2/7-8'		
Lab Sample ID:	JA85619-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8081B SW846 3545A	**Percent Solids:**	83.2
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G67096.D	1	09/22/11	CT	09/12/11	OP51801	G1G2445
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.71	0.35	ug/kg	
319-84-6	alpha-BHC	ND	0.71	0.53	ug/kg	
319-85-7	beta-BHC	ND	0.71	0.50	ug/kg	
319-86-8	delta-BHC	ND	0.71	0.41	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.71	0.32	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.71	0.46	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.71	0.36	ug/kg	
60-57-1	Dieldrin	ND	0.71	0.55	ug/kg	
72-54-8	4,4'-DDD	ND	0.71	0.36	ug/kg	
72-55-9	4,4'-DDE	ND	0.71	0.42	ug/kg	
50-29-3	4,4'-DDT	ND	0.71	0.52	ug/kg	
72-20-8	Endrin	ND	0.71	0.36	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.71	0.64	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.71	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	0.71	0.34	ug/kg	
33213-65-9	Endosulfan-II	ND	0.71	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.71	0.43	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.71	0.35	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.50	ug/kg	
53494-70-5	Endrin ketone	ND	0.71	0.46	ug/kg	
8001-35-2	Toxaphene	ND	18	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	26%		23-137%
877-09-8	Tetrachloro-m-xylene	26%		23-137%
2051-24-3	Decachlorobiphenyl	30%		22-160%
2051-24-3	Decachlorobiphenyl	33%		22-160%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-14/MW-2/7-8'		
Lab Sample ID:	JA85619-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	83.2
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G58784.D	1	09/21/11	AZ	09/12/11	OP51802	G2G2172
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	ND	35	12	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	24%		22-141%
877-09-8	Tetrachloro-m-xylene	26%		22-141%
2051-24-3	Decachlorobiphenyl	26%		18-163%
2051-24-3	Decachlorobiphenyl	34%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-14/MW-2/7-8'		
Lab Sample ID:	JA85619-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
		Percent Solids:	83.2
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8050	60	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Antimony	< 2.4	2.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	< 2.4	2.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Barium	55.9	24	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	0.35	0.24	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.60	0.60	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Calcium	624	600	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Chromium	12.2	1.2	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	< 6.0	6.0	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Copper	4.4	3.0	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Iron	11600	60	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Lead	10.0	2.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	1650	600	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Manganese	87.4	1.8	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Mercury	< 0.039	0.039	mg/kg	1	09/19/11	09/19/11	JW	SW846 7471B [1]	SW846 7471B [5]
Nickel	11.8	4.8	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Potassium	< 1200	1200	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Selenium	< 2.4	2.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.60	0.60	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Sodium	< 1200	1200	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Thallium	< 1.2	1.2	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	20.2	6.0	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Zinc	33.0	2.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA27107
(2) Instrument QC Batch: MA27112
(3) Instrument QC Batch: MA27114
(4) Prep QC Batch: MP60259
(5) Prep QC Batch: MP60277

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-17/MW-3/4-5		
Lab Sample ID:	JA85619-3	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	90.0
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V119333.D	1	09/12/11	CL	n/a	n/a	VV5092
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	7.4	ug/kg	
71-43-2	Benzene	ND	1.1	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	0.58	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	0.25	ug/kg	
75-25-2	Bromoform	ND	5.6	0.84	ug/kg	
74-83-9	Bromomethane	ND	5.6	0.44	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	4.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	0.22	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	0.38	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	0.36	ug/kg	
75-00-3	Chloroethane	ND	5.6	0.45	ug/kg	
67-66-3	Chloroform	ND	5.6	0.54	ug/kg	
74-87-3	Chloromethane	ND	5.6	0.69	ug/kg	
110-82-7	Cyclohexane	ND	5.6	0.42	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.26	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.31	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	0.36	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	0.24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.6	0.68	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.6	0.36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.6	0.47	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	0.30	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	0.37	ug/kg	
123-91-1	1,4-Dioxane	ND	140	65	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.16	ug/kg	
76-13-1	Freon 113	ND	5.6	0.80	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-17/MW-3/4-5		
Lab Sample ID:	JA85619-3	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	90.0
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.6	2.8	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	0.15	ug/kg	
79-20-9	Methyl Acetate	ND	5.6	2.5	ug/kg	
108-87-2	Methylcyclohexane	ND	5.6	0.27	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.20	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	2.9	ug/kg	
75-09-2	Methylene chloride	ND	5.6	0.26	ug/kg	
100-42-5	Styrene	ND	5.6	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	5.6	0.21	ug/kg	
108-88-3	Toluene	ND	1.1	0.42	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	0.49	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.38	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	0.27	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	0.48	ug/kg	
79-01-6	Trichloroethene	0.57	5.6	0.27	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	5.6	0.54	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	0.51	ug/kg	
	m,p-Xylene	ND	1.1	0.35	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		67-131%
17060-07-0	1,2-Dichloroethane-D4	103%		66-130%
2037-26-5	Toluene-D8	105%		76-125%
460-00-4	4-Bromofluorobenzene	93%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-17/MW-3/4-5		
Lab Sample ID:	JA85619-3	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.0
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M38682.D	1	09/19/11	OYA	09/12/11	OP51818	E2M1684
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	32	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	32	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	51	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	53	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	630	39	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	630	39	ug/kg	
95-48-7	2-Methylphenol	ND	63	36	ug/kg	
	3&4-Methylphenol	ND	63	40	ug/kg	
88-75-5	2-Nitrophenol	ND	160	34	ug/kg	
100-02-7	4-Nitrophenol	ND	320	54	ug/kg	
87-86-5	Pentachlorophenol	ND	320	54	ug/kg	
108-95-2	Phenol	ND	63	33	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	30	ug/kg	
83-32-9	Acenaphthene	37.6	32	9.2	ug/kg	
208-96-8	Acenaphthylene	73.6	32	10	ug/kg	
98-86-2	Acetophenone	ND	160	5.6	ug/kg	
120-12-7	Anthracene	133	32	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.3	ug/kg	
56-55-3	Benzo(a)anthracene	521	32	10	ug/kg	
50-32-8	Benzo(a)pyrene	488	32	9.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	612	32	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	389	32	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	203	32	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	63	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	63	18	ug/kg	
92-52-4	1,1'-Biphenyl	ND	63	3.7	ug/kg	
100-52-7	Benzaldehyde	ND	160	7.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	63	9.8	ug/kg	
106-47-8	4-Chloroaniline	ND	160	10	ug/kg	
86-74-8	Carbazole	44.7	63	15	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-17/MW-3/4-5		
Lab Sample ID:	JA85619-3	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.0
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	63	10	ug/kg	
218-01-9	Chrysene	508	32	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	63	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	63	9.6	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	63	9.4	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	63	9.6	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	63	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	63	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	160	8.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	164	32	11	ug/kg	
132-64-9	Dibenzofuran	17.0	63	9.4	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	63	7.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	63	15	ug/kg	
84-66-2	Diethyl phthalate	ND	63	11	ug/kg	
131-11-3	Dimethyl phthalate	49.5	63	11	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	112	63	28	ug/kg	
206-44-0	Fluoranthene	868	32	14	ug/kg	
86-73-7	Fluorene	37.0	32	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	63	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	32	8.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	630	32	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	345	32	11	ug/kg	
78-59-1	Isophorone	ND	63	8.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	63	18	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	13	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	18.4	32	8.7	ug/kg	J
98-95-3	Nitrobenzene	ND	63	9.2	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	63	7.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	401	32	14	ug/kg	
129-00-0	Pyrene	857	32	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	85%		21-116%
4165-62-2	Phenol-d5	74%		19-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-17/MW-3/4-5		
Lab Sample ID:	JA85619-3	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.0
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	105%		24-136%
4165-60-0	Nitrobenzene-d5	80%		21-122%
321-60-8	2-Fluorobiphenyl	79%		30-117%
1718-51-0	Terphenyl-d14	94%		31-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-17/MW-3/4-5		
Lab Sample ID:	JA85619-3	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8081B SW846 3545A	**Percent Solids:**	90.0
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G67092.D	1	09/22/11	CT	09/12/11	OP51801	G1G2445
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.65	0.33	ug/kg	
319-84-6	alpha-BHC	ND	0.65	0.49	ug/kg	
319-85-7	beta-BHC	ND	0.65	0.46	ug/kg	
319-86-8	delta-BHC	ND	0.65	0.38	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.65	0.30	ug/kg	
5103-71-9	alpha-Chlordane [a]	2.1	0.65	0.43	ug/kg	
5103-74-2	gamma-Chlordane [a]	2.8	0.65	0.33	ug/kg	
60-57-1	Dieldrin	ND	0.65	0.51	ug/kg	
72-54-8	4,4'-DDD	ND	0.65	0.33	ug/kg	
72-55-9	4,4'-DDE	1.7	0.65	0.39	ug/kg	
50-29-3	4,4'-DDT	13.8	0.65	0.48	ug/kg	
72-20-8	Endrin	ND	0.65	0.33	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.65	0.59	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.65	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	0.65	0.32	ug/kg	
33213-65-9	Endosulfan-II	ND	0.65	0.43	ug/kg	
76-44-8	Heptachlor	ND	0.65	0.40	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.65	0.32	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.46	ug/kg	
53494-70-5	Endrin ketone	ND	0.65	0.42	ug/kg	
8001-35-2	Toxaphene	ND	16	8.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	53%		23-137%
877-09-8	Tetrachloro-m-xylene	74%		23-137%
2051-24-3	Decachlorobiphenyl	104%		22-160%
2051-24-3	Decachlorobiphenyl	94%		22-160%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-17/MW-3/4-5		
Lab Sample ID:	JA85619-3	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	90.0
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G58785.D	1	09/21/11	AZ	09/12/11	OP51802	G2G2172
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	8.5	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	10	ug/kg	
12672-29-6	Aroclor 1248	ND	33	9.9	ug/kg	
11097-69-1	Aroclor 1254	ND	33	15	ug/kg	
11096-82-5	Aroclor 1260	ND	33	11	ug/kg	
11100-14-4	Aroclor 1268	266	33	9.6	ug/kg	
37324-23-5	Aroclor 1262	ND	33	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		22-141%
877-09-8	Tetrachloro-m-xylene	64%		22-141%
2051-24-3	Decachlorobiphenyl	61%		18-163%
2051-24-3	Decachlorobiphenyl	87%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-17/MW-3/4-5		
Lab Sample ID:	JA85619-3	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
		Percent Solids:	90.0
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4700	55	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Antimony	5.5	2.2	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	10.6	2.2	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Barium	441	22	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	0.38	0.22	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	1.2	0.55	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Calcium	49100	1100	mg/kg	2	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Chromium	20.7	1.1	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	6.2	5.5	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Copper	307	2.8	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Iron	31000	55	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Lead	541	2.2	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	24800	550	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Manganese	327	1.7	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Mercury	0.62	0.037	mg/kg	1	09/19/11	09/19/11	JW	SW846 7471B [1]	SW846 7471B [5]
Nickel	37.4	4.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Potassium	< 1100	1100	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Selenium	< 2.2	2.2	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.55	0.55	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Sodium	< 1100	1100	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	25.2	5.5	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Zinc	562	2.2	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA27107
(2) Instrument QC Batch: MA27112
(3) Instrument QC Batch: MA27114
(4) Prep QC Batch: MP60259
(5) Prep QC Batch: MP60277

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FB090811		
Lab Sample ID:	JA85619-4	**Date Sampled:**	09/08/11
Matrix:	AQ - Field Blank Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A97205.D	1	09/15/11	HSS	n/a	n/a	V3A4170
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	7.6	ug/l	
71-43-2	Benzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	4.0	0.24	ug/l	
74-83-9	Bromomethane	ND	2.0	0.31	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.19	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.21	ug/l	
74-87-3	Chloromethane	ND	1.0	0.22	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.29	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.22	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	72	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB090811		
Lab Sample ID:	JA85619-4	**Date Sampled:**	09/08/11
Matrix:	AQ - Field Blank Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	3.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
79-20-9	Methyl Acetate	ND	5.0	2.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.18	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.21	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.35	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.27	ug/l	
	m,p-Xylene	ND	1.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		77-120%
17060-07-0	1,2-Dichloroethane-D4	90%		70-127%
2037-26-5	Toluene-D8	92%		79-120%
460-00-4	4-Bromofluorobenzene	89%		76-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB090811		
Lab Sample ID:	JA85619-4	**Date Sampled:**	09/08/11
Matrix:	AQ - Field Blank Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M38620.D	1	09/16/11	OYA	09/12/11	OP51811	E2M1682
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.26	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.23	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
120-12-7	Anthracene	ND	1.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.46	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.32	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.51	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB090811		
Lab Sample ID:	JA85619-4	**Date Sampled:**	09/08/11
Matrix:	AQ - Field Blank Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
218-01-9	Chrysene	ND	1.0	0.29	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.36	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.38	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.32	ug/l	
86-73-7	Fluorene	ND	1.0	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.37	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	1.0	0.26	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.29	ug/l	
129-00-0	Pyrene	ND	1.0	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	12%		10-83%
4165-62-2	Phenol-d5	11%		10-74%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB090811		
Lab Sample ID:	JA85619-4	**Date Sampled:**	09/08/11
Matrix:	AQ - Field Blank Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	40%		24-148%
4165-60-0	Nitrobenzene-d5	79%		38-129%
321-60-8	2-Fluorobiphenyl	76%		42-117%
1718-51-0	Terphenyl-d14	74%		14-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB090811		
Lab Sample ID:	JA85619-4	**Date Sampled:**	09/08/11
Matrix:	AQ - Field Blank Soil	**Date Received:**	09/08/11
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G58575.D	1	09/22/11	TDR	09/12/11	OP51812	G3G2126
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0095	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0040	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0038	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0062	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0041	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0050	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0023	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0033	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0036	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0030	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0060	ug/l	
72-20-8	Endrin	ND	0.010	0.0064	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0064	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0029	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0041	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0030	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0028	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0084	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0038	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0082	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		26-145%
877-09-8	Tetrachloro-m-xylene	91%		26-145%
2051-24-3	Decachlorobiphenyl	54%		10-141%
2051-24-3	Decachlorobiphenyl	53%		10-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB090811		
Lab Sample ID:	JA85619-4	**Date Sampled:**	09/08/11
Matrix:	AQ - Field Blank Soil	**Date Received:**	09/08/11
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX111077.D	1	09/16/11	AZ	09/12/11	OP51813	GXX4164
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		27-144%
877-09-8	Tetrachloro-m-xylene	88%		27-144%
2051-24-3	Decachlorobiphenyl	49%		10-139%
2051-24-3	Decachlorobiphenyl	54%		10-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB090811		
Lab Sample ID:	JA85619-4	**Date Sampled:**	09/08/11
Matrix:	AQ - Field Blank Soil	**Date Received:**	09/08/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Arsenic	< 3.0	3.0	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Calcium	< 5000	5000	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Copper	< 10	10	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Iron	< 100	100	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Lead	< 3.0	3.0	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Magnesium	< 5000	5000	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Manganese	< 15	15	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/16/11	09/16/11	JW	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 10	10	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Sodium	< 10000	10000	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]
Zinc	35.3	20	ug/l	1	09/17/11	09/18/11	ND	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA27103
(2) Instrument QC Batch: MA27106
(3) Prep QC Batch: MP60235
(4) Prep QC Batch: MP60249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JA85619-5	**Date Sampled:**	09/08/11
Matrix:	AQ - Trip Blank Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A97206.D	1	09/15/11	HSS	n/a	n/a	V3A4170
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	7.6	ug/l	
71-43-2	Benzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	4.0	0.24	ug/l	
74-83-9	Bromomethane	ND	2.0	0.31	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.19	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.21	ug/l	
74-87-3	Chloromethane	ND	1.0	0.22	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.29	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.22	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	72	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JA85619-5	**Date Sampled:**	09/08/11
Matrix:	AQ - Trip Blank Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	3.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
79-20-9	Methyl Acetate	ND	5.0	2.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.18	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.21	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.35	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.27	ug/l	
	m,p-Xylene	ND	1.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		77-120%
17060-07-0	1,2-Dichloroethane-D4	92%		70-127%
2037-26-5	Toluene-D8	92%		79-120%
460-00-4	4-Bromofluorobenzene	89%		76-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-16/MW-1/5-7'		
Lab Sample ID:	JA85619-6	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	80.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V119495.D	1	09/16/11	CL	n/a	n/a	VV5099
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	8.2	ug/kg	
71-43-2	Benzene	0.50	1.2	0.16	ug/kg	J
74-97-5	Bromochloromethane	ND	6.2	0.64	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	0.28	ug/kg	
75-25-2	Bromoform	ND	6.2	0.93	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	5.4	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	0.24	ug/kg	
56-23-5	Carbon tetrachloride	0.57	6.2	0.43	ug/kg	J
108-90-7	Chlorobenzene	ND	6.2	0.40	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.50	ug/kg	
67-66-3	Chloroform	1.9	6.2	0.60	ug/kg	J
74-87-3	Chloromethane	ND	6.2	0.77	ug/kg	
110-82-7	Cyclohexane	ND	6.2	0.47	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.9	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.29	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.2	0.34	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.2	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.2	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	0.40	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	0.27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.22	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.2	0.76	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.2	0.40	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	0.52	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	0.33	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	0.42	ug/kg	
123-91-1	1,4-Dioxane	ND	150	72	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.18	ug/kg	
76-13-1	Freon 113	ND	6.2	0.89	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-16/MW-1/5-7'		
Lab Sample ID:	JA85619-6	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8260B	**Percent Solids:**	80.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.2	3.1	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	0.17	ug/kg	
79-20-9	Methyl Acetate	ND	6.2	2.7	ug/kg	
108-87-2	Methylcyclohexane	ND	6.2	0.30	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.2	3.3	ug/kg	
75-09-2	Methylene chloride	ND	6.2	0.28	ug/kg	
100-42-5	Styrene	ND	6.2	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	0.22	ug/kg	
127-18-4	Tetrachloroethene	ND	6.2	0.24	ug/kg	
108-88-3	Toluene	ND	1.2	0.47	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	0.54	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	0.42	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	0.30	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	0.54	ug/kg	
79-01-6	Trichloroethene	0.83	6.2	0.31	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	6.2	0.60	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	0.57	ug/kg	
	m,p-Xylene	ND	1.2	0.39	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		67-131%
17060-07-0	1,2-Dichloroethane-D4	102%		66-130%
2037-26-5	Toluene-D8	107%		76-125%
460-00-4	4-Bromofluorobenzene	95%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-16/MW-1/5-7'		
Lab Sample ID:	JA85619-6	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M38683.D	1	09/19/11	OYA	09/12/11	OP51818	E2M1684
Run #2	2M38693.D	5	09/20/11	OYA	09/12/11	OP51818	E2M1685

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2	35.0 g	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	180	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	35	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	57	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	710	43	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	43	ug/kg	
95-48-7	2-Methylphenol	50.8	71	40	ug/kg	J
	3&4-Methylphenol	60.1	71	45	ug/kg	J
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	350	60	ug/kg	
87-86-5	Pentachlorophenol	ND	350	60	ug/kg	
108-95-2	Phenol	ND	71	37	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	36	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	41	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	33	ug/kg	
83-32-9	Acenaphthene	295	35	10	ug/kg	
208-96-8	Acenaphthylene	517	35	11	ug/kg	
98-86-2	Acetophenone	75.4	180	6.2	ug/kg	J
120-12-7	Anthracene	1230	35	12	ug/kg	
1912-24-9	Atrazine	ND	180	7.0	ug/kg	
56-55-3	Benzo(a)anthracene	5210 [a]	180	58	ug/kg	
50-32-8	Benzo(a)pyrene	4860 [a]	180	54	ug/kg	
205-99-2	Benzo(b)fluoranthene	4850 [a]	180	59	ug/kg	
191-24-2	Benzo(g,h,i)perylene	3620 [a]	180	66	ug/kg	
207-08-9	Benzo(k)fluoranthene	2790 [a]	180	66	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	20	ug/kg	
92-52-4	1,1'-Biphenyl	38.0	71	4.1	ug/kg	J
100-52-7	Benzaldehyde	ND	180	8.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	787	71	16	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-16/MW-1/5-7'		
Lab Sample ID:	JA85619-6	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	71	11	ug/kg	
218-01-9	Chrysene	5660 [a]	180	60	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	71	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	71	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	71	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	71	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1490	35	12	ug/kg	
132-64-9	Dibenzofuran	272	71	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	7.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	17	ug/kg	
84-66-2	Diethyl phthalate	ND	71	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	71	31	ug/kg	
206-44-0	Fluoranthene	11000 [a]	180	78	ug/kg	
86-73-7	Fluorene	352	35	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	710	36	ug/kg	
67-72-1	Hexachloroethane	ND	180	9.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3300	35	12	ug/kg	
78-59-1	Isophorone	ND	71	9.5	ug/kg	
91-57-6	2-Methylnaphthalene	145	71	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	184	35	9.6	ug/kg	
98-95-3	Nitrobenzene	ND	71	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	8.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	6280 [a]	180	80	ug/kg	
129-00-0	Pyrene	10100 [a]	180	68	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	86%	87%	21-116%
4165-62-2	Phenol-d5	75%	81%	19-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-16/MW-1/5-7'		
Lab Sample ID:	JA85619-6	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	109%	101%	24-136%
4165-60-0	Nitrobenzene-d5	81%	84%	21-122%
321-60-8	2-Fluorobiphenyl	80%	83%	30-117%
1718-51-0	Terphenyl-d14	98%	99%	31-129%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-16/MW-1/5-7'		
Lab Sample ID:	JA85619-6	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8081B SW846 3545A	**Percent Solids:**	80.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G67101.D	1	09/22/11	CT	09/12/11	OP51801	G1G2445
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.73	0.36	ug/kg	
319-84-6	alpha-BHC	ND	0.73	0.54	ug/kg	
319-85-7	beta-BHC	ND	0.73	0.51	ug/kg	
319-86-8	delta-BHC	ND	0.73	0.42	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.73	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.73	0.47	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.73	0.37	ug/kg	
60-57-1	Dieldrin	ND	0.73	0.56	ug/kg	
72-54-8	4,4'-DDD	ND	0.73	0.37	ug/kg	
72-55-9	4,4'-DDE	ND	0.73	0.43	ug/kg	
50-29-3	4,4'-DDT [a]	48.9	0.73	0.53	ug/kg	
72-20-8	Endrin	ND	0.73	0.37	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.73	0.66	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.73	0.69	ug/kg	
959-98-8	Endosulfan-I	ND	0.73	0.35	ug/kg	
33213-65-9	Endosulfan-II	ND	0.73	0.48	ug/kg	
76-44-8	Heptachlor	ND	0.73	0.45	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.73	0.36	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.51	ug/kg	
53494-70-5	Endrin ketone	ND	0.73	0.47	ug/kg	
8001-35-2	Toxaphene	ND	18	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	35%		23-137%
877-09-8	Tetrachloro-m-xylene	113%		23-137%
2051-24-3	Decachlorobiphenyl	177% [b]		22-160%
2051-24-3	Decachlorobiphenyl	67%		22-160%

(a) Reported from 1st signal. %D of check on 2nd signal excess method criteria (20 %) so using for confirmation only.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-16/MW-1/5-7'		
Lab Sample ID:	JA85619-6	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	80.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G58786.D	1	09/21/11	AZ	09/12/11	OP51802	G2G2172
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.5	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	12	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71%		22-141%
877-09-8	Tetrachloro-m-xylene	90%		22-141%
2051-24-3	Decachlorobiphenyl	59%		18-163%
2051-24-3	Decachlorobiphenyl	84%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-16/MW-1/5-7'		
Lab Sample ID:	JA85619-6	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/08/11
		Percent Solids:	80.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4850	60	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Antimony	< 2.4	2.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	14.0	2.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Barium	230	24	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	0.26	0.24	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	2.8	0.60	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Calcium	8830	600	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Chromium	21.6	1.2	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	6.2	6.0	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Copper	129	3.0	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Iron	21000	60	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Lead	1160	2.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	2710	600	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Manganese	182	1.8	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Mercury	0.63	0.040	mg/kg	1	09/19/11	09/19/11	JW	SW846 7471B [1]	SW846 7471B [5]
Nickel	23.2	4.8	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Potassium	< 1200	1200	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Selenium	< 2.4	2.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.60	0.60	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Sodium	< 1200	1200	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Thallium	< 1.2	1.2	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [3]	SW846 3050B [4]
Vanadium	35.4	6.0	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]
Zinc	795	2.4	mg/kg	1	09/19/11	09/20/11	BL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA27107
(2) Instrument QC Batch: MA27112
(3) Instrument QC Batch: MA27114
(4) Prep QC Batch: MP60259
(5) Prep QC Batch: MP60277

RL = Reporting Limit

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

SO FB STB N

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.acutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JA85619

Client / Reporting Information

Company Name: Roux Associates
Street Address: 209 Shafter St
City / State / Zip: Islandia NY 11749
Project Contact: Josh Levine
E-mail: JLevine@roux-inc.com
Phone #: (631) 232-2600
Fax #:
Sampler(s) Name(s): C. Prete & E. Livingstone
Phone #: (631) 926-2514

Project Information

Project Name: Devon Self Storage
Street: 381 Richmond Ter.
City / State: Staten Island NY
Project #: 2077.0001.4000
Client Purchase Order #:
Project Manager: Josh Levine

Billing Information (if different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; Ol - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Pests/PCBs	Metals	SVOCs	VOCs							LAB USE ONLY
1	B-15 | 7-9'		9/8/11	1015	EL	SO	3					3				X	X	X	X							EX27
2	B-12 | MW-2 | 7-8'		9/8/11	1040	EL	SO	3					3				X	X	X	X							AMET11
3	B-17 | MW-3 | 4-5		9/8/11	1115	EL	SO	3					3				X	X	X	X							938
4F	FB090811		9/8/11	1300	CP	AQ	3		2			1				X	X	X	X							EX92
5	TRIP BLANK		9/6/11	0700	LAB	AQ	2	2								~~X~~	~~X~~	~~X~~	X	9/8/11						19N5
6	B-16 | MW-1 | 5-7'		9/8/11	1445	EL	SO	3					3				X	X	X	X							9032

Turnaround Time (Business days)

- [x] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	9/8/11 1530	1 Chris Lad	2 Chris Lad	9/8/11 1630	2
3		3	4		4
5		5			

Custody Seal #: — [ ] Intact [ ] Not intact — Preserved where applicable — On ice [x] — Cooler Temp. 2°C

B

4.1 4

JA85619: Chain of Custody
Page 1 of 6

ACCUTEST LABORATORIES

SO FB STB

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.acutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JA85619

Client / Reporting Information

Company Name: Roux Associates
Street Address: 209 Shafter St
City: Islandia State: NY Zip: 11749
Project Contact: Josh Levine E-mail: jlevine@roux-inc.com
Phone #: (631) 232-2600 Fax #:
Sampler(s) Name(s): C. Frete & E. Livingstone Phone #: (631) 726-2544

Project Information

Project Name: Devon Self Storage
Street: 331 Richmond Ter.
City: Staten Island State: NY
Project #: 2077.00014000
Client Purchase Order #: 479 8508
Project Manager: Josh Levine

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Pests / PCBs	Metals TAL	SVOCs TCL 8270C	VOCs TCL 8260B	TCL11	LAB USE ONLY
1	B-15 / 7-9'		9/8/11	1015	EL	SO	3					3				X	X	X	X		EX27
2	B-12 / MW-2 / 7-8'		9/8/11	1040	EL	SO	3					3				X	X	X	X		AME11
3	B-17 / MW-3 / 4-5		9/8/11	1115	EL	SO	3					3				X	X	X	X		938
4F	FB090811		9/8/11	1300	CP	AQ	3		2			2				X	X	X	X		EX92
5	TRIP BLANK		9/6/11	0700	LAB	AQ	2	2								~~X~~	~~X~~	~~X~~	X		19N5
6	B-16 / MW-1 / 5-7'		9/8/11	1445	EL	SO	3					3				X	X	X	X		9032

XTCL11 pkg

Turnaround Time (Business days)

- [x] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

no CN
UST?

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	9/8/11 1530	1 Chris Lau	2 Chris Lau	9/8/11 1630	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # ✓ [ ] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [x] Cooler Temp. 2°C

B

4.1 4

ACCUTEST.

Sample Log-In Summary

COC

Lab Name: ACCUTEST Page 1 of 1

Received by (Print Name): M CATENA Log-in Date: 9/8/11
Received by (Signature): [signature]

Case Number: N/A
SDG Number:
SAS Number: N/A

REMARKS:

1. Custody Seal(s): Present/Absent* (Absent circled) Intact/Broken
2. Custody Seal Numbers: NONE
3. Chain-of-Custody Records: Present/Absent* (Present circled)
4. Contract Lab Sample Inform. Sheet (CLSIS): Present/Absent* n/a
5. Airbill: Airbill/Sticker n/a Present/Absent*
6. Airbill No.: n/a
7. Sample Tags: Present/Absent* n/a
   Sample Tag Nos.: Listed/Not Listed on Chain-of-Custody n/a
8. Sample Condition: Intact/Broken*/Leaking (Intact circled)
9. Does Information on custody rec., CLSIS, & sample tags agree: COC + LABELS AGREE Yes/No* (Yes circled)
10. Date received at Lab: 9/8/11
11. Time Received: 1630
12. Do aqueous VOC vials have headspace? Yes/No* (No circled)
13. Are preserved voc soil samples fully immersed in preservative? Yes/No* N/A (N/A circled)

Sample Transfer
Fraction:
Area #:
By:
On:

See Internal Chain of Custody

NYSDEC SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
N/A		JA85619 -	1 ok
N/A		-	2
N/A		-	3
N/A		-	4F FB
N/A		-	5 TB
N/A		-	6
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			

* Contract BTSR and attach record of resolution
Reviewed By:
Date:

Logbook No.: N/A
Logbook Page No.: N/A

Form: SM10-02
Rev. Date: 8/21/03

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA85619 **Client:** ROUX-NY **Immediate Client Services Action Required:** No

Date / Time Received: 9/8/2011 1630 **Delivery Method:** Accutest Courier **Client Service Action Required at Login:** Yes

Project: DEVON **No. Coolers:** **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☐		☑
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☑	☐	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

-4 ALSO REC'D "DISS MET" VOL
-5 ONLY REC'D 2 VO FOR TB

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JA85619

CSR: Michelle **Response Date** 9/9/2011

Response: -4 Dissolved metals not needed per Josh Levine
-5 2 voa's sufficient for TB

4.1

4

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JA85619: Chain of Custody
Page 5 of 6

Job Change Order: JA85619_9/26/2011

Requested	9/26/2011	**Received Date:**	9/8/2011
Account	Roux Associates	**Due Date:**	9/22/2011
Project	Devon Self Storage, 3131 Richmond Terminal,	**Deliverable:**	NYASPB
CSR:	KB	**TAT (Days):**	14

Sample #:
JA85619-2

Change: Please revise client ID to B-14/MW-2/7-8' and reissue report.

B-12/MW-2/7-8'

Above Changes Per: Client / Josh Levine **Date:** 9/26/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

4.1 4

JA85619: Chain of Custody

Page 6 of 6

New Jersey
ACCUTEST LABORATORIES

10/10/11

Technical Report for

Roux Associates

Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY

2077.0001Y000

Accutest Job Number: JA85807

Sampling Dates: 09/08/11 - 09/09/11

Report to:

Roux Associates

jlevine@rouxinc.com

ATTN: Josh Levine

Total number of pages in report: **98**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP, Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Sample Results **11**
3.1: JA85807-1: B-20/MW-4/5'-7' 12
3.2: JA85807-2: DUP-090811 20
3.3: JA85807-3: B-18/7'-9' 28
3.4: JA85807-4: B-21/12'-14' 36
3.5: JA85807-5: B-19/7'-8' 44
3.6: JA85807-6: MW-1 52
3.7: JA85807-6F: MW-1 58
3.8: JA85807-7: MW-2 59
3.9: JA85807-7F: MW-2 65
3.10: JA85807-8: MW-3 66
3.11: JA85807-8F: MW-3 72
3.12: JA85807-9: MW-4 73
3.13: JA85807-9F: MW-4 79
3.14: JA85807-10: DUP2-090911 80
3.15: JA85807-10F: DUP2-090911 86
3.16: JA85807-11: FB-090911 87
3.17: JA85807-11F: FB-090911 91
3.18: JA85807-12: TRIP BLANK 92
Section 4: Misc. Forms **94**
4.1: Chain of Custody 95

Sample Summary

Roux Associates

Job No: JA85807

Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY
Project No: 2077.0001Y000

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA85807-1	09/08/11	16:00	CD	09/09/11	SO	Soil	B-20/MW-4/5'-7'
JA85807-2	09/08/11	16:10	CD	09/09/11	SO	Soil	DUP-090811
JA85807-3	09/09/11	12:00	CD	09/09/11	SO	Soil	B-18/7'-9'
JA85807-4	09/09/11	13:45	CD	09/09/11	SO	Soil	B-21/12'-14'
JA85807-5	09/09/11	10:20	CD	09/09/11	SO	Soil	B-19/7'-8'
JA85807-6	09/09/11	12:55	CD	09/09/11	AQ	Ground Water	MW-1
JA85807-6F	09/09/11	12:55	CD	09/09/11	AQ	Groundwater Filtered	MW-1
JA85807-7	09/09/11	11:40	CD	09/09/11	AQ	Ground Water	MW-2
JA85807-7F	09/09/11	11:40	CD	09/09/11	AQ	Groundwater Filtered	MW-2
JA85807-8	09/09/11	10:00	CD	09/09/11	AQ	Ground Water	MW-3
JA85807-8F	09/09/11	10:00	CD	09/09/11	AQ	Groundwater Filtered	MW-3
JA85807-9	09/09/11	15:30	CD	09/09/11	AQ	Ground Water	MW-4
JA85807-9F	09/09/11	15:30	CD	09/09/11	AQ	Groundwater Filtered	MW-4

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Roux Associates

Job No: JA85807

Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY
Project No: 2077.0001Y000

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA85807-10	09/09/11	15:40	CD	09/09/11	AQ	Ground Water	DUP2-090911
JA85807-10F	09/09/11	15:40	CD	09/09/11	AQ	Groundwater Filtered	DUP2-090911
JA85807-11	09/09/11	14:00	CD	09/09/11	AQ	Field Blank Water	FB-090911
JA85807-11F	09/09/11	14:00	CD	09/09/11	AQ	Field Blank Filtered	FB-090911
JA85807-12	09/09/11	15:40	CD	09/09/11	AQ	Trip Blank Water	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Roux Associates	**Job No**	JA85807
Site:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY	**Report Date**	9/29/2011 4:39:57 PM

On 09/09/2011, 10 Sample(s), 1 Trip Blank(s) and 2 Field Blank(s) were received at Accutest Laboratories at a temperature of 6 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA85807 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V3A4172

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA85729-8MS, JA85729-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** V3A4175

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA86204-1MS, JA86204-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** VX5033

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA85807-1MS, JA85807-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethene, trans-1,2-Dichloroethene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Butanone (MEK), Acetone, Benzene, Bromochloromethane, Bromodichloromethane, Bromoform, Bromomethane, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Cyclohexane, Dibromochloromethane, Dichlorodifluoromethane, Ethylbenzene, Freon 113, Isopropylbenzene, m,p-Xylene, Methyl Tert Butyl Ether, Methylcyclohexane, Methylene chloride, o-Xylene, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl chloride, Xylene (total) are outside control limits for sample JA85807-1MSD. Outside control limits due to matrix interference.
- J

Matrix: SO **Batch ID:** VX5037

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA85807-2MS, JA85807-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP51836

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85818-15MS, JA85818-15MSD were used as the QC samples indicated.
- RPD(s) for MSD for 3,3'-Dichlorobenzidine are outside control limits for sample OP51836-MSD. Outside control limits due to matrix interference.

Matrix: SO **Batch ID:** OP51819

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85772-1MS, JA85772-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- JA85807-5: Diluted due to high concentration of target compound and matrix interference.
- JA85807-3: Diluted due to high concentration of target compound and matrix interference.
- JA85807-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- JA85807-3 for Nitrobenzene-d5: Outside control limits due to dilution.
- JA85807-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- JA85807-3 for Terphenyl-d14: Outside control limits due to dilution.
- JA85807-3 for Phenol-d5: Outside control limits due to dilution.
- JA85807-3 for 2-Fluorophenol: Outside control limits due to dilution.

Extractables by GC By Method SW846 8081B

Matrix: SO **Batch ID:** OP51820

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85807-1MS, JA85807-1MSD, OP51820-MSMSD were used as the QC samples indicated.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Endosulfan sulfate, Methoxychlor are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Endosulfan sulfate, Endrin, delta-BHC are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for beta-BHC, delta-BHC, Methoxychlor are outside control limits for sample OP51820-MSD. Outside control limits due to matrix interference.
- JA85807-5 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JA85807-5 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JA85807-2 for 4,4'-DDT: Reported from 1st signal. %D of check on 2nd signal excess method criteria (20 %) so using for confirmation only.
- JA85807-1 for 4,4'-DDT: Reported from 1st signal. %D of check on 2nd signal excess method criteria (20 %) so using for confirmation only.

Extractables by GC By Method SW846 8082A

Matrix: SO **Batch ID:** OP51821

- All samples were extracted within the recommended method holding time.
- Sample(s) JA85788-1MS, JA85788-1MSD, OP51821-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Aroclor 1016, Aroclor 1260 are outside control limits. Outside control limits due to matrix interference.
- JA85807-3 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JA85807-5 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JA85807-4 for Tetrachloro-m-xylene: Outside of in house control limits.

Matrix: SO **Batch ID:** OP52089

- The data for SW846 8082A meets quality control requirements.
- The following samples were extracted outside of holding time for method SW846 8082A: JA85807-4
- JA85807-4: Confirmation run.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP60312

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85802-3MS, JA85802-3MSD, JA85802-3SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Aluminum, Arsenic, Cadmium, Cobalt, Copper, Lead, Nickel, Selenium, Silver, Vanadium are outside control limits for sample MP60312-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JA85807-9F for Manganese: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Magnesium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Iron: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Copper: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Chromium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Potassium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Calcium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-8F for Thallium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Aluminum: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Barium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Beryllium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-8F for Lead: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Vanadium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Silver: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9 for Thallium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Lead: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Cobalt: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Cadmium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Selenium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-10F for Nickel: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Nickel: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Antimony: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Arsenic: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

Metals By Method SW846 6010C

Matrix: AQ	**Batch ID:** MP60312

- JA85807-8F for Nickel: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9 for Nickel: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-10F for Lead: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Zinc: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9F for Thallium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-9 for Lead: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).
- JA85807-10F for Thallium: Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

Matrix: SO	**Batch ID:** MP60285

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA86283-2AMS, JA86283-2AMSD, JA86283-2ASDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Cobalt, Copper, Lead, Sodium, Zinc are outside control limits for sample MP60285-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ	**Batch ID:** MP60272

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85729-1FMS, JA85729-1FMSD were used as the QC samples for metals.

Matrix: AQ	**Batch ID:** MP60273

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85791-1MS, JA85791-1MSD were used as the QC samples for metals.

Matrix: AQ	**Batch ID:** MP60402

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85807-8FMS, JA85807-8FMSD were used as the QC samples for metals.

Metals By Method SW846 7471B

Matrix: SO	**Batch ID:** MP60282

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA85772-1MSD, JA85772-1MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Mercury are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method SM18 2540G

Matrix: SO	**Batch ID:** GN55726

- The data for SM18 2540G meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	B-20/MW-4/5'-7'		
Lab Sample ID:	JA85807-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	83.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X118546.D	1	09/13/11	TYG	n/a	n/a	VX5033
Run #2							

	Initial Weight
Run #1	4.9 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	8.1	ug/kg	
71-43-2	Benzene	0.57	1.2	0.16	ug/kg	J
74-97-5	Bromochloromethane	ND	6.1	0.63	ug/kg	
75-27-4	Bromodichloromethane	ND	6.1	0.27	ug/kg	
75-25-2	Bromoform	ND	6.1	0.92	ug/kg	
74-83-9	Bromomethane	ND	6.1	0.48	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	5.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.1	0.24	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.1	0.42	ug/kg	
108-90-7	Chlorobenzene	ND	6.1	0.39	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.50	ug/kg	
67-66-3	Chloroform	ND	6.1	0.59	ug/kg	
74-87-3	Chloromethane	ND	6.1	0.76	ug/kg	
110-82-7	Cyclohexane	ND	6.1	0.46	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.8	ug/kg	
124-48-1	Dibromochloromethane	ND	6.1	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.29	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.1	0.34	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.1	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.1	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	0.39	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.1	0.27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.22	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.1	0.75	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.1	0.39	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.1	0.52	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.1	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.1	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.1	0.41	ug/kg	
123-91-1	1,4-Dioxane	ND	150	71	ug/kg	
100-41-4	Ethylbenzene	3.8	1.2	0.18	ug/kg	
76-13-1	Freon 113	ND	6.1	0.87	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-20/MW-4/5'-7'		
Lab Sample ID:	JA85807-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	83.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.1	3.0	ug/kg	
98-82-8	Isopropylbenzene	0.64	6.1	0.17	ug/kg	J
79-20-9	Methyl Acetate	ND	6.1	2.7	ug/kg	
108-87-2	Methylcyclohexane	ND	6.1	0.30	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.1	3.2	ug/kg	
75-09-2	Methylene chloride	ND	6.1	0.28	ug/kg	
100-42-5	Styrene	ND	6.1	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.1	0.22	ug/kg	
127-18-4	Tetrachloroethene	ND	6.1	0.23	ug/kg	
108-88-3	Toluene	3.3	1.2	0.46	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	0.53	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	0.41	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.1	0.29	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.1	0.53	ug/kg	
79-01-6	Trichloroethene	0.36	6.1	0.30	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	6.1	0.59	ug/kg	
75-01-4	Vinyl chloride	ND	6.1	0.56	ug/kg	
	m,p-Xylene	13.8	1.2	0.38	ug/kg	
95-47-6	o-Xylene	10.0	1.2	0.22	ug/kg	
1330-20-7	Xylene (total)	23.9	1.2	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		67-131%
17060-07-0	1,2-Dichloroethane-D4	94%		66-130%
2037-26-5	Toluene-D8	110%		76-125%
460-00-4	4-Bromofluorobenzene	117%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-20/MW-4/5'-7'		
Lab Sample ID:	JA85807-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P59242.D	1	09/26/11	NAP	09/12/11	OP51819	EP2563
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	42	ug/kg	
95-48-7	2-Methylphenol	ND	68	39	ug/kg	
	3&4-Methylphenol	ND	68	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	58	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	68	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	83.4	34	9.9	ug/kg	
208-96-8	Acenaphthylene	1180	34	11	ug/kg	
98-86-2	Acetophenone	145	170	6.0	ug/kg	J
120-12-7	Anthracene	540	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.7	ug/kg	
56-55-3	Benzo(a)anthracene	790	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	1450	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	734	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1670	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	626	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	68	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	68	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	68	16	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-20/MW-4/5'-7'		
Lab Sample ID:	JA85807-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	68	11	ug/kg	
218-01-9	Chrysene	968	34	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	68	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	211	34	12	ug/kg	
132-64-9	Dibenzofuran	ND	68	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	7.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	68	17	ug/kg	
84-66-2	Diethyl phthalate	ND	68	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	68	30	ug/kg	
206-44-0	Fluoranthene	1050	34	15	ug/kg	
86-73-7	Fluorene	224	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.5	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	680	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.5	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	914	34	12	ug/kg	
78-59-1	Isophorone	ND	68	9.2	ug/kg	
91-57-6	2-Methylnaphthalene	197	68	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	288	34	9.3	ug/kg	
98-95-3	Nitrobenzene	ND	68	9.8	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	8.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	401	34	15	ug/kg	
129-00-0	Pyrene	1870	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		21-116%
4165-62-2	Phenol-d5	76%		19-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-20/MW-4/5'-7'		
Lab Sample ID:	JA85807-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	97%		24-136%
4165-60-0	Nitrobenzene-d5	100%		21-122%
321-60-8	2-Fluorobiphenyl	82%		30-117%
1718-51-0	Terphenyl-d14	82%		31-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-20/MW-4/5'-7'		
Lab Sample ID:	JA85807-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8081B SW846 3545A	**Percent Solids:**	83.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G67156.D	1	09/23/11	CT	09/12/11	OP51820	G1G2447
Run #2							

	Initial Weight	Final Volume
Run #1	17.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.35	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.52	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.49	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.41	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.32	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.70	0.45	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.70	0.36	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.54	ug/kg	
72-54-8	4,4'-DDD	ND	0.70	0.36	ug/kg	
72-55-9	4,4'-DDE	ND	0.70	0.41	ug/kg	
50-29-3	4,4'-DDT [a]	14.5	0.70	0.51	ug/kg	
72-20-8	Endrin	ND	0.70	0.36	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.66	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.34	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.46	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.43	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.34	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.49	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.45	ug/kg	
8001-35-2	Toxaphene	ND	17	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	58%		23-137%
877-09-8	Tetrachloro-m-xylene	38%		23-137%
2051-24-3	Decachlorobiphenyl	87%		22-160%
2051-24-3	Decachlorobiphenyl	92%		22-160%

(a) Reported from 1st signal. %D of check on 2nd signal excess method criteria (20 %) so using for confirmation only.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-20/MW-4/5'-7'		
Lab Sample ID:	JA85807-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8082A SW846 3545A	**Percent Solids:**	83.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF102078.D	1	09/14/11	CT	09/12/11	OP51821	GEF4308
Run #2							

	Initial Weight	Final Volume
Run #1	17.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.1	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		22-141%
877-09-8	Tetrachloro-m-xylene	75%		22-141%
2051-24-3	Decachlorobiphenyl	74%		18-163%
2051-24-3	Decachlorobiphenyl	82%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-20/MW-4/5'-7'		
Lab Sample ID:	JA85807-1	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
		Percent Solids:	83.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1670	60	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 2.4	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Arsenic	2.9	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Barium	< 24	24	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.24	0.24	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.60	0.60	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Calcium	< 600	600	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Chromium	6.8	1.2	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Cobalt	< 6.0	6.0	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Copper	40.6	3.0	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Iron	6310	60	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Lead	129	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Magnesium	< 600	600	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Manganese	104	1.8	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.073	0.038	mg/kg	1	09/20/11	09/20/11	MP	SW846 7471B [1]	SW846 7471B [4]
Nickel	12.3	4.8	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Potassium	< 1200	1200	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 2.4	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.60	0.60	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 1200	1200	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.2	1.2	mg/kg	1	09/20/11	09/21/11	ND	SW846 6010C [3]	SW846 3050B [5]
Vanadium	9.2	6.0	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Zinc	30.1	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA27113
(2) Instrument QC Batch: MA27116
(3) Instrument QC Batch: MA27122
(4) Prep QC Batch: MP60282
(5) Prep QC Batch: MP60285

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-090811		
Lab Sample ID:	JA85807-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X118635.D	1	09/15/11	TYG	n/a	n/a	VX5037
Run #2							

	Initial Weight
Run #1	4.9 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	8.0	ug/kg	
71-43-2	Benzene	0.28	1.2	0.16	ug/kg	J
74-97-5	Bromochloromethane	ND	6.0	0.62	ug/kg	
75-27-4	Bromodichloromethane	ND	6.0	0.27	ug/kg	
75-25-2	Bromoform	ND	6.0	0.91	ug/kg	
74-83-9	Bromomethane	ND	6.0	0.47	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	6.0	0.24	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.0	0.42	ug/kg	
108-90-7	Chlorobenzene	ND	6.0	0.39	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.49	ug/kg	
67-66-3	Chloroform	ND	6.0	0.58	ug/kg	
74-87-3	Chloromethane	ND	6.0	0.75	ug/kg	
110-82-7	Cyclohexane	ND	6.0	0.46	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.8	ug/kg	
124-48-1	Dibromochloromethane	ND	6.0	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.29	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.0	0.33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.0	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.0	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	0.39	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.0	0.26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.22	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.0	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.0	0.39	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.0	0.51	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.0	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	0.40	ug/kg	
123-91-1	1,4-Dioxane	ND	150	70	ug/kg	
100-41-4	Ethylbenzene	0.46	1.2	0.18	ug/kg	J
76-13-1	Freon 113	ND	6.0	0.86	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-090811		
Lab Sample ID:	JA85807-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.0	3.0	ug/kg	
98-82-8	Isopropylbenzene	ND	6.0	0.16	ug/kg	
79-20-9	Methyl Acetate	ND	6.0	2.7	ug/kg	
108-87-2	Methylcyclohexane	ND	6.0	0.29	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	3.2	ug/kg	
75-09-2	Methylene chloride	ND	6.0	0.28	ug/kg	
100-42-5	Styrene	0.45	6.0	0.22	ug/kg	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	0.22	ug/kg	
127-18-4	Tetrachloroethene	0.38	6.0	0.23	ug/kg	J
108-88-3	Toluene	0.60	1.2	0.45	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	0.53	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	0.41	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.0	0.29	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.0	0.52	ug/kg	
79-01-6	Trichloroethene	ND	6.0	0.30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	0.58	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	0.55	ug/kg	
	m,p-Xylene	1.6	1.2	0.38	ug/kg	
95-47-6	o-Xylene	0.87	1.2	0.22	ug/kg	J
1330-20-7	Xylene (total)	2.4	1.2	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		67-131%
17060-07-0	1,2-Dichloroethane-D4	101%		66-130%
2037-26-5	Toluene-D8	111%		76-125%
460-00-4	4-Bromofluorobenzene	125%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-090811		
Lab Sample ID:	JA85807-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P59243.D	1	09/26/11	NAP	09/12/11	OP51819	EP2563
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	54	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	670	41	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	670	41	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	229	67	43	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	57	ug/kg	
87-86-5	Pentachlorophenol	ND	340	58	ug/kg	
108-95-2	Phenol	ND	67	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	106	34	9.8	ug/kg	
208-96-8	Acenaphthylene	999	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	5.9	ug/kg	
120-12-7	Anthracene	581	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.6	ug/kg	
56-55-3	Benzo(a)anthracene	1000	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	1140	34	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	852	34	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1540	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	437	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	3.9	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	10	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	67	16	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-090811		
Lab Sample ID:	JA85807-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	67	11	ug/kg	
218-01-9	Chrysene	1180	34	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	67	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	67	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.5	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	205	34	11	ug/kg	
132-64-9	Dibenzofuran	ND	67	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	7.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	16	ug/kg	
84-66-2	Diethyl phthalate	ND	67	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	30	ug/kg	
206-44-0	Fluoranthene	833	34	15	ug/kg	
86-73-7	Fluorene	185	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.4	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	670	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	873	34	12	ug/kg	
78-59-1	Isophorone	ND	67	9.1	ug/kg	
91-57-6	2-Methylnaphthalene	205	67	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	13	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	245	34	9.2	ug/kg	
98-95-3	Nitrobenzene	ND	67	9.7	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	8.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	407	34	15	ug/kg	
129-00-0	Pyrene	1740	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		21-116%
4165-62-2	Phenol-d5	68%		19-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-090811		
Lab Sample ID:	JA85807-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83%		24-136%
4165-60-0	Nitrobenzene-d5	90%		21-122%
321-60-8	2-Fluorobiphenyl	70%		30-117%
1718-51-0	Terphenyl-d14	73%		31-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-090811		
Lab Sample ID:	JA85807-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8081B SW846 3545A	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G67157.D	1	09/23/11	CT	09/12/11	OP51820	G1G2447
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.35	ug/kg	
319-84-6	alpha-BHC	ND	0.69	0.52	ug/kg	
319-85-7	beta-BHC	ND	0.69	0.49	ug/kg	
319-86-8	delta-BHC	ND	0.69	0.40	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.69	0.32	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.69	0.45	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.69	0.35	ug/kg	
60-57-1	Dieldrin	ND	0.69	0.54	ug/kg	
72-54-8	4,4'-DDD	ND	0.69	0.35	ug/kg	
72-55-9	4,4'-DDE	ND	0.69	0.41	ug/kg	
50-29-3	4,4'-DDT [a]	20.2	0.69	0.51	ug/kg	
72-20-8	Endrin	ND	0.69	0.35	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.66	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.34	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.46	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.42	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.69	0.34	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.49	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.45	ug/kg	
8001-35-2	Toxaphene	ND	17	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		23-137%
877-09-8	Tetrachloro-m-xylene	108%		23-137%
2051-24-3	Decachlorobiphenyl	130%		22-160%
2051-24-3	Decachlorobiphenyl	138%		22-160%

(a) Reported from 1st signal. %D of check on 2nd signal excess method criteria (20 %) so using for confirmation only.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-090811		
Lab Sample ID:	JA85807-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8082A SW846 3545A	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF102079.D	1	09/14/11	CT	09/12/11	OP51821	GEF4308
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		22-141%
877-09-8	Tetrachloro-m-xylene	83%		22-141%
2051-24-3	Decachlorobiphenyl	65%		18-163%
2051-24-3	Decachlorobiphenyl	77%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-090811		
Lab Sample ID:	JA85807-2	**Date Sampled:**	09/08/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
		Percent Solids:	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2420	59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 2.4	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Arsenic	8.9	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Barium	37.9	24	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.24	0.24	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.59	0.59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Calcium	981	590	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Chromium	10.6	1.2	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Cobalt	< 5.9	5.9	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Copper	65.1	3.0	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Iron	17100	59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Lead	108	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Magnesium	961	590	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Manganese	142	1.8	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.15	0.038	mg/kg	1	09/20/11	09/20/11	MP	SW846 7471B [1]	SW846 7471B [4]
Nickel	18.3	4.8	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Potassium	< 1200	1200	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 2.4	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.59	0.59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 1200	1200	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.2	1.2	mg/kg	1	09/20/11	09/21/11	ND	SW846 6010C [3]	SW846 3050B [5]
Vanadium	12.2	5.9	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Zinc	350	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA27113
(2) Instrument QC Batch: MA27116
(3) Instrument QC Batch: MA27122
(4) Prep QC Batch: MP60282
(5) Prep QC Batch: MP60285

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-18/7'-9'		
Lab Sample ID:	JA85807-3	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	81.3
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X118636.D	1	09/15/11	TYG	n/a	n/a	VX5037
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	30.3	12	7.8	ug/kg	
71-43-2	Benzene	1.4	1.2	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	0.61	ug/kg	
75-27-4	Bromodichloromethane	ND	5.9	0.26	ug/kg	
75-25-2	Bromoform	ND	5.9	0.89	ug/kg	
74-83-9	Bromomethane	ND	5.9	0.47	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	5.1	ug/kg	
75-15-0	Carbon disulfide	5.4	5.9	0.23	ug/kg	J
56-23-5	Carbon tetrachloride	0.99	5.9	0.41	ug/kg	J
108-90-7	Chlorobenzene	ND	5.9	0.38	ug/kg	
75-00-3	Chloroethane	ND	5.9	0.48	ug/kg	
67-66-3	Chloroform	2.3	5.9	0.57	ug/kg	J
74-87-3	Chloromethane	ND	5.9	0.74	ug/kg	
110-82-7	Cyclohexane	ND	5.9	0.45	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.9	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.28	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.9	0.33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.9	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.9	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	0.38	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.9	0.26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.22	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.9	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethene	0.41	5.9	0.38	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	5.9	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.9	0.31	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	0.40	ug/kg	
123-91-1	1,4-Dioxane	ND	150	69	ug/kg	
100-41-4	Ethylbenzene	4.4	1.2	0.18	ug/kg	
76-13-1	Freon 113	ND	5.9	0.85	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-18/7'-9'		
Lab Sample ID:	JA85807-3	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	81.3
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.9	2.9	ug/kg	
98-82-8	Isopropylbenzene	1.7	5.9	0.16	ug/kg	J
79-20-9	Methyl Acetate	ND	5.9	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.9	0.29	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.21	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	3.1	ug/kg	
75-09-2	Methylene chloride	ND	5.9	0.27	ug/kg	
100-42-5	Styrene	2.6	5.9	0.22	ug/kg	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	0.21	ug/kg	
127-18-4	Tetrachloroethene	0.34	5.9	0.23	ug/kg	J
108-88-3	Toluene	4.3	1.2	0.45	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	0.52	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.40	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.9	0.29	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.9	0.51	ug/kg	
79-01-6	Trichloroethene	9.9	5.9	0.29	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.9	0.57	ug/kg	
75-01-4	Vinyl chloride	ND	5.9	0.55	ug/kg	
	m,p-Xylene	17.3	1.2	0.37	ug/kg	
95-47-6	o-Xylene	13.2	1.2	0.22	ug/kg	
1330-20-7	Xylene (total)	30.5	1.2	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		67-131%
17060-07-0	1,2-Dichloroethane-D4	103%		66-130%
2037-26-5	Toluene-D8	112%		76-125%
460-00-4	4-Bromofluorobenzene	119%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-18/7'-9'		
Lab Sample ID:	JA85807-3	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.3
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P59200.D	5	09/23/11	NAP	09/12/11	OP51819	EP2561
Run #2	P59201.D	100	09/23/11	NAP	09/12/11	OP51819	EP2561

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2	35.0 g	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	880	180	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	880	180	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	880	280	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	880	300	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3500	210	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3500	210	ug/kg	
95-48-7	2-Methylphenol	ND	350	200	ug/kg	
	3&4-Methylphenol	ND	350	220	ug/kg	
88-75-5	2-Nitrophenol	ND	880	190	ug/kg	
100-02-7	4-Nitrophenol	ND	1800	300	ug/kg	
87-86-5	Pentachlorophenol	ND	1800	300	ug/kg	
108-95-2	Phenol	ND	350	180	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	880	180	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	880	200	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	880	170	ug/kg	
83-32-9	Acenaphthene	1580	180	51	ug/kg	
208-96-8	Acenaphthylene	6490	180	56	ug/kg	
98-86-2	Acetophenone	917	880	31	ug/kg	
120-12-7	Anthracene	11100	180	62	ug/kg	
1912-24-9	Atrazine	ND	880	35	ug/kg	
56-55-3	Benzo(a)anthracene	7740	180	57	ug/kg	
50-32-8	Benzo(a)pyrene	5990	180	54	ug/kg	
205-99-2	Benzo(b)fluoranthene	3570	180	59	ug/kg	
191-24-2	Benzo(g,h,i)perylene	4280	180	65	ug/kg	
207-08-9	Benzo(k)fluoranthene	2390	180	66	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	350	64	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	350	100	ug/kg	
92-52-4	1,1'-Biphenyl	317	350	20	ug/kg	J
100-52-7	Benzaldehyde	ND	880	40	ug/kg	
91-58-7	2-Chloronaphthalene	ND	350	54	ug/kg	
106-47-8	4-Chloroaniline	ND	880	56	ug/kg	
86-74-8	Carbazole	ND	350	81	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-18/7'-9'		
Lab Sample ID:	JA85807-3	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.3
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	350	55	ug/kg	
218-01-9	Chrysene	7940	180	59	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	350	71	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	350	53	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	350	52	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	350	53	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	350	77	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	350	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	880	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1470	180	60	ug/kg	
132-64-9	Dibenzofuran	523	350	52	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	350	39	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	350	86	ug/kg	
84-66-2	Diethyl phthalate	ND	350	60	ug/kg	
131-11-3	Dimethyl phthalate	ND	350	62	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	350	160	ug/kg	
206-44-0	Fluoranthene	11100	180	77	ug/kg	
86-73-7	Fluorene	2040	180	58	ug/kg	
118-74-1	Hexachlorobenzene	ND	350	57	ug/kg	
87-68-3	Hexachlorobutadiene	ND	180	49	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3500	180	ug/kg	
67-72-1	Hexachloroethane	ND	880	49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2700	180	61	ug/kg	
78-59-1	Isophorone	ND	350	47	ug/kg	
91-57-6	2-Methylnaphthalene	ND	350	98	ug/kg	
88-74-4	2-Nitroaniline	ND	880	77	ug/kg	
99-09-2	3-Nitroaniline	ND	880	70	ug/kg	
100-01-6	4-Nitroaniline	ND	880	69	ug/kg	
91-20-3	Naphthalene	575	180	48	ug/kg	
98-95-3	Nitrobenzene	ND	350	51	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	350	43	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	880	100	ug/kg	
85-01-8	Phenanthrene	11400	180	80	ug/kg	
129-00-0	Pyrene	24200 [b]	3500	1300	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	880	54	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%	0% [c]	21-116%
4165-62-2	Phenol-d5	72%	0% [c]	19-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-18/7'-9'		
Lab Sample ID:	JA85807-3	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.3
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	90%	0% c	24-136%
4165-60-0	Nitrobenzene-d5	94%	0% c	21-122%
321-60-8	2-Fluorobiphenyl	84%	0% c	30-117%
1718-51-0	Terphenyl-d14	84%	0% c	31-129%

(a) Diluted due to high concentration of target compound and matrix interference.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-18/7'-9'		
Lab Sample ID:	JA85807-3	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8081B SW846 3545A	**Percent Solids:**	81.3
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G67158.D	1	09/23/11	CT	09/12/11	OP51820	G1G2447
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.72	0.36	ug/kg	
319-84-6	alpha-BHC	ND	0.72	0.54	ug/kg	
319-85-7	beta-BHC	ND	0.72	0.51	ug/kg	
319-86-8	delta-BHC	ND	0.72	0.42	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.72	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.72	0.47	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.72	0.37	ug/kg	
60-57-1	Dieldrin	ND	0.72	0.56	ug/kg	
72-54-8	4,4'-DDD	ND	0.72	0.37	ug/kg	
72-55-9	4,4'-DDE	ND	0.72	0.43	ug/kg	
50-29-3	4,4'-DDT	ND	0.72	0.53	ug/kg	
72-20-8	Endrin	ND	0.72	0.37	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.72	0.65	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.72	0.69	ug/kg	
959-98-8	Endosulfan-I	ND	0.72	0.35	ug/kg	
33213-65-9	Endosulfan-II	ND	0.72	0.48	ug/kg	
76-44-8	Heptachlor	ND	0.72	0.44	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.72	0.36	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.51	ug/kg	
53494-70-5	Endrin ketone	ND	0.72	0.47	ug/kg	
8001-35-2	Toxaphene	ND	18	9.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	122%		23-137%
877-09-8	Tetrachloro-m-xylene	51%		23-137%
2051-24-3	Decachlorobiphenyl	64%		22-160%
2051-24-3	Decachlorobiphenyl	84%		22-160%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-18/7'-9'		
Lab Sample ID:	JA85807-3	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8082A SW846 3545A	**Percent Solids:**	81.3
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF102115.D	1	09/15/11	CT	09/12/11	OP51821	GEF4309
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.4	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	12	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	155% [a]		22-141%
877-09-8	Tetrachloro-m-xylene	265% [a]		22-141%
2051-24-3	Decachlorobiphenyl	32%		18-163%
2051-24-3	Decachlorobiphenyl	28%		18-163%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-18/7'-9'		
Lab Sample ID:	JA85807-3	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
		Percent Solids:	81.3
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2450	59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 2.3	2.3	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Arsenic	7.6	2.3	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Barium	36.3	23	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.23	0.23	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.59	0.59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Calcium	932	590	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Chromium	7.7	1.2	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Cobalt	< 5.9	5.9	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Copper	59.5	2.9	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Iron	18900	59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Lead	54.4	2.3	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Magnesium	779	590	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Manganese	121	1.8	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.057	0.041	mg/kg	1	09/20/11	09/20/11	MP	SW846 7471B [1]	SW846 7471B [4]
Nickel	21.1	4.7	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Potassium	< 1200	1200	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Selenium	2.3	2.3	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.59	0.59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 1200	1200	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.2	1.2	mg/kg	1	09/20/11	09/21/11	ND	SW846 6010C [3]	SW846 3050B [5]
Vanadium	11.7	5.9	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Zinc	131	2.3	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA27113
(2) Instrument QC Batch: MA27116
(3) Instrument QC Batch: MA27122
(4) Prep QC Batch: MP60282
(5) Prep QC Batch: MP60285

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-21/12'-14'		
Lab Sample ID:	JA85807-4	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	37.6
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X118547.D	1	09/13/11	TYG	n/a	n/a	VX5033
Run #2							

	Initial Weight
Run #1	4.8 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	54.8	28	18	ug/kg	
71-43-2	Benzene	2.2	2.8	0.37	ug/kg	J
74-97-5	Bromochloromethane	ND	14	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	14	0.62	ug/kg	
75-25-2	Bromoform	ND	14	2.1	ug/kg	
74-83-9	Bromomethane	ND	14	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	28	12	ug/kg	
75-15-0	Carbon disulfide	8.7	14	0.54	ug/kg	J
56-23-5	Carbon tetrachloride	ND	14	0.96	ug/kg	
108-90-7	Chlorobenzene	ND	14	0.89	ug/kg	
75-00-3	Chloroethane	ND	14	1.1	ug/kg	
67-66-3	Chloroform	ND	14	1.3	ug/kg	
74-87-3	Chloromethane	ND	14	1.7	ug/kg	
110-82-7	Cyclohexane	ND	14	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	28	4.2	ug/kg	
124-48-1	Dibromochloromethane	ND	14	0.47	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.8	0.66	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	14	0.77	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	14	0.53	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	14	0.47	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	14	0.89	ug/kg	
75-34-3	1,1-Dichloroethane	ND	14	0.60	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.8	0.50	ug/kg	
75-35-4	1,1-Dichloroethene	ND	14	1.7	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	14	0.89	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	14	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	14	0.74	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	14	0.42	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	14	0.93	ug/kg	
123-91-1	1,4-Dioxane	ND	350	160	ug/kg	
100-41-4	Ethylbenzene	18.9	2.8	0.41	ug/kg	
76-13-1	Freon 113	ND	14	2.0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-21/12'-14'		
Lab Sample ID:	JA85807-4	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	37.6
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	14	6.9	ug/kg	
98-82-8	Isopropylbenzene	9.3	14	0.38	ug/kg	J
79-20-9	Methyl Acetate	ND	14	6.2	ug/kg	
108-87-2	Methylcyclohexane	ND	14	0.68	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.8	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	14	7.3	ug/kg	
75-09-2	Methylene chloride	ND	14	0.64	ug/kg	
100-42-5	Styrene	ND	14	0.51	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	14	0.50	ug/kg	
127-18-4	Tetrachloroethene	ND	14	0.53	ug/kg	
108-88-3	Toluene	ND	2.8	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	14	1.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	14	0.94	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	14	0.67	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	14	1.2	ug/kg	
79-01-6	Trichloroethene	ND	14	0.68	ug/kg	
75-69-4	Trichlorofluoromethane	ND	14	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	14	1.3	ug/kg	
	m,p-Xylene	15.0	2.8	0.87	ug/kg	
95-47-6	o-Xylene	19.0	2.8	0.51	ug/kg	
1330-20-7	Xylene (total)	34.0	2.8	0.51	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		67-131%
17060-07-0	1,2-Dichloroethane-D4	106%		66-130%
2037-26-5	Toluene-D8	108%		76-125%
460-00-4	4-Bromofluorobenzene	129%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-21/12'-14'		
Lab Sample ID:	JA85807-4	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	37.6
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P59143.D	1	09/21/11	NAP	09/12/11	OP51819	EP2559
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	380	77	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	380	76	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	380	120	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	380	130	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1500	93	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1500	93	ug/kg	
95-48-7	2-Methylphenol	ND	150	87	ug/kg	
	3&4-Methylphenol	ND	150	97	ug/kg	
88-75-5	2-Nitrophenol	ND	380	81	ug/kg	
100-02-7	4-Nitrophenol	ND	760	130	ug/kg	
87-86-5	Pentachlorophenol	ND	760	130	ug/kg	
108-95-2	Phenol	ND	150	80	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	380	78	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	380	88	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	380	71	ug/kg	
83-32-9	Acenaphthene	ND	76	22	ug/kg	
208-96-8	Acenaphthylene	61.6	76	24	ug/kg	J
98-86-2	Acetophenone	ND	380	13	ug/kg	
120-12-7	Anthracene	ND	76	27	ug/kg	
1912-24-9	Atrazine	ND	380	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	76	25	ug/kg	
50-32-8	Benzo(a)pyrene	119	76	23	ug/kg	
205-99-2	Benzo(b)fluoranthene	58.8	76	25	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	65.1	76	28	ug/kg	J
207-08-9	Benzo(k)fluoranthene	74.5	76	29	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	150	28	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	150	44	ug/kg	
92-52-4	1,1'-Biphenyl	ND	150	8.8	ug/kg	
100-52-7	Benzaldehyde	ND	380	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	150	24	ug/kg	
106-47-8	4-Chloroaniline	ND	380	24	ug/kg	
86-74-8	Carbazole	ND	150	35	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-21/12'-14'		
Lab Sample ID:	JA85807-4	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	37.6
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	150	24	ug/kg	
218-01-9	Chrysene	ND	76	26	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	150	31	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	150	23	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	150	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	150	23	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	150	33	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	150	29	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	380	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	76	26	ug/kg	
132-64-9	Dibenzofuran	ND	150	23	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	150	17	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	150	37	ug/kg	
84-66-2	Diethyl phthalate	ND	150	26	ug/kg	
131-11-3	Dimethyl phthalate	149	150	27	ug/kg	J
117-81-7	bis(2-Ethylhexyl)phthalate	ND	150	67	ug/kg	
206-44-0	Fluoranthene	197	76	34	ug/kg	
86-73-7	Fluorene	ND	76	25	ug/kg	
118-74-1	Hexachlorobenzene	ND	150	25	ug/kg	
87-68-3	Hexachlorobutadiene	ND	76	21	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1500	78	ug/kg	
67-72-1	Hexachloroethane	ND	380	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	46.1	76	26	ug/kg	J
78-59-1	Isophorone	ND	150	20	ug/kg	
91-57-6	2-Methylnaphthalene	ND	150	42	ug/kg	
88-74-4	2-Nitroaniline	ND	380	33	ug/kg	
99-09-2	3-Nitroaniline	ND	380	30	ug/kg	
100-01-6	4-Nitroaniline	ND	380	30	ug/kg	
91-20-3	Naphthalene	ND	76	21	ug/kg	
98-95-3	Nitrobenzene	ND	150	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	150	19	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	380	45	ug/kg	
85-01-8	Phenanthrene	ND	76	35	ug/kg	
129-00-0	Pyrene	369	76	29	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	380	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		21-116%
4165-62-2	Phenol-d5	63%		19-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-21/12'-14'		
Lab Sample ID:	JA85807-4	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	37.6
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	105%		24-136%
4165-60-0	Nitrobenzene-d5	87%		21-122%
321-60-8	2-Fluorobiphenyl	82%		30-117%
1718-51-0	Terphenyl-d14	92%		31-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-21/12'-14'		
Lab Sample ID:	JA85807-4	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8081B SW846 3545A	**Percent Solids:**	37.6
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G67159.D	1	09/23/11	CT	09/12/11	OP51820	G1G2447
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.78	ug/kg	
319-84-6	alpha-BHC	ND	1.6	1.2	ug/kg	
319-85-7	beta-BHC	ND	1.6	1.1	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.91	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.71	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.6	1.0	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.6	0.80	ug/kg	
60-57-1	Dieldrin	ND	1.6	1.2	ug/kg	
72-54-8	4,4'-DDD	ND	1.6	0.80	ug/kg	
72-55-9	4,4'-DDE	ND	1.6	0.92	ug/kg	
50-29-3	4,4'-DDT	ND	1.6	1.1	ug/kg	
72-20-8	Endrin	ND	1.6	0.80	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.6	1.4	ug/kg	
7421-93-4	Endrin aldehyde	ND	1.6	1.5	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.76	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	1.0	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.96	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.77	ug/kg	
72-43-5	Methoxychlor	ND	3.1	1.1	ug/kg	
53494-70-5	Endrin ketone	ND	1.6	1.0	ug/kg	
8001-35-2	Toxaphene	ND	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	28%		23-137%
877-09-8	Tetrachloro-m-xylene	28%		23-137%
2051-24-3	Decachlorobiphenyl	34%		22-160%
2051-24-3	Decachlorobiphenyl	42%		22-160%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-21/12'-14'		
Lab Sample ID:	JA85807-4	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8082A SW846 3545A	**Percent Solids:**	37.6
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF102081.D	1	09/14/11	CT	09/12/11	OP51821	GEF4308
Run #2 [a]	XX111427.D	1	09/26/11	AZ	09/24/11	OP52089	GXX4173

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2	17.0 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	78	20	ug/kg	
11104-28-2	Aroclor 1221	ND	78	47	ug/kg	
11141-16-5	Aroclor 1232	ND	78	40	ug/kg	
53469-21-9	Aroclor 1242	ND	78	25	ug/kg	
12672-29-6	Aroclor 1248	ND	78	24	ug/kg	
11097-69-1	Aroclor 1254	ND	78	37	ug/kg	
11096-82-5	Aroclor 1260	ND	78	26	ug/kg	
11100-14-4	Aroclor 1268	ND	78	23	ug/kg	
37324-23-5	Aroclor 1262	ND	78	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	17% [b]	68%	22-141%
877-09-8	Tetrachloro-m-xylene	15% [b]	62%	22-141%
2051-24-3	Decachlorobiphenyl	23%	84%	18-163%
2051-24-3	Decachlorobiphenyl	25%	83%	18-163%

(a) Confirmation run.
(b) Outside of in house control limits.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-21/12'-14'		
Lab Sample ID:	JA85807-4	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
		Percent Solids:	37.6
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	19800	130	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 5.1	5.1	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Arsenic	< 5.1	5.1	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Barium	< 51	51	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.78	0.51	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 1.3	1.3	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Calcium	2700	1300	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Chromium	29.8	2.6	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Cobalt	< 13	13	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Copper	18.9	6.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Iron	16600	130	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Lead	21.2	5.1	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Magnesium	5280	1300	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Manganese	128	3.8	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.084	0.084	mg/kg	1	09/20/11	09/20/11	MP	SW846 7471B [1]	SW846 7471B [4]
Nickel	22.9	10	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Potassium	4070	2600	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 5.1	5.1	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Silver	< 1.3	1.3	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Sodium	5390	2600	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 2.6	2.6	mg/kg	1	09/20/11	09/21/11	ND	SW846 6010C [3]	SW846 3050B [5]
Vanadium	37.9	13	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Zinc	116	5.1	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA27113
(2) Instrument QC Batch: MA27116
(3) Instrument QC Batch: MA27122
(4) Prep QC Batch: MP60282
(5) Prep QC Batch: MP60285

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-19/7'-8'		
Lab Sample ID:	JA85807-5	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X118548.D	1	09/13/11	TYG	n/a	n/a	VX5033
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	38.4	12	7.6	ug/kg	
71-43-2	Benzene	1.4	1.2	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.8	0.60	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	0.26	ug/kg	
75-25-2	Bromoform	ND	5.8	0.87	ug/kg	
74-83-9	Bromomethane	ND	5.8	0.45	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	5.0	ug/kg	
75-15-0	Carbon disulfide	4.0	5.8	0.23	ug/kg	J
56-23-5	Carbon tetrachloride	ND	5.8	0.40	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	0.37	ug/kg	
75-00-3	Chloroethane	ND	5.8	0.47	ug/kg	
67-66-3	Chloroform	ND	5.8	0.56	ug/kg	
74-87-3	Chloromethane	ND	5.8	0.72	ug/kg	
110-82-7	Cyclohexane	ND	5.8	0.44	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.27	ug/kg	
95-50-1	1,2-Dichlorobenzene	2.8	5.8	0.32	ug/kg	J
541-73-1	1,3-Dichlorobenzene	ND	5.8	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.8	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	0.37	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	0.25	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	0.49	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	0.31	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	0.39	ug/kg	
123-91-1	1,4-Dioxane	ND	140	67	ug/kg	
100-41-4	Ethylbenzene	64.4	1.2	0.17	ug/kg	
76-13-1	Freon 113	ND	5.8	0.83	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-19/7'-8'		
Lab Sample ID:	JA85807-5	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.8	2.9	ug/kg	
98-82-8	Isopropylbenzene	58.3	5.8	0.16	ug/kg	
79-20-9	Methyl Acetate	ND	5.8	2.6	ug/kg	
108-87-2	Methylcyclohexane	1.2	5.8	0.28	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.21	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	3.0	ug/kg	
75-09-2	Methylene chloride	ND	5.8	0.27	ug/kg	
100-42-5	Styrene	ND	5.8	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	0.21	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	0.22	ug/kg	
108-88-3	Toluene	8.4	1.2	0.44	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.8	0.51	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	0.39	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	0.28	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	0.50	ug/kg	
79-01-6	Trichloroethene	0.70	5.8	0.29	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	5.8	0.56	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	0.53	ug/kg	
	m,p-Xylene	25.9	1.2	0.36	ug/kg	
95-47-6	o-Xylene	24.2	1.2	0.21	ug/kg	
1330-20-7	Xylene (total)	50.1	1.2	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		67-131%
17060-07-0	1,2-Dichloroethane-D4	98%		66-130%
2037-26-5	Toluene-D8	110%		76-125%
460-00-4	4-Bromofluorobenzene	117%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-19/7'-8'		
Lab Sample ID:	JA85807-5	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3P6172.D	5	09/22/11	KLS	09/12/11	OP51819	E3P303
Run #2	2P8318.D	20	09/23/11	NAP	09/12/11	OP51819	E2P412

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2	35.0 g	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	840	170	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	840	170	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	840	270	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	840	280	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3400	210	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3400	210	ug/kg	
95-48-7	2-Methylphenol	ND	340	190	ug/kg	
	3&4-Methylphenol	ND	340	210	ug/kg	
88-75-5	2-Nitrophenol	ND	840	180	ug/kg	
100-02-7	4-Nitrophenol	ND	1700	280	ug/kg	
87-86-5	Pentachlorophenol	ND	1700	290	ug/kg	
108-95-2	Phenol	ND	340	180	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	840	170	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	840	200	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	840	160	ug/kg	
83-32-9	Acenaphthene	4570	170	49	ug/kg	
208-96-8	Acenaphthylene	10100	170	54	ug/kg	
98-86-2	Acetophenone	ND	840	30	ug/kg	
120-12-7	Anthracene	8380	170	59	ug/kg	
1912-24-9	Atrazine	ND	840	33	ug/kg	
56-55-3	Benzo(a)anthracene	7900	170	55	ug/kg	
50-32-8	Benzo(a)pyrene	5780	170	51	ug/kg	
205-99-2	Benzo(b)fluoranthene	2630	170	56	ug/kg	
191-24-2	Benzo(g,h,i)perylene	3260	170	63	ug/kg	
207-08-9	Benzo(k)fluoranthene	2270	170	63	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	340	61	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	340	97	ug/kg	
92-52-4	1,1'-Biphenyl	456	340	20	ug/kg	
100-52-7	Benzaldehyde	ND	840	39	ug/kg	
91-58-7	2-Chloronaphthalene	ND	340	52	ug/kg	
106-47-8	4-Chloroaniline	ND	840	54	ug/kg	
86-74-8	Carbazole	ND	340	78	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-19/7'-8'		
Lab Sample ID:	JA85807-5	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	340	53	ug/kg	
218-01-9	Chrysene	8520	170	57	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	340	68	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	340	51	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	340	50	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	340	51	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	340	74	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	340	64	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	840	43	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1050	170	57	ug/kg	
132-64-9	Dibenzofuran	1090	340	50	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	340	37	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	340	82	ug/kg	
84-66-2	Diethyl phthalate	ND	340	57	ug/kg	
131-11-3	Dimethyl phthalate	ND	340	59	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	340	150	ug/kg	
206-44-0	Fluoranthene	10800	170	74	ug/kg	
86-73-7	Fluorene	2230	170	55	ug/kg	
118-74-1	Hexachlorobenzene	ND	340	55	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	47	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3400	170	ug/kg	
67-72-1	Hexachloroethane	ND	840	47	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2190	170	58	ug/kg	
78-59-1	Isophorone	ND	340	45	ug/kg	
91-57-6	2-Methylnaphthalene	ND	340	94	ug/kg	
88-74-4	2-Nitroaniline	ND	840	74	ug/kg	
99-09-2	3-Nitroaniline	ND	840	67	ug/kg	
100-01-6	4-Nitroaniline	ND	840	66	ug/kg	
91-20-3	Naphthalene	2630	170	46	ug/kg	
98-95-3	Nitrobenzene	ND	340	49	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	340	41	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	840	100	ug/kg	
85-01-8	Phenanthrene	22700 [b]	670	310	ug/kg	
129-00-0	Pyrene	20600 [b]	670	260	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	840	52	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	92%	54%	21-116%
4165-62-2	Phenol-d5	72%	43%	19-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-19/7'-8'		
Lab Sample ID:	JA85807-5	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	87%	81%	24-136%
4165-60-0	Nitrobenzene-d5	103%	26%	21-122%
321-60-8	2-Fluorobiphenyl	97%	66%	30-117%
1718-51-0	Terphenyl-d14	110%	75%	31-129%

(a) Diluted due to high concentration of target compound and matrix interference.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-19/7'-8'		
Lab Sample ID:	JA85807-5	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8081B SW846 3545A	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G67160.D	1	09/23/11	CT	09/12/11	OP51820	G1G2447
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.35	ug/kg	
319-84-6	alpha-BHC	ND	0.69	0.52	ug/kg	
319-85-7	beta-BHC	ND	0.69	0.49	ug/kg	
319-86-8	delta-BHC	ND	0.69	0.40	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.69	0.32	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.69	0.45	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.69	0.35	ug/kg	
60-57-1	Dieldrin	ND	0.69	0.54	ug/kg	
72-54-8	4,4'-DDD	ND	0.69	0.35	ug/kg	
72-55-9	4,4'-DDE	ND	0.69	0.41	ug/kg	
50-29-3	4,4'-DDT	ND	0.69	0.51	ug/kg	
72-20-8	Endrin	ND	0.69	0.35	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.66	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.34	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.46	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.42	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.69	0.34	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.49	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.45	ug/kg	
8001-35-2	Toxaphene	ND	17	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	231% [a]		23-137%
877-09-8	Tetrachloro-m-xylene	142% [a]		23-137%
2051-24-3	Decachlorobiphenyl	55%		22-160%
2051-24-3	Decachlorobiphenyl	260% [a]		22-160%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-19/7'-8'		
Lab Sample ID:	JA85807-5	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
Method:	SW846 8082A SW846 3545A	**Percent Solids:**	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF102116.D	1	09/15/11	CT	09/12/11	OP51821	GEF4309
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	470% [a]		22-141%
877-09-8	Tetrachloro-m-xylene	566% [a]		22-141%
2051-24-3	Decachlorobiphenyl	56%		18-163%
2051-24-3	Decachlorobiphenyl	38%		18-163%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-19/7'-8'		
Lab Sample ID:	JA85807-5	**Date Sampled:**	09/09/11
Matrix:	SO - Soil	**Date Received:**	09/09/11
		Percent Solids:	84.9
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4380	59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 2.4	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Arsenic	9.4	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Barium	44.2	24	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.24	0.24	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.59	0.59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Calcium	2270	590	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Chromium	12.2	1.2	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Cobalt	< 5.9	5.9	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Copper	45.8	2.9	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Iron	16600	59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Lead	86.1	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Magnesium	952	590	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Manganese	57.8	1.8	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.23	0.038	mg/kg	1	09/20/11	09/20/11	MP	SW846 7471B [1]	SW846 7471B [4]
Nickel	21.0	4.7	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Potassium	< 1200	1200	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Selenium	2.4	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.59	0.59	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 1200	1200	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.2	1.2	mg/kg	1	09/20/11	09/21/11	ND	SW846 6010C [3]	SW846 3050B [5]
Vanadium	17.2	5.9	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]
Zinc	53.5	2.4	mg/kg	1	09/20/11	09/20/11	ND	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA27113
(2) Instrument QC Batch: MA27116
(3) Instrument QC Batch: MA27122
(4) Prep QC Batch: MP60282
(5) Prep QC Batch: MP60285

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JA85807-6	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A97325.D	1	09/17/11	HSS	n/a	n/a	V3A4175
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	7.6	ug/l	
71-43-2	Benzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	4.0	0.24	ug/l	
74-83-9	Bromomethane	ND	2.0	0.31	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.19	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.21	ug/l	
74-87-3	Chloromethane	ND	1.0	0.22	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.29	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.22	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	72	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JA85807-6	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	3.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
79-20-9	Methyl Acetate	ND	5.0	2.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.18	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.21	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.35	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.27	ug/l	
	m,p-Xylene	ND	1.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		77-120%
17060-07-0	1,2-Dichloroethane-D4	78%		70-127%
2037-26-5	Toluene-D8	90%		79-120%
460-00-4	4-Bromofluorobenzene	85%		76-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JA85807-6	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E36405.D	1	09/17/11	KLS	09/13/11	OP51836	E3E1614
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.6	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	1.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	18	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	22	1.1	ug/l	
95-48-7	2-Methylphenol	ND	2.2	1.2	ug/l	
	3&4-Methylphenol	ND	2.2	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.7	ug/l	
100-02-7	4-Nitrophenol	ND	11	5.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.5	ug/l	
108-95-2	Phenol	ND	2.2	1.4	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.4	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.29	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.25	ug/l	
98-86-2	Acetophenone	ND	2.2	0.32	ug/l	
120-12-7	Anthracene	ND	1.1	0.32	ug/l	
1912-24-9	Atrazine	ND	5.6	0.54	ug/l	
100-52-7	Benzaldehyde	ND	5.6	3.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.25	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.25	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.51	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.36	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.32	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.34	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.59	ug/l	
86-74-8	Carbazole	ND	1.1	0.40	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JA85807-6	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.77	ug/l	
218-01-9	Chrysene	ND	1.1	0.32	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.34	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.2	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.2	0.51	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.40	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.42	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.34	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.31	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.65	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.35	ug/l	
86-73-7	Fluorene	ND	1.1	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	22	7.9	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.61	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.42	ug/l	
78-59-1	Isophorone	ND	2.2	0.30	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	1.8	ug/l	
91-20-3	Naphthalene	ND	1.1	0.29	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.47	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.34	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.34	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.32	ug/l	
129-00-0	Pyrene	ND	1.1	0.30	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		10-83%
4165-62-2	Phenol-d5	24%		10-74%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JA85807-6	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78%		24-148%
4165-60-0	Nitrobenzene-d5	75%		38-129%
321-60-8	2-Fluorobiphenyl	77%		42-117%
1718-51-0	Terphenyl-d14	103%		14-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JA85807-6	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5310	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Calcium	72400	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Copper	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Iron	6140	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Lead	7.3	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Magnesium	18200	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Manganese	593	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Sodium	87600	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 2.0	2.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Zinc	22.7	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Prep QC Batch: MP60272
(4) Prep QC Batch: MP60312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JA85807-6F	**Date Sampled:**	09/09/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Arsenic	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Barium	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Calcium	79300	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Copper	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Iron	< 100	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Lead	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Magnesium	19100	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Manganese	326	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Potassium	< 10000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Sodium	91500	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Thallium	< 2.0	2.0	ug/l	1	09/21/11	09/23/11	VC	SW846 6010C [3]	SW846 3010A [5]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Zinc	< 20	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Instrument QC Batch: MA27142
(4) Prep QC Batch: MP60272
(5) Prep QC Batch: MP60312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JA85807-7	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A97259.D	1	09/16/11	HSS	n/a	n/a	V3A4172
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	7.6	ug/l	
71-43-2	Benzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	4.0	0.24	ug/l	
74-83-9	Bromomethane	ND	2.0	0.31	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.19	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.21	ug/l	
74-87-3	Chloromethane	ND	1.0	0.22	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.29	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.22	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	72	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JA85807-7	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	3.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
79-20-9	Methyl Acetate	ND	5.0	2.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.6	1.0	0.18	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.21	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.35	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.27	ug/l	
	m,p-Xylene	ND	1.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		77-120%
17060-07-0	1,2-Dichloroethane-D4	84%		70-127%
2037-26-5	Toluene-D8	92%		79-120%
460-00-4	4-Bromofluorobenzene	89%		76-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JA85807-7	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E36406.D	1	09/17/11	KLS	09/13/11	OP51836	E3E1614
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.3	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	1.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	1.0	ug/l	
95-48-7	2-Methylphenol	ND	2.1	1.1	ug/l	
	3&4-Methylphenol	ND	2.1	0.97	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.6	ug/l	
100-02-7	4-Nitrophenol	ND	11	5.5	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.5	ug/l	
108-95-2	Phenol	ND	2.1	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	0.99	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	1.4	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.28	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.24	ug/l	
98-86-2	Acetophenone	ND	2.1	0.30	ug/l	
120-12-7	Anthracene	ND	1.1	0.30	ug/l	
1912-24-9	Atrazine	ND	5.3	0.51	ug/l	
100-52-7	Benzaldehyde	ND	5.3	3.4	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.24	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.54	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.38	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.30	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.32	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.56	ug/l	
86-74-8	Carbazole	ND	1.1	0.38	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JA85807-7	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.1	0.73	ug/l	
218-01-9	Chrysene	ND	1.1	0.30	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.32	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.48	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.33	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.1	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.1	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.38	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.40	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.32	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.34	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.30	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.62	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.33	ug/l	
86-73-7	Fluorene	ND	1.1	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.54	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	21	7.5	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.58	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.39	ug/l	
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.40	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	1.7	ug/l	
91-20-3	Naphthalene	ND	1.1	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.44	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.32	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.32	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.31	ug/l	
129-00-0	Pyrene	ND	1.1	0.28	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		10-83%
4165-62-2	Phenol-d5	24%		10-74%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JA85807-7	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	53%		24-148%
4165-60-0	Nitrobenzene-d5	79%		38-129%
321-60-8	2-Fluorobiphenyl	81%		42-117%
1718-51-0	Terphenyl-d14	98%		14-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JA85807-7	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1920	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	5.2	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Barium	411	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Calcium	156000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Copper	22.2	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Iron	4840	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Lead	120	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Magnesium	28700	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Manganese	4110	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Potassium	12300	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Sodium	157000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 2.0	2.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Zinc	105	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Prep QC Batch: MP60272
(4) Prep QC Batch: MP60312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JA85807-7F	**Date Sampled:**	09/09/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Arsenic	6.1	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Barium	410	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Calcium	170000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Copper	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Iron	2780	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Lead	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Magnesium	31000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Manganese	4290	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Potassium	14200	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Sodium	183000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Thallium	< 2.0	2.0	ug/l	1	09/21/11	09/23/11	VC	SW846 6010C [3]	SW846 3010A [5]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Zinc	< 20	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Instrument QC Batch: MA27142
(4) Prep QC Batch: MP60272
(5) Prep QC Batch: MP60312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JA85807-8	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A97260.D	1	09/16/11	HSS	n/a	n/a	V3A4172
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	7.6	ug/l	
71-43-2	Benzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	4.0	0.24	ug/l	
74-83-9	Bromomethane	ND	2.0	0.31	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.19	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.21	ug/l	
74-87-3	Chloromethane	ND	1.0	0.22	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.29	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.22	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	72	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JA85807-8	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	3.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
79-20-9	Methyl Acetate	ND	5.0	2.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.93	1.0	0.18	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.21	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.35	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.27	ug/l	
	m,p-Xylene	ND	1.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		77-120%
17060-07-0	1,2-Dichloroethane-D4	84%		70-127%
2037-26-5	Toluene-D8	92%		79-120%
460-00-4	4-Bromofluorobenzene	84%		76-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JA85807-8	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E36408.D	1	09/17/11	KLS	09/13/11	OP51836	E3E1614
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.6	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	1.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	18	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	22	1.1	ug/l	
95-48-7	2-Methylphenol	ND	2.2	1.2	ug/l	
	3&4-Methylphenol	ND	2.2	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.7	ug/l	
100-02-7	4-Nitrophenol	ND	11	5.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.5	ug/l	
108-95-2	Phenol	ND	2.2	1.4	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.4	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.29	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.25	ug/l	
98-86-2	Acetophenone	ND	2.2	0.32	ug/l	
120-12-7	Anthracene	ND	1.1	0.32	ug/l	
1912-24-9	Atrazine	ND	5.6	0.54	ug/l	
100-52-7	Benzaldehyde	ND	5.6	3.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.25	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.25	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.51	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.36	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.32	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.34	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.59	ug/l	
86-74-8	Carbazole	ND	1.1	0.40	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JA85807-8	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.77	ug/l	
218-01-9	Chrysene	ND	1.1	0.32	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.34	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.2	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.2	0.51	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.40	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.42	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.34	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.31	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.65	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.35	ug/l	
86-73-7	Fluorene	ND	1.1	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	22	7.9	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.61	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.42	ug/l	
78-59-1	Isophorone	ND	2.2	0.30	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	1.8	ug/l	
91-20-3	Naphthalene	ND	1.1	0.29	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.47	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.34	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.34	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.32	ug/l	
129-00-0	Pyrene	ND	1.1	0.30	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		10-83%
4165-62-2	Phenol-d5	25%		10-74%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JA85807-8	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	58%		24-148%
4165-60-0	Nitrobenzene-d5	75%		38-129%
321-60-8	2-Fluorobiphenyl	79%		42-117%
1718-51-0	Terphenyl-d14	99%		14-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JA85807-8	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	566	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Arsenic	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Barium	470	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Calcium	211000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Copper	21.4	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Iron	2130	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Lead	34.4	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Magnesium	63300	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Manganese	781	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Potassium	73800	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Sodium	952000	30000	ug/l	3	09/21/11	09/23/11	VC	SW846 6010C [3]	SW846 3010A [5]
Thallium	< 2.0	2.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Zinc	60.0	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Instrument QC Batch: MA27142
(4) Prep QC Batch: MP60272
(5) Prep QC Batch: MP60312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JA85807-8F	**Date Sampled:**	09/09/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Arsenic	5.5	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Barium	533	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Calcium	235000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Copper	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Iron	727	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Lead [a]	< 15	15	ug/l	5	09/21/11	09/23/11	VC	SW846 6010C [3]	SW846 3010A [5]
Magnesium	72200	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Manganese	850	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Mercury	< 0.20	0.20	ug/l	1	09/26/11	09/26/11	MP	SW846 7470A [4]	SW846 7470A [6]
Nickel [a]	< 10	10	ug/l	1	09/21/11	09/23/11	ND	SW846 6010C [2]	SW846 3010A [5]
Potassium	87900	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Sodium	1130000	50000	ug/l	5	09/21/11	09/23/11	VC	SW846 6010C [3]	SW846 3010A [5]
Thallium [a]	< 10	10	ug/l	5	09/21/11	09/23/11	VC	SW846 6010C [3]	SW846 3010A [5]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]
Zinc	< 20	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [1]	SW846 3010A [5]

(1) Instrument QC Batch: MA27135
(2) Instrument QC Batch: MA27139
(3) Instrument QC Batch: MA27142
(4) Instrument QC Batch: MA27149
(5) Prep QC Batch: MP60312
(6) Prep QC Batch: MP60402

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA85807-9	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A97261.D	1	09/16/11	HSS	n/a	n/a	V3A4172
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	7.6	ug/l	
71-43-2	Benzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	4.0	0.24	ug/l	
74-83-9	Bromomethane	ND	2.0	0.31	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.19	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.21	ug/l	
74-87-3	Chloromethane	ND	1.0	0.22	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.29	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.71	1.0	0.22	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.22	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	72	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA85807-9	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	3.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
79-20-9	Methyl Acetate	ND	5.0	2.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.18	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.21	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.35	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.27	ug/l	
	m,p-Xylene	ND	1.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		77-120%
17060-07-0	1,2-Dichloroethane-D4	86%		70-127%
2037-26-5	Toluene-D8	91%		79-120%
460-00-4	4-Bromofluorobenzene	88%		76-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA85807-9	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E36409.D	1	09/17/11	KLS	09/13/11	OP51836	E3E1614
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.6	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	1.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	18	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	22	1.1	ug/l	
95-48-7	2-Methylphenol	ND	2.2	1.2	ug/l	
	3&4-Methylphenol	ND	2.2	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.7	ug/l	
100-02-7	4-Nitrophenol	ND	11	5.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.5	ug/l	
108-95-2	Phenol	ND	2.2	1.4	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.4	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.29	ug/l	
208-96-8	Acenaphthylene	2.9	1.1	0.25	ug/l	
98-86-2	Acetophenone	ND	2.2	0.32	ug/l	
120-12-7	Anthracene	0.82	1.1	0.32	ug/l	J
1912-24-9	Atrazine	ND	5.6	0.54	ug/l	
100-52-7	Benzaldehyde	ND	5.6	3.6	ug/l	
56-55-3	Benzo(a)anthracene	1.7	1.1	0.25	ug/l	
50-32-8	Benzo(a)pyrene	5.0	1.1	0.25	ug/l	
205-99-2	Benzo(b)fluoranthene	2.8	1.1	0.51	ug/l	
191-24-2	Benzo(g,h,i)perylene	3.0	1.1	0.36	ug/l	
207-08-9	Benzo(k)fluoranthene	2.1	1.1	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.32	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.34	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.59	ug/l	
86-74-8	Carbazole	ND	1.1	0.40	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA85807-9	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.77	ug/l	
218-01-9	Chrysene	2.3	1.1	0.32	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.34	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.2	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.2	0.51	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.40	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.65	1.1	0.42	ug/l	J
132-64-9	Dibenzofuran	ND	5.6	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.34	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.31	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.65	ug/l	
206-44-0	Fluoranthene	6.3	1.1	0.35	ug/l	
86-73-7	Fluorene	ND	1.1	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	22	7.9	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.61	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	1.8	1.1	0.42	ug/l	
78-59-1	Isophorone	ND	2.2	0.30	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	1.8	ug/l	
91-20-3	Naphthalene	0.56	1.1	0.29	ug/l	J
98-95-3	Nitrobenzene	ND	2.2	0.47	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.34	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.34	ug/l	
85-01-8	Phenanthrene	0.52	1.1	0.32	ug/l	J
129-00-0	Pyrene	10.6	1.1	0.30	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		10-83%
4165-62-2	Phenol-d5	36%		10-74%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA85807-9	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82%		24-148%
4165-60-0	Nitrobenzene-d5	81%		38-129%
321-60-8	2-Fluorobiphenyl	85%		42-117%
1718-51-0	Terphenyl-d14	102%		14-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA85807-9	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2360	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	4.9	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Calcium	128000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Copper	47.1	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Iron	8430	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Lead [a]	89.7	15	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Magnesium	225000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Manganese	105	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [3]
Nickel [a]	< 50	50	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Potassium	100000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Sodium	1930000	50000	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Thallium [a]	< 10	10	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Zinc	113	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Prep QC Batch: MP60272
(4) Prep QC Batch: MP60312

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA85807-9F	**Date Sampled:**	09/09/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Antimony [a]	< 30	30	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Arsenic [a]	< 15	15	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Barium [a]	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Beryllium [a]	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cadmium [a]	< 15	15	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Calcium [a]	146000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Chromium [a]	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cobalt [a]	< 250	250	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Copper [a]	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Iron [a]	1260	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Lead [a]	< 15	15	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Magnesium [a]	254000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Manganese [a]	706	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [3]
Nickel [a]	< 50	50	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Potassium [a]	109000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Selenium [a]	< 50	50	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Silver [a]	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Sodium	2160000	50000	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Thallium [a]	< 10	10	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Vanadium [a]	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Zinc [a]	< 100	100	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Prep QC Batch: MP60272
(4) Prep QC Batch: MP60312

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP2-090911		
Lab Sample ID:	JA85807-10	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A97326.D	1	09/17/11	HSS	n/a	n/a	V3A4175
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	7.6	ug/l	
71-43-2	Benzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	4.0	0.24	ug/l	
74-83-9	Bromomethane	ND	2.0	0.31	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.19	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.21	ug/l	
74-87-3	Chloromethane	ND	1.0	0.22	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.29	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.67	1.0	0.22	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.22	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	72	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP2-090911		
Lab Sample ID:	JA85807-10	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	3.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
79-20-9	Methyl Acetate	ND	5.0	2.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.18	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.21	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.35	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.27	ug/l	
	m,p-Xylene	ND	1.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		77-120%
17060-07-0	1,2-Dichloroethane-D4	76%		70-127%
2037-26-5	Toluene-D8	90%		79-120%
460-00-4	4-Bromofluorobenzene	84%		76-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP2-090911		
Lab Sample ID:	JA85807-10	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E36410.D	1	09/17/11	KLS	09/13/11	OP51836	E3E1614
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.26	ug/l	
208-96-8	Acenaphthylene	2.7	1.0	0.23	ug/l	
98-86-2	Acetophenone	0.51	2.0	0.29	ug/l	J
120-12-7	Anthracene	0.70	1.0	0.29	ug/l	J
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
56-55-3	Benzo(a)anthracene	1.2	1.0	0.23	ug/l	
50-32-8	Benzo(a)pyrene	3.6	1.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	2.0	1.0	0.46	ug/l	
191-24-2	Benzo(g,h,i)perylene	3.0	1.0	0.32	ug/l	
207-08-9	Benzo(k)fluoranthene	1.6	1.0	0.51	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP2-090911		
Lab Sample ID:	JA85807-10	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
218-01-9	Chrysene	1.6	1.0	0.29	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.36	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.56	1.0	0.38	ug/l	J
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	14.2	2.0	0.59	ug/l	
206-44-0	Fluoranthene	4.5	1.0	0.32	ug/l	
86-73-7	Fluorene	ND	1.0	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	1.6	1.0	0.37	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
91-20-3	Naphthalene	0.48	1.0	0.26	ug/l	J
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
85-01-8	Phenanthrene	0.43	1.0	0.29	ug/l	J
129-00-0	Pyrene	7.6	1.0	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		10-83%
4165-62-2	Phenol-d5	39%		10-74%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP2-090911		
Lab Sample ID:	JA85807-10	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	89%		24-148%
4165-60-0	Nitrobenzene-d5	83%		38-129%
321-60-8	2-Fluorobiphenyl	84%		42-117%
1718-51-0	Terphenyl-d14	99%		14-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP2-090911		
Lab Sample ID:	JA85807-10	**Date Sampled:**	09/09/11
Matrix:	AQ - Ground Water	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1160	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Calcium	127000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Copper	29.0	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Iron	4320	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Lead	38.8	15	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Magnesium	224000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Manganese	86.0	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 50	50	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Potassium	98500	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Sodium	1940000	50000	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Zinc	56.9	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Prep QC Batch: MP60272
(4) Prep QC Batch: MP60312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP2-090911		
Lab Sample ID:	JA85807-10F	**Date Sampled:**	09/09/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	3.2	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Calcium	145000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Copper	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Iron	1040	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Lead [a]	< 15	15	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Magnesium	252000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Manganese	372	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [3]
Nickel [a]	< 50	50	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Potassium	109000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Sodium	2060000	50000	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Thallium [a]	< 10	10	ug/l	5	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Prep QC Batch: MP60272
(4) Prep QC Batch: MP60312

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FB-090911		
Lab Sample ID:	JA85807-11	**Date Sampled:**	09/09/11
Matrix:	AQ - Field Blank Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E36407.D	1	09/17/11	KLS	09/13/11	OP51836	E3E1614
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.26	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.23	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
120-12-7	Anthracene	ND	1.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.46	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.32	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.51	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-090911		
Lab Sample ID:	JA85807-11	**Date Sampled:**	09/09/11
Matrix:	AQ - Field Blank Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
218-01-9	Chrysene	ND	1.0	0.29	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.36	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.38	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.32	ug/l	
86-73-7	Fluorene	ND	1.0	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.37	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	1.0	0.26	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.29	ug/l	
129-00-0	Pyrene	ND	1.0	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		10-83%
4165-62-2	Phenol-d5	27%		10-74%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-090911		
Lab Sample ID:	JA85807-11	**Date Sampled:**	09/09/11
Matrix:	AQ - Field Blank Water	**Date Received:**	09/09/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	90%		24-148%
4165-60-0	Nitrobenzene-d5	90%		38-129%
321-60-8	2-Fluorobiphenyl	90%		42-117%
1718-51-0	Terphenyl-d14	108%		14-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-090911		
Lab Sample ID:	JA85807-11	**Date Sampled:**	09/09/11
Matrix:	AQ - Field Blank Water	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Arsenic	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Calcium	< 5000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Copper	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Iron	< 100	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Lead	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Magnesium	< 5000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Manganese	< 15	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Sodium	< 10000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 2.0	2.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Prep QC Batch: MP60273
(4) Prep QC Batch: MP60312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FB-090911		
Lab Sample ID:	JA85807-11F	**Date Sampled:**	09/09/11
Matrix:	AQ - Field Blank Filtered	**Date Received:**	09/09/11
		Percent Solids:	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Antimony	< 6.0	6.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Arsenic	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Barium	< 200	200	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Beryllium	< 1.0	1.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Cadmium	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Calcium	< 5000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Chromium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Cobalt	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Copper	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Iron	< 100	100	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Lead	< 3.0	3.0	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Magnesium	< 5000	5000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Manganese	< 15	15	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Mercury	< 0.20	0.20	ug/l	1	09/19/11	09/19/11	VK	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Potassium	< 10000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Selenium	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Silver	< 10	10	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Sodium	< 10000	10000	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Thallium	< 2.0	2.0	ug/l	1	09/21/11	09/23/11	VC	SW846 6010C [3]	SW846 3010A [5]
Vanadium	< 50	50	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]
Zinc	< 20	20	ug/l	1	09/21/11	09/22/11	BL	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA27111
(2) Instrument QC Batch: MA27135
(3) Instrument QC Batch: MA27142
(4) Prep QC Batch: MP60273
(5) Prep QC Batch: MP60312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JA85807-12	**Date Sampled:**	09/09/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A97324.D	1	09/17/11	HSS	n/a	n/a	V3A4175
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	7.6	ug/l	
71-43-2	Benzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	4.0	0.24	ug/l	
74-83-9	Bromomethane	ND	2.0	0.31	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.19	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.21	ug/l	
74-87-3	Chloromethane	ND	1.0	0.22	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.29	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.22	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	72	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JA85807-12	**Date Sampled:**	09/09/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Devon Self Storage, 3131 Richmond Terminal, Staten Island, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	3.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
79-20-9	Methyl Acetate	ND	5.0	2.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.18	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.18	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.21	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.35	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.27	ug/l	
	m,p-Xylene	ND	1.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		77-120%
17060-07-0	1,2-Dichloroethane-D4	73%		70-127%
2037-26-5	Toluene-D8	90%		79-120%
460-00-4	4-Bromofluorobenzene	86%		76-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.acutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JA85807

Client / Reporting Information

Company Name: Roux Associates
Street Address: 209 Shafter St.
City / State / Zip: Islandia NY 11749
Project Contact: Josh Levine
E-mail: jlevine@roux.com
Phone #: 6312322600
Fax #:
Sampler(s) Name(s): C. Lombardone, C. Bruder
Phone #:

Project Information

Project Name: Devon Self Storage
Street: 3131 Richmond Terrace
City / State: Staten Island NY
Project #: 2077-0001/000
Client Purchase Order #:
Project Manager: Josh Levine

Billing Information (if different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MECH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MECH	ENCORE	Metals (TAL list)	SVOCs (TCL list)	VOCs (TCL list)	Pest/PCB (TCL list)	total metals (TAL)	dissolved metals (TAL)						LAB USE ONLY
1	B-20/MW-4/5'-7'		9/8/11	1600	So	3						3				X	X	X	X								EX71
2	DUP-090811		9/8/11	1610	So	3						3				X	X	X	X								AMET6
3	B-18/7'-9'		9/9/11	1200	So	3						3				X	X	X	X								974
4	B-21/12'-14'			1345	So	3						3				X	X	X	X								EX38
5	B-19/7'-8'			1020	So	3						3				X	X	X	X								1955
6F	MW-1			1255	Aq	7		3		2		2					X	X		X	X						90123
7F	MW-2			1140	Aq	7		3		2		2					X	X		X	X						
8F	MW-3			1000	Aq	7		3		2		2					X	X		X	X						
9F	MW-4			1530	Aq	7		3		2		2					X	X		X	X						
10F	DUP2-090911			1540	Aq	7		3		2		2					X	X		X	X						
11F	FB-090911			1400	Aq	7		3		2		2				X	X	X		X	X						
12	Trip Blank			700	Aq	2		2										X									

Turnaround Time (Business days)

- [x] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Filters 9-6-11 1100

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	1630 / 9/9/11	1 Chris Lam	2 Chris Lam	1730 9/9/11	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable

On Ice: [x]
Cooler Temp: 4°C, 6°C

ACCUTEST.

Sample Log-In Summary

JA85807 COC

Lab Name: ACCUTEST Page 1 of 1

Received by (Print Name): M CATENA Log-in Date: 9/9/11
Received by (Signature): M Catena

Case Number: N/A
SDG Number:
SAS Number: N/A

REMARKS:

1. Custody Seal(s): Present/Absent* (Absent circled); Intact/Broken
2. Custody Seal Numbers: NONE
3. Chain-of-Custody Records: Present/Absent* (Present circled)
4. Contract Lab Sample Inform. Sheet (CLSIS): Present/Absent* N/A
5. Airbill: Airbill/Sticker N/A; Present/Absent*
6. Airbill No.: N/A
7. Sample Tags, Sample Tag Nos.: Present/Absent* N/A; Listed/Not Listed on Chain-of-Custody N/A
8. Sample Condition: Intact/Broken*/Leaking (Intact circled)
9. Does Information on custody rec., CLSIS, & sample tags agree: COC + LABELS AGREE; Yes/No* (Yes circled)
10. Date received at Lab: 9/9/11
11. Time Received: 1730
12. Do aqueous VOC vials have headspace? Yes/No* (No circled)
13. Are preserved voc soil samples fully immersed in preservative? Yes/No* N/A (N/A circled)

NYSDEC SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
N/A		JA85807-	1 OK
N/A		-	2
N/A		-	3
N/A		-	4
N/A		-	5
N/A		-	6
N/A		-	7
N/A		-	8
N/A		-	9
N/A		-	10
N/A		-	11 FB NO VO
N/A		-	12 TB OK
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			

Sample Transfer

Fraction:
Area #:
By:
On:

See Internal Chain of Custody

* Contract BTSR and attach record of resolution

Reviewed By:
Date:

Logbook No.: N/A
Logbook Page No.: N/A

Form: SM10-02
Rev. Date: 8/21/03

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA85807 **Client:** ROUX-NY **Immediate Client Services Action Required:** Yes

Date / Time Received: 9/9/2011 1730 **Delivery Method:** Accutest Courier **Client Service Action Required at Login:** No

Project: DEVON **No. Coolers:** **Airbill #'s:**

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☐	☑	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:		

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☐	☑
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

-11 NO VO VOL REC'D

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JA85807: Chain of Custody
Page 3 of 4

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JA85807

CSR: Kristin B **Response Date** 9/12/2011

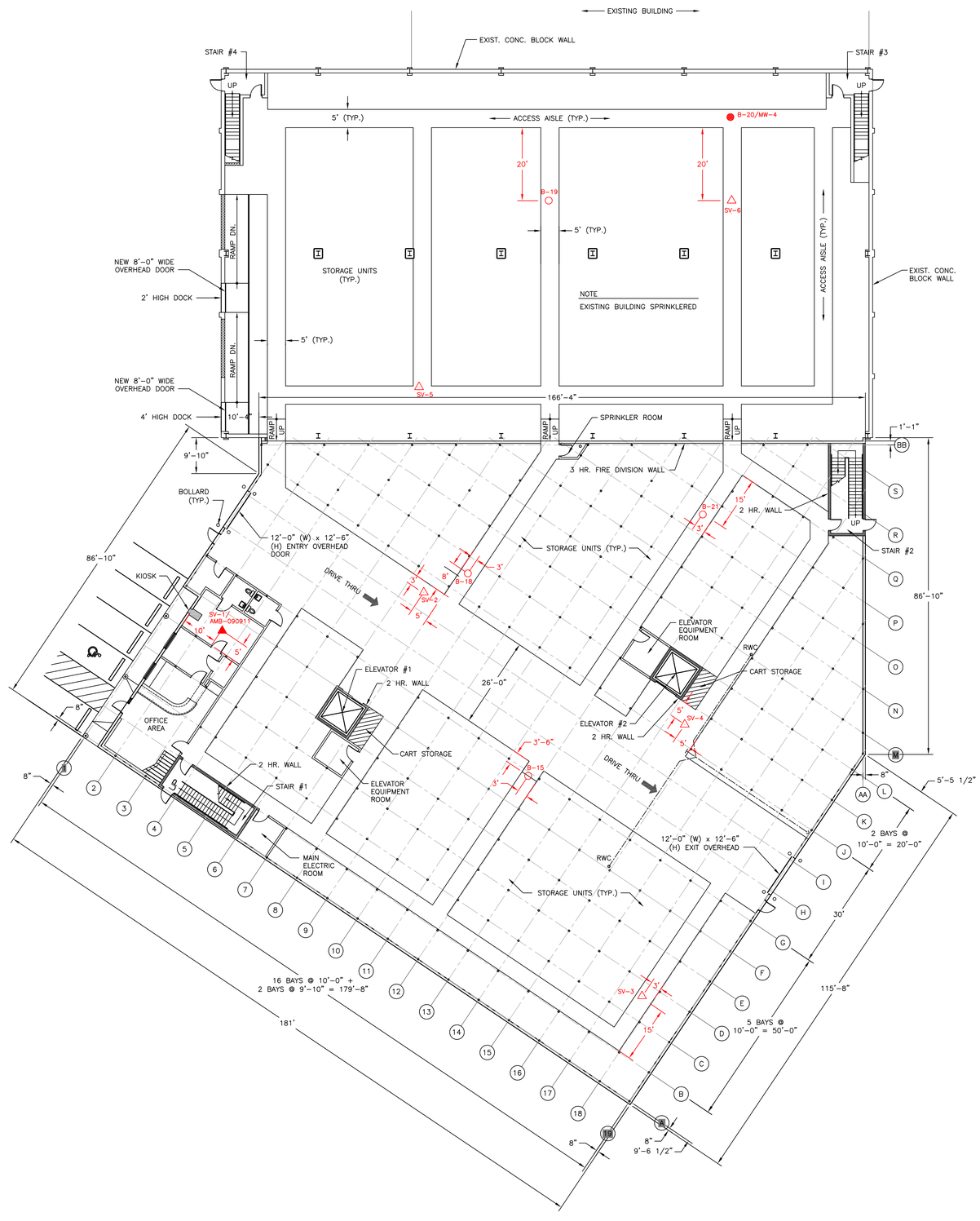
Response: -11 OK to proceed without VOC analysis, per Josh Levine.

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JA85807: Chain of Custody
Page 4 of 4



LEGEND

B-21 ○	SOIL BORING LOCATION
B-20 ●	COMBINED SOIL BORING AND MONITORING WELL LOCATION
SV-4 △	SOIL VAPOR SAMPLE LOCATION
SV-1 ▲	INDOOR AIR SAMPLE LOCATION

SOURCE

RM ARCHITECTURE, INC., DRAWING A-1 (APPENDIX A)

Title:

INTERIOR FIRST FLOOR PLAN WITH RI SAMPLE LOCATIONS

DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK 1303

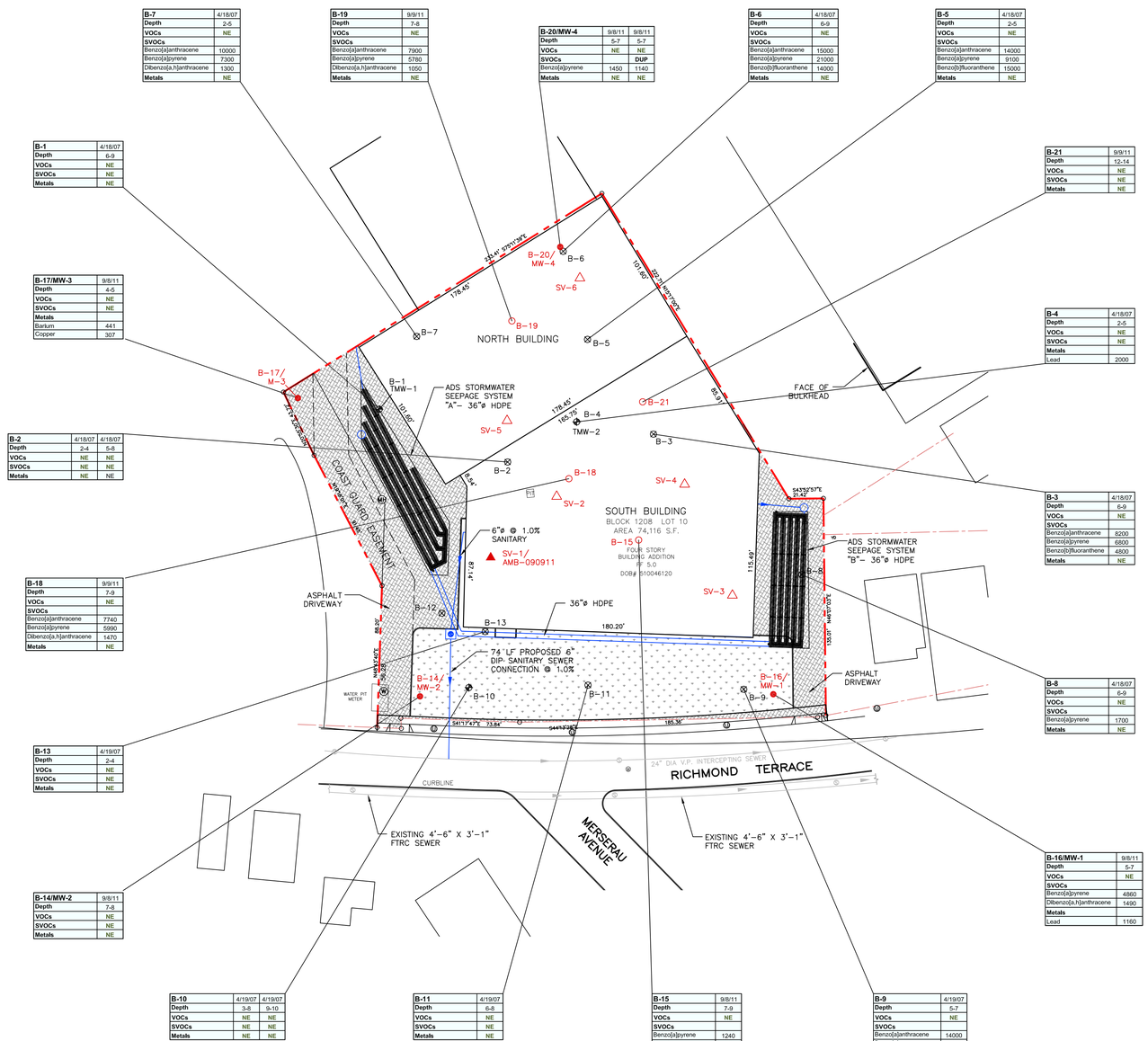
Prepared For:

DEVON SELF STORAGE HOLDINGS, LLC

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting and Management

Compiled by: J.L.	Date: 08MAR12	PLATE
Prepared by: J.A.D.	Scale: 1/16"=1'-0"	1
Project Mgr: J.L.	Project: 2077.0001Y000	
File: 2077.0001Y102.03.DWG		

V:\CAD\PROJECTS\2077\Y0001Y\102\2077.0001Y102.03.DWG



B-7	4/18/07
Depth	2-5
VOCs	NE
SVOCs	
Benzo[a]anthracene	10000
Benzo[a]pyrene	7300
Dibenzo[a,h]anthracene	1300
Metals	NE

B-19	9/9/11
Depth	7-8
VOCs	NE
SVOCs	
Benzo[a]anthracene	7900
Benzo[a]pyrene	5780
Dibenzo[a,h]anthracene	1050
Metals	NE

B-20/MW-4	9/8/11	9/8/11
Depth	5-7	5-7
VOCs	NE	NE
SVOCs		DUP
Benzo[a]pyrene	1450	1140
Metals	NE	NE

B-6	4/18/07
Depth	6-9
VOCs	NE
SVOCs	
Benzo[a]anthracene	15000
Benzo[a]pyrene	21000
Benzo[b]fluoranthene	14000
Metals	NE

B-5	4/18/07
Depth	2-5
VOCs	NE
SVOCs	
Benzo[a]anthracene	14000
Benzo[a]pyrene	9100
Benzo[b]fluoranthene	15000
Metals	NE

B-1	4/18/07
Depth	6-9
VOCs	NE
SVOCs	NE
Metals	NE

B-21	9/9/11
Depth	12-14
VOCs	NE
SVOCs	NE
Metals	NE

B-17/MW-3	9/9/11
Depth	4-5
VOCs	NE
SVOCs	NE
Metals	
Barium	441
Copper	307

B-4	4/18/07
Depth	2-5
VOCs	NE
SVOCs	NE
Metals	
Lead	2000

B-2	4/18/07	4/18/07
Depth	2-4	5-8
VOCs	NE	NE
SVOCs	NE	NE
Metals	NE	NE

B-3	4/18/07
Depth	6-9
VOCs	NE
SVOCs	
Benzo[a]anthracene	8200
Benzo[a]pyrene	6800
Benzo[b]fluoranthene	4800
Metals	NE

B-18	9/9/11
Depth	7-9
VOCs	NE
SVOCs	
Benzo[a]anthracene	7740
Benzo[a]pyrene	5990
Dibenzo[a,h]anthracene	1470
Metals	NE

B-8	4/18/07
Depth	6-9
VOCs	NE
SVOCs	
Benzo[a]pyrene	1700
Metals	NE

B-13	4/19/07
Depth	2-4
VOCs	NE
SVOCs	NE
Metals	NE

B-16/MW-1	9/8/11
Depth	5-7
VOCs	NE
SVOCs	
Benzo[a]pyrene	4860
Dibenzo[a,h]anthracene	1490
Metals	
Lead	1160

B-14/MW-2	9/8/11
Depth	7-8
VOCs	NE
SVOCs	NE
Metals	NE

B-10	4/19/07	4/19/07
Depth	3-8	9-10
VOCs	NE	NE
SVOCs	NE	NE
Metals	NE	NE

B-11	4/19/07
Depth	6-8
VOCs	NE
SVOCs	NE
Metals	NE

B-15	9/8/11
Depth	7-9
VOCs	NE
SVOCs	
Benzo[a]pyrene	1240
Metals	NE

B-9	4/19/07
Depth	5-7
VOCs	NE
SVOCs	
Benzo[a]anthracene	14000
Benzo[a]pyrene	14000
Benzo[b]fluoranthene	17000
Indeno[1,2,3-cd]pyrene	9200
Metals	
Lead	2900

LEGEND

- SUBJECT PROPERTY BOUNDARY
- PHASE 2 SOIL BORING LOCATION
- PHASE 2 SOIL BORING LOCATION CONVERTED TO TEMPORARY MONITORING WELL
- RI COMBINED SOIL BORING/MONITORING WELL (4)
- RI SOIL BORING (SOIL SAMPLE ONLY) (5)
- RI SOIL VAPOR SAMPLE (5)
- RI SOIL VAPOR SAMPLE WITH INDOOR AIR SAMPLE (1)
- LANDSCAPED AREA
- PAVED AREA

Parameter	Standards* (µg/kg)
VOCs	NE
SVOCs	
Benzo[a]anthracene	5600
Benzo[a]pyrene	1000
Dibenzo[a,h]anthracene	560
Parameter	Standards* (mg/kg)
Metals	
Barium	400
Copper	270
Lead	1000

Concentrations in µg/kg for VOCs and SVOCs
Concentrations in mg/kg for Metals
*NYSDEC Part 375 Restricted Commercial Standards
µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
NYSDEC - New York State Department of Environmental Conservation
- - Not detected above NYSDEC Part 375 Restricted Commercial Standards
J - Estimated value
DUP - Duplicate Sample
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
NE - No exceedance
SCOs - Soil Cleanup Objectives

TYPICAL DATABOX CONFIGURATION

SAMPLE DESIGNATION
SAMPLE DATE

B-16/MW-1	9/8/11
Depth	5-7
VOCs	NE
SVOCs	
Benzo[a]pyrene	4860
Dibenzo[a,h]anthracene	1490
Metals	
Lead	1160

SAMPLE DEPTH (FEET)
NO EXCEEDANCES OF PART 375 RESTRICTED COMMERCIAL SCOs
CONCENTRATION (µg/kg)
CONCENTRATION (mg/kg)

SOURCE

STANTEC CONSULTANT SERVICES INC.
SITE DRAINAGE PLAN SDP–1

40' 0 40'

Title: **SOIL SAMPLE RESULTS IN EXCESS OF PART 375 RESTRICTED COMMERCIAL SCOs SEPTEMBER 8-9, 2011**

DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK 1303

Prepared For:
DEVON SELF STORAGE HOLDINGS, LLC

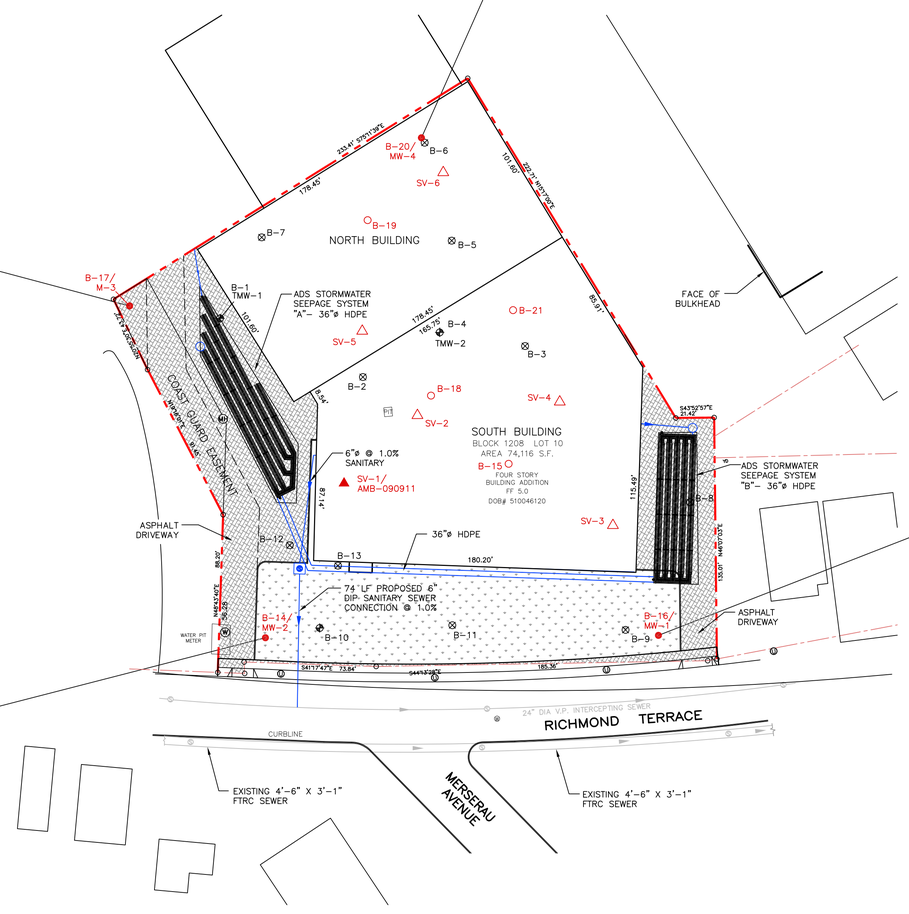
ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting and Management

Compiled by: J.L.	Date: 08MAR12	PLATE
Prepared by: J.A.D.	Scale: AS SHOWN	2
Project Mgr: J.L.	Project: 2077.0001Y000	
File: 2077.0001Y102.04.DWG		

V:\CAD\PROJECTS\2077X\0001Y\102\2077.0001Y102.04.DWG

MW-4	9/9/11	9/9/11	9/9/2011 DUP	9/9/2011 DUP
VOCs	NE		NE	
SVOCs				
Benzo[a]anthracene	1.7		1.2	
Benzo[a]pyrene	5		3.6	
Benzo[b]fluoranthene	2.8		2	
Benzo[k]fluoranthene	2.1		1.6	
Bis(2-ethylhexyl) phthalate	ND		14.2	
Chrysene	2.3		1.6	
Indeno[1,2,3-cd]pyrene	1.8		1.6	
Metals	Unfiltered	Filtered	Unfiltered	Filtered
Lead	89.7	ND	38.8	ND
Manganese	NE	706	NE	372
Sodium	1930000	2160000	1940000	2060000

MW-3	9/9/11	9/9/11
VOCs	NE	
SVOCs	NE	
Metals	Unfiltered	Filtered
Lead	34.4	ND
Manganese	781	850
Sodium	952000	1130000



MW-1	9/9/11	9/9/11
VOCs	NE	
SVOCs	NE	
Metals	Unfiltered	Filtered
Manganese	593	326
Sodium	87600	91500

MW-2	9/9/11	9/9/11
VOCs	NE	
SVOCs	NE	
Metals	Unfiltered	Filtered
Lead	120	ND
Manganese	4110	4290
Sodium	157000	183000

LEGEND

- SUBJECT PROPERTY BOUNDARY
- PHASE 2 SOIL BORING LOCATION
- PHASE 2 SOIL BORING LOCATION CONVERTED TO TEMPORARY MONITORING WELL
- RI COMBINED SOIL BORING/MONITORING WELL (4)
- RI SOIL BORING (SOIL SAMPLE ONLY) (5)
- RI SOIL VAPOR SAMPLE (5)
- RI SOIL VAPOR SAMPLE WITH INDOOR AIR SAMPLE (1)
- LANDSCAPED AREA
- PAVED AREA

Parameter (Concentrations in µg/L)	Standards* (µg/L)
VOCs	NE
SVOCs	
Benzo[a]anthracene	0.0020
Benzo[a]pyrene	0.0000
Benzo[b]fluoranthene	0.0020
Benzo[k]fluoranthene	0.0020
Bis(2-ethylhexyl) phthalate	5.0000
Chrysene	0.0020
Indeno[1,2,3-cd]pyrene	0.0020
Metals	
Lead	25
Manganese	300
Sodium	20000

Concentrations in µg/L

*NYSDEC AWQSGVs

µg/L - Micrograms per liter

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

- - Not detected above NYSDEC AWQSGV

DUP - Duplicate Sample

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

NE - No exceedances

NA - Not analyzed by laboratory

TYPICAL DATABOX CONFIGURATION

SAMPLE DESIGNATION

SAMPLE DATE

MW-1	9/9/11
VOCs	NE
SVOCs	NE
Metals	Unfiltered
Manganese	593
Sodium	87600

NO EXCEEDANCES OF AWQSGVs

CONCENTRATION (µg/L)

SOURCE

STANTEC CONSULTANT SERVICES INC.
SITE DRAINAGE PLAN SDP-1

40' 0 40'

Title: **GROUNDWATER SAMPLE RESULTS IN EXCESS OF AWQSGVs SEPTEMBER 9, 2011**

DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK 1303

Prepared For:

DEVON SELF STORAGE HOLDINGS, LLC

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting and Management

Compiled by: J.L.	Date: 08MAR12	PLATE
Prepared by: J.A.D.	Scale: AS SHOWN	3
Project Mgr: J.L.	Project: 2077.0001Y000	
File: 2077.0001Y102.04.DWG		

V:\CAD\PROJECTS\2077\Y0001Y\102\2077.0001Y102.04.DWG

SV-5	9/9/11
VOCs	
2-Butanone (MEK)	22
Acetone	500
Butane	19
Carbon disulfide	170
Carbon tetrachloride	160
Chloroform	1400
Ethylbenzene	10
m+p-Xylene	31
MTBE	8.1
n-Hexane	7.9
o-Xylene	15
Tetrachloroethene	120
Toluene	43
Trichloroethene	880
Xylenes (total)	46

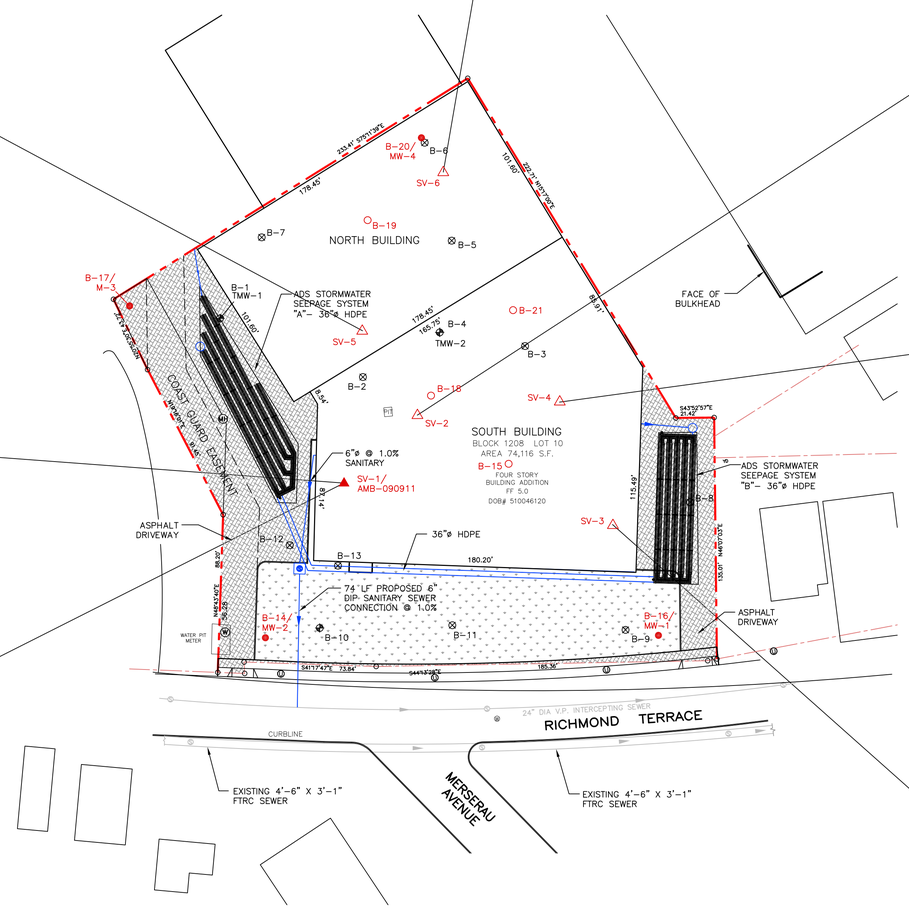
SV-6	9/9/11
VOCs	
1,2,4-Trimethylbenzene	32
1,3,5-Trimethylbenzene	25
2-Butanone (MEK)	56
Acetone	1100
Butane	26
Carbon disulfide	250
Chloroform	35
Ethylbenzene	19
Isopropylbenzene	14
m+p-Xylene	61
n-Hexane	9.9
o-Xylene	33
Tetrachloroethene	160
Toluene	44
Xylenes (total)	94

SV-2	9/9/11
VOCs	
2-Butanone (MEK)	94
Acetone	1400
Butane	40
Carbon disulfide	230
Carbon tetrachloride	4300
Chloroform	4300
Tetrachloroethene	83
Trichloroethene	2100
Trichlorofluoromethane	45
Xylenes (total)	36

SV-1	9/9/11
VOCs	
2-Butanone (MEK)	38
Acetone	500
Carbon disulfide	22
Carbon tetrachloride	16
Chloroform	34
Tetrachloroethene	13
Toluene	14
Trichloroethene	60
Xylenes (total)	23

SV-4	9/9/11
VOCs	
2-Butanone (MEK)	67
Acetone	1100
Carbon disulfide	210
Chloroform	29
n-Hexane	12
Toluene	41
Trichloroethene	23
Xylenes (total)	22

INDOOR AIR SAMPLE	
AMB-090911	9/9/11
VOCs	
1,2,4-Trimethylbenzene	1.6
1,2-Dichloropropane	1.7
2-Butanone (MEK)	2.3
4-Methyl-2-pentanone (MIBK)	3.6
Acetone	29
Benzene	1.1
Butane	2.8
Carbon disulfide	3
Chlorodifluoromethane	2.6
Chloromethane	1.8
Cyclohexane	1
Dichlorodifluoromethane	3.7
Ethylbenzene	1.4
Isooctane	1.4
Isopropyl alcohol	20
m+p-Xylene	4.2
Methylene chloride	1.7
n-Heptane	1.6
n-Hexane	2.2
o-Xylene	1.6
Toluene	23
Trichlorofluoromethane	1.6
Xylenes (total)	5.7



SV-3	9/9/11
VOCs	
1,2,4-Trimethylbenzene	10
2-Butanone (MEK)	40
Acetone	870
Carbon disulfide	130
Carbon tetrachloride	19
Chloroform	120
m+p-Xylene	23
o-Xylene	9.6
Tetrachloroethene	68
Toluene	17
Trichloroethene	33
Trichlorofluoromethane	140
Xylenes (total)	33

LEGEND

- SUBJECT PROPERTY BOUNDARY
- PHASE 2 SOIL BORING LOCATION
- PHASE 2 SOIL BORING LOCATION CONVERTED TO TEMPORARY MONITORING WELL
- RI COMBINED SOIL BORING/MONITORING WELL (4)
- RI SOIL BORING (SOIL SAMPLE ONLY) (5)
- RI SOIL VAPOR SAMPLE (5)
- RI SOIL VAPOR SAMPLE WITH INDOOR AIR SAMPLE (1)
- LANDSCAPED AREA
- PAVED AREA

Parameter (Concentrations in µg/L)	Standards* (µg/L)
VOCs	NE
SVOCs	
Benzo[a]anthracene	0.0020
Benzo[a]pyrene	0.0000
Benzo[b]fluoranthene	0.0020
Benzo[k]fluoranthene	0.0020
Bis(2-ethylhexyl) phthalate	5.0000
Chrysene	0.0020
Indeno[1,2,3-cd]pyrene	0.0020
Metals	
Lead	25
Manganese	300
Sodium	20000

Concentrations in µg/m³

µg/m³ - Micrograms per cubic meter

VOCs - Volatile Organic Compounds

TYPICAL DATABOX CONFIGURATION

SAMPLE DESIGNATION

SAMPLE DATE

SV-4	9/9/11
VOCs	
2-Butanone (MEK)	67
Acetone	1100
Carbon disulfide	210
Chloroform	29
n-Hexane	12
Toluene	41
Trichloroethene	23
Xylenes (total)	22

CONCENTRATION (µg/m³)

NOTES

1. SUB–SLAB SOIL VAPOR SAMPLES SV–1 THROUGH SV–6 WERE COLLECTED FROM BELOW 18 INCHES OF TOP OF SLAB.
2. INDOOR AIR SAMPLE AMB–090911 WAS COLLECTED FROM INTERIOR OFFICE SPACE IN SAME ROOM AS SOIL VAPOR SAMPLE SV–1.

SOURCE

STANTEC CONSULTANT SERVICES INC. SITE DRAINAGE PLAN SDP–1

40' 0 40'

Title: **SUB-SLAB SOIL VAPOR AND INDOOR AIR SAMPLE DETECTIONS SEPTEMBER 9, 2011**

DEVON #87 STATEN ISLAND
3131 RICHMOND TERRACE
STATEN ISLAND, NEW YORK 1303

Prepared For:
DEVON SELF STORAGE HOLDINGS, LLC

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting and Management

Compiled by: J.L.	Date: 08MAR12	PLATE
Prepared by: J.A.D.	Scale: AS SHOWN	4
Project Mgr: J.L.	Project: 2077.0001Y000	
File: 2077.0001Y102.04.DWG		

V:\CAD\PROJECTS\2077\0001\102\2077.0001Y102.04.DWG