566 CARROLL STREET

BROOKLYN, NEW YORK

Remedial Action Report

NYC VCP Number: 14CVCP224K

NYC E-Designation Number: E-113

Prepared for:

Ms. Angeline Huang

566 Carroll Street, LLC

260 West 71st Street

New York, NY 10023

Prepared by:

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SEPTEMBER 2015

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LIST OF ACRONYMS

Acronym	Definition
CAMP	Community Air Monitoring Plan
DER-10	NYS DEC Division of Environmental Remediation Technical Guidance Manual 10
EC	Engineering Control
HASP	Health and Safety Plan
IC	Institutional Control
NYC VCP	New York City Voluntary Cleanup Program
NYC DEP	New York City Department of Environmental Protection
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
ORC	Oxygen Release Compound
PID	Photoionization Detector
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan
SCG	Standards, Criteria and Guidance
SCO	Soil Cleanup Objective
SMMP	Soil/Materials Management Plan
SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

CERTIFICATION

I, Ravi Korlipara, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program for the 566 Carroll Street, Brooklyn, New York Site [14CVCP224K]

I, Mike Zouak, am a qualified Environmental Professional. I had primary direct responsibility for implementation remedial program for the 566 Carroll Street, Brooklyn, New York Site [14CVCP224K].

I certify that the OER-approved Remedial Action Work Plan and Stipulations in a letter dated July 16, 2014 were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

Ravi Korlipara
Name

070038
PE License Number

Signature

Date

PE Stamp

Mike Zouak
QEP Name

QEP Signature

Date

EXECUTIVE SUMMARY

Airtek Environmental Corp. (Airtek) has performed this remedial action on behalf of Ms. Angeline Huang to remediate a 1,143-square foot site located at 566 Carroll Street in Brooklyn, New York. A Phase II Subsurface Investigation (Phase II) was performed to compile and evaluate data and information necessary to develop a Remedial Action Plan (RAP). The remedial action described in this document fulfills the remedial objectives defined in the RAP, complies with applicable environmental standards, criteria and guidance and conforms to applicable laws and regulations.

Site Location and Prior Usage

The Site is located at 566 Carroll Street in the Park Slope section of Brooklyn, New York and is identified as Block 961 and Lot 7 on the New York City Tax Map. The Site was an unpaved, vacant lot with weedy undergrowth. A chain-link fence with barbed wire lied at the north and south boundaries of the Site.

Summary of Redevelopment Plan

The proposed use of the Site will consist of developing a new residential building of four stories with a cellar and a bulkhead. Cellar will consist of spaces for building's mechanical and maintenance facilities, and an approximately 18 feet by 25 feet of recreation area. The upper four floors will be used as one residential unit. The proposed structure will be full 20 feet width of the lot and 36.75 feet deep with a 19-foot rear yard. Portion of the rear yard will have an open porch at full width of the lot that will extend 5+/- feet from the building. The remainder of the rear yard will consist of vegetative cover for all open spaces. Grass as vegetative coverage is proposed for entire rear yard, including under porch. New shrubs/trees are proposed for rear yard along perimeter fence. The final depth of foundation/footing will be approximately eight feet, but underpinning is likely along the eastern exterior wall. Additionally, a footing for the porch will need to be constructed. Based on this planned depth and the total area of the proposed structure, Airtek anticipates the generation of approximately 280 tons of excavation material during development of the sub-grade area. The current zoning designation is R8A & C2-4, Residential District with Commercial Overlay.

Summary of Past Uses of Site

The Site is 1,143 square feet and is bounded by Carroll Street to the north, a paved parking lot north of the roadway, a residential structure to the south on Garfield Place, and residential structures to the east and west on Carroll Street. The Site was previously occupied by a three-story residential building and two (2) one-story structures which were demolished circa 1968. The Site was vacant land since 1968. The historical research conducted for this assessment has established the residential use of the Site prior to 1888. Residential use appears to have been the primary use at the Site until the Site became vacant land.

Summary of Environmental Findings

The following environmental assessment report was developed for the Site:

Phase I Environmental Site Assessment, June 19, 2013, prepared by Airtek Environmental Corp.

The Phase I report was prepared by Airtek Environmental Corp. (Airtek) for Ms. Angeline Huang of 566 Carroll Street, LLC., dated June 19, 2013.

This Phase I identified two (2) recognized environmental conditions (RECs):

1. New York City Little "E" Designations (E-113) for Block 961, Lot 7. Specifically, an E-113 designation, which pertains to Park Slope Rezoning Program, was placed on the Site effective April 30, 2003. The action is intended to preserve the historical scale of brownstone neighborhood and provide increased opportunities for residential and commercial development on Fourth Avenue. The Site is identified under the E-113 designation under Hazardous Materials. The specific description of the Hazardous Material designation is "Underground Gasoline Storage Tanks Testing Protocol".
2. Past presence of two (2) gasoline underground storage tanks (USTs) in a garage building on the adjoining property to the west at 562-564 Carroll Street (as depicted in the 1926 and 1951 fire insurance maps).

Summary of the Remedial Action

- A Pre-Application Meeting was held on June 21, 2013.
- A Remedial Investigation (RI) was performed and a Remedial Investigation Report (RIR) was prepared in October 2013.

- A Remedial Action Work Plan (RAWP) was prepared in April 2014.
- An Application Fact Sheet was released announcing a 30-day public comment period on the RAWP on April 23, 2014.
- The RAWP and Stipulation List dated July 16, 2014 was approved by the New York City Office of Environmental Remediation on July 17, 2014.
- A Pre-Construction Meeting was held on December 5, 2014. A Fact Sheet providing notice of the start of the Remedial Action was issued on December 10, 2014.
- Remedial Action was begun in January 2015 and completed on February 6, 2015.

REMEDIAL ACTION REPORT

1.0 SITE BACKGROUND

Ms. Angeline Huang has enrolled *in the New York City Voluntary Cleanup Program (NYC VCP)* to investigate and remediate a property located at 566 Carroll Street in the Park Slope section of Brooklyn, New York. The boundary of the property subject to this Remedial Action is shown in Figure 1 and includes, in their entirety, Brooklyn Block 961 and Lot 7.

The Remedial Action was performed pursuant to the OER-approved RAWP in a manner that has rendered the property protective of public health and the environment consistent with its intended use. This RAR describes the remedial action performed under the RAWP. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

1.1 SITE LOCATION AND PRIOR USAGE

The Site is located at 566 Carroll Street in the Park Slope section of Brooklyn, New York and is identified as Block 961and Lot 7 on the New York City Tax Map. The Site was an unpaved, vacant lot with weedy undergrowth. A chain-link fence with barbed wire lied at the north and south boundaries of the Site.

1.2 REDEVELOPMENT PLAN

The proposed use of the Site will consist of developing a new residential building of four stories with a cellar and a bulkhead. Cellar will consist of spaces for building's mechanical and maintenance facilities, and an approximately 18 feet by 25 feet of recreation area. The upper four floors will be used as one residential unit. The proposed structure will be full 20 feet width of the lot and 36.75 feet deep with a 19-foot rear yard. Portion of the rear yard will have an open porch at full width of the lot that will extend 5+/- feet from the building. The remainder of the rear yard will consist of vegetative cover for all open spaces. Grass as vegetative coverage is proposed for entire rear yard,

including under porch. New shrubs/trees are proposed for rear yard along perimeter fence. The final depth of foundation/footing will be approximately eight feet, but underpinning is likely along the eastern exterior wall. Additionally, a footing for the porch will need to be constructed. Based on this planned depth and the total area of the proposed structure, Airtek anticipates the generation of approximately 280 tons of excavation material during development of the sub-grade area. The current zoning designation is R8A & C2-4, Residential District with Commercial Overlay. Figure *2* shows the Site Redevelopment Plan.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

The area surrounding the Site consists of residential properties, each zoned primarily for residential use with commercial overlay. The uses and features of adjoining properties are described below.

North:	Carroll Street and a paved parking lot for a residential building located further north.
East:	A two-story residential building at 568 Carroll Street.
South:	A three-story residential building at 15 Garfield Place.
West:	A seven-story residential building at 562 Carroll Street.

There are no sensitive receptors, such as schools, hospitals, and day care facilities, located within a 250 to 500-foot radius. Figure *3* shows the surrounding land usage.

1.4 REMEDIAL INVESTIGATION

The following environmental assessment report was developed for the Site:

Phase I Environmental Site Assessment, June 19, 2013, prepared by Airtek Environmental Corp.

The Phase I report was prepared by Airtek Environmental Corp. (Airtek) for Ms. Angeline Huang of 566 Carroll Street, LLC., dated June 19, 2013.

This Phase I identified the following past uses of the Site:

The Site was previously occupied by a three-story residential building and two (2) one-story structures which were demolished circa 1968. The Site was vacant land since 1968. The historical research conducted for this assessment has established the residential use of the Site prior to 1888. Residential use appears to have been the primary use at the Site until the Site became vacant land.

This Phase I identified two (2) recognized environmental conditions (RECs):

1. New York City Little "E" Designations (E-113) for Block 961, Lot 7. Specifically, an E-113 designation, which pertains to Park Slope Rezoning Program, was placed on the Site effective April 30, 2003. The action is intended to preserve the historical scale of brownstone neighborhood and provide increased opportunities for residential and commercial development on Fourth Avenue. The Site is identified under the E-113 designation under Hazardous Materials. The specific description of the Hazardous Material designation is "Underground Gasoline Storage Tanks Testing Protocol".
2. Past presence of two (2) gasoline underground storage tanks (USTs) in a garage building on the adjoining property to the west at 562-564 Carroll Street (as depicted in the 1926 and 1951 fire insurance maps).

2.0 DESCRIPTION OF REMEDIAL ACTIONS

The Remedial Action was performed pursuant to the OER-approved RAWP in a manner that has rendered the property protective of public health and the environment consistent with its intended use. This RAR describes the remedial action performed under the RAWP. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

The remedial action was *evaluated in an alternatives analysis and was* determined by OER to be protective of human health and the environment, compliant with standards, criteria, and guidelines (SCGs), effective in the short-term, effective in the long-term, capable of attaining appropriate levels of reduction of toxicity, mobility, or volume of contaminated material, implementable, cost effective, acceptable to the community, consistent with land uses, and sustainable.

A general summary of the Remedial Action is as follows:

- A Pre-Application Meeting was held June 21, 2013.
- A Remedial Investigation (RI) was performed and a Remedial Investigation Report (RIR) was prepared in October 2013.
- A Remedial Action Work Plan (RAWP) was prepared April 2014.
- *An Application Fact Sheet was released announcing a 30-day public comment period on the RAWP* on April 23, 2014.
- The RAWP and Stipulation List dated July 16, 2014 was approved by the New York City Office of Environmental Remediation July 17, 2014.
- A Pre-Construction Meeting was held December 5, 2014.
- *A Fact Sheet providing notice of the start of the Remedial Action was issued* December 10, 2014.
- Remedial Action was begun in January 2015 and completed on February 6, 2015.

The following Remedial Actions were completed in this program:

1. Prepared a Community Protection Statement *and implemented a Citizen Participation Plan*.
2. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds.
3. Established Track 1 Site Specific Soil Cleanup Objectives (SCOs). Collected and analyzed end-point samples. Achieved Track 4 Site Specific SCOs for soil at the Site.
4. Mobilized on site in January 2015 and established Site security, equipment mobilization, utility mark outs and marking & staking excavation areas.
5. Soil/fill was excavated to a depth of 8 feet from grade beneath the area of the new building and to a depth of 5 +/- feet in the rear courtyard. A total of 508.09 tons of soil/fill was excavated and removed from the property. Soil/fill was disposed at the following facilities:
6. 508.09 tons (contaminated non-hazardous soil/fill) to Bayshore Soil Management LLC. All excavated soil/fill material was screened during intrusive work for indications of contamination by visual means, odor, and monitoring with a photoionization detector (PID).
7. Sampled and analyzed excavated media as required by disposal facilities. Appropriately segregated excavated media onsite prior to disposal.
8. Transported and disposed all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and the RAWP.
9. Constructed an engineered Composite Cover System consisting of two feet of Mat Slab below the new building footprint, five feet of clean soil/vegetative cover in the rear yard and two feet of clean soil/vegetative cover for all open spaces to prevent human exposure to residual soil/fill remaining under the Site to prevent human exposure to residual soil/fill remaining under the Site.
10. Installed a Vapor Barrier System that consisted of placement of Grace Preprufe 300R for horizontal applications (46 mil), beneath the building concrete slab, as well as Grace Preprufe 160R for vertical applications (32 mil) behind foundation walls of the proposed building. The waterproofing and vapor barrier membranes

were installed per Preprufe Manufacturer's (W.R. Grace's) instructions utilizing all Preprufe Manufacturer supplied and/or recommended system components related to sealing the overlaps, joints, corners, etc. The installation was performed by a contractor with experience in the proposed product, and was certified by the installation contractor and by W.R. Grace's representative, as a seal-tight, protective installation The contractor for construction of the Vapor Barrier System was CTI Construction, Inc.

11. Imported approximately 81 tons of clean material for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.
12. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations.
13. Performed all activities required for the Remedial Action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
14. Residual materials are present beneath the cover layer and will be subject to Site Management under this Remedial Action.
15. Submitted a Sustainability Statement.
16. Submitted a RAR that describes the Remedial Action, certifies that the remedial requirements defined in the Remedial Action Work Plan have been achieved; defines the Site boundaries; describes all Engineering and Institutional Controls applicable to the Site; and describes any changes from the RAWP.
17. Submitted a Site Management Plan (SMP) for long-term management of residual soil, including plans for operation, maintenance, inspection and certification of the performance of Engineering Controls and Institutional Controls. Results of inspections and certification of performance of all Engineering Controls and Institutional Controls will be included in an Inspection and Certification Letter Report to be submitted by July 30, 2021 (for the reporting period calendar years 2016-2020), July 30, 2026 (for the reporting period calendar years 2021-2025) and every five years thereafter (for the reporting period consisting of the five prior calendar years).

18. The property will continue to be registered with an E-Designation by the NYC Department of Buildings. Engineering Controls and Institutional Controls will be managed in compliance with the SMP. Institutional Controls will include prohibition of the following: (1) prohibition of vegetable gardening and farming in residual soil; (2) prohibition of the use of groundwater beneath the site without treatment rendering it safe for the intended use; (3) prohibition of disturbance of residual soil material unless it is conducted in accordance with the SMP; and (4) prohibition of higher levels of land usage than the restricted residential use addressed by this remedial action without prior notification and approval by OER.

    Recorded a Declaration of Covenants and Restrictions with the property deed with the County Clerk that includes a listing of Engineering Controls and Institutional Controls and a requirement that management of these controls must be in compliance with an approved Site Management Plan (SMP). Institutional Controls including the following: (1) prohibition of vegetable gardening and farming in residual soil; (2) prohibition of the use of groundwater beneath the site without treatment rendering it safe for the intended use; (3) prohibition of disturbance of residual soil unless it is conducted in accordance with the SMP; and (4) prohibition of higher levels of land usage than the restricted residential use addressed by this Remedial Action without prior notification and approval by OER.

3.0 COMPLIANCE WITH REMEDIAL ACTION WORK PLAN

3.1 HEALTH & SAFETY PLAN

The remedial construction activities performed under this program were in compliance with the Health and Safety Plan and applicable laws and regulations.

3.2 COMMUNITY AIR MONITORING PLAN

The Community Air Monitoring Plan provided for the collection and analysis of air samples during remedial construction activities to ensure proper protections were employed to protect workers and the neighboring community. Monitoring was performed in compliance with the Community Air Monitoring Plan in the approved RAWP. The results of community air monitoring are shown in Appendix *3*. Community Air Monitoring Daily Data Summary is included in Table *1*.

3.3 SOIL/MATERIALS MANAGEMENT PLAN

The Soil/Materials Management Plan provided detailed plans for managing all soil/materials that were disturbed at the Site, including excavation, handling, storage, transport and disposal. It also included a series of controls to assure effective, nuisance free remedial activity in compliance with applicable laws and regulations. Remedial construction activities performed under this program were in compliance with the SMMP in the approved RAWP.

3.4 STORM-WATER POLLUTION PREVENTION

Storm water pollution prevention included physical methods and processes to control and/or divert surface water flows and to limit the potential for erosion and migration of Site soils, via wind or water. Remedial construction activities performed under this program were in full compliance with methods and processes defined in the RAWP for storm water prevention and applicable laws and regulations.

3.5 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

The original requirement in the OER-approved RAWP for excavation and removal of soil/fill exceeding Track 1 Unrestricted Use SCOs for the rear yard was two feet below grade. Due to the fact that the remedial investigation soil sampling results indicated levels of lead and mercury exceeding Track 2 SCOs at 4 feet below grade, soil/fill was actually removed to a depth of 5 +/- feet below grade in the rear yard. This action was to protect public health and the environment. This change was notified in an email to Ms. Sarah Pong, Project Manager of OER, on January 13, 2015.

4.0 REMEDIAL PROGRAM

4.1 PROJECT ORGANIZATION

Principal personnel who participated in the remedial action included Certified Industrial Hygienist, Mike Zouak, and Qualified Environmental Professional, Christine Chen. The Professional Engineer (PE) and Qualified Environmental Professionals (QEP) for this project were Ravi Korlipara and Mike Zouak, respectively.

4.2 SITE CONTROLS

Site Preparation

Prior to the commencement of any remedial work, all field personnel were required to attend an orientation meeting, in which the general site operations were outlined, along with health and safety and field procedures. The presence of utilities and easements on site were investigated prior to any work, using the One-Call System (811). Invasive activities were performed in compliance with applicable laws and regulations to assure safety. Utility companies and other responsible authorities were contacted to locate and mark the locations. No overhead utilities were located directly above the work site. Proper safety and protective measures pertaining to utilities and easements, and compliance with all laws and regulations were employed during invasive and other work contemplated under the RAWP. The integrity and safety of on-Site and off-Site structures was maintained during invasive, excavation or other remedial activity performed under the RAWP. Relevant and necessary agency approval documents, including NYC Buildings Work Permits were acquired and appropriately displayed prior to remedial work. Signage for the project was laminated and mounted on the plywood fence of the Site, publically accessible, along with other permits signage consisting of the NYC VCP Information Sheet announcing the remedial action.

Mobilization

Equipment brought to the Site or maintained on-site was checked out as operational prior to the mobilization as per the NYCDOB Requirements. Proper traffic control was performed in accordance with NYCDOB Construction Codes. During any

roll-off or material delivery or collection, traffic was halted at a safe distance from the activities by workers utilizing high visibility clothing, until the activities ceased, and the trucks had departed the area.

Grubbing, fencing, truck wash, construction, etc.

No Site clearing and Site grubbing of organic matter (wood, roots, stumps, etc.) or other solid waste were required prior to all remedial work. Prior to the start of any remedial construction activities, the entire Site perimeter was secured with a plywood fence or poly sheeting in accordance with New York City Department of Building requirements.

Utility Marker Layout

The presence of utilities and easements on the Site were fully investigated prior to the performance of invasive work such as excavation or drilling under this plan by using, at a minimum, the One-Call System (811). All invasive activities were performed incompliance with applicable laws and regulations to assure safety. Utility companies and other responsible authorities were contacted to locate and mark the locations, and a copy of the Markout Ticket was retained by the contractor prior to the start of drilling, excavation or other invasive subsurface operations.

Proper safety and protective measures pertaining to utilities and easements, and compliance with all laws and regulations were employed during invasive and other work contemplated under this RAWP. The integrity and safety of on-Site and off-Site structures were maintained during all invasive, excavation or other remedial activity performed under the RAWP.

Acquisition of Agency Approvals

Permits or government approvals required for remedial construction were obtained prior to the start of remedial construction. Construction permits were acquired from the NYCDOB. Permits and notices included a citation of the law, statute or code to be complied with, the originating agency, and a contact name and phone number in that agency. An OER Project Notice was erected at the project entrance and was in place during all phases of the Remedial Action.

An OER Project Notice was erected at the project entrance and was in place during all phases of the Remedial Action.

Soil Screening

Field screening of soils being excavated and removed from Site were completed using visual, olfactory, and PID measurements. Constant CAMP PID and Dust monitoring was conducted during excavation of onsite soils.

Stockpile Management

No contaminated soil stock-piled on site. Contaminated waste was transported by excavator directly to disposal trucks to the OER approved disposal facility.

Truck Inspection

It was ensured that trucks covered the loads prior to departing the Site with contaminated materials. A combination of plastic sheeting and gravel beds were used create a barrier between site soils and truck wheels to prevent migration of soils off-site. Each truck was inspected prior to leaving the Site to ensure soil was not transported off-site.

Site Security

The entire perimeter of the Site was secured using 8' high plywood fence along the north and south boundaries and east and west boundaries in the rear section, and plastic sheeting against the building walls of the adjoining properties on the east and west sides. A padlock was used to secure the front gate. The Site was secured at night in accordance with NYCDOB Construction Codes.

Nuisance Controls

Suitable actions were taken to prevent off-Site odor and dust nuisances, including steps to be taken if nuisances are detected. Generally, dust was managed by application of physical covers. The project was also maintained to comply with NYC noise control standards.

Reporting

All daily reports, including digital photographs of the Remedial Action, are included in Appendix 4.

4.3 MATERIALS EXCAVATION AND REMOVAL

Track 1 Soil Cleanup Objectives (SCOs) were proposed for this project. Soil and materials management on-Site and off-Site, including excavation, handling and disposal, was conducted in accordance with the Soil/Materials Management Plan (SMMP) in Appendix *4* of the RAWP. A map showing the location where excavations were performed is shown in Figure *4*. No hazardous wastes (as defined by CFR40 Subpart C, §261.24) were present onsite. Non-hazardous materials were removed from the entire Site, down to a depth of 5-feet below grade in the rear yard; and 8-feet below grade in the construction area. A total of 508.09 tons of Non-hazardous materials were removed from the Site. No excavated materials were reused on Site.

End Point Sample Results

Alpha Analytical Labs in Westborough, MA, a New York State DOH ELAP certified lab (11148), was used for soil end-point samples analyses. End-point samples were collected and analyzed to determine the performance of the remedy with respect to attainment of SCOs (those for which SCO exceedances were identified). Three end-point samples designated as S-1, S-2, and S-3 were collected following the removal of historic urban fill material impacted with SVOCs, metals and pesticides. Sample S-1 was collected in the rear yard and samples S-2 and S-3 were collected in the construction pit per the RAWP. The samples were analyzed for semi-volatile organic compounds (SVOCs) with EPA Method 8270, TAL Metals with EPA Method 6010 and Pesticides with EPA Method 8081A. A map of end-point sample locations is shown in Figure *5*. A tabular summary of end-point sampling results compared to SCO's is shown in Table *2*. End-point samples analytical laboratory data are included in Appendix *5*.

In Table *2*, the laboratory analytical results were compared to the NYSDEC 6NYCRR Part 375 Soil Cleanup Objectives (SCOs) for Unrestricted Use, Residential Use, and Restricted-Residential use. Additionally, the results were compared below to the Track 4 Site-Specific SCO's that were established for this project. The Site-Specific SCOs are:

Contaminant	Track 4 SCOs
Total SVOCs	250 ppm

Lead	800 ppm (Track 2 Restricted Residential SCO)
Mercury	2.0 ppm (Track 2 Restricted Residential SCO)

From Table *2*, the Unrestricted SCOs were exceeded for the following parameters (Sample IDs are in parentheses):

Pesticides: 4,4'-DDE (S-2, S-3); 4,4'-DDT (S-2, S-3); and dieldrin (S-2, S-3);

Polycyclic aromatic hydrocarbons (PAHs): benzo(a)anthracene (S-1, S-3); benzo(a)pyrene (S-1, S-3); benzo(b)fluoranthene (S-1, S-3); benzo(k)fluoranthene (S-1, S-3); chrysene (S-1, S-3); dibenzo(a,h)anthracene (S-1, S-3); and indeno(1,2,3-cd)pyrene (S-1, S-3);

Metals: copper (S-1); lead (S-1, S-2, S-3); mercury (S-1, S-2, S-3); and zinc (S-1, S-2, S-3).

However, among the above results, none of the pesticides exceeded Residential use and Restricted-Residential use SCOs in any of the samples; some or all of the PAH parameters in samples S-1 and S-3 exceeded Residential use and Restricted-Residential use SCOs; and among metals only mercury in samples S-1, S-2, and S-3 exceeded Residential use and Restricted-Residential use SCOs.

Considering that the intended use of the property is Restricted-Residential, the exceedances of potential concern are thus limited only to PAHs (which are also SVOCs) in samples S-1 and S-3 only, and only to mercury in all three samples S-1, S-2, and S-3. These residual detections were evaluated to assess the potential for environmental and public health impact. This evaluation shows that the building is protected by several mitigating measures that were implemented, including a 2-foot Mat Slab, a 46-mil horizontal (model Preprufe 300R) and 32-mil vertical (model Preprufe 150R) state-of-the-art vapor barrier system from Grace Products that bonds integrally to poured concrete, and clean fill materials, that together provide a comprehensive and redundantly protective design with no potential exposure pathways to occupants of the building.

Furthermore, none of the samples exceeded any of the Track 4 Site-Specific SCOs listed above for SVOCs, lead, and mercury. Finally, a Site Management Plan, including an inspection program, will be instituted at the Site to confirm continued protectiveness over the years. Thus, based on this evaluation, the remedial action at the site is concluded to have met the project's soil cleanup objectives, and together with the

protective measures implemented during the remedial action, management of these soils in place was determined to be protective of public health and the environment.

4.4 MATERIALS DISPOSAL

The material type, quantity and disposal location of material removed and disposed off-Site is presented below:

Disposal Location/Address	Type of Material	Quantity
Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbay, NJ 08832	Non-Hazardous Soil	508.09 tons

Verbal request from Airtek on behalf of Ms. Angeline Huang was provided to disposal facility providing materials type, source and data. The acceptance letter from disposal facility stating it is approved to accept above materials is attached in Appendix *6*. Manifests are included in Appendix *7*. Manifest/Waste Disposal Inventory Summary is included in Table *3*. Disposal Characterization Sample Laboratory Testing Results are included in Appendix *8*.

4.5 BACKFILL IMPORT

A table of all sources of backfill with quantities for each source is shown in Table 4. A map showing backfill placement locations at the Site is shown in Figure 6. Imported backfill laboratory analytical data reports are included in Appendix *9*.

Source	Type of Material	Quantity
Stony Creek Services 4001 Daly Blvd., Oceanside, NY 11572	Clean Soil	81 tons

4.6 DEMARACTION

All soils below the final cover are residual soils and will be subject to soil management under the Site Management Plan.

Soil below the final cover is residual soil that will be addressed by site management under this remedial action.

5.0 ENGINEERING CONTROLS

A Track 4 Remedial Action was achieved and Engineering Controls are required. Engineering Controls were employed in the Remedial Action to address residual materials remaining at the site. The Site has two primary Engineering Control Systems. These are:

Composite Cover System

Exposure to residual soil/fill is prevented by an engineered Composite Cover System that has been built on the Site. The Composite Cover System is a permanent Engineering Control for the Site.

The Composite Cover System was installed as part of development. The Composite Cover System is comprised of two feet of Mat Slab below the new building footprint, five feet of clean soil/vegetative cover in the rear yard and two feet of clean soil/vegetative cover for all open spaces.

The contractor for construction of the Composite Cover System was CTI Construction Inc. Figure *7* shows the as-built design for each remedial cover type used on this Site. Figure *8* shows the location of each cover type built at the Site.

Vapor Barrier System

Exposure to soil vapor is prevented by a Vapor Barrier System that has been built on the Site. The Vapor Barrier System is a permanent Engineering Control for the Site.

The Vapor Barrier System consists of placement of Grace Preprufe 300R for horizontal applications (46 mil) beneath the building concrete slab, as well as Grace Preprufe 160R for vertical applications (32 mil) behind foundation walls of the proposed building. The waterproofing and vapor barrier membranes were installed per Preprufe Manufacturer's (W.R. Grace's) instructions utilizing all Preprufe Manufacturer supplied and/or recommended system components related to sealing the overlaps, joints, corners, etc. The installation was performed by a contractor with experience in the proposed product, and was certified by the installation contractor and by W.R. Grace's representative, as a seal-tight, protective installation.

The design engineer for the Vapor Barrier System was Ravi Korlipara, P.E.

The contractor for construction of the Vapor Barrier System was CTI

Construction, Inc.

Figure *9* shows the as-built design for the Vapor Barrier System used on this Site. Figure *10* shows the location of Vapor Barrier System.

Photographs of installation of the Vapor Barrier System are included in Appendix *10*. Appendix *12* provides supplemental information on the Vapor Barrier System used on this Site.

Passive Sub-Slab Depressurization System

No Passive Sub-Slab Depressurization System was installed for this Site per the RAWP.

Active Sub-Slab Depressurization System

No Active Sub-Slab Depressurization System was installed for this Site per the RAWP.

6.0 INSTITUTIONAL CONTROLS

A series of Institutional Controls are required under this Remedial Action to manage residual soil/fill and other media to assure permanent protection of public health by elimination of exposure to residual materials. These IC's define the program to operate, maintain, inspect and certify the performance of Engineering Controls and Institutional Controls on this property. These Institutional Controls will be implemented in accordance with the Site Management Plan included in this RAR.

Institutional Controls for this property are:

(1) The property will continue to be registered with an E-Designation by the NYC Department of Buildings. Property owner and property owner's successors and assigns are required to comply with the approved SMP;

(2) Compliance with an OER-approved Site Management Plan including procedures for appropriate operation, maintenance, inspection, and certification of performance of EC's and IC's. The property owner and property owner's successors and assigns will inspect EC's and IC's and submit to OER a periodic written certification that evaluates their performance;

(3) Engineering Controls will not be discontinued without prior OER approval;

(4) OER has the right to enter the Site upon notice for the purpose of evaluating the performance of EC's and IC's;

(5) Vegetable gardens and farming in residual soil/fill on the Site are prohibited;

(6) Use of groundwater underlying the Site without treatment rendering it safe for its intended use is prohibited;

(7) All future activities on the Site that will disturb residual soil/fill must be conducted pursuant to the Soil/Materials Management provisions of the SMP, or otherwise approved by OER;

(8) The Site is intended to be used for restricted residential use and will not be used for a higher level of use without prior approval by OER.

7.0 SITE MANAGEMENT PLAN

Site Management is the last phase of the remedial process and begins after the approval of the Remedial Action Report (RAR) *and issuance of the Notice of Completion (NOC)* by OER. It is the responsibility of the property owner to ensure that all Site Management responsibilities are performed. *Failure to implement the SMP will result in revocation of the Notice of Completion and all associated certifications and liability protections.*

Engineering Controls and Institutional Controls have been incorporated into this Remedial Action to ensure that the site remains protective of public health and the environment. Generally, EC's provide physical protective measures and IC's provide restrictions on Site usage and establish remedial operation, maintenance, inspection and certification measures. This Site Management Plan has been established to govern long-term performance of EC's and IC's for this property.

The SMP provides a detailed description of procedures required to manage residual material at the Site following the completion of remedial construction *in accordance with the NYC Voluntary Cleanup Agreement with OER.* This includes: (1) operation and maintenance of Engineering Controls; (2) inspection of EC's and IC's; and (3) certification of performance of EC's and IC's.

ENGINEERING CONTROLS

Engineering Controls were employed in the remedial action to address residual materials remaining at the site. The Site has two Engineering Control Systems. Engineering Controls for this property are:

(1) Composite Cover System consisting of two feet of Mat Slab below the new building footprint, five feet of clean soil/vegetative cover in the rear yard and two feet of clean soil/vegetative cover for all open spaces.

(2) Vapor Barrier System.

Operation and Maintenance of Composite Cover System

Chapter 5 describes the Composite Cover System utilized in this Remedial Action and provides as-built design details and the location of each cover type. The Composite

Cover System is a permanent Engineering Control for the Site. The system will be inspected and its performance certified at specified intervals defined in this SMP. A Soil/Materials Management Plan is included in this Site Management Plan and outlines the procedures to be followed in the event that the composite cover system and underlying residual soil/material must be disturbed after the Remedial Action is complete.

The Composite Cover System does not require any special operation or maintenance activities. If the system is breached during future construction activities, the system will be rebuilt by reconstructing the system according to the original design and tying newly constructed cover layers into existing cover layers to form a continuous layer(s).

Operation and Maintenance of Vapor Barrier System

Chapter 5 describes the Vapor Barrier System utilized in this Remedial Action and provides as-built design details and the system location. The Vapor Barrier System is a permanent Engineering Control for the Site. The system will be inspected and its performance certified at specified intervals defined in this SMP.

The Vapor Barrier System does not require any special operation or maintenance activities. If the system is breached during future construction activities, the system will be rebuilt by reconstructing the vapor barrier layers and adhering the newly constructed materials with existing barrier materials in accordance with manufacturer specifications.

INSTITUTIONAL CONTROLS

A series of Institutional Controls are required under this Remedial Action to assure permanent protection of public health by elimination of exposure to residual materials. These IC's define the program to operate, maintain, inspect and certify the performance of Engineering Controls and Institutional Controls on this property. Adherence to these Institutional Controls is required under the Site Management Plan established for this Remedial Action and will be implemented in accordance with the Site Management Plan included in this RAR.

Institutional Controls are also designed to prevent future exposure to residual soil/materials by controlling disturbances in the subsurface, restrict higher uses of the

property than those addressed by the Remedial Action and establish restrictions on activities and site usage. Institutional Controls for this property are:

INSPECTIONS

Engineering Controls and Institutional Controls will be inspected on a regular basis and certified periodically as described below. Inspections will include routine evaluation by custodial and maintenance staff to identify obvious signs of potential failure of system components (i.e., cracks or fissures in the foundation or building slab, erosion of cover soils, Active SSDS alarm warnings, etc.) and periodic inspections by trained personnel for the purpose of certification of the performance of EC's and IC's. The periodic inspections will evaluate the following:

- If Engineering Controls or Institutional Controls employed at the Site continue to perform as designed and continue to be protective of human health and the environment;
- If anything has occurred that impairs the ability of the Engineering Controls or Institutional Controls to protect public health and the environment;
- If changes are needed to the remedial systems or controls;
- If compliance with this SMP has been maintained;
- If site records are complete and up to date; and
- General Site conditions at the time of inspection.

In addition, if an emergency occurs, such as a natural disaster, or if an unforeseen failure of any of the Engineering Controls occurs, an inspection of the Site will be performed within 30 days to evaluate the Engineering Controls and a letter report of findings will be submitted to OER.

Inspection of Composite Cover System

The composite cover will be visually inspected for any breaks or cracks in the building slab and the backyard cap. Any breaks should be promptly repaired.

Inspection of Vapor Barrier System

The vapor barrier will be visually inspected for any tears or breaks. If the vapor barrier is believed to be torn or broken, the system will be repaired.

Site Use Prohibitions

Inspections to evaluate the status of site use prohibitions will include an evaluation of whether there is vegetable gardening or farming in residual soil/fill; whether groundwater underlying the site has been used without treatment rendering it safe for its intended use; whether activities that have disturbed site soil/fill have been conducted pursuant to the Soil/Material Management provisions of the SMP, or otherwise approved by OER; and whether the site has been used for a higher level of use other than the restricted residential use addressed by the Remedial Action.

INSPECTION AND CERTIFICATION LETTER REPORT

Results of inspections performed during a reporting period and certification of performance of all Engineering Controls and Institutional Controls will be included in an Inspection and Certification Letter Report to be submitted by July 30, 2021 (for the reporting period calendar years 2016 -2020), July 30, 2026 (for the reporting period calendar years 2021-2025) and every five years thereafter (for the reporting period consisting of the five prior calendar years). Inspection and Certification Letter Reports will be submitted to OER in digital format.

The Certification Letter Report will include, at a minimum:

- Date of inspections;
- Personnel conducting inspections;
- Description of the inspection activities performed;
- Any observations, conclusions, or recommendations;
- Copy of any inspection forms;
- A determination as to whether groundwater plume conditions, if any, have changed since the last reporting event; and
- Certification of the performance of Engineering Controls and Institutional Controls, as discussed below.

The certification of the performance of EC's and IC's will establish:

- If Engineering Controls or Institutional Controls employed at the Site continue to be in place and perform as designed and continue to be protective of human health and the environment;
- If anything has occurred that impairs the ability of Engineering Controls or Institutional Controls to protect public health and the environment;
- If changes are needed to the remedial systems or controls;
- If compliance with this Site Management Plan has been maintained;
- If vegetable gardening and farming in residual soils has been prevented;
- If groundwater underlying the Site is being utilized without treatment rendering it safe for the intended purpose has been prevented;
- If activities on the Site that have disturbed residual soil/fill material have been in accordance with the Soil/Materials Management Plan in this SMP;
- If the Site has been used for a higher level of use other than the restricted residential use addressed by the Remedial Action;
- If site records are complete and up to date;
- If the Site continues to be registered as an E-Designated property by the NYC Department of Buildings;

OER may enter the Site upon notice for the purpose of evaluating the performance of EC's and IC's.

NOTIFICATIONS

Notifications will be submitted by the property owner to OER as described below:

- 60-day advance notice of any proposed changes in Site use, such as an upgrade from existing use to use that was not contemplated is the Remedial Action.
- Notice within 14 days of any emergency, such as a fire, flood, or earthquake that has the potential to reduce the effectiveness of Engineering Controls in place at the Site.

SOIL/MATERIALS MANAGEMENT PLAN

Any future intrusive work that will disturb residual soil/fill beneath the property, including modifications or repairs to the existing composite cover system, will be performed in compliance with this Soil/Materials Management Plan (SMMP) in Appendix *1*. Intrusive work will also be conducted in accordance with the procedures defined in the Community Air Monitoring Plan (CAMP) included as Appendix *2* in this plan and a Construction Health and Safety Plan (HASP). The HASP is the responsibility of the property owner and should be in compliance with NYSDEC DER-10 Technical Guide and 29 CFR 1910 and 1926, and all other applicable Federal, State and City regulations. Intrusive construction work should be compliant with this SMMP and described in the next Inspection and Certification Letter Report.

SMMP from RAWP is included in Appendix *1*. CAMP from RAWP is included in Appendix *2*.

CONTINGENCY PLAN

Emergency Telephone Numbers

In the event of any emergency condition pertaining to these remedial systems, the Owner's representative(s) should contact the appropriate parties from the contact list below. Prompt contact should also be made to Mike Zouak of Airtek Environmental Corp. These emergency contact lists must be maintained in an easily accessible location at the Site.

Emergency Contact Numbers

Medical, Fire, and Police:	911
One Call Center: 3 day notice required for utility markout	(800) 272-4480
Poison Control Center:	(800) 222-1222
Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362

Contact Numbers

Environmental Consultant: Mike Zouak	(718) 937-3720
Office of Environmental Remediation	(212) 788-8841; 311

8.0 SUSTAINABILITY REPORT

This Remedial Action Report provides for sustainable remediation and redevelopment through a variety of means that are defined in this Sustainability Report.

Reuse of Clean, Recyclable Materials. Reuse of clean, recyclable materials reduces consumption of non-renewable virgin resources and can provide energy savings and greenhouse gas reduction since these materials can be locally-derived.

Approximately 81 tons of clean soil were imported to the Site from Stony Creek Services located at 4001 Daly Blvd., Oceanside, NY 11572.

Reduced Energy Consumption and Promotion of Greater Energy Efficiency. Reduced energy consumption lowers greenhouse gas emissions, improves local air quality, lessens in-city power generation requirements, can lower traffic congestion, and provides substantial cost savings.

Reduced energy consumption lowers greenhouse gas emissions, improves local air quality, lessens in-city power generation requirements, can lower traffic congestion, and provides substantial cost savings.

The following means were used to reduce energy consumption in this project: Efficient loading times of trucks to prevent extensive idling times, and consolidating the number of days that soil was shipped from the Site to reduce truck traffic in the neighborhood.

Conversion to Clean Fuels. Use of clean fuel improves NYC's air quality by reducing harmful emissions.

The following clean fuels were utilized in this program:

Natural gas is utilized for fuel source for the new building.

Recontamination Control. Recontamination after cleanup and redevelopment is completed undermines the value of work performed, may result in a property that is less protective of public health or the environment, and may necessitate additional cleanup work later that could impede future redevelopment. Recontamination can arise from future releases that occur within the property or by influx of existing contamination from off-Site.

The area of the Site that utilizes recontamination controls under this plan included the prevention of transport of contamination to the Site from off-site by ensuring that no unapproved materials were brought to the Site, a vapor barrier was installed at the Site to provide protections if recontamination from off-site were to occur, and the use of natural gas to ensure no fuel oil will be leaked into the environment. 100% of the area of the Site, or 1,143 square feet, utilizes recontamination controls under this plan.

Paperless Brownfield Cleanup Program. Ms. Angeline Huang participated in OER's Paperless Voluntary Cleanup Program. Under this program, submission of electronic documents replaced submission of hard copies for the review of project documents, communications and milestone reports. A best estimate of the mass (pounds) of paper saved under this plan is 50.

Low-Energy Project Management Program. Ms. Angeline Huang participated in OER's low-energy project management program. Under this program, whenever possible, meetings were held using remote communication technologies, such as videoconferencing and teleconferencing to reduce energy consumption and traffic congestion associated with personal transportation. A gross estimate of the number of miles of personal transportation that was conserved in this process is 500.

Trees and Plantings. Trees and other plantings provide habitat and add to NYC's environmental quality in a wide variety of ways. Native plant species and native habitat provide optimal support to local fauna, promote local biodiversity, and require less maintenance. The number of trees planted as part of this redevelopment is 2.

FIGURES

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N

FIGURE 1: SITE BOUNDARY MAP	
Block: 961	**Lot: 7**
Address: 566 Carroll Street Brooklyn, NY 11215	
Airtek Project Number: 13-0933D	**Date:** 07-20-2015

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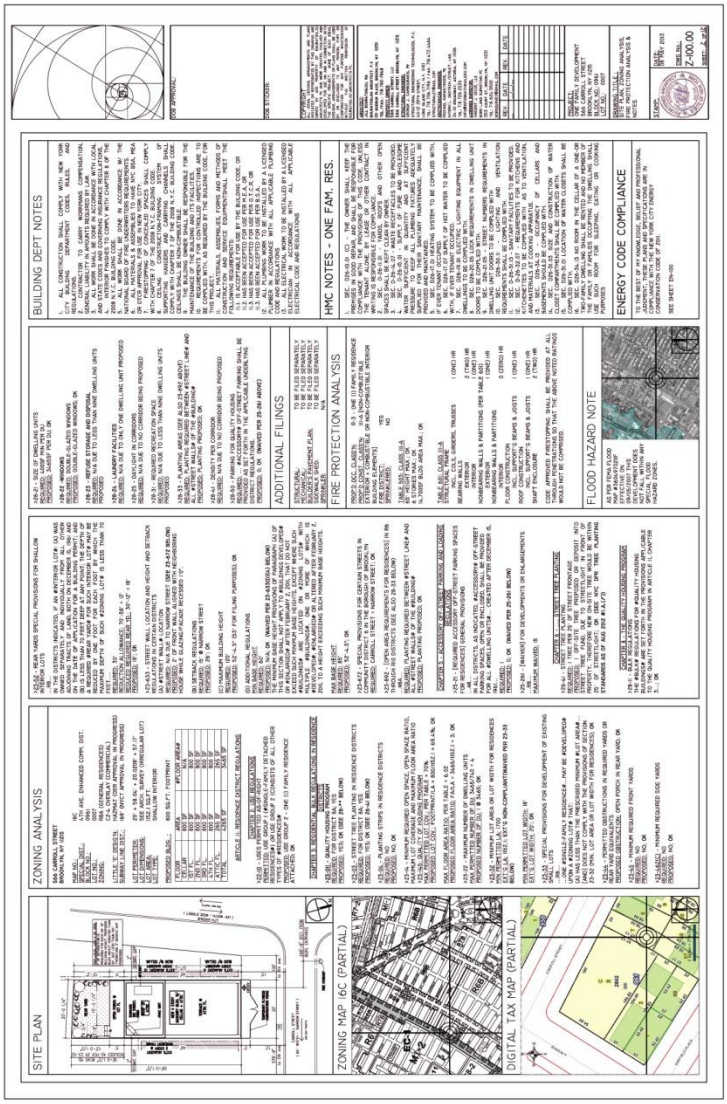

FIGURE 2: SITE DEDEVELOPMENT PLAN

Block: 961	**Lot: 7**

Address: 566 Carroll Street
Brooklyn, NY 11215

Airtek Project Number: 13-0933D	**Date:** 07-20-2015

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FIGURE 3: SITE LOCATION MAP	
Block: 961	**Lot: 7**
Address: 566 Carroll Street Brooklyn, NY 11215	
Airtek Project Number: 13-0933D	**Date:** 07-20-2015

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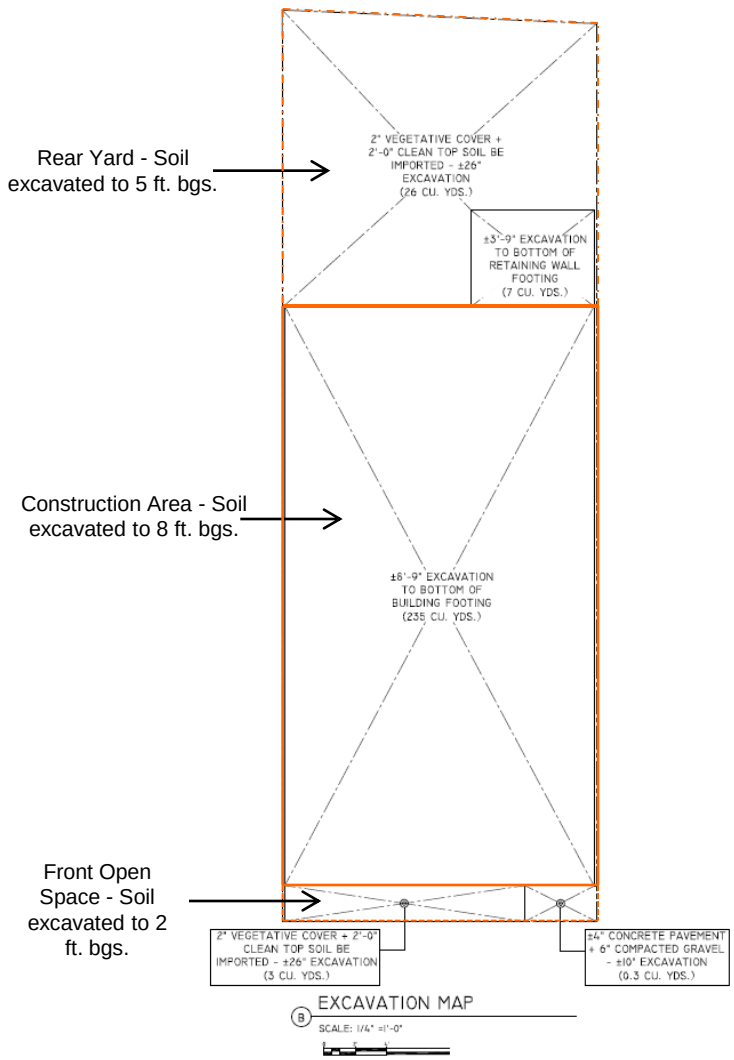

FIGURE 4: MAP OF EXCAVATIONS AND SOURCE REMOVAL	
Block: 961	**Lot: 7**
Address: 566 Carroll Street Brooklyn, NY 11215	
Airtek Project Number: 13-0933D	**Date:** 07-20-2015

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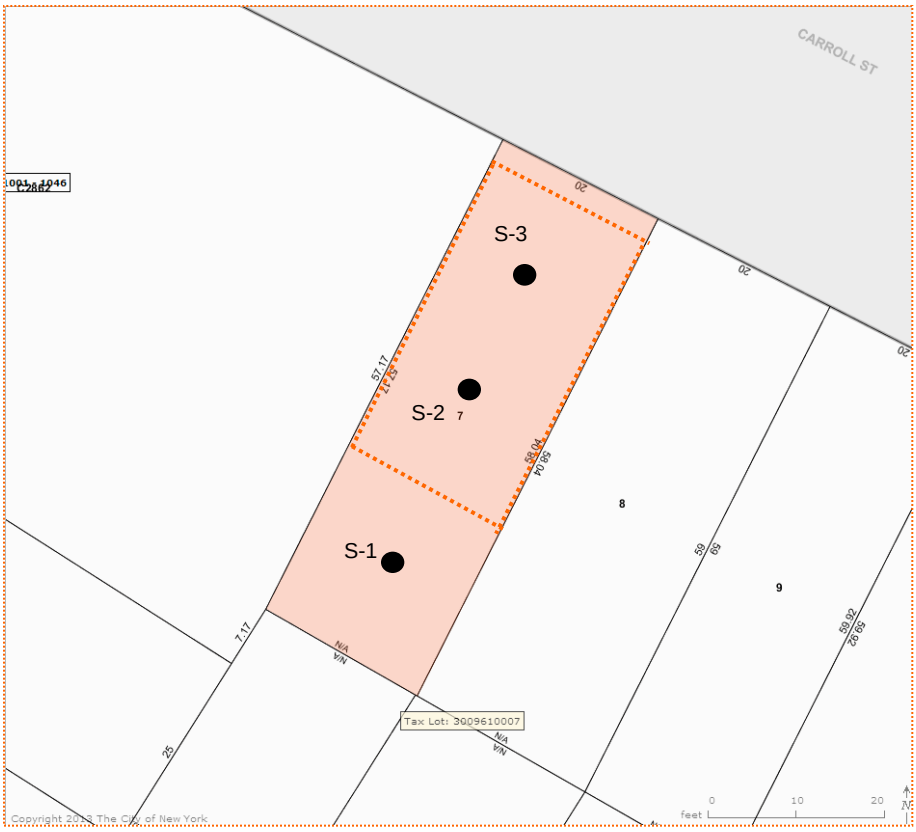

Notes:
S-1 at 4 ft. bgs
S-2 and S-3 at 8 ft. bgs.

LEGEND

- S-1: Soil Sampling Location
- Area of Construction

Figure 5: MAP OF END-POINT SAMPLEING LOCATION MAP	
Block: 961	**Lot: 7**
Address: 566 Carroll Street Brooklyn, NY 11215	
Airtek Project Number: 13-0933D	**Date:** 07-20-2015

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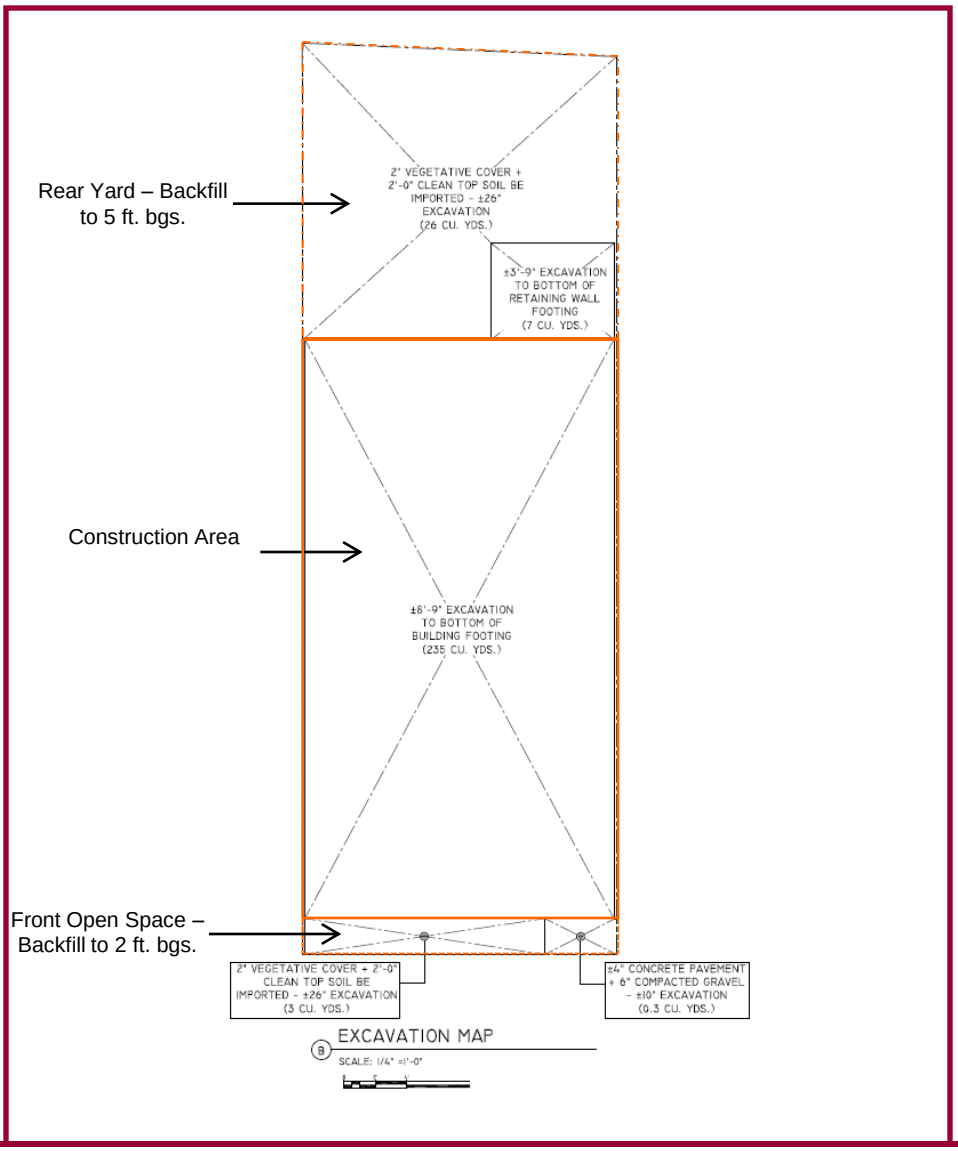

FIGURE 6: SOIL/FILL BACKFILL PLACEMENT LOCATIONS	
Block: 961	**Lot: 7**
Address: 566 Carroll Street Brooklyn, NY 11215	
Airtek Project Number: 13-0933D	**Date:** 07-20-2015

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A: Rear Yard – Vegetative Cover

B: Areaway - Poured-in-Place Concrete

C: Front Setback – Vegetative Cover

D: Entryway – Concrete Pavement

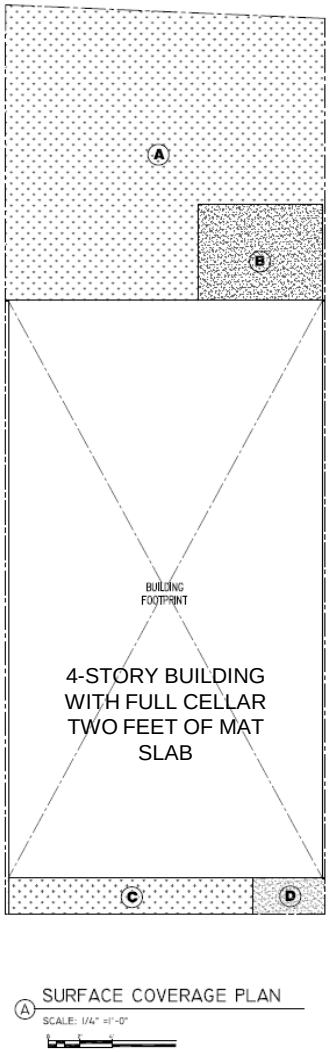

FIGURE 7: MAP OF LOCATION OF COMPOSITE COVER SYSTEM	
Block: 961	**Lot: 7**
Address: 566 Carroll Street Brooklyn, NY 11215	
Airtek Project Number: 13-0933D	**Date:** 07-20-2015

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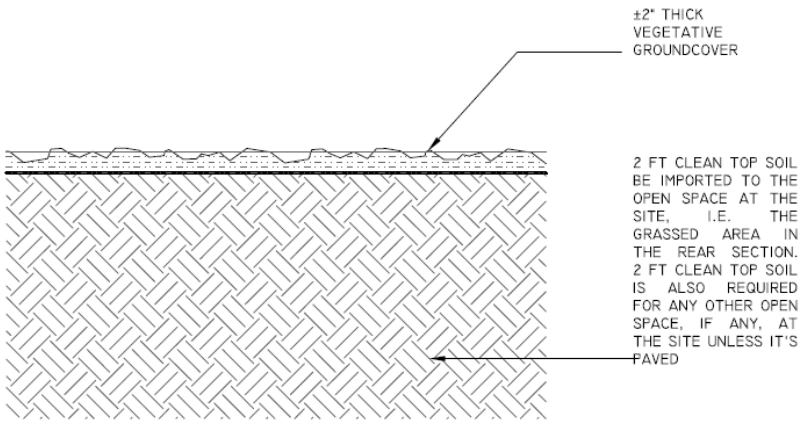

1 SURFACE DETAIL

FIGURE 8: AS-BUILT DESIGN DETAIL FOR COVER TYPES	
Block: 961	**Lot: 7**
Address: 566 Carroll Street Brooklyn, NY 11215	
Airtek Project Number: 13-0933D	**Date:** 07-20-2015

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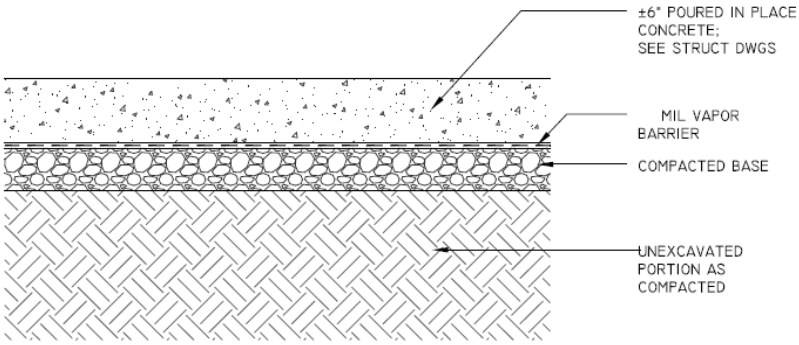
W.R. Grace (MFR.'s) Vapor Barrier – Preprufe 300R (46 mil) for Horizontal and Preprufe 160R (32 mil) for Vertical Application



2 SURFACE DETAIL

FIGURE 9: AS-BUILT DESIGN DETAIL FOR VAPOR BARRIER SYSTEM – Part I	
Block: 961	**Lot: 7**
Address: 566 Carroll Street Brooklyn, NY 11215	
Airtek Project Number: 13-0933D	**Date:** 09-09-2015

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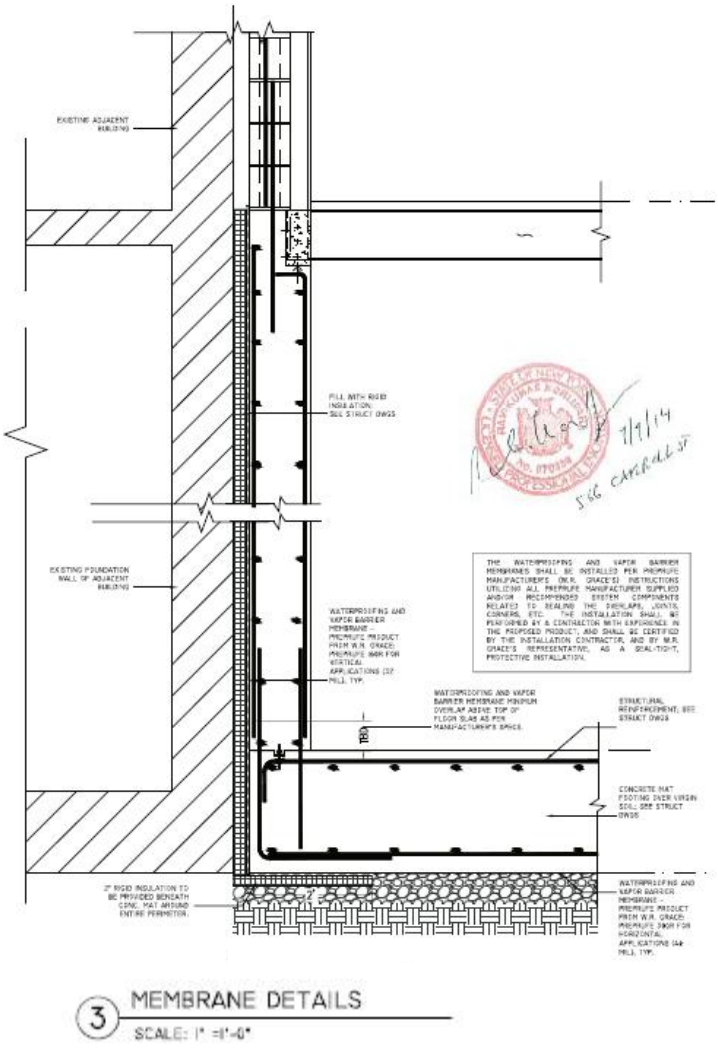

FIGURE 9: AS-BUILT DESIGN DETAIL FOR VAPOR BARRIER SYSTEM – Part II	
Block: 961	**Lot: 7**
Address: 566 Carroll Street Brooklyn, NY 11215	
Airtek Project Number: 13-0933D	**Date:** 09-09-2015

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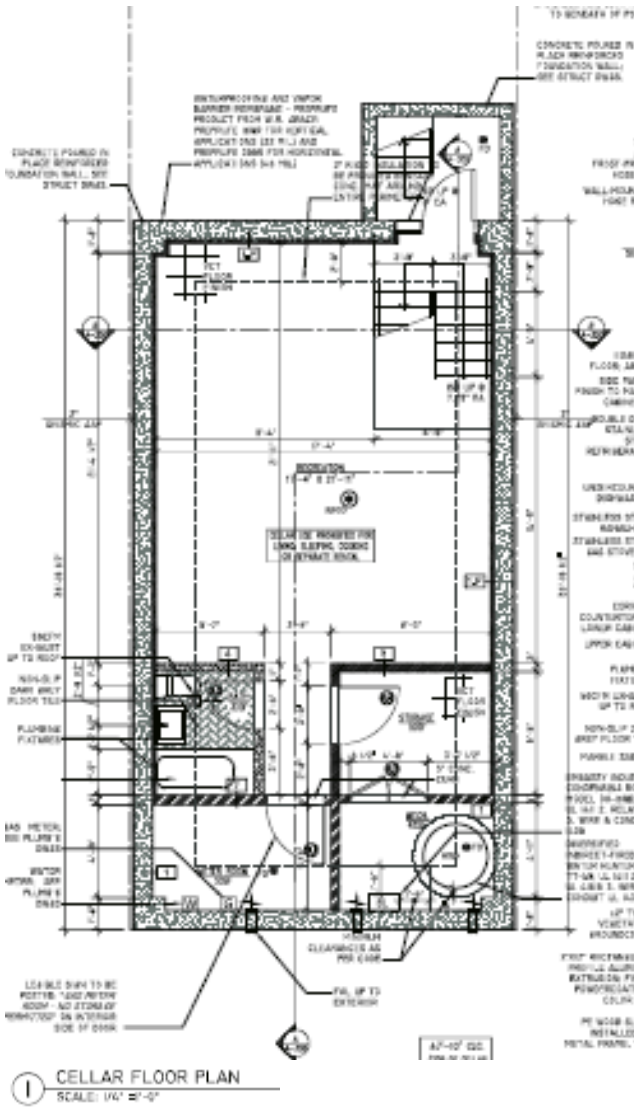

FIGURE 10: MAP OF LOCATION OF VAPOR BARRIER SYSTEM	
Block: 961	**Lot: 7**
Address: 566 Carroll Street Brooklyn, NY 11215	
Airtek Project Number: 13-0933D	**Date:** 09-09-2015

TABLES

Table 1: Community Air Monitoring Daily Data Summary

566 Carroll Street, Brooklyn, NY 11215

Remedial Action Work Plan Compliance (1/8/15 -2/6/15)

Dust Monitor: Dust Trak2 Desktop Monitor 8530

PID: MiniRAE 3000 10.6 120V D

MultiRAE Plus

Date	Dust Trac Monitor (mg/m3)						PID (ppm)									Comments
	Upwind			Downwind			Upwind			Downwind (1st truck loading)			Downwind (2nd truck loading)			
	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	
1/8/2015	0.04	1.26	0.013	0.091	2.38	0.017	0	0	0	0.032	0.306	0	N/A	N/A	N/A	PID downwind data was for two trucks
1/9/2015	0.027	0.075	0.019	0.032	0.079	0	0	0	0	0.082	0.414	0.019	0.119	0.648	0.009	
1/10/2015	**Weekend - No Site Work**															
1/11/2015																
1/12/2015	0.047	0.262	0.03	0.053	0.152	0.032	0	0	0	0.011	0.283	0	0.003	0.077	0	
1/13/2015	0.02	0.159	0.011	0.026	0.188	0.014	0	0	0	0	0	0	0.003	0.36	0	
1/14/2015	0.033	0.146	0.021	0.041	0.26	0.025	0	0	0	0.035	1.377	0	N/A	N/A	N/A	PID downwind data was for entire day work
1/15/2015	0.041	0.098	0.03	0.061	0.733	0	0	0	0	0.017	1.566	0	0.051	0.273	0	
1/16/2015	0.072	0.177	0.057	0.087	0.168	0.069	0	0	0	0.114	0.735	0.033	0.003	0.089	0	
1/19/2015	**Holiday - No Site Work**															
1/20/2015	0.023	0.895	0.013	0.052	2.3	0.015	0	0	0	0.203	0.931	0	0.251	7.37	0.066	Downwind PID data had four sets of readings during soil raking activities at the site. The remaining two sets of data are: Avg. 0.043 and 0.096; Max. 0.124 and 0.472; and Min. 0.01 and 0.024.
1/21/2015	0.026	0.657	0.008	0.098	3.61	0	0	0	0	0.049	4.663	0	N/A	N/A	N/A	PID downwind data was for entire day work
1/22/2015																
1/23/2015																
1/24/2015	**Weekend - No Site Work**															
1/25/2015																
1/26/2015	**No Site Work Due to Snow Storm and Pending Site Survey**															
1/27/2015																
1/28/2015																
1/29/2015																
1/30/2015																
1/31/2015	**Weekend - No Site Work**															
2/1/2015																
2/2/2015	**No Site Work Due to the Weather**															
2/3/2015																
2/4/2015	0.037	0.079	0.022	0.044	0.163	0	N/A*	N/A*	N/A*	0.026	1.009	0	0	0	0	* No data due to PID malfunction. Downwind PID data had three sets of readings for the day. The remaining set of data are: Avg. 0.017; Max. 0.497; and Min. 0.
2/5/2015	0.015	0.032	0	0.027	0.167	0	N/A*	N/A*	N/A*	0.015	0.144	0	0.133	0.335	0	* No data due to PID malfunction.
2/6/2015	0.044	0.142	0	0.041	0.45	0	0.018	1.577	0	0.083	0.669	0	0.037	0.189	0	Downwind PID data had four sets of readings for the day. The remaining two sets of data are: Avg. 0.053 and 0.062; Max. 0.871 and 0.259; and Min. 0.008 and 0.006.

Table 2:
Summary of End-Point Samples Analytical Results for TAL Metals
566 Carroll Street, Brooklyn, NY

SAMPLE NO.			S-1		S-2		S-3				
SAMPLING DATE			08-JAN-15		06-FEB-15		06-FEB-15		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Restricted Residential
LAB SAMPLE ID			L1500365-01		L1502424-01		L1502424-02				
LOCATION			Rear Yard		Construction Area		Construction Area				
	CAS Number	Units		Qual		Qual		Qual			
Aluminum, Total	7429-90-5	mg/kg	6200		6600		6600				
Antimony, Total	7440-36-0	mg/kg	0.8	J	0.69	U	0.73	U			
Arsenic, Total	7440-38-2	mg/kg	6.9		3.8		4.3		13	16	16
Barium, Total	7440-39-3	mg/kg	120		160		180		350	350	400
Beryllium, Total	7440-41-7	mg/kg	0.36	J	0.32	J	0.35	J	7.2	14	72
Cadmium, Total	7440-43-9	mg/kg	0.64	J	0.26	J	0.32	J	2.5	2.5	4.3
Calcium, Total	7440-70-2	mg/kg	8400		7100		7100				
Chromium, Total	7440-47-3	mg/kg	17		19		18				
Cobalt, Total	7440-48-4	mg/kg	6.4		5.2		5.3			30	
Copper, Total	7440-50-8	mg/kg	65		33		36		50	270	270
Iron, Total	7439-89-6	mg/kg	12000		11000		14000			2000	
Lead, Total	7439-92-1	mg/kg	350		210		260		63	400	400
Magnesium, Total	7439-95-4	mg/kg	3700		2800		3200				
Manganese, Total	7439-96-5	mg/kg	260		200		220		1600	2000	2000
Mercury, Total	7439-97-6	mg/kg	1.1		0.87		0.86		0.18	0.81	0.81
Nickel, Total	7440-02-0	mg/kg	27		18		20		30	140	310
Potassium, Total	7440-09-7	mg/kg	920		1400		1100				
Selenium, Total	7782-49-2	mg/kg	0.27	U	0.26	U	0.4	J	3.9	36	180
Silver, Total	7440-22-4	mg/kg	0.19	J	0.17	U	0.18	U	2	36	180
Sodium, Total	7440-23-5	mg/kg	110	J	130	J	130	J			
Thallium, Total	7440-28-0	mg/kg	0.36	U	0.35	U	0.36	U			
Vanadium, Total	7440-62-2	mg/kg	20		20		20			100	
Zinc, Total	7440-66-6	mg/kg	260		160		180		109	2200	10000

Notes:

Any regulatory Exceedance are colored in framed green

U = Undetected

J = Analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated.

Table 2:											
Summary of End-Point Samples Analytical Results for SVOCs											
566 Carroll Street, Brooklyn, NY											
SAMPLE NO.			S-1		S-2		S-3				
SAMPLING DATE			08-JAN-15		06-FEB-15		06-FEB-15		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Restricted Residential
LAB SAMPLE ID			L1500365-01		L1502424-01		L1502424-02				
LOCATION			Rear Yard	Construction Area		Construction Area					
	CAS Number	Units		Qual		Qual		Qual			
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	0.06	U	0.059	U	0.24	U			
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.063	U	0.063	U	0.25	U			
1,2-Dichlorobenzene	95-50-1	mg/kg	0.063	U	0.063	U	0.25	U	1.1	100	100
1,3-Dichlorobenzene	541-73-1	mg/kg	0.061	U	0.06	U	0.24	U	2.4	17	49
1,4-Dichlorobenzene	106-46-7	mg/kg	0.058	U	0.058	U	0.23	U	1.8	9.8	13
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.062	U	0.062	U	0.25	U		100	
2,4,6-Trichlorophenol	88-06-2	mg/kg	0.036	U	0.036	U	0.14	U			
2,4-Dichlorophenol	120-83-2	mg/kg	0.062	U	0.062	U	0.25	U		100	
2,4-Dimethylphenol	105-67-9	mg/kg	0.057	U	0.057	U	0.23	U			
2,4-Dinitrophenol	51-28-5	mg/kg	0.26	U	0.26	U	1	U		100	
2,4-Dinitrotoluene	121-14-2	mg/kg	0.041	U	0.041	U	0.16	U			
2,6-Dinitrotoluene	606-20-2	mg/kg	0.049	U	0.049	U	0.2	U		1.03	
2-Chloronaphthalene	91-58-7	mg/kg	0.063	U	0.062	U	0.25	U			
2-Chlorophenol	95-57-8	mg/kg	0.058	U	0.058	U	0.23	U		100	
2-Methylnaphthalene	91-57-6	mg/kg	0.077	J	0.061	U	1.8			0.41	
2-Methylphenol	95-48-7	mg/kg	0.062	U	0.062	U	0.25	U	0.33	100	100
2-Nitroaniline	88-74-4	mg/kg	0.054	U	0.054	U	0.22	U			
2-Nitrophenol	88-75-5	mg/kg	0.06	U	0.06	U	0.24	U			
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.051	U	0.051	U	0.2	U			
3-Methylphenol/4-Methylphenol	108-39-4	mg/kg	0.063	U	0.063	U	0.25	U	0.33	34	100
3-Nitroaniline	99-09-2	mg/kg	0.053	U	0.053	U	0.21	U			
4,6-Dinitro-o-cresol	534-52-1	mg/kg	0.07	U	0.07	U	0.28	U			
4-Bromophenyl phenyl ether	101-55-3	mg/kg	0.044	U	0.044	U	0.18	U			
4-Chloroaniline	106-47-8	mg/kg	0.051	U	0.051	U	0.2	U		100	
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	0.058	U	0.058	U	0.23	U			
4-Nitroaniline	100-01-6	mg/kg	0.052	U	0.052	U	0.21	U			
4-Nitrophenol	100-02-7	mg/kg	0.062	U	0.062	U	0.25	U			
Acenaphthene	83-32-9	mg/kg	0.26		0.12	J	3.4		20	100	100
Acenaphthylene	208-96-8	mg/kg	0.25		0.049	J	0.48	J	100	100	100
Acetophenone	98-86-2	mg/kg	0.06	U	0.059	U	0.24	U			
Anthracene	120-12-7	mg/kg	0.84		0.24		3.3		100	100	100
Benzo(a)anthracene	56-55-3	mg/kg	2.4		0.69		5.9		1	1	1
Benzo(a)pyrene	50-32-8	mg/kg	2.3		0.62		4.6		1	1	1

Table 2:											
Summary of End-Point Samples Analytical Results for SVOCs (Continued)											
566 Carroll Street, Brooklyn, NY											
SAMPLE NO.			S-1		S-2		S-3				
SAMPLING DATE			08-JAN-15		06-FEB-15		06-FEB-15		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Restricted Residential
LAB SAMPLE ID			L1500365-01		L1502424-01		L1502424-02				
LOCATION			Rear Yard	Construction Area		Construction Area					
	CAS Number	Units		Qual		Qual		Qual			
Benzo(b)fluoranthene	205-99-2	mg/kg	3		0.87		6.2		1	1	1
Benzo(ghi)perylene	191-24-2	mg/kg	1.6		0.37		2.4		100	100	100
Benzo(k)fluoranthene	207-08-9	mg/kg	0.94		0.29		2.1		0.8	1	3.9
Benzoic Acid	65-85-0	mg/kg	0.19	U	0.19	U	0.77	U		100	
Benzyl Alcohol	100-51-6	mg/kg	0.059	U	0.059	U	0.24	U			
Biphenyl	92-52-4	mg/kg	0.063	U	0.063	U	0.57	J			
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	0.058	U	0.058	U	0.23	U			
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.054	U	0.054	U	0.21	U			
Bis(2-chloroisopropyl)ether	108-60-1	mg/kg	0.068	U	0.068	U	0.27	U			
Bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	0.26		0.05	U	0.2	U		50	
Butyl benzyl phthalate	85-68-7	mg/kg	0.038	U	0.037	U	0.23	J		100	
Carbazole	86-74-8	mg/kg	0.41		0.11	J	1.4				
Chrysene	218-01-9	mg/kg	2.1		0.72		5.8		1	1	3.9
Di-n-butylphthalate	84-74-2	mg/kg	0.037	U	0.037	U	0.15	U		100	
Di-n-octylphthalate	117-84-0	mg/kg	0.047	U	0.047	U	0.19	U		100	
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.38		0.09	J	0.72		0.33	0.33	0.33
Dibenzofuran	132-64-9	mg/kg	0.18	J	0.068	J	2.6		7	14	59
Diethyl phthalate	84-66-2	mg/kg	0.041	U	0.04	U	0.16	U		100	
Dimethyl phthalate	131-11-3	mg/kg	0.049	U	0.049	U	0.19	U		100	
Fluoranthene	206-44-0	mg/kg	4.9		1.5		15		100	100	100
Fluorene	86-73-7	mg/kg	0.28		0.087	J	2.2		30	100	100
Hexachlorobenzene	118-74-1	mg/kg	0.036	U	0.036	U	0.14	U	0.33	0.41	1.2
Hexachlorobutadiene	87-68-3	mg/kg	0.054	U	0.054	U	0.22	U			
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.12	U	0.12	U	0.49	U			
Hexachloroethane	67-72-1	mg/kg	0.035	U	0.035	U	0.14	U			
Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	1.5		0.39		2.6		0.5	0.5	0.5
Isophorone	78-59-1	mg/kg	0.051	U	0.051	U	0.2	U		100	
n-Nitrosodi-n-propylamine	621-64-7	mg/kg	0.057	U	0.057	U	0.23	U			
Naphthalene	91-20-3	mg/kg	0.12	J	0.096	J	2.6		12	100	100
Nitrobenzene	98-95-3	mg/kg	0.046	U	0.046	U	0.18	U		3.7	15
NitrosoDiPhenylAmine(NDPA)/DP	86-30-6	mg/kg	0.04	U	0.04	U	0.16	U			
P-Chloro-M-Cresol	59-50-7	mg/kg	0.056	U	0.056	U	0.22	U			

Table 2:
Summary of End-Point Samples Analytical Results for SVOCs (Continued)
566 Carroll Street, Brooklyn, NY

SAMPLE NO.			**S-1**		**S-2**		**S-3**				
SAMPLING DATE			**08-JAN-15**		**06-FEB-15**		**06-FEB-15**		**NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives**	**NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential**	**NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Restricted**
LAB SAMPLE ID			**L1500365-01**		**L1502424-01**		**L1502424-02**				
LOCATION			**Rear Yard**	**Construction Area**		**Construction Area**					
	CAS Number	**Units**		**Qual**		**Qual**		**Qual**			
Pentachlorophenol	**87-86-5**	**mg/kg**	**0.041**	**U**	**0.041**	**U**	**0.16**	**U**	**0.8**	**2.4**	**6.7**
Phenanthrene	**85-01-8**	**mg/kg**	**2.9**		**1.1**		**19**		**100**	**100**	**100**
Phenol	**108-95-2**	**mg/kg**	**0.057**	**U**	**0.057**	**U**	**0.23**	**U**	**0.33**	**100**	**100**
Pyrene	**129-00-0**	**mg/kg**	**3.9**		**1.3**		**12**		**100**	**100**	**100**

Notes:

Any regulatory Exceedance are colored in framed green

U = Undetected

J = Analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated.

Table 2:
Summary of End-Point Samples Analytical Results for Pesticides
566 Carroll Street, Brooklyn, NY

SAMPLE NO.			S-1		S-2		S-3				
SAMPLING DATE			08-JAN-15		06-FEB-15		06-FEB-15		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Restricted Residential
LAB SAMPLE ID			L1500365-01		L1502424-01		L1502424-02				
LOCATION			Rear Yard	Construction Area		Construction Area					
	CAS Number	Units		Qual		Qual		Qual			
4,4'-DDD	72-54-8	mg/kg	0.000652	U	0.000625	U	0.000639	U	0.0033	2.6	13
4,4'-DDE	72-55-9	mg/kg	0.000422	U	0.0108		0.0118		0.0033	1.8	8.9
4,4'-DDT	50-29-3	mg/kg	0.00147	U	0.0525		0.0534		0.0033	1.7	7.9
Aldrin	309-00-2	mg/kg	0.000643	U	0.00272		0.00172	J	0.005	0.019	0.097
Alpha-BHC	319-84-6	mg/kg	0.000216	U	0.000207	U	0.000212	U	0.02	0.097	0.48
Beta-BHC	319-85-7	mg/kg	0.000693	U	0.000664	U	0.00068	U	0.036	0.072	0.36
Chlordane	57-74-9	mg/kg	0.00605	U	0.0443		0.0344				
cis-Chlordane	5103-71-9	mg/kg	0.000636	U	0.00857		0.00507		0.094	0.91	4.2
Delta-BHC	319-86-8	mg/kg	0.000358	U	0.000343	U	0.000351	U	0.04	100	100
Dieldrin	60-57-1	mg/kg	0.000571	U	0.0239		0.0382		0.005	0.039	0.2
Endosulfan I	959-98-8	mg/kg	0.000432	U	0.000414	U	0.000423	U	2.4	4.8	24
Endosulfan II	33213-65-9	mg/kg	0.00061	U	0.000586	U	0.000599	U	2.4	4.8	24
Endosulfan sulfate	1031-07-8	mg/kg	0.000362	U	0.000348	U	0.000355	U	2.4	4.8	24
Endrin	72-20-8	mg/kg	0.000312	U	0.000299	U	0.000306	U	0.014	2.2	11
Endrin ketone	53494-70-5	mg/kg	0.00047	U	0.000451	U	0.000461	U			
Heptachlor	76-44-8	mg/kg	0.00041	U	0.000393	U	0.000402	U	0.042	0.42	2.1
Heptachlor epoxide	1024-57-3	mg/kg	0.00103	U	0.000986	U	0.00101	U		0.077	
Lindane	58-89-9	mg/kg	0.00034	U	0.000326	U	0.000334	U	0.1	0.28	1.3
Methoxychlor	72-43-5	mg/kg	0.00106	U	0.00102	U	0.00104	U		100	
Toxaphene	8001-35-2	mg/kg	0.00959	U	0.0092	U	0.00941	U			
trans-Chlordane	5103-74-2	mg/kg	0.000603	U	0.00472		0.0102			0.54	

Notes:

Any regulatory Exceedance are colored in framed green

U = Undetected

J = Analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated.

Table 3: Manifest/Waste Disposal Inventory Summary

566 Carroll Street, Brooklyn, NY 11215
Generator ID No.: 2715-0002
Remedial Action Work Plan Compliance (1/8/15 -2/6/15)

Receiving Facility: Bayshore Soil Management, LLC
Address: 75 Crows Mill Road, Keasbay, NJ 08832
Contact/Phone No.: Kassandra Lacerda/(732) 738-6000
Facility ID: NJDEP ID: 132397
U.S. EPA ID No.: NJ1225001522

Transporter: Disalvo Trucking Inc.
Address: 2439 169th St, Whitestone, NY 11357
Contact/Phone No.: Philip Disalvo/ (347) 245-4835
U.S. EPA ID No.: 2A-744

Date	Description of Material	Waste Tracking No.	Truck Plate/No.	Quantities	Waste Tracking No.	Truck Plate/No.	Quantities	Total (ton)
1/8/2015	Non-Hazardous PC Soil	E0071559	20502PB/147	21.91	E0071560	20502PB	23.15	45.06
1/9/2015	Non-Hazardous PC Soil	E0071562	36590ME/363	20.07	E0071563	36590ME/363	20.50	40.57
1/10/2015	**Weekend - No Site Work**							0
1/11/2015								0
1/12/2015	Non-Hazardous PC Soil	E0071564	20502PB	22.80	E0071561	20502PB	25.94	48.74
1/13/2015	Non-Hazardous PC Soil	E0071573	36590ME	27.52	E0071565	36590ME	22.15	49.67
1/14/2015	Non-Hazardous PC Soil	E0071571	36590ME	22.32	E0071572	36590ME	23.13	45.45
1/15/2015	Non-Hazardous PC Soil	E0071570	36590ME	24.38	E0071569	36590ME	24.89	49.27
1/16/2015	**No Soil Disposal**							0
1/17/2015	**Weekend - No Site Work**							0
1/18/2015								0
1/19/2015	**Holiday - No Site Work**							0
1/20/2015	**No Soil Disposal**							0
1/21/2015								0
1/22/2015								0
1/23/2015	Non-Hazardous PC Soil	E0071567	36590ME	23.01	E0071568	36590ME	22.44	45.45
1/24/2015	**Weekend - No Site Work**							0
1/25/2015								0
1/26/2015	**No Soil Disposal**							0
1/27/2015								0
1/28/2015								0
1/29/2015								0
1/30/2015								0
1/31/2015	**Weekend - No Site Work**							0
2/1/2015								0
2/2/2015	**No Site Work - Due to the Weather**							0
2/3/2015								0
2/4/2015	**No Soil Disposal**							0
2/5/2015	Non-Hazardous PC Soil	E0071566	20502PB	22.91	E0070918	20502PB	22.05	44.96
2/5/2015	Non-Hazardous PC Soil	E0070919	36590ME	21.84	E0070920	36590ME	20.82	42.66
2/6/2015	Non-Hazardous PC Soil	E0070901	32565MB	24.56	E0070905	36590ME	20.75	45.31
2/6/2015	Non-Hazardous PC Soil	E0070902	32565MB	23.48	E0070904	20502PB	21.44	44.92
2/6/2015	Non-Hazardous PC Soil	E0070906	36590ME	6.03				6.03
								0
TOTAL				**260.83**			**247.26**	**508.09**

Table 4: Imported Clean Soil Inventory Summary

566 Carroll Street, Brooklyn, NY 11215
Remedial Action Work Plan Compliance (1/8/15 -)

Clean Soil Source: Stony Creek Services
Address: 4001 Daly Blvd., Oceanside, NY 11572

Provider: Restoration & Conservation LLC
Address: 9-22 119th Street, College Point, NY 11356
Contact/Phone No.: James Cervino/917- 620-5287

Date	Material	Quantities (cu. yds.)	Truck No./Receipt No.	Quantities (cu. yds.)	Truck No./Receipt No.	Total (cu. yds.)
1/13/2015	Clean Fill	18	746/92584	18	746/92600	36
1/14/2015	Clean Fill	18	363/92620			18
TOTAL						**54**

Note: 1 cu. yd = 1.5 tons for aggregate, sand and dirt. Total clean soil: 81 tons.

APPENDIX 1

SOIL/MATERIALS MANAGEMENT PLAN

1.1 Soil Screening Methods

Visual, olfactory and PID soil screening and assessment will be performed under the supervision of a Qualified Environmental Professional and will be reported in the RAR. Soil screening will be performed during invasive work performed during the remedy and development phases prior to issuance of the Notice of Completion.

1.2 Stockpile Methods

Excavated soil from suspected areas of contamination (e.g., hot spots, USTs, drains, etc.) will be stockpiled separately and will be segregated from clean soil and construction materials. Stockpiles will be used only when necessary and will be removed as soon as practicable. While stockpiles are in place, they will be inspected daily, and before and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. Excavated soils will be stockpiled on, at minimum, double layers of 8-mil minimum sheeting, will be kept covered at all times with appropriately anchored plastic tarps, and will be routinely inspected. Broken or ripped tarps will be promptly replaced.

All stockpile activities will be compliant with applicable laws and regulations. Soil stockpile areas will be appropriately graded to control run-off in accordance with applicable laws and regulations. Stockpiles of excavated soils and other materials shall be located at least of 50 feet from the property boundaries, where possible. Hay bales or equivalent will surround soil stockpiles except for areas where access by equipment is required. Silt fencing and hay bales will be used as needed near catch basins, surface waters and other discharge points.

1.3 Characterization of Excavated Materials

Soil/fill or other excavated media that is transported off-Site for disposal will be sampled in a manner required by the receiving facility, and in compliance with applicable laws and regulations. Soils proposed for reuse on-Site will be managed as defined in this plan.

1.4 Materials Excavation, Load-Out and Departure

The PE/QEP overseeing the remedial action will:

- oversee remedial work and the excavation and load-out of excavated material;
- ensure that there is a party responsible for the safe execution of invasive and other work performed under this work plan;
- ensure that Site development activities and development-related grading cuts will not interfere with, or otherwise impair or compromise the remedial activities proposed in this RAWP;
- ensure that the presence of utilities and easements on the Site has been investigated and that any identified risks from work proposed under this plan are properly addressed by appropriate parties;
- ensure that all loaded outbound trucks are inspected and cleaned if necessary before leaving the Site;
- ensure that all egress points for truck and equipment transport from the Site will be kept clean of Site-derived materials during Site remediation.

Locations where vehicles exit the Site shall be inspected daily for evidence of soil tracking off premises. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

Open and uncontrolled mechanical processing of historical fill and contaminated soil on-Site will not be performed without prior OER approval.

1.5 Off-Site Materials Transport

Loaded vehicles leaving the Site will comply with all applicable materials transportation requirements (including appropriate covering, manifests, and placards) in accordance with applicable laws and regulations, including use of licensed haulers in accordance with 6 NYCRR Part 364. If loads contain wet material capable of causing leakage from trucks, truck liners will be used. Queuing of trucks will be performed on-Site, when possible in order to minimize off Site disturbance. Off-Site queuing will be minimized.

Outbound truck transport routes are discussed in the Section 5.8 of the RAWP.

This routing takes into account the following factors: (a) limiting transport through residential areas and past sensitive sites; (b) use of mapped truck routes; (c) minimizing off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. To the extent possible, all trucks loaded with Site materials will travel from the Site using these truck routes. Trucks will not stop or idle in the neighborhood after leaving the project Site.

1.6 Materials Disposal Off-Site

The following documentation will be established and reported by the PE/QEP for each disposal destination used in this project to document that the disposal of regulated material exported from the Site conforms with applicable laws and regulations: (1) a letter from the PE/QEP or Enrollee to each disposal facility describing the material to be disposed and requesting written acceptance of the material. This letter will state that material to be disposed is regulated material generated at an environmental remediation Site in Brooklyn, New York under a governmental remediation program. The letter will provide the project identity and the name and phone number of the PE/QEP or Enrollee. The letter will include as an attachment a summary of all chemical data for the material being transported; and (2) a letter from each disposal facility stating it is in receipt of the correspondence (1, above) and is approved to accept the material. These documents will be included in the RAR.

The Remedial Action Report will include an itemized account of the destination of all material removed from the Site during this remedial action. Documentation associated with disposal of all material will include records and approvals for receipt of the material. This information will be presented in the RAR.

All impacted soil/fill or other waste excavated and removed from the Site will be managed as regulated material and will be disposed in accordance with applicable laws and regulations. Historic fill and contaminated soils taken off-Site will be handled as solid waste and will not be disposed at a Part 360-16 Registration Facility (also known as a Soil Recycling Facility).

Waste characterization will be performed for off-Site disposal in a manner required by the receiving facility and in conformance with its applicable permits. Waste

characterization sampling and analytical methods, sampling frequency, analytical results and QA/QC will be reported in the RAR. A manifest system for off-Site transportation of exported materials will be employed. Manifest information will be reported in the RAR. Hazardous wastes derived from on-Site will be stored, transported, and disposed of in compliance with applicable laws and regulations.

1.7 Materials Reuse On-Site

Soil and fill that is derived from the property that meets the soil cleanup objectives established in this plan may be reused on-Site. 'Reuse on-Site' means material that is excavated during the remedy or development, does not leave the property, and is relocated within the same property and on comparable soil/fill material, and addressed pursuant to the NYC VCP agreement subject to Engineering and Institutional Controls. The PE/QEP will ensure that reused materials are segregated from other materials to be exported from the Site and that procedures defined for material reuse in this RAWP are followed.

Organic matter (wood, roots, stumps, etc.) or other waste derived from clearing and grubbing of the Site will not be buried on-Site. Soil or fill excavated from the site for grading or other purposes will not be reused within a cover soil layer or within landscaping berms.

1.8 Demarcation

After completion of hotspot removal and any other invasive remedial activities, and prior to backfilling, the top of the residual soil/fill will be defined by one of three methods: (1) placement of a demarcation layer. The demarcation layer will consist of geosynthetic fencing or equivalent material to be placed on the surface of residual soil/fill to provide an observable reference layer. A description or map of the approximate depth of the demarcation layer will be provided in the SMP; or (2) a land survey of the top elevation of residual soil/fill before the placement of cover soils, pavement and associated sub-soils, or other materials or structures or, (3) all materials beneath the approved cover will be considered impacted and subject to site management after the remedy is complete. Demarcation may be established by one or any combination of these three methods. As appropriate, a map showing the method of demarcation for the Site and all associated documentation will be presented in the RAR.

This demarcation will constitute the top of the site management horizon. Materials within this horizon require adherence to special conditions during future invasive activities as defined in the Site Management Plan.

1.9 import of Backfill Soil from Off-Site Sources

This Section presents the requirements for imported fill materials to be used below the cover layer and within the clean soil cover layer. All imported soils will meet OER-approved backfill and cover soil quality objectives for this Site.

A process will be established to evaluate sources of backfill and cover soil to be imported to the Site, and will include an examination of source location, current and historical use(s), and any applicable documentation. Material from industrial sites, spill sites, environmental remediation sites or other potentially contaminated sites will not be imported to the Site.

The following potential sources may be used pending attainment of backfill and cover soil quality objectives:

- Clean soil from construction projects at non-industrial sites in compliance with applicable laws and regulations;
- Clean soil from roadway or other transportation-related projects in compliance with applicable laws and regulations;
- Clean recycled concrete aggregate (RCA) from facilities permitted or registered by the regulations of NYS DEC.

All materials received for import to the Site will be approved by a PE/QEP and will be in compliance with provisions in this RAWP. The RAR will report the source of the fill, evidence that an inspection was performed on the source, chemical sampling results, frequency of testing, and a Site map indicating the locations where backfill or soil cover was placed.

Source Screening and Testing

Inspection of imported fill material will include visual, olfactory and PID screening for evidence of contamination. Materials imported to the Site will be subject to inspection, as follows:

- Trucks with imported fill material will be in compliance with applicable

laws and regulations and will enter the Site at designated locations;

- The PE/QEP is responsible to ensure that every truck load of imported material is inspected for evidence of contamination; and
- Fill material will be free of solid waste including pavement materials, debris, stumps, roots, and other organic matter, as well as ashes, oil, perishables or foreign matter.

Composite samples of imported material will be taken at a minimum frequency of one sample for every 500 cubic yards of material. Once it is determined that the fill material meets imported backfill or cover soil chemical requirements and is non-hazardous, and lacks petroleum contamination, the material will be loaded onto trucks for delivery to the Site.

Recycled concrete aggregate (RCA) will be imported from facilities permitted or registered by NYSDEC. Facilities will be identified in the RAR. A PE/QEP is responsible to ensure that the facility is compliant with 6NYCRR Part 360 registration and permitting requirements for the period of acquisition of RCA. RCA imported from compliant facilities will not require additional testing, unless required by NYSDEC under its terms for operation of the facility. RCA imported to the Site must be derived from recognizable and uncontaminated concrete. RCA material is not acceptable for, and will not be used as cover material.

1.10 Fluids Management

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported and disposed in accordance with applicable laws and regulations. Liquids discharged into the New York City sewer system will receive prior approval by New York City Department of Environmental Protection (NYC DEP). The NYC DEP regulates discharges to the New York City sewers under Title 15, Rules of the City of New York Chapter 19. Discharge to the New York City sewer system will require an authorization and sampling data demonstrating that the groundwater meets the City's discharge criteria. The dewatering fluid will be pretreated as necessary to meet the NYC DEP discharge criteria. If discharge to the City sewer system is not appropriate, the dewatering fluids will be managed by transportation and disposal at an off-Site treatment facility.

Discharge of water generated during remedial construction to surface waters (i.e. a stream or river) is prohibited without a SPDES permit issued by New York State Department of Environmental Conservation.

1.11 Storm-water Pollution Prevention

Applicable laws and regulations pertaining to storm-water pollution prevention will be addressed during the remedial program. Erosion and sediment control measures identified in this RAWP (silt fences and barriers, and hay bale checks) will be installed around the entire perimeter of the remedial construction area and inspected once a week and after every storm event to ensure that they are operating appropriately. Discharge locations will be inspected to determine whether erosion control measures are effective in preventing significant impacts to receptors. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. All necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. Undercutting or erosion of the silt fence toe anchor will be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

1.12 Contingency Plan

This contingency plan is developed for the remedial construction to address the discovery of unknown structures or contaminated media during excavation. Identification of unknown contamination source areas during invasive Site work will be promptly communicated to OER's Project Manager. Petroleum spills will be reported to the NYS DEC Spill Hotline. These findings will be included in the daily report. If previously unidentified contaminant sources are found during on-Site remedial excavation or development-related excavation, sampling will be performed on contaminated source material and surrounding soils and reported to OER. Chemical analytical testing will be performed for TAL metals, TCL volatiles and semi-volatiles, TCL pesticides and PCBs, as appropriate.

1.13 Odor, Dust and Nuisance Control

Odor Control

All necessary means will be employed to prevent on- and off-Site odor nuisances.

At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; and (e) use of chemical odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. OER will be notified of all odor complaint events. Implementation of all odor controls, including halt of work, will be the responsibility of the PE/QEP's certifying the Remedial Action Report.

Dust Control

Dust management during invasive on-Site work will include, at a minimum:

- Use of a dedicated water spray methodology for roads, excavation areas and stockpiles.
- Use of properly anchored tarps to cover stockpiles.
- Exercise extra care during dry and high-wind periods.
- Use of gravel or recycled concrete aggregate on egress and other roadways to provide a clean and dust-free road surface.

This dust control plan is capable of controlling emissions of dust. If nuisance dust emissions are identified, work will be halted and the source of dusts will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated. OER will be notified of all dust complaint events. Implementation of all dust controls, including halt of work, will be the responsibility of the PE/QEP's responsible for certifying the Remedial Action Report.

Other Nuisances

Noise control will be exercised during the remedial program. All remedial work will conform, at a minimum, to NYC noise control standards.

Rodent control will be provided, during Site clearing and grubbing, and during the remedial program, as necessary, to prevent nuisances.

APPENDIX 2

COMMUNITY AIR MONITORING PLAN

Real-time air monitoring for volatile organic compounds (VOCs) and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedences of action levels observed during performance of the Community Air Monitoring Plan (CAMP) will be reported to the OER Project Manager and included in the Daily Report.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis during invasive work. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings must be recorded and be available for OER personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression

techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

  All readings will be recorded and be available for OER personnel to review.

APPENDIX 3

RESULTS OF COMMUNITY AIR MONITORING

13-0933D 566 Carroll Street, Brooklyn, NY
January 8, 2015 Upwind Dustrak

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530111903
Firmware Version	3
Calibration Date	8/16/2013
Test Name	TEST 2_001
Test Start Time	7:45:57 AM
Test Start Date	1/8/2015
Test Length [D:H:M]	0:06:09
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.04
Mass Minimum [mg/m3]	0.013
Mass Maximum [mg/m3]	1.26
Mass TWA [mg/m3]	0.031
Photometric User Cal	0.85
Flow User Cal	0
Errors	
Number of Samples	369

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.036		
120	0.061		
180	0.061		
240	0.04		
300	0.04		
360	0.026		
420	0.035		
480	0.047		
540	0.028		
600	0.021		
660	0.024		
720	0.024		
780	0.026		
840	0.035		
900	0.025		
960	0.024		
1020	0.078		
1080	0.202		
1140	1.07		
1200	0.093		
1260	0.049		
1320	0.032		
1380	0.027		
1440	0.034		
1500	0.037		
1560	0.025		
1620	0.018		
1680	0.018		
1740	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.03		
1860	0.038		
1920	0.048		
1980	0.032		
2040	0.03		
2100	0.101		
2160	0.075		
2220	0.06		
2280	0.028		
2340	0.031		
2400	0.026		
2460	0.032		
2520	0.021		
2580	0.022		
2640	0.024		
2700	0.025		
2760	0.038		
2820	0.024		
2880	0.024		
2940	0.027		
3000	0.039		
3060	0.038		
3120	0.029		
3180	0.025		
3240	0.021		
3300	0.03		
3360	0.024		
3420	0.022		
3480	0.028		
3540	0.027		
3600	0.026		
3660	0.026		
3720	0.029		
3780	0.026		
3840	0.025		
3900	0.035		
3960	0.025		
4020	0.024		
4080	0.025		
4140	0.029		
4200	0.026		
4260	0.023		
4320	0.023		
4380	0.026		
4440	0.025		
4500	0.03		
4560	0.037		
4620	0.03		
4680	0.025		
4740	0.025		
4800	0.025		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.026		
4920	0.028		
4980	0.03		
5040	0.029		
5100	0.027		
5160	0.04		
5220	0.024		
5280	0.024		
5340	0.028		
5400	0.029		
5460	0.024		
5520	0.024		
5580	0.029		
5640	0.029		
5700	0.028		
5760	0.031		
5820	0.038		
5880	0.025		
5940	0.029		
6000	0.031		
6060	0.027		
6120	0.033		
6180	0.024		
6240	0.025		
6300	0.024		
6360	0.026		
6420	0.026		
6480	0.026		
6540	0.026		
6600	0.024		
6660	0.024		
6720	0.021		
6780	0.027		
6840	0.035		
6900	0.028		
6960	0.027		
7020	0.023		
7080	0.02		
7140	0.027		
7200	0.028		
7260	0.026		
7320	0.029		
7380	0.031		
7440	0.032		
7500	0.027		
7560	0.033		
7620	0.03		
7680	0.026		
7740	0.027		
7800	0.029		
7860	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.023		
7980	0.025		
8040	0.029		
8100	0.032		
8160	0.028		
8220	0.033		
8280	0.034		
8340	0.039		
8400	0.028		
8460	0.032		
8520	0.033		
8580	0.035		
8640	0.034		
8700	0.033		
8760	0.04		
8820	0.025		
8880	0.033		
8940	0.029		
9000	0.204		
9060	0.159		
9120	0.144		
9180	0.111		
9240	0.108		
9300	1.26		
9360	0.728		
9420	0.043		
9480	0.047		
9540	0.031		
9600	0.026		
9660	0.09		
9720	0.061		
9780	0.057		
9840	0.048		
9900	0.032		
9960	0.024		
10020	0.053		
10080	0.057		
10140	0.051		
10200	0.05		
10260	0.045		
10320	0.023		
10380	0.026		
10440	0.022		
10500	0.025		
10560	0.042		
10620	0.023		
10680	0.056		
10740	0.033		
10800	0.086		
10860	0.052		
10920	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.045		
11040	0.073		
11100	0.052		
11160	0.059		
11220	0.048		
11280	0.061		
11340	0.051		
11400	0.036		
11460	0.047		
11520	0.039		
11580	0.044		
11640	0.041		
11700	0.061		
11760	0.025		
11820	0.027		
11880	0.019		
11940	0.023		
12000	0.022		
12060	0.018		
12120	0.019		
12180	0.026		
12240	0.024		
12300	0.017		
12360	0.017		
12420	0.017		
12480	0.015		
12540	0.027		
12600	0.018		
12660	0.022		
12720	0.017		
12780	0.019		
12840	0.02		
12900	0.018		
12960	0.018		
13020	0.017		
13080	0.018		
13140	0.018		
13200	0.015		
13260	0.021		
13320	0.018		
13380	0.018		
13440	0.02		
13500	0.017		
13560	0.015		
13620	0.018		
13680	0.016		
13740	0.023		
13800	0.02		
13860	0.019		
13920	0.018		
13980	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.024		
14100	0.024		
14160	0.02		
14220	0.023		
14280	0.017		
14340	0.019		
14400	0.017		
14460	0.018		
14520	0.024		
14580	0.022		
14640	0.019		
14700	0.02		
14760	0.023		
14820	0.015		
14880	0.016		
14940	0.017		
15000	0.018		
15060	0.017		
15120	0.018		
15180	0.023		
15240	0.02		
15300	0.018		
15360	0.02		
15420	0.017		
15480	0.019		
15540	0.021		
15600	0.019		
15660	0.013		
15720	0.016		
15780	0.02		
15840	0.017		
15900	0.016		
15960	0.019		
16020	0.022		
16080	0.016		
16140	0.021		
16200	0.019		
16260	0.024		
16320	0.025		
16380	0.022		
16440	0.036		
16500	0.04		
16560	0.023		
16620	0.019		
16680	0.02		
16740	0.021		
16800	0.025		
16860	0.026		
16920	0.043		
16980	0.035		
17040	0.037		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.017		
17160	0.027		
17220	0.021		
17280	0.02		
17340	0.018		
17400	0.028		
17460	0.018		
17520	0.017		
17580	0.018		
17640	0.024		
17700	0.024		
17760	0.035		
17820	0.026		
17880	0.032		
17940	0.031		
18000	0.032		
18060	0.033		
18120	0.033		
18180	0.062		
18240	0.072		
18300	0.03		
18360	0.035		
18420	0.039		
18480	0.024		
18540	0.094		
18600	0.032		
18660	0.017		
18720	0.022		
18780	0.025		
18840	0.02		
18900	0.025		
18960	0.024		
19020	0.024		
19080	0.023		
19140	0.029		
19200	0.021		
19260	0.026		
19320	0.019		
19380	0.021		
19440	0.018		
19500	0.02		
19560	0.026		
19620	0.021		
19680	0.023		
19740	0.023		
19800	0.022		
19860	0.018		
19920	0.02		
19980	0.019		
20040	0.027		
20100	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20160	0.021		
20220	0.018		
20280	0.018		
20340	0.029		
20400	0.021		
20460	0.02		
20520	0.021		
20580	0.02		
20640	0.046		
20700	0.043		
20760	0.035		
20820	0.026		
20880	0.022		
20940	0.03		
21000	0.041		
21060	0.031		
21120	0.024		
21180	0.031		
21240	0.034		
21300	0.032		
21360	0.022		
21420	0.025		
21480	0.025		
21540	0.029		
21600	0.019		
21660	0.024		
21720	0.024		
21780	0.033		
21840	0.056		
21900	0.099		
21960	0.121		
22020	0.127		
22080	0.031		
22140	0.036		

13-0933D 566 Carroll Street, Brooklyn, NY
January 8, 2015 Downwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530133020
Firmware Version		3
Calibration Date		7/29/2013
Test Name	TEST 1_002	
Test Start Time		7:42:29 AM
Test Start Date		1/8/2015
Test Length [D:H:M]		0:06:08
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.091
Mass Minimum [mg/m3]		0.017
Mass Maximum [mg/m3]		2.38
Mass TWA [mg/m3]		0.07
Photometric User Cal		0.9
Flow User Cal		0
Errors		
Number of Samples		368

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	2.38		
120	0.057		
180	0.066		
240	0.052		
300	0.044		
360	0.034		
420	0.029		
480	0.052		
540	0.026		
600	0.019		
660	0.017		
720	0.018		
780	0.022		
840	0.035		
900	0.037		
960	0.053		
1020	0.06		
1080	0.093		
1140	0.041		
1200	0.056		
1260	0.118		
1320	0.084		
1380	0.177		
1440	0.096		
1500	0.128		
1560	0.153		
1620	0.057		
1680	0.059		
1740	0.204		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.145		
1860	0.044		
1920	0.044		
1980	0.058		
2040	0.168		
2100	0.2		
2160	0.203		
2220	0.084		
2280	0.043		
2340	0.042		
2400	0.04		
2460	0.047		
2520	0.03		
2580	0.02		
2640	0.024		
2700	0.028		
2760	0.037		
2820	0.025		
2880	0.031		
2940	0.028		
3000	0.091		
3060	0.065		
3120	0.046		
3180	0.045		
3240	0.027		
3300	0.028		
3360	0.032		
3420	0.026		
3480	0.042		
3540	0.029		
3600	0.033		
3660	0.027		
3720	0.042		
3780	0.032		
3840	0.022		
3900	0.053		
3960	0.032		
4020	0.031		
4080	0.027		
4140	0.049		
4200	0.054		
4260	0.035		
4320	0.034		
4380	0.029		
4440	0.029		
4500	0.031		
4560	0.186		
4620	0.041		
4680	0.031		
4740	0.033		
4800	0.027		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.03		
4920	0.028		
4980	0.043		
5040	0.042		
5100	0.039		
5160	0.058		
5220	0.038		
5280	0.035		
5340	0.028		
5400	0.033		
5460	0.036		
5520	0.039		
5580	0.032		
5640	0.037		
5700	0.033		
5760	0.093		
5820	0.053		
5880	0.038		
5940	0.047		
6000	0.062		
6060	0.081		
6120	0.044		
6180	0.048		
6240	0.069		
6300	0.043		
6360	0.037		
6420	0.039		
6480	0.033		
6540	0.054		
6600	0.041		
6660	0.04		
6720	0.036		
6780	0.085		
6840	0.125		
6900	0.032		
6960	0.032		
7020	0.04		
7080	0.04		
7140	0.042		
7200	0.042		
7260	0.036		
7320	0.031		
7380	0.031		
7440	0.037		
7500	0.04		
7560	0.064		
7620	0.043		
7680	0.045		
7740	0.045		
7800	0.044		
7860	0.036		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.042		
7980	0.042		
8040	0.033		
8100	0.039		
8160	0.062		
8220	0.036		
8280	0.036		
8340	0.038		
8400	0.054		
8460	0.042		
8520	0.07		
8580	0.05		
8640	0.041		
8700	0.047		
8760	0.035		
8820	0.038		
8880	0.044		
8940	0.071		
9000	0.253		
9060	0.152		
9120	0.204		
9180	0.063		
9240	0.068		
9300	0.121		
9360	0.059		
9420	0.107		
9480	0.042		
9540	0.049		
9600	0.051		
9660	0.089		
9720	0.104		
9780	0.148		
9840	0.146		
9900	0.071		
9960	0.042		
10020	0.134		
10080	0.108		
10140	0.055		
10200	0.045		
10260	0.049		
10320	0.047		
10380	0.03		
10440	0.022		
10500	0.028		
10560	0.107		
10620	0.05		
10680	0.068		
10740	0.038		
10800	0.054		
10860	0.079		
10920	0.188		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.184		
11040	0.108		
11100	0.254		
11160	0.414		
11220	0.084		
11280	0.104		
11340	0.302		
11400	0.165		
11460	0.146		
11520	0.669		
11580	0.199		
11640	0.372		
11700	0.842		
11760	0.086		
11820	0.04		
11880	0.033		
11940	0.038		
12000	0.066		
12060	0.043		
12120	0.031		
12180	0.091		
12240	0.136		
12300	0.037		
12360	0.318		
12420	0.053		
12480	0.222		
12540	0.073		
12600	0.027		
12660	0.028		
12720	0.028		
12780	0.029		
12840	0.038		
12900	0.06		
12960	0.055		
13020	0.038		
13080	0.089		
13140	0.029		
13200	0.027		
13260	0.077		
13320	0.033		
13380	0.043		
13440	0.033		
13500	0.033		
13560	0.033		
13620	0.039		
13680	0.029		
13740	0.084		
13800	0.044		
13860	0.049		
13920	0.041		
13980	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.029		
14100	0.028		
14160	0.042		
14220	0.034		
14280	0.045		
14340	0.048		
14400	0.031		
14460	0.038		
14520	0.13		
14580	0.035		
14640	0.033		
14700	0.04		
14760	0.046		
14820	0.027		
14880	0.027		
14940	0.038		
15000	0.026		
15060	0.037		
15120	0.041		
15180	0.036		
15240	0.035		
15300	0.037		
15360	0.038		
15420	0.04		
15480	0.025		
15540	0.035		
15600	0.028		
15660	0.024		
15720	0.052		
15780	0.048		
15840	0.032		
15900	0.03		
15960	0.03		
16020	0.022		
16080	0.021		
16140	0.026		
16200	0.023		
16260	0.118		
16320	0.045		
16380	0.051		
16440	0.357		
16500	0.057		
16560	0.075		
16620	0.3		
16680	0.099		
16740	0.171		
16800	0.165		
16860	0.18		
16920	0.35		
16980	0.134		
17040	0.292		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.101		
17160	0.123		
17220	0.22		
17280	0.139		
17340	0.066		
17400	0.17		
17460	0.087		
17520	0.068		
17580	0.084		
17640	0.115		
17700	0.071		
17760	2.07		
17820	0.185		
17880	0.089		
17940	0.326		
18000	0.685		
18060	0.515		
18120	0.053		
18180	0.038		
18240	0.057		
18300	0.055		
18360	0.144		
18420	0.105		
18480	0.14		
18540	0.122		
18600	0.099		
18660	0.088		
18720	0.033		
18780	0.039		
18840	0.036		
18900	0.069		
18960	0.057		
19020	0.056		
19080	0.056		
19140	0.086		
19200	0.036		
19260	0.136		
19320	0.03		
19380	0.031		
19440	0.028		
19500	0.028		
19560	0.041		
19620	0.032		
19680	0.033		
19740	0.028		
19800	0.029		
19860	0.025		
19920	0.026		
19980	0.03		
20040	0.037		
20100	0.029		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20160	0.034		
20220	0.026		
20280	0.026		
20340	0.037		
20400	0.041		
20460	0.038		
20520	0.033		
20580	0.029		
20640	0.19		
20700	0.063		
20760	0.043		
20820	0.082		
20880	0.036		
20940	0.032		
21000	0.066		
21060	0.065		
21120	0.039		
21180	0.033		
21240	0.036		
21300	0.057		
21360	0.026		
21420	0.052		
21480	0.028		
21540	0.06		
21600	0.031		
21660	0.039		
21720	0.029		
21780	0.461		
21840	0.112		
21900	0.975		
21960	0.801		
22020	0.102		
22080	0.03		

13-0933D 566 Carroll Street, Brooklyn, NY
January 9, 2015 Upwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530111903
Firmware Version		3
Calibration Date		8/16/2013
Test Name	TEST 2_002	
Test Start Time		8:10:07 AM
Test Start Date		1/9/2015
Test Length [D:H:M]		0:07:49
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.027
Mass Minimum [mg/m3]		0.019
Mass Maximum [mg/m3]		0.075
Mass TWA [mg/m3]		0.027
Photometric User Cal		0.85
Flow User Cal		0
Errors		
Number of Samples		287

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.025		
120	0.048		
180	0.023		
240	0.023		
300	0.023		
360	0.023		
420	0.025		
480	0.025		
540	0.025		
600	0.024		
660	0.024		
720	0.025		
780	0.025		
840	0.027		
900	0.026		
960	0.028		
1020	0.028		
1080	0.026		
1140	0.028		
1200	0.026		
1260	0.026		
1320	0.027		
1380	0.027		
1440	0.024		
1500	0.024		
1560	0.027		
1620	0.027		
1680	0.034		
1740	0.038		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.025		
1860	0.027		
1920	0.026		
1980	0.035		
2040	0.034		
2100	0.025		
2160	0.025		
2220	0.025		
2280	0.024		
2340	0.028		
2400	0.025		
2460	0.024		
2520	0.024		
2580	0.024		
2640	0.027		
2700	0.026		
2760	0.024		
2820	0.023		
2880	0.024		
2940	0.025		
3000	0.027		
3060	0.03		
3120	0.026		
3180	0.031		
3240	0.025		
3300	0.026		
3360	0.025		
3420	0.026		
3480	0.027		
3540	0.027		
3600	0.027		
3660	0.029		
3720	0.028		
3780	0.028		
3840	0.028		
3900	0.025		
3960	0.028		
4020	0.029		
4080	0.035		
4140	0.033		
4200	0.033		
4260	0.032		
4320	0.031		
4380	0.035		
4440	0.03		
4500	0.03		
4560	0.034		
4620	0.028		
4680	0.03		
4740	0.029		
4800	0.033		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.031		
4920	0.027		
4980	0.027		
5040	0.03		
5100	0.037		
5160	0.039		
5220	0.03		
5280	0.03		
5340	0.029		
5400	0.029		
5460	0.027		
5520	0.026		
5580	0.027		
5640	0.027		
5700	0.027		
5760	0.028		
5820	0.029		
5880	0.029		
5940	0.028		
6000	0.03		
6060	0.029		
6120	0.028		
6180	0.027		
6240	0.026		
6300	0.026		
6360	0.025		
6420	0.028		
6480	0.025		
6540	0.025		
6600	0.025		
6660	0.025		
6720	0.026		
6780	0.027		
6840	0.025		
6900	0.025		
6960	0.026		
7020	0.026		
7080	0.028		
7140	0.025		
7200	0.027		
7260	0.027		
7320	0.027		
7380	0.028		
7440	0.028		
7500	0.028		
7560	0.026		
7620	0.026		
7680	0.026		
7740	0.025		
7800	0.026		
7860	0.027		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.026		
7980	0.026		
8040	0.027		
8100	0.027		
8160	0.026		
8220	0.026		
8280	0.026		
8340	0.025		
8400	0.024		
8460	0.023		
8520	0.024		
8580	0.025		
8640	0.026		
8700	0.026		
8760	0.027		
8820	0.027		
8880	0.027		
8940	0.027		
9000	0.027		
9060	0.028		
9120	0.028		
9180	0.029		
9240	0.027		
9300	0.028		
9360	0.028		
9420	0.029		
9480	0.027		
9540	0.027		
9600	0.028		
9660	0.029		
9720	0.028		
9780	0.029		
9840	0.029		
9900	0.029		
9960	0.03		
10020	0.03		
10080	0.03		
10140	0.029		
10200	0.029		
10260	0.029		
10320	0.03		
10380	0.029		
10440	0.028		
10500	0.028		
10560	0.028		
10620	0.028		
10680	0.029		
10740	0.029		
10800	0.028		
10860	0.027		
10920	0.028		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.026		
11040	0.027		
11100	0.027		
11160	0.027		
11220	0.028		
11280	0.028		
11340	0.028		
11400	0.027		
11460	0.027		
11520	0.028		
11580	0.029		
11640	0.03		
11700	0.029		
11760	0.028		
11820	0.028		
11880	0.028		
11940	0.027		
12000	0.024		
12060	0.025		
12120	0.026		
12180	0.025		
12240	0.025		
12300	0.024		
12360	0.024		
12420	0.026		
12480	0.028		
12540	0.028		
12600	0.026		
12660	0.025		
12720	0.025		
12780	0.023		
12840	0.023		
12900	0.023		
12960	0.024		
13020	0.026		
13080	0.039		
13140	0.038		
13200	0.026		
13260	0.026		
13320	0.033		
13380	0.034		
13440	0.031		
13500	0.028		
13560	0.024		
13620	0.023		
13680	0.024		
13740	0.024		
13800	0.026		
13860	0.031		
13920	0.031		
13980	0.031		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.028		
14100	0.023		
14160	0.021		
14220	0.026		
14280	0.024		
14340	0.075		
14400	0.05		
14460	0.025		
14520	0.025		
14580	0.052		
14640	0.044		
14700	0.041		
14760	0.034		
14820	0.048		
14880	0.032		
14940	0.041		
15000	0.029		
15060	0.021		
15120	0.034		
15180	0.023		
15240	0.039		
15300	0.033		
15360	0.021		
15420	0.019		
15480	0.019		
15540	0.02		
15600	0.021		
15660	0.021		
15720	0.021		
15780	0.02		
15840	0.02		
15900	0.02		
15960	0.019		
16020	0.021		
16080	0.022		
16140	0.021		
16200	0.02		
16260	0.022		
16320	0.02		
16380	0.021		
16440	0.021		
16500	0.022		
16560	0.022		
16620	0.022		
16680	0.021		
16740	0.021		
16800	0.022		
16860	0.023		
16920	0.023		
16980	0.023		
17040	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.021		
17160	0.023		
28167	0.042		

13-0933D 566 Carroll Street, Brooklyn, NY
January 9, 2015 Downwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530133020
Firmware Version		3
Calibration Date		7/29/2013
Test Name	TEST 1_003	
Test Start Time		7:48:10 AM
Test Start Date		1/9/2015
Test Length [D:H:M]		0:08:25
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.032
Mass Minimum [mg/m3]		0
Mass Maximum [mg/m3]		0.079
Mass TWA [mg/m3]		0.02
Photometric User Cal		0.9
Flow User Cal		0
Errors		
Number of Samples		307

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.033		
120	0.027		
180	0.026		
240	0.028		
300	0.028		
360	0.027		
420	0.028		
480	0.028		
540	0.036		
600	0.041		
660	0.037		
720	0.039		
780	0.031		
840	0.034		
900	0.031		
960	0.03		
1020	0.033		
1080	0.039		
1140	0.034		
1200	0.035		
1260	0.032		
1320	0.034		
1380	0.032		
1440	0.034		
1500	0.037		
1560	0.044		
1620	0.038		
1680	0.032		
1740	0.032		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.03		
1860	0.036		
1920	0.039		
1980	0.037		
2040	0.038		
2100	0.042		
2160	0.039		
2220	0.037		
2280	0.034		
2340	0.035		
2400	0.038		
2460	0.04		
2520	0.031		
2580	0.031		
2640	0.046		
2700	0.066		
2760	0.052		
2820	0.056		
2880	0.063		
2940	0.061		
3000	0.058		
3060	0.043		
3120	0.039		
3180	0.043		
3240	0.048		
3300	0.05		
3360	0.048		
3420	0.036		
3480	0.048		
3540	0.033		
3600	0.041		
3660	0.032		
3720	0.035		
3780	0.035		
3840	0.04		
3900	0.03		
3960	0.03		
4020	0.028		
4080	0.034		
4140	0.041		
4200	0.034		
4260	0.03		
4320	0.03		
4380	0.033		
4440	0.033		
4500	0.032		
4560	0.032		
4620	0.031		
4680	0.032		
4740	0.035		
4800	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.032		
4920	0.031		
4980	0.032		
5040	0.029		
5100	0.032		
5160	0.038		
5220	0.039		
5280	0.039		
5340	0.037		
5400	0.034		
5460	0.037		
5520	0.039		
5580	0.038		
5640	0.034		
5700	0.032		
5760	0.031		
5820	0.037		
5880	0.078		
5940	0.033		
6000	0.041		
6060	0.043		
6120	0.035		
6180	0.034		
6240	0.041		
6300	0.038		
6360	0.035		
6420	0.032		
6480	0.031		
6540	0.032		
6600	0.028		
6660	0.032		
6720	0.03		
6780	0.029		
6840	0.031		
6900	0.031		
6960	0.032		
7020	0.032		
7080	0.032		
7140	0.031		
7200	0.03		
7260	0.029		
7320	0.028		
7380	0.028		
7440	0.028		
7500	0.03		
7560	0.029		
7620	0.029		
7680	0.027		
7740	0.03		
7800	0.028		
7860	0.029		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.03		
7980	0.029		
8040	0.028		
8100	0.032		
8160	0.03		
8220	0.031		
8280	0.031		
8340	0.034		
8400	0.033		
8460	0.033		
8520	0.055		
8580	0.038		
8640	0.032		
8700	0.033		
8760	0.032		
8820	0.029		
8880	0.028		
8940	0.03		
9000	0.03		
9060	0.03		
9120	0.034		
9180	0.037		
9240	0.03		
9300	0.03		
9360	0.031		
9420	0.029		
9480	0.025		
9540	0.024		
9600	0.024		
9660	0.025		
9720	0.026		
9780	0.027		
9840	0.027		
9900	0.028		
9960	0.027		
10020	0.027		
10080	0.028		
10140	0.027		
10200	0.029		
10260	0.029		
10320	0.031		
10380	0.028		
10440	0.028		
10500	0.03		
10560	0.03		
10620	0.029		
10680	0.029		
10740	0.03		
10800	0.03		
10860	0.028		
10920	0.029		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.032		
11040	0.031		
11100	0.03		
11160	0.029		
11220	0.031		
11280	0.029		
11340	0.028		
11400	0.028		
11460	0.028		
11520	0.03		
11580	0.031		
11640	0.03		
11700	0.03		
11760	0.03		
11820	0.03		
11880	0.029		
11940	0.028		
12000	0.027		
12060	0.028		
12120	0.027		
12180	0.029		
12240	0.028		
12300	0.028		
12360	0.029		
12420	0.029		
12480	0.03		
12540	0.03		
12600	0.028		
12660	0.033		
12720	0.033		
12780	0.031		
12840	0.029		
12900	0.028		
12960	0.03		
13020	0.028		
13080	0.026		
13140	0.024		
13200	0.026		
13260	0.026		
13320	0.027		
13380	0.028		
13440	0.028		
13500	0.027		
13560	0.033		
13620	0.039		
13680	0.032		
13740	0.027		
13800	0.025		
13860	0.025		
13920	0.024		
13980	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.024		
14100	0.025		
14160	0.031		
14220	0.028		
14280	0.027		
14340	0.025		
14400	0.036		
14460	0.044		
14520	0.037		
14580	0.033		
14640	0.029		
14700	0.026		
14760	0.024		
14820	0.026		
14880	0.024		
14940	0.033		
15000	0.036		
15060	0.032		
15120	0.034		
15180	0.03		
15240	0.023		
15300	0.021		
15360	0.024		
15420	0.025		
15480	0.079		
15540	0.031		
15600	0.024		
15660	0.052		
15720	0.053		
15780	0.031		
15840	0.027		
15900	0.035		
15960	0.044		
16020	0.047		
16080	0.036		
16140	0.028		
16200	0.06		
16260	0.039		
16320	0.031		
16380	0.042		
16440	0.027		
16500	0.022		
16560	0.021		
16620	0.021		
16680	0.021		
16740	0.022		
16800	0.022		
16860	0.022		
16920	0.021		
16980	0.021		
17040	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.024		
17160	0.021		
17220	0.022		
17280	0.021		
17340	0.026		
17400	0.023		
17460	0.023		
17520	0.023		
17580	0.024		
17640	0.024		
17700	0.024		
17760	0.023		
17820	0.023		
17880	0.024		
17940	0.024		
18000	0.024		
18060	0.024		
18120	0.025		
18180	0.023		
18240	0.029		
18300	0.032		
18360	0.024		
30317	0		

13-0933 566 Carroll Street, Brooklyn, NY
January 12, 2015 Upwind Dustrak

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530111903
Firmware Version	3
Calibration Date	8/16/2013
Test Name	TEST 2_003
Test Start Time	7:38:17 AM
Test Start Date	1/12/2015
Test Length [D:H:M]	0:05:03
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.047
Mass Minimum [mg/m3]	0.03
Mass Maximum [mg/m3]	0.262
Mass TWA [mg/m3]	0.03
Photometric User Cal	0.85
Flow User Cal	0
Errors	
Number of Samples	303

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.112		
120	0.042		
180	0.05		
240	0.048		
300	0.078		
360	0.042		
420	0.05		
480	0.045		
540	0.053		
600	0.069		
660	0.049		
720	0.049		
780	0.051		
840	0.051		
900	0.068		
960	0.072		
1020	0.062		
1080	0.043		
1140	0.132		
1200	0.262		
1260	0.035		
1320	0.032		
1380	0.031		
1440	0.031		
1500	0.032		
1560	0.031		
1620	0.031		
1680	0.031		
1740	0.031		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.031		
1860	0.032		
1920	0.031		
1980	0.03		
2040	0.032		
2100	0.032		
2160	0.032		
2220	0.032		
2280	0.034		
2340	0.13		
2400	0.033		
2460	0.034		
2520	0.034		
2580	0.035		
2640	0.035		
2700	0.035		
2760	0.037		
2820	0.038		
2880	0.039		
2940	0.039		
3000	0.037		
3060	0.036		
3120	0.034		
3180	0.033		
3240	0.033		
3300	0.034		
3360	0.034		
3420	0.033		
3480	0.032		
3540	0.034		
3600	0.034		
3660	0.034		
3720	0.034		
3780	0.035		
3840	0.034		
3900	0.035		
3960	0.036		
4020	0.037		
4080	0.036		
4140	0.036		
4200	0.036		
4260	0.037		
4320	0.039		
4380	0.04		
4440	0.039		
4500	0.038		
4560	0.038		
4620	0.037		
4680	0.038		
4740	0.038		
4800	0.038		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.039		
4920	0.04		
4980	0.04		
5040	0.04		
5100	0.041		
5160	0.04		
5220	0.041		
5280	0.042		
5340	0.043		
5400	0.044		
5460	0.042		
5520	0.042		
5580	0.042		
5640	0.042		
5700	0.044		
5760	0.045		
5820	0.044		
5880	0.043		
5940	0.043		
6000	0.045		
6060	0.045		
6120	0.045		
6180	0.047		
6240	0.046		
6300	0.046		
6360	0.046		
6420	0.047		
6480	0.047		
6540	0.047		
6600	0.049		
6660	0.049		
6720	0.049		
6780	0.051		
6840	0.051		
6900	0.05		
6960	0.051		
7020	0.051		
7080	0.049		
7140	0.047		
7200	0.048		
7260	0.048		
7320	0.047		
7380	0.047		
7440	0.046		
7500	0.046		
7560	0.049		
7620	0.048		
7680	0.048		
7740	0.047		
7800	0.047		
7860	0.049		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.048		
7980	0.049		
8040	0.048		
8100	0.046		
8160	0.046		
8220	0.046		
8280	0.047		
8340	0.049		
8400	0.051		
8460	0.053		
8520	0.053		
8580	0.054		
8640	0.055		
8700	0.054		
8760	0.051		
8820	0.049		
8880	0.049		
8940	0.049		
9000	0.049		
9060	0.049		
9120	0.05		
9180	0.052		
9240	0.072		
9300	0.087		
9360	0.07		
9420	0.054		
9480	0.048		
9540	0.047		
9600	0.047		
9660	0.047		
9720	0.047		
9780	0.047		
9840	0.046		
9900	0.047		
9960	0.05		
10020	0.049		
10080	0.05		
10140	0.051		
10200	0.053		
10260	0.054		
10320	0.053		
10380	0.053		
10440	0.052		
10500	0.053		
10560	0.055		
10620	0.057		
10680	0.056		
10740	0.055		
10800	0.055		
10860	0.055		
10920	0.055		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.054		
11040	0.054		
11100	0.052		
11160	0.052		
11220	0.052		
11280	0.053		
11340	0.054		
11400	0.056		
11460	0.055		
11520	0.055		
11580	0.054		
11640	0.054		
11700	0.054		
11760	0.054		
11820	0.053		
11880	0.054		
11940	0.055		
12000	0.054		
12060	0.055		
12120	0.055		
12180	0.055		
12240	0.054		
12300	0.054		
12360	0.054		
12420	0.054		
12480	0.055		
12540	0.055		
12600	0.055		
12660	0.056		
12720	0.056		
12780	0.056		
12840	0.055		
12900	0.056		
12960	0.055		
13020	0.054		
13080	0.052		
13140	0.052		
13200	0.052		
13260	0.051		
13320	0.049		
13380	0.049		
13440	0.048		
13500	0.048		
13560	0.049		
13620	0.049		
13680	0.049		
13740	0.049		
13800	0.048		
13860	0.047		
13920	0.043		
13980	0.044		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.045		
14100	0.044		
14160	0.043		
14220	0.044		
14280	0.044		
14340	0.043		
14400	0.043		
14460	0.044		
14520	0.045		
14580	0.045		
14640	0.045		
14700	0.044		
14760	0.044		
14820	0.044		
14880	0.043		
14940	0.043		
15000	0.044		
15060	0.044		
15120	0.043		
15180	0.042		
15240	0.043		
15300	0.043		
15360	0.043		
15420	0.043		
15480	0.043		
15540	0.043		
15600	0.042		
15660	0.041		
15720	0.043		
15780	0.046		
15840	0.045		
15900	0.044		
15960	0.044		
16020	0.043		
16080	0.04		
16140	0.039		
16200	0.038		
16260	0.038		
16320	0.039		
16380	0.039		
16440	0.039		
16500	0.04		
16560	0.041		
16620	0.041		
16680	0.043		
16740	0.042		
16800	0.041		
16860	0.041		
16920	0.041		
16980	0.042		
17040	0.042		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.042		
17160	0.042		
17220	0.042		
17280	0.043		
17340	0.04		
17400	0.039		
17460	0.04		
17520	0.042		
17580	0.043		
17640	0.042		
17700	0.04		
17760	0.039		
17820	0.038		
17880	0.039		
17940	0.039		
18000	0.039		
18060	0.038		
18120	0.037		
18180	0.037		

13-0933D 566 Carroll Street, Brooklyn, NY
January 12, 2015 Dowind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530133020
Firmware Version		3
Calibration Date		7/29/2013
Test Name	TEST 1_004	
Test Start Time		7:39:01 AM
Test Start Date		1/12/2015
Test Length [D:H:M]		0:05:05
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.053
Mass Minimum [mg/m3]		0.032
Mass Maximum [mg/m3]		0.152
Mass TWA [mg/m3]		0.033
Photometric User Cal		0.9
Flow User Cal		0
Errors		
Number of Samples		305

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.034		
120	0.035		
180	0.035		
240	0.033		
300	0.036		
360	0.04		
420	0.036		
480	0.041		
540	0.044		
600	0.043		
660	0.047		
720	0.049		
780	0.043		
840	0.037		
900	0.041		
960	0.092		
1020	0.058		
1080	0.043		
1140	0.048		
1200	0.074		
1260	0.043		
1320	0.058		
1380	0.065		
1440	0.047		
1500	0.054		
1560	0.086		
1620	0.072		
1680	0.037		
1740	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.036		
1860	0.035		
1920	0.035		
1980	0.036		
2040	0.036		
2100	0.036		
2160	0.037		
2220	0.039		
2280	0.038		
2340	0.04		
2400	0.052		
2460	0.042		
2520	0.043		
2580	0.042		
2640	0.044		
2700	0.043		
2760	0.04		
2820	0.039		
2880	0.037		
2940	0.036		
3000	0.038		
3060	0.039		
3120	0.038		
3180	0.04		
3240	0.038		
3300	0.042		
3360	0.043		
3420	0.039		
3480	0.04		
3540	0.041		
3600	0.042		
3660	0.041		
3720	0.041		
3780	0.046		
3840	0.043		
3900	0.051		
3960	0.043		
4020	0.044		
4080	0.049		
4140	0.044		
4200	0.048		
4260	0.044		
4320	0.044		
4380	0.045		
4440	0.043		
4500	0.047		
4560	0.05		
4620	0.053		
4680	0.058		
4740	0.046		
4800	0.047		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.048		
4920	0.046		
4980	0.048		
5040	0.05		
5100	0.052		
5160	0.049		
5220	0.049		
5280	0.049		
5340	0.05		
5400	0.05		
5460	0.057		
5520	0.057		
5580	0.055		
5640	0.051		
5700	0.052		
5760	0.054		
5820	0.054		
5880	0.055		
5940	0.053		
6000	0.052		
6060	0.053		
6120	0.055		
6180	0.054		
6240	0.053		
6300	0.054		
6360	0.056		
6420	0.058		
6480	0.065		
6540	0.057		
6600	0.059		
6660	0.061		
6720	0.059		
6780	0.069		
6840	0.062		
6900	0.054		
6960	0.053		
7020	0.052		
7080	0.051		
7140	0.052		
7200	0.052		
7260	0.056		
7320	0.054		
7380	0.054		
7440	0.054		
7500	0.053		
7560	0.058		
7620	0.053		
7680	0.055		
7740	0.054		
7800	0.052		
7860	0.052		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.053		
7980	0.054		
8040	0.056		
8100	0.057		
8160	0.06		
8220	0.061		
8280	0.06		
8340	0.064		
8400	0.065		
8460	0.061		
8520	0.056		
8580	0.055		
8640	0.057		
8700	0.059		
8760	0.059		
8820	0.055		
8880	0.061		
8940	0.078		
9000	0.114		
9060	0.11		
9120	0.08		
9180	0.056		
9240	0.054		
9300	0.055		
9360	0.054		
9420	0.054		
9480	0.058		
9540	0.055		
9600	0.054		
9660	0.057		
9720	0.057		
9780	0.058		
9840	0.062		
9900	0.068		
9960	0.061		
10020	0.061		
10080	0.062		
10140	0.059		
10200	0.061		
10260	0.074		
10320	0.073		
10380	0.063		
10440	0.063		
10500	0.062		
10560	0.064		
10620	0.063		
10680	0.061		
10740	0.061		
10800	0.06		
10860	0.059		
10920	0.059		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.06		
11040	0.061		
11100	0.062		
11160	0.063		
11220	0.062		
11280	0.061		
11340	0.061		
11400	0.06		
11460	0.06		
11520	0.06		
11580	0.06		
11640	0.061		
11700	0.061		
11760	0.061		
11820	0.062		
11880	0.061		
11940	0.061		
12000	0.06		
12060	0.06		
12120	0.061		
12180	0.06		
12240	0.06		
12300	0.06		
12360	0.06		
12420	0.061		
12480	0.062		
12540	0.062		
12600	0.06		
12660	0.06		
12720	0.059		
12780	0.059		
12840	0.057		
12900	0.057		
12960	0.056		
13020	0.056		
13080	0.054		
13140	0.053		
13200	0.052		
13260	0.053		
13320	0.052		
13380	0.053		
13440	0.053		
13500	0.052		
13560	0.052		
13620	0.051		
13680	0.047		
13740	0.049		
13800	0.049		
13860	0.047		
13920	0.049		
13980	0.049		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.048		
14100	0.048		
14160	0.048		
14220	0.049		
14280	0.051		
14340	0.049		
14400	0.048		
14460	0.048		
14520	0.049		
14580	0.047		
14640	0.046		
14700	0.046		
14760	0.048		
14820	0.048		
14880	0.046		
14940	0.045		
15000	0.046		
15060	0.05		
15120	0.049		
15180	0.047		
15240	0.06		
15300	0.102		
15360	0.135		
15420	0.074		
15480	0.152		
15540	0.089		
15600	0.068		
15660	0.057		
15720	0.046		
15780	0.047		
15840	0.068		
15900	0.048		
15960	0.089		
16020	0.07		
16080	0.056		
16140	0.04		
16200	0.034		
16260	0.032		
16320	0.037		
16380	0.034		
16440	0.035		
16500	0.046		
16560	0.043		
16620	0.046		
16680	0.044		
16740	0.044		
16800	0.045		
16860	0.044		
16920	0.045		
16980	0.045		
17040	0.046		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.042		
17160	0.043		
17220	0.044		
17280	0.044		
17340	0.046		
17400	0.045		
17460	0.043		
17520	0.042		
17580	0.041		
17640	0.042		
17700	0.041		
17760	0.041		
17820	0.04		
17880	0.039		
17940	0.04		
18000	0.041		
18060	0.04		
18120	0.04		
18180	0.039		
18240	0.039		
18300	0.043		

13-0933D 566 Carroll Street, Brooklyn, NY
January 13, 2014 Upwind Dustrak

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530111903
Firmware Version	3
Calibration Date	8/16/2013
Test Name	TEST 2_004
Test Start Time	7:35:44 AM
Test Start Date	1/13/2015
Test Length [D:H:M]	0:07:41
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.02
Mass Minimum [mg/m3]	0.011
Mass Maximum [mg/m3]	0.159
Mass TWA [mg/m3]	0.019
Photometric User Cal	0.85
Flow User Cal	0
Errors	
Number of Samples	461

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.04		
120	0.039		
180	0.037		
240	0.029		
300	0.026		
360	0.025		
420	0.027		
480	0.027		
540	0.025		
600	0.159		
660	0.027		
720	0.027		
780	0.031		
840	0.026		
900	0.026		
960	0.024		
1020	0.023		
1080	0.023		
1140	0.023		
1200	0.024		
1260	0.023		
1320	0.024		
1380	0.024		
1440	0.054		
1500	0.03		
1560	0.03		
1620	0.032		
1680	0.066		
1740	0.037		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.052		
1860	0.036		
1920	0.03		
1980	0.039		
2040	0.04		
2100	0.043		
2160	0.044		
2220	0.035		
2280	0.033		
2340	0.029		
2400	0.026		
2460	0.025		
2520	0.025		
2580	0.029		
2640	0.022		
2700	0.022		
2760	0.026		
2820	0.024		
2880	0.025		
2940	0.023		
3000	0.025		
3060	0.023		
3120	0.03		
3180	0.023		
3240	0.022		
3300	0.024		
3360	0.024		
3420	0.025		
3480	0.024		
3540	0.026		
3600	0.038		
3660	0.027		
3720	0.025		
3780	0.024		
3840	0.02		
3900	0.022		
3960	0.02		
4020	0.02		
4080	0.023		
4140	0.021		
4200	0.02		
4260	0.022		
4320	0.022		
4380	0.021		
4440	0.02		
4500	0.021		
4560	0.131		
4620	0.059		
4680	0.025		
4740	0.023		
4800	0.027		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.026		
4920	0.021		
4980	0.021		
5040	0.023		
5100	0.021		
5160	0.021		
5220	0.021		
5280	0.021		
5340	0.02		
5400	0.02		
5460	0.02		
5520	0.02		
5580	0.02		
5640	0.022		
5700	0.023		
5760	0.022		
5820	0.023		
5880	0.022		
5940	0.02		
6000	0.021		
6060	0.022		
6120	0.021		
6180	0.022		
6240	0.022		
6300	0.021		
6360	0.022		
6420	0.021		
6480	0.02		
6540	0.023		
6600	0.02		
6660	0.02		
6720	0.021		
6780	0.022		
6840	0.021		
6900	0.022		
6960	0.036		
7020	0.056		
7080	0.023		
7140	0.021		
7200	0.02		
7260	0.02		
7320	0.02		
7380	0.02		
7440	0.02		
7500	0.021		
7560	0.022		
7620	0.022		
7680	0.02		
7740	0.019		
7800	0.019		
7860	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.019		
7980	0.02		
8040	0.019		
8100	0.019		
8160	0.018		
8220	0.018		
8280	0.019		
8340	0.019		
8400	0.019		
8460	0.019		
8520	0.018		
8580	0.016		
8640	0.016		
8700	0.017		
8760	0.017		
8820	0.017		
8880	0.017		
8940	0.017		
9000	0.017		
9060	0.018		
9120	0.018		
9180	0.017		
9240	0.019		
9300	0.019		
9360	0.021		
9420	0.021		
9480	0.022		
9540	0.02		
9600	0.018		
9660	0.019		
9720	0.021		
9780	0.02		
9840	0.019		
9900	0.02		
9960	0.02		
10020	0.021		
10080	0.02		
10140	0.02		
10200	0.02		
10260	0.02		
10320	0.021		
10380	0.025		
10440	0.021		
10500	0.023		
10560	0.039		
10620	0.039		
10680	0.022		
10740	0.022		
10800	0.02		
10860	0.021		
10920	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.02		
11040	0.024		
11100	0.023		
11160	0.022		
11220	0.024		
11280	0.022		
11340	0.02		
11400	0.021		
11460	0.021		
11520	0.019		
11580	0.021		
11640	0.021		
11700	0.02		
11760	0.02		
11820	0.02		
11880	0.02		
11940	0.019		
12000	0.02		
12060	0.024		
12120	0.025		
12180	0.029		
12240	0.022		
12300	0.018		
12360	0.02		
12420	0.017		
12480	0.014		
12540	0.014		
12600	0.017		
12660	0.02		
12720	0.017		
12780	0.015		
12840	0.015		
12900	0.015		
12960	0.015		
13020	0.016		
13080	0.017		
13140	0.016		
13200	0.02		
13260	0.02		
13320	0.018		
13380	0.018		
13440	0.017		
13500	0.019		
13560	0.018		
13620	0.02		
13680	0.017		
13740	0.017		
13800	0.015		
13860	0.015		
13920	0.015		
13980	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.019		
14100	0.022		
14160	0.022		
14220	0.023		
14280	0.024		
14340	0.02		
14400	0.017		
14460	0.018		
14520	0.016		
14580	0.017		
14640	0.016		
14700	0.015		
14760	0.017		
14820	0.017		
14880	0.019		
14940	0.02		
15000	0.021		
15060	0.023		
15120	0.02		
15180	0.016		
15240	0.014		
15300	0.014		
15360	0.014		
15420	0.015		
15480	0.013		
15540	0.015		
15600	0.014		
15660	0.012		
15720	0.013		
15780	0.013		
15840	0.013		
15900	0.014		
15960	0.012		
16020	0.012		
16080	0.011		
16140	0.013		
16200	0.012		
16260	0.012		
16320	0.012		
16380	0.013		
16440	0.014		
16500	0.016		
16560	0.044		
16620	0.014		
16680	0.02		
16740	0.015		
16800	0.015		
16860	0.014		
16920	0.015		
16980	0.014		
17040	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.014		
17160	0.014		
17220	0.013		
17280	0.013		
17340	0.014		
17400	0.015		
17460	0.019		
17520	0.014		
17580	0.013		
17640	0.014		
17700	0.015		
17760	0.014		
17820	0.014		
17880	0.013		
17940	0.015		
18000	0.016		
18060	0.015		
18120	0.018		
18180	0.015		
18240	0.016		
18300	0.018		
18360	0.016		
18420	0.013		
18480	0.013		
18540	0.014		
18600	0.014		
18660	0.013		
18720	0.012		
18780	0.012		
18840	0.015		
18900	0.015		
18960	0.015		
19020	0.014		
19080	0.013		
19140	0.013		
19200	0.013		
19260	0.015		
19320	0.015		
19380	0.022		
19440	0.014		
19500	0.014		
19560	0.019		
19620	0.016		
19680	0.014		
19740	0.013		
19800	0.013		
19860	0.014		
19920	0.015		
19980	0.014		
20040	0.014		
20100	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20160	0.012		
20220	0.013		
20280	0.015		
20340	0.015		
20400	0.013		
20460	0.02		
20520	0.018		
20580	0.017		
20640	0.015		
20700	0.013		
20760	0.012		
20820	0.011		
20880	0.011		
20940	0.012		
21000	0.013		
21060	0.012		
21120	0.012		
21180	0.014		
21240	0.013		
21300	0.013		
21360	0.012		
21420	0.012		
21480	0.012		
21540	0.012		
21600	0.013		
21660	0.013		
21720	0.011		
21780	0.012		
21840	0.014		
21900	0.015		
21960	0.018		
22020	0.013		
22080	0.012		
22140	0.013		
22200	0.012		
22260	0.011		
22320	0.011		
22380	0.011		
22440	0.011		
22500	0.011		
22560	0.012		
22620	0.012		
22680	0.012		
22740	0.012		
22800	0.012		
22860	0.013		
22920	0.014		
22980	0.012		
23040	0.012		
23100	0.012		
23160	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23220	0.014		
23280	0.013		
23340	0.013		
23400	0.013		
23460	0.015		
23520	0.015		
23580	0.014		
23640	0.014		
23700	0.014		
23760	0.016		
23820	0.015		
23880	0.017		
23940	0.024		
24000	0.016		
24060	0.031		
24120	0.045		
24180	0.056		
24240	0.021		
24300	0.017		
24360	0.02		
24420	0.02		
24480	0.015		
24540	0.017		
24600	0.016		
24660	0.017		
24720	0.015		
24780	0.014		
24840	0.014		
24900	0.016		
24960	0.016		
25020	0.016		
25080	0.013		
25140	0.013		
25200	0.016		
25260	0.017		
25320	0.014		
25380	0.014		
25440	0.013		
25500	0.014		
25560	0.014		
25620	0.013		
25680	0.013		
25740	0.014		
25800	0.014		
25860	0.014		
25920	0.014		
25980	0.014		
26040	0.015		
26100	0.016		
26160	0.013		
26220	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
26280	0.013		
26340	0.014		
26400	0.012		
26460	0.013		
26520	0.012		
26580	0.012		
26640	0.013		
26700	0.014		
26760	0.014		
26820	0.014		
26880	0.013		
26940	0.015		
27000	0.013		
27060	0.012		
27120	0.012		
27180	0.013		
27240	0.014		
27300	0.013		
27360	0.014		
27420	0.014		
27480	0.015		
27540	0.015		
27600	0.017		
27660	0.018		

13-0933D 566 Carroll Street, Brooklyn, NY
January 13, 2015 Downwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530133020
Firmware Version		3
Calibration Date		7/29/2013
Test Name	TEST 1_005	
Test Start Time		7:50:35 AM
Test Start Date		1/13/2015
Test Length [D:H:M]		0:07:22
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.026
Mass Minimum [mg/m3]		0.014
Mass Maximum [mg/m3]		0.188
Mass TWA [mg/m3]		0.024
Photometric User Cal		0.9
Flow User Cal		0
Errors	Flow Error	
Number of Samples		442

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.037		
120	0.028		
180	0.031		
240	0.03		
300	0.04		
360	0.113		
420	0.057		
480	0.056		
540	0.049		
600	0.065		
660	0.079		
720	0.085		
780	0.062		
840	0.074		
900	0.092		
960	0.046		
1020	0.037		
1080	0.041		
1140	0.033		
1200	0.028		
1260	0.027		
1320	0.035		
1380	0.025		
1440	0.029		
1500	0.03		
1560	0.025		
1620	0.028		
1680	0.029		
1740	0.028		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.028		
1860	0.029		
1920	0.026		
1980	0.04		
2040	0.053		
2100	0.029		
2160	0.026		
2220	0.028		
2280	0.028		
2340	0.027		
2400	0.026		
2460	0.029		
2520	0.034		
2580	0.033		
2640	0.031		
2700	0.026		
2760	0.028		
2820	0.029		
2880	0.025		
2940	0.027		
3000	0.03		
3060	0.034		
3120	0.024		
3180	0.027		
3240	0.029		
3300	0.032		
3360	0.025		
3420	0.028		
3480	0.13		
3540	0.074		
3600	0.027		
3660	0.022		
3720	0.026		
3780	0.025		
3840	0.022		
3900	0.024		
3960	0.023		
4020	0.022		
4080	0.024		
4140	0.022		
4200	0.022		
4260	0.021		
4320	0.022		
4380	0.021		
4440	0.021		
4500	0.021		
4560	0.023		
4620	0.024		
4680	0.024		
4740	0.024		
4800	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.022		
4920	0.025		
4980	0.023		
5040	0.023		
5100	0.024		
5160	0.025		
5220	0.023		
5280	0.022		
5340	0.032		
5400	0.022		
5460	0.027		
5520	0.024		
5580	0.02		
5640	0.023		
5700	0.022		
5760	0.024		
5820	0.028		
5880	0.153		
5940	0.054		
6000	0.023		
6060	0.022		
6120	0.021		
6180	0.02		
6240	0.021		
6300	0.02		
6360	0.027		
6420	0.021		
6480	0.022		
6540	0.022		
6600	0.021		
6660	0.019		
6720	0.02		
6780	0.022		
6840	0.02		
6900	0.021		
6960	0.02		
7020	0.02		
7080	0.019		
7140	0.019		
7200	0.019		
7260	0.02		
7320	0.019		
7380	0.02		
7440	0.018		
7500	0.017		
7560	0.017		
7620	0.018		
7680	0.018		
7740	0.018		
7800	0.018		
7860	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.018		
7980	0.02		
8040	0.024		
8100	0.03		
8160	0.041		
8220	0.029		
8280	0.034		
8340	0.034		
8400	0.025		
8460	0.021		
8520	0.023		
8580	0.023		
8640	0.03		
8700	0.021		
8760	0.02		
8820	0.021		
8880	0.021		
8940	0.024		
9000	0.021		
9060	0.02		
9120	0.025		
9180	0.023		
9240	0.025		
9300	0.025		
9360	0.022		
9420	0.024		
9480	0.024		
9540	0.022		
9600	0.026		
9660	0.071		
9720	0.078		
9780	0.024		
9840	0.022		
9900	0.026		
9960	0.028		
10020	0.026		
10080	0.029		
10140	0.033		
10200	0.033		
10260	0.024		
10320	0.027		
10380	0.025		
10440	0.024		
10500	0.025		
10560	0.029		
10620	0.025		
10680	0.026		
10740	0.025		
10800	0.027		
10860	0.024		
10920	0.027		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.04		
11040	0.031		
11100	0.035		
11160	0.031		
11220	0.027		
11280	0.028		
11340	0.023		
11400	0.018		
11460	0.028		
11520	0.029		
11580	0.026		
11640	0.031		
11700	0.027		
11760	0.02		
11820	0.023		
11880	0.02		
11940	0.022		
12000	0.022		
12060	0.022		
12120	0.025		
12180	0.024		
12240	0.021		
12300	0.022		
12360	0.022		
12420	0.024		
12480	0.022		
12540	0.024		
12600	0.019		
12660	0.02		
12720	0.018		
12780	0.019		
12840	0.021		
12900	0.02		
12960	0.03		
13020	0.102		
13080	0.188		
13140	0.104		
13200	0.11		
13260	0.066		
13320	0.069		
13380	0.054		
13440	0.049		
13500	0.049		
13560	0.061		
13620	0.052		
13680	0.058		
13740	0.054		
13800	0.039		
13860	0.03		
13920	0.038		
13980	0.097		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.057		
14100	0.029		
14160	0.021		
14220	0.019		
14280	0.017		
14340	0.018		
14400	0.016		
14460	0.018		
14520	0.016		
14580	0.015		
14640	0.017		
14700	0.015		
14760	0.018		
14820	0.016		
14880	0.016		
14940	0.016		
15000	0.015		
15060	0.035		
15120	0.015		
15180	0.016		
15240	0.016		
15300	0.016		
15360	0.019		
15420	0.02		
15480	0.018		
15540	0.02		
15600	0.02		
15660	0.02		
15720	0.019		
15780	0.019		
15840	0.019		
15900	0.017		
15960	0.018		
16020	0.016		
16080	0.017		
16140	0.016		
16200	0.017		
16260	0.017		
16320	0.018		
16380	0.023		
16440	0.021		
16500	0.016		
16560	0.019		
16620	0.018		
16680	0.018		
16740	0.017		
16800	0.016		
16860	0.021		
16920	0.021		
16980	0.02		
17040	0.07		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.018		
17160	0.02		
17220	0.025		
17280	0.019		
17340	0.016		
17400	0.017		
17460	0.017		
17520	0.019		
17580	0.017		
17640	0.016		
17700	0.015		
17760	0.018		
17820	0.02		
17880	0.017		
17940	0.016		
18000	0.016		
18060	0.016		
18120	0.015		
18180	0.018		
18240	0.019		
18300	0.031		
18360	0.018		
18420	0.02		
18480	0.023		
18540	0.019		
18600	0.018		
18660	0.016		
18720	0.016		
18780	0.019		
18840	0.018		
18900	0.018		
18960	0.019		
19020	0.018		
19080	0.016		
19140	0.016		
19200	0.019		
19260	0.018		
19320	0.017		
19380	0.027		
19440	0.022		
19500	0.022		
19560	0.018		
19620	0.016		
19680	0.015		
19740	0.017		
19800	0.016		
19860	0.016		
19920	0.016		
19980	0.015		
20040	0.018		
20100	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20160	0.015		
20220	0.017		
20280	0.016		
20340	0.015		
20400	0.016		
20460	0.016		
20520	0.016		
20580	0.014		
20640	0.016		
20700	0.017		
20760	0.018		
20820	0.019		
20880	0.021		
20940	0.017		
21000	0.015		
21060	0.017		
21120	0.015		
21180	0.015		
21240	0.015		
21300	0.015		
21360	0.015		
21420	0.015		
21480	0.016		
21540	0.015		
21600	0.016		
21660	0.016		
21720	0.017		
21780	0.018		
21840	0.017		
21900	0.017		
21960	0.016		
22020	0.016		
22080	0.019		
22140	0.017		
22200	0.017		
22260	0.018		
22320	0.017		
22380	0.019		
22440	0.018		
22500	0.018		
22560	0.02		
22620	0.019		
22680	0.021		
22740	0.019		
22800	0.022		
22860	0.031		
22920	0.02		
22980	0.023		
23040	0.025		
23100	0.024		
23160	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23220	0.023		
23280	0.025		
23340	0.024		
23400	0.022		
23460	0.023		
23520	0.022		
23580	0.022		
23640	0.019		
23700	0.019		
23760	0.018		
23820	0.019		
23880	0.02		
23940	0.02		
24000	0.018		
24060	0.023		
24120	0.022		
24180	0.023		
24240	0.018		
24300	0.017		
24360	0.019		
24420	0.019		
24480	0.018		
24540	0.017		
24600	0.017		
24660	0.018		
24720	0.018		
24780	0.018		
24840	0.017		
24900	0.018		
24960	0.018		
25020	0.023		
25080	0.026		
25140	0.017		
25200	0.018		
25260	0.017		
25320	0.018		
25380	0.017		
25440	0.016		
25500	0.018		
25560	0.016		
25620	0.017		
25680	0.026		
25740	0.025		
25800	0.016		
25860	0.018		
25920	0.018		
25980	0.018		
26040	0.015		
26100	0.017		
26160	0.017		
26220	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
26280	0.018		
26340	0.018		
26400	0.019		
26460	0.019		
26520	0.028		

13-0933D 566 Carroll Street, Brooklyn, NY
January 14, 2015 Upwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530111903
Firmware Version		3
Calibration Date		8/16/2013
Test Name	TEST 2_005	
Test Start Time		7:47:30 AM
Test Start Date		1/14/2015
Test Length [D:H:M]		0:04:41
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.033
Mass Minimum [mg/m3]		0.021
Mass Maximum [mg/m3]		0.146
Mass TWA [mg/m3]		0.019
Photometric User Cal		0.85
Flow User Cal		0
Errors		
Number of Samples		281

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.037		
120	0.146		
180	0.022		
240	0.021		
300	0.021		
360	0.022		
420	0.022		
480	0.022		
540	0.021		
600	0.021		
660	0.022		
720	0.022		
780	0.022		
840	0.023		
900	0.023		
960	0.023		
1020	0.022		
1080	0.022		
1140	0.022		
1200	0.022		
1260	0.023		
1320	0.034		
1380	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1440	0.028		
1500	0.023		
1560	0.024		
1620	0.023		
1680	0.024		
1740	0.024		
1800	0.024		
1860	0.024		
1920	0.032		
1980	0.026		
2040	0.026		
2100	0.026		
2160	0.025		
2220	0.024		
2280	0.025		
2340	0.026		
2400	0.027		
2460	0.026		
2520	0.026		
2580	0.025		
2640	0.026		
2700	0.026		
2760	0.026		
2820	0.026		
2880	0.026		
2940	0.027		
3000	0.029		
3060	0.031		
3120	0.033		
3180	0.035		
3240	0.031		
3300	0.03		
3360	0.032		
3420	0.029		
3480	0.03		
3540	0.03		
3600	0.029		
3660	0.028		
3720	0.029		
3780	0.029		
3840	0.037		
3900	0.034		
3960	0.04		
4020	0.035		
4080	0.03		
4140	0.036		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4200	0.03		
4260	0.034		
4320	0.03		
4380	0.03		
4440	0.03		
4500	0.03		
4560	0.03		
4620	0.031		
4680	0.028		
4740	0.029		
4800	0.029		
4860	0.029		
4920	0.029		
4980	0.029		
5040	0.031		
5100	0.046		
5160	0.037		
5220	0.04		
5280	0.031		
5340	0.041		
5400	0.031		
5460	0.034		
5520	0.04		
5580	0.036		
5640	0.036		
5700	0.041		
5760	0.033		
5820	0.04		
5880	0.035		
5940	0.034		
6000	0.051		
6060	0.031		
6120	0.032		
6180	0.038		
6240	0.036		
6300	0.034		
6360	0.034		
6420	0.034		
6480	0.035		
6540	0.036		
6600	0.036		
6660	0.036		
6720	0.037		
6780	0.037		
6840	0.037		
6900	0.036		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6960	0.037		
7020	0.033		
7080	0.031		
7140	0.032		
7200	0.032		
7260	0.033		
7320	0.033		
7380	0.032		
7440	0.031		
7500	0.032		
7560	0.033		
7620	0.032		
7680	0.032		
7740	0.033		
7800	0.034		
7860	0.036		
7920	0.035		
7980	0.037		
8040	0.039		
8100	0.043		
8160	0.033		
8220	0.032		
8280	0.033		
8340	0.034		
8400	0.034		
8460	0.031		
8520	0.034		
8580	0.036		
8640	0.04		
8700	0.037		
8760	0.034		
8820	0.032		
8880	0.032		
8940	0.032		
9000	0.034		
9060	0.034		
9120	0.035		
9180	0.035		
9240	0.036		
9300	0.036		
9360	0.036		
9420	0.036		
9480	0.033		
9540	0.032		
9600	0.032		
9660	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9720	0.034		
9780	0.033		
9840	0.04		
9900	0.034		
9960	0.033		
10020	0.034		
10080	0.034		
10140	0.033		
10200	0.034		
10260	0.034		
10320	0.032		
10380	0.03		
10440	0.031		
10500	0.032		
10560	0.033		
10620	0.033		
10680	0.033		
10740	0.034		
10800	0.034		
10860	0.034		
10920	0.034		
10980	0.035		
11040	0.034		
11100	0.034		
11160	0.035		
11220	0.034		
11280	0.033		
11340	0.034		
11400	0.034		
11460	0.036		
11520	0.035		
11580	0.034		
11640	0.033		
11700	0.033		
11760	0.033		
11820	0.032		
11880	0.032		
11940	0.032		
12000	0.032		
12060	0.034		
12120	0.031		
12180	0.032		
12240	0.032		
12300	0.034		
12360	0.034		
12420	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12480	0.035		
12540	0.036		
12600	0.039		
12660	0.034		
12720	0.035		
12780	0.035		
12840	0.034		
12900	0.034		
12960	0.034		
13020	0.033		
13080	0.035		
13140	0.035		
13200	0.033		
13260	0.033		
13320	0.031		
13380	0.032		
13440	0.032		
13500	0.032		
13560	0.034		
13620	0.034		
13680	0.029		
13740	0.03		
13800	0.029		
13860	0.031		
13920	0.031		
13980	0.038		
14040	0.035		
14100	0.032		
14160	0.031		
14220	0.032		
14280	0.032		
14340	0.033		
14400	0.031		
14460	0.031		
14520	0.031		
14580	0.032		
14640	0.036		
14700	0.036		
14760	0.03		
14820	0.029		
14880	0.029		
14940	0.028		
15000	0.028		
15060	0.028		
15120	0.029		
15180	0.029		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15240	0.029		
15300	0.029		
15360	0.036		
15420	0.066		
15480	0.05		
15540	0.037		
15600	0.03		
15660	0.034		
15720	0.034		
15780	0.029		
15840	0.081		
15900	0.097		
15960	0.031		
16020	0.053		
16080	0.03		
16140	0.033		
16200	0.029		
16260	0.109		
16320	0.045		
16380	0.03		
16440	0.029		
16500	0.028		
16560	0.028		
16620	0.028		
16680	0.029		
16740	0.028		
16800	0.028		
16860	0.029		

13-0933D 566 Carroll Street, Brooklyn, NY
January 14, 2015 Downwind PID

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530133020
Firmware Version		3
Calibration Date		7/29/2013
Test Name	TEST 1_006	
Test Start Time		7:50:45 AM
Test Start Date		1/14/2015
Test Length [D:H:M]		0:04:34
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.041
Mass Minimum [mg/m3]		0.025
Mass Maximum [mg/m3]		0.26
Mass TWA [mg/m3]		0.024
Photometric User Cal		0.9
Flow User Cal		0
Errors		
Number of Samples		274

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.026		
120	0.027		
180	0.025		
240	0.027		
300	0.027		
360	0.027		
420	0.028		
480	0.03		
540	0.027		
600	0.027		
660	0.026		
720	0.028		
780	0.028		
840	0.029		
900	0.026		
960	0.026		
1020	0.027		
1080	0.025		
1140	0.029		
1200	0.028		
1260	0.025		
1320	0.026		
1380	0.026		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1440	0.026		
1500	0.029		
1560	0.028		
1620	0.03		
1680	0.03		
1740	0.027		
1800	0.029		
1860	0.028		
1920	0.029		
1980	0.03		
2040	0.031		
2100	0.029		
2160	0.03		
2220	0.029		
2280	0.032		
2340	0.036		
2400	0.026		
2460	0.025		
2520	0.026		
2580	0.026		
2640	0.029		
2700	0.029		
2760	0.03		
2820	0.033		
2880	0.03		
2940	0.03		
3000	0.03		
3060	0.091		
3120	0.039		
3180	0.033		
3240	0.031		
3300	0.032		
3360	0.032		
3420	0.032		
3480	0.115		
3540	0.195		
3600	0.26		
3660	0.207		
3720	0.085		
3780	0.176		
3840	0.033		
3900	0.053		
3960	0.119		
4020	0.082		
4080	0.036		
4140	0.042		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4200	0.031		
4260	0.056		
4320	0.035		
4380	0.032		
4440	0.03		
4500	0.029		
4560	0.031		
4620	0.03		
4680	0.029		
4740	0.048		
4800	0.029		
4860	0.078		
4920	0.073		
4980	0.069		
5040	0.068		
5100	0.057		
5160	0.068		
5220	0.057		
5280	0.075		
5340	0.069		
5400	0.056		
5460	0.09		
5520	0.089		
5580	0.033		
5640	0.039		
5700	0.047		
5760	0.035		
5820	0.034		
5880	0.034		
5940	0.033		
6000	0.034		
6060	0.034		
6120	0.036		
6180	0.036		
6240	0.036		
6300	0.037		
6360	0.037		
6420	0.036		
6480	0.036		
6540	0.035		
6600	0.035		
6660	0.033		
6720	0.031		
6780	0.031		
6840	0.034		
6900	0.032		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6960	0.032		
7020	0.031		
7080	0.031		
7140	0.032		
7200	0.032		
7260	0.031		
7320	0.031		
7380	0.033		
7440	0.034		
7500	0.035		
7560	0.036		
7620	0.038		
7680	0.043		
7740	0.04		
7800	0.033		
7860	0.031		
7920	0.033		
7980	0.033		
8040	0.031		
8100	0.032		
8160	0.033		
8220	0.038		
8280	0.037		
8340	0.035		
8400	0.037		
8460	0.038		
8520	0.034		
8580	0.04		
8640	0.038		
8700	0.04		
8760	0.044		
8820	0.05		
8880	0.045		
8940	0.037		
9000	0.038		
9060	0.038		
9120	0.035		
9180	0.035		
9240	0.037		
9300	0.042		
9360	0.038		
9420	0.042		
9480	0.039		
9540	0.037		
9600	0.04		
9660	0.035		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9720	0.033		
9780	0.038		
9840	0.036		
9900	0.036		
9960	0.034		
10020	0.035		
10080	0.041		
10140	0.037		
10200	0.036		
10260	0.043		
10320	0.043		
10380	0.04		
10440	0.042		
10500	0.037		
10560	0.04		
10620	0.038		
10680	0.045		
10740	0.042		
10800	0.04		
10860	0.044		
10920	0.04		
10980	0.033		
11040	0.035		
11100	0.035		
11160	0.035		
11220	0.033		
11280	0.034		
11340	0.033		
11400	0.031		
11460	0.031		
11520	0.03		
11580	0.031		
11640	0.031		
11700	0.031		
11760	0.03		
11820	0.03		
11880	0.032		
11940	0.033		
12000	0.033		
12060	0.033		
12120	0.034		
12180	0.035		
12240	0.035		
12300	0.033		
12360	0.034		
12420	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12480	0.033		
12540	0.032		
12600	0.032		
12660	0.033		
12720	0.035		
12780	0.033		
12840	0.033		
12900	0.03		
12960	0.03		
13020	0.031		
13080	0.03		
13140	0.032		
13200	0.036		
13260	0.029		
13320	0.028		
13380	0.027		
13440	0.028		
13500	0.03		
13560	0.034		
13620	0.034		
13680	0.031		
13740	0.03		
13800	0.03		
13860	0.031		
13920	0.032		
13980	0.03		
14040	0.03		
14100	0.029		
14160	0.03		
14220	0.032		
14280	0.034		
14340	0.031		
14400	0.028		
14460	0.028		
14520	0.026		
14580	0.026		
14640	0.028		
14700	0.027		
14760	0.027		
14820	0.026		
14880	0.027		
14940	0.1		
15000	0.082		
15060	0.056		
15120	0.061		
15180	0.053		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15240	0.066		
15300	0.065		
15360	0.068		
15420	0.047		
15480	0.084		
15540	0.073		
15600	0.086		
15660	0.051		
15720	0.06		
15780	0.061		
15840	0.156		
15900	0.132		
15960	0.119		
16020	0.04		
16080	0.035		
16140	0.027		
16200	0.027		
16260	0.027		
16320	0.027		
16380	0.027		
16440	0.027		

13-0933D 566 Carroll Street, Brooklyn, NY
January 15, 20135 Upwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530111903
Firmware Version		3
Calibration Date		8/16/2013
Test Name	TEST 2_006	
Test Start Time		7:39:48 AM
Test Start Date		1/15/2015
Test Length [D:H:M]		0:05:02
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.041
Mass Minimum [mg/m3]		0.03
Mass Maximum [mg/m3]		0.098
Mass TWA [mg/m3]		0.026
Photometric User Cal		0.85
Flow User Cal		0
Errors		
Number of Samples		302

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.06		
120	0.03		
180	0.031		
240	0.031		
300	0.033		
360	0.035		
420	0.034		
480	0.033		
540	0.036		
600	0.048		
660	0.053		
720	0.038		
780	0.031		
840	0.031		
900	0.03		
960	0.032		
1020	0.033		
1080	0.035		
1140	0.034		
1200	0.033		
1260	0.035		
1320	0.034		
1380	0.035		
1440	0.035		
1500	0.032		
1560	0.035		
1620	0.04		
1680	0.038		
1740	0.033		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.034		
1860	0.034		
1920	0.037		
1980	0.039		
2040	0.037		
2100	0.038		
2160	0.036		
2220	0.035		
2280	0.038		
2340	0.035		
2400	0.036		
2460	0.039		
2520	0.044		
2580	0.035		
2640	0.033		
2700	0.036		
2760	0.035		
2820	0.035		
2880	0.034		
2940	0.036		
3000	0.038		
3060	0.036		
3120	0.036		
3180	0.038		
3240	0.037		
3300	0.038		
3360	0.039		
3420	0.04		
3480	0.038		
3540	0.038		
3600	0.038		
3660	0.04		
3720	0.039		
3780	0.039		
3840	0.038		
3900	0.039		
3960	0.038		
4020	0.039		
4080	0.038		
4140	0.039		
4200	0.038		
4260	0.037		
4320	0.038		
4380	0.043		
4440	0.042		
4500	0.04		
4560	0.043		
4620	0.042		
4680	0.042		
4740	0.042		
4800	0.04		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.04		
4920	0.046		
4980	0.04		
5040	0.047		
5100	0.041		
5160	0.042		
5220	0.041		
5280	0.04		
5340	0.042		
5400	0.041		
5460	0.039		
5520	0.04		
5580	0.04		
5640	0.037		
5700	0.037		
5760	0.037		
5820	0.038		
5880	0.037		
5940	0.037		
6000	0.035		
6060	0.035		
6120	0.037		
6180	0.037		
6240	0.039		
6300	0.039		
6360	0.04		
6420	0.04		
6480	0.039		
6540	0.039		
6600	0.04		
6660	0.04		
6720	0.039		
6780	0.037		
6840	0.039		
6900	0.042		
6960	0.04		
7020	0.04		
7080	0.039		
7140	0.037		
7200	0.037		
7260	0.037		
7320	0.038		
7380	0.037		
7440	0.037		
7500	0.037		
7560	0.037		
7620	0.038		
7680	0.038		
7740	0.039		
7800	0.038		
7860	0.038		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.039		
7980	0.038		
8040	0.039		
8100	0.038		
8160	0.039		
8220	0.041		
8280	0.039		
8340	0.04		
8400	0.039		
8460	0.04		
8520	0.042		
8580	0.042		
8640	0.043		
8700	0.043		
8760	0.041		
8820	0.041		
8880	0.042		
8940	0.044		
9000	0.043		
9060	0.042		
9120	0.042		
9180	0.044		
9240	0.044		
9300	0.043		
9360	0.047		
9420	0.062		
9480	0.076		
9540	0.047		
9600	0.046		
9660	0.042		
9720	0.044		
9780	0.047		
9840	0.043		
9900	0.047		
9960	0.053		
10020	0.055		
10080	0.051		
10140	0.049		
10200	0.064		
10260	0.054		
10320	0.048		
10380	0.048		
10440	0.055		
10500	0.055		
10560	0.054		
10620	0.047		
10680	0.05		
10740	0.045		
10800	0.045		
10860	0.045		
10920	0.045		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.046		
11040	0.045		
11100	0.061		
11160	0.051		
11220	0.045		
11280	0.052		
11340	0.058		
11400	0.054		
11460	0.056		
11520	0.051		
11580	0.049		
11640	0.047		
11700	0.047		
11760	0.041		
11820	0.047		
11880	0.048		
11940	0.051		
12000	0.042		
12060	0.042		
12120	0.039		
12180	0.039		
12240	0.04		
12300	0.042		
12360	0.04		
12420	0.041		
12480	0.041		
12540	0.041		
12600	0.04		
12660	0.041		
12720	0.039		
12780	0.039		
12840	0.038		
12900	0.037		
12960	0.037		
13020	0.038		
13080	0.037		
13140	0.038		
13200	0.04		
13260	0.04		
13320	0.041		
13380	0.039		
13440	0.04		
13500	0.041		
13560	0.039		
13620	0.038		
13680	0.039		
13740	0.04		
13800	0.038		
13860	0.04		
13920	0.04		
13980	0.044		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.041		
14100	0.043		
14160	0.041		
14220	0.039		
14280	0.039		
14340	0.042		
14400	0.082		
14460	0.039		
14520	0.04		
14580	0.039		
14640	0.038		
14700	0.039		
14760	0.04		
14820	0.037		
14880	0.034		
14940	0.034		
15000	0.034		
15060	0.033		
15120	0.034		
15180	0.04		
15240	0.039		
15300	0.036		
15360	0.036		
15420	0.035		
15480	0.041		
15540	0.035		
15600	0.05		
15660	0.084		
15720	0.069		
15780	0.045		
15840	0.034		
15900	0.05		
15960	0.046		
16020	0.04		
16080	0.047		
16140	0.098		
16200	0.06		
16260	0.044		
16320	0.035		
16380	0.035		
16440	0.037		
16500	0.038		
16560	0.037		
16620	0.036		
16680	0.037		
16740	0.037		
16800	0.039		
16860	0.049		
16920	0.037		
16980	0.034		
17040	0.032		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.035		
17160	0.037		
17220	0.037		
17280	0.039		
17340	0.038		
17400	0.036		
17460	0.033		
17520	0.033		
17580	0.035		
17640	0.033		
17700	0.032		
17760	0.033		
17820	0.033		
17880	0.034		
17940	0.033		
18000	0.033		
18060	0.036		
18120	0.041		

13-0933D 566 Carroll Street, Brooklyn, NY
January 15, 2015 Downwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530133020
Firmware Version		3
Calibration Date		7/29/2013
Test Name	TEST 1_009	
Test Start Time		7:47:42 AM
Test Start Date		1/15/2015
Test Length [D:H:M]		0:06:04
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.061
Mass Minimum [mg/m3]		0
Mass Maximum [mg/m3]		0.733
Mass TWA [mg/m3]		0.046
Photometric User Cal		0.9
Flow User Cal		0
Errors		
Number of Samples		294

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.141		
120	0.063		
180	0.037		
240	0.028		
300	0.025		
360	0.04		
420	0.037		
480	0.04		
540	0.11		
600	0.064		
660	0.056		
720	0.047		
780	0.044		
840	0.044		
900	0.081		
960	0.052		
1020	0.043		
1080	0.042		
1140	0.05		
1200	0.067		
1260	0.049		
1320	0.107		
1380	0.093		
1440	0.098		
1500	0.054		
1560	0.042		
1620	0.038		
1680	0.039		
1740	0.041		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.044		
1860	0.043		
1920	0.038		
1980	0.039		
2040	0.039		
2100	0.04		
2160	0.041		
2220	0.039		
2280	0.039		
2340	0.04		
2400	0.036		
2460	0.038		
2520	0.039		
2580	0.038		
2640	0.039		
2700	0.039		
2760	0.041		
2820	0.042		
2880	0.215		
2940	0.112		
3000	0.043		
3060	0.04		
3120	0.04		
3180	0.039		
3240	0.041		
3300	0.039		
3360	0.042		
3420	0.039		
3480	0.04		
3540	0.039		
3600	0.038		
3660	0.041		
3720	0.045		
3780	0.043		
3840	0.042		
3900	0.045		
3960	0.044		
4020	0.044		
4080	0.043		
4140	0.042		
4200	0.043		
4260	0.047		
4320	0.046		
4380	0.048		
4440	0.043		
4500	0.042		
4560	0.043		
4620	0.041		
4680	0.043		
4740	0.043		
4800	0.04		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.042		
4920	0.04		
4980	0.038		
5040	0.038		
5100	0.038		
5160	0.04		
5220	0.038		
5280	0.037		
5340	0.036		
5400	0.037		
5460	0.039		
5520	0.039		
5580	0.041		
5640	0.041		
5700	0.043		
5760	0.042		
5820	0.04		
5880	0.041		
5940	0.042		
6000	0.042		
6060	0.04		
6120	0.039		
6180	0.043		
6240	0.042		
6300	0.042		
6360	0.042		
6420	0.038		
6480	0.035		
6540	0.037		
6600	0.037		
6660	0.038		
6720	0.038		
6780	0.039		
6840	0.038		
6900	0.039		
6960	0.04		
7020	0.039		
7080	0.039		
7140	0.038		
7200	0.04		
7260	0.041		
7320	0.039		
7380	0.041		
7440	0.04		
7500	0.043		
7560	0.043		
7620	0.042		
7680	0.05		
7740	0.041		
7800	0.055		
7860	0.046		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.084		
7980	0.055		
8040	0.044		
8100	0.043		
8160	0.043		
8220	0.045		
8280	0.045		
8340	0.045		
8400	0.043		
8460	0.045		
8520	0.048		
8580	0.046		
8640	0.047		
8700	0.058		
8760	0.067		
8820	0.078		
8880	0.051		
8940	0.05		
9000	0.044		
9060	0.046		
9120	0.048		
9180	0.046		
9240	0.048		
9300	0.063		
9360	0.058		
9420	0.052		
9480	0.055		
9540	0.07		
9600	0.057		
9660	0.051		
9720	0.054		
9780	0.069		
9840	0.058		
9900	0.057		
9960	0.05		
10020	0.055		
10080	0.051		
10140	0.047		
10200	0.048		
10260	0.05		
10320	0.048		
10380	0.051		
10440	0.061		
10500	0.054		
10560	0.047		
10620	0.055		
10680	0.06		
10740	0.055		
10800	0.061		
10860	0.057		
10920	0.052		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.048		
11040	0.344		
11100	0.37		
11160	0.106		
11220	0.272		
11280	0.129		
11340	0.15		
11400	0.185		
11460	0.06		
11520	0.233		
11580	0.078		
11640	0.045		
11700	0.042		
11760	0.043		
11820	0.043		
11880	0.04		
11940	0.733		
12000	0.138		
12060	0.056		
12120	0.047		
12180	0.04		
12240	0.038		
12300	0.128		
12360	0.07		
12420	0.039		
12480	0.041		
12540	0.065		
12600	0.061		
12660	0.041		
12720	0.042		
12780	0.041		
12840	0.043		
12900	0.046		
12960	0.043		
13020	0.042		
13080	0.042		
13140	0.048		
13200	0.05		
13260	0.152		
13320	0.226		
13380	0.23		
13440	0.08		
13500	0.044		
13560	0.043		
13620	0.043		
13680	0.041		
13740	0.041		
13800	0.042		
13860	0.04		
13920	0.04		
13980	0.039		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.039		
14100	0.04		
14160	0.038		
14220	0.035		
14280	0.034		
14340	0.032		
14400	0.033		
14460	0.035		
14520	0.049		
14580	0.04		
14640	0.09		
14700	0.138		
14760	0.076		
14820	0.044		
14880	0.041		
14940	0.08		
15000	0.043		
15060	0.038		
15120	0.096		
15180	0.138		
15240	0.17		
15300	0.129		
15360	0.143		
15420	0.064		
15480	0.069		
15540	0.081		
15600	0.07		
15660	0.24		
15720	0.134		
15780	0.14		
15840	0.178		
15900	0.112		
15960	0.082		
16020	0.047		
16080	0.042		
16140	0.083		
16200	0.081		
16260	0.052		
16320	0.034		
16380	0.034		
16440	0.04		
16500	0.037		
16560	0.039		
16620	0.039		
16680	0.039		
16740	0.038		
16800	0.033		
16860	0.033		
16920	0.034		
16980	0.034		
17040	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.037		
17160	0.036		
17220	0.033		
17280	0.033		
17340	0.033		
17400	0.04		
17460	0.042		
17520	0.033		
21819	0		
21840	0.024		

13-0933D 566 Carroll Street, Brooklyn, NY
January 16, 2015 Upwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530111903
Firmware Version		3
Calibration Date		8/16/2013
Test Name	TEST 2_007	
Test Start Time		8:04:24 AM
Test Start Date		1/16/2015
Test Length [D:H:M]		0:03:14
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.072
Mass Minimum [mg/m3]		0.057
Mass Maximum [mg/m3]		0.177
Mass TWA [mg/m3]		0.029
Photometric User Cal		0.85
Flow User Cal		0
Errors		
Number of Samples		194

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.151		
120	0.096		
180	0.081		
240	0.077		
300	0.078		
360	0.08		
420	0.082		
480	0.1		
540	0.081		
600	0.08		
660	0.095		
720	0.092		
780	0.081		
840	0.079		
900	0.082		
960	0.079		
1020	0.078		
1080	0.078		
1140	0.105		
1200	0.077		
1260	0.088		
1320	0.077		
1380	0.076		
1440	0.074		
1500	0.074		
1560	0.075		
1620	0.078		
1680	0.08		
1740	0.081		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.077		
1860	0.076		
1920	0.078		
1980	0.077		
2040	0.076		
2100	0.077		
2160	0.081		
2220	0.084		
2280	0.074		
2340	0.071		
2400	0.071		
2460	0.071		
2520	0.072		
2580	0.073		
2640	0.073		
2700	0.071		
2760	0.072		
2820	0.073		
2880	0.073		
2940	0.071		
3000	0.072		
3060	0.074		
3120	0.072		
3180	0.07		
3240	0.07		
3300	0.069		
3360	0.068		
3420	0.069		
3480	0.069		
3540	0.069		
3600	0.069		
3660	0.069		
3720	0.069		
3780	0.069		
3840	0.072		
3900	0.07		
3960	0.069		
4020	0.071		
4080	0.07		
4140	0.069		
4200	0.072		
4260	0.072		
4320	0.073		
4380	0.072		
4440	0.072		
4500	0.068		
4560	0.067		
4620	0.068		
4680	0.068		
4740	0.066		
4800	0.067		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.067		
4920	0.069		
4980	0.07		
5040	0.077		
5100	0.072		
5160	0.07		
5220	0.068		
5280	0.069		
5340	0.068		
5400	0.067		
5460	0.068		
5520	0.07		
5580	0.068		
5640	0.068		
5700	0.067		
5760	0.066		
5820	0.066		
5880	0.066		
5940	0.069		
6000	0.069		
6060	0.067		
6120	0.066		
6180	0.069		
6240	0.078		
6300	0.078		
6360	0.08		
6420	0.07		
6480	0.071		
6540	0.066		
6600	0.068		
6660	0.072		
6720	0.079		
6780	0.067		
6840	0.066		
6900	0.068		
6960	0.068		
7020	0.066		
7080	0.069		
7140	0.071		
7200	0.069		
7260	0.066		
7320	0.066		
7380	0.073		
7440	0.177		
7500	0.11		
7560	0.079		
7620	0.077		
7680	0.067		
7740	0.115		
7800	0.064		
7860	0.062		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.064		
7980	0.067		
8040	0.069		
8100	0.064		
8160	0.065		
8220	0.063		
8280	0.065		
8340	0.063		
8400	0.064		
8460	0.063		
8520	0.063		
8580	0.062		
8640	0.062		
8700	0.063		
8760	0.066		
8820	0.067		
8880	0.065		
8940	0.083		
9000	0.065		
9060	0.068		
9120	0.063		
9180	0.064		
9240	0.066		
9300	0.068		
9360	0.071		
9420	0.065		
9480	0.067		
9540	0.063		
9600	0.064		
9660	0.103		
9720	0.068		
9780	0.067		
9840	0.076		
9900	0.063		
9960	0.063		
10020	0.063		
10080	0.063		
10140	0.06		
10200	0.059		
10260	0.064		
10320	0.083		
10380	0.073		
10440	0.06		
10500	0.06		
10560	0.084		
10620	0.061		
10680	0.064		
10740	0.059		
10800	0.062		
10860	0.065		
10920	0.064		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.057		
11040	0.058		
11100	0.061		
11160	0.062		
11220	0.061		
11280	0.069		
11340	0.073		
11400	0.06		
11460	0.075		
11520	0.061		
11580	0.066		
11640	0.065		

13-0933D 566 Carroll Street, Brooklyn, NY
January 16, 2015 Downwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530133020
Firmware Version		3
Calibration Date		7/29/2013
Test Name	TEST 1_010	
Test Start Time		8:13:54 AM
Test Start Date		1/16/2015
Test Length [D:H:M]		0:03:01
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.087
Mass Minimum [mg/m3]		0.069
Mass Maximum [mg/m3]		0.168
Mass TWA [mg/m3]		0.033
Photometric User Cal		0.9
Flow User Cal		0
Errors		
Number of Samples		181

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.091		
120	0.131		
180	0.12		
240	0.094		
300	0.094		
360	0.117		
420	0.094		
480	0.103		
540	0.094		
600	0.135		
660	0.144		
720	0.104		
780	0.093		
840	0.093		
900	0.108		
960	0.096		
1020	0.093		
1080	0.089		
1140	0.089		
1200	0.089		
1260	0.129		
1320	0.168		
1380	0.132		
1440	0.1		
1500	0.091		
1560	0.089		
1620	0.09		
1680	0.086		
1740	0.095		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.107		
1860	0.115		
1920	0.108		
1980	0.09		
2040	0.093		
2100	0.106		
2160	0.095		
2220	0.095		
2280	0.098		
2340	0.098		
2400	0.105		
2460	0.107		
2520	0.081		
2580	0.077		
2640	0.077		
2700	0.078		
2760	0.079		
2820	0.078		
2880	0.078		
2940	0.08		
3000	0.079		
3060	0.082		
3120	0.081		
3180	0.08		
3240	0.081		
3300	0.081		
3360	0.079		
3420	0.082		
3480	0.084		
3540	0.083		
3600	0.087		
3660	0.084		
3720	0.08		
3780	0.079		
3840	0.079		
3900	0.079		
3960	0.079		
4020	0.078		
4080	0.078		
4140	0.08		
4200	0.081		
4260	0.085		
4320	0.088		
4380	0.081		
4440	0.08		
4500	0.081		
4560	0.08		
4620	0.079		
4680	0.08		
4740	0.082		
4800	0.08		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.079		
4920	0.079		
4980	0.078		
5040	0.078		
5100	0.077		
5160	0.081		
5220	0.08		
5280	0.079		
5340	0.078		
5400	0.085		
5460	0.097		
5520	0.097		
5580	0.093		
5640	0.086		
5700	0.095		
5760	0.08		
5820	0.097		
5880	0.102		
5940	0.11		
6000	0.079		
6060	0.084		
6120	0.097		
6180	0.079		
6240	0.078		
6300	0.08		
6360	0.113		
6420	0.093		
6480	0.078		
6540	0.078		
6600	0.086		
6660	0.15		
6720	0.084		
6780	0.088		
6840	0.115		
6900	0.081		
6960	0.153		
7020	0.076		
7080	0.074		
7140	0.074		
7200	0.077		
7260	0.078		
7320	0.074		
7380	0.075		
7440	0.074		
7500	0.074		
7560	0.075		
7620	0.074		
7680	0.082		
7740	0.075		
7800	0.072		
7860	0.072		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.076		
7980	0.079		
8040	0.086		
8100	0.117		
8160	0.122		
8220	0.079		
8280	0.097		
8340	0.074		
8400	0.078		
8460	0.077		
8520	0.081		
8580	0.089		
8640	0.075		
8700	0.082		
8760	0.077		
8820	0.076		
8880	0.078		
8940	0.1		
9000	0.08		
9060	0.092		
9120	0.077		
9180	0.075		
9240	0.073		
9300	0.073		
9360	0.071		
9420	0.07		
9480	0.071		
9540	0.082		
9600	0.088		
9660	0.072		
9720	0.073		
9780	0.087		
9840	0.072		
9900	0.077		
9960	0.07		
10020	0.073		
10080	0.079		
10140	0.075		
10200	0.069		
10260	0.069		
10320	0.072		
10380	0.074		
10440	0.073		
10500	0.08		
10560	0.09		
10620	0.071		
10680	0.077		
10740	0.071		
10800	0.077		
10860	0.078		

13-0933D 566 Carroll Street, Brooklyn, NY
January 20, 2015 Upwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530111903
Firmware Version		3
Calibration Date		8/16/2013
Test Name	TEST 2_008	
Test Start Time		7:43:00 AM
Test Start Date		1/20/2015
Test Length [D:H:M]		0:08:07
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.023
Mass Minimum [mg/m3]		0.013
Mass Maximum [mg/m3]		0.895
Mass TWA [mg/m3]		0
Photometric User Cal		0.85
Flow User Cal		0
Errors		
Number of Samples		487

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.028		
120	0.013		
180	0.014		
240	0.013		
300	0.016		
360	0.022		
420	0.028		
480	0.025		
540	0.016		
600	0.014		
660	0.015		
720	0.015		
780	0.013		
840	0.014		
900	0.015		
960	0.014		
1020	0.014		
1080	0.014		
1140	0.014		
1200	0.014		
1260	0.287		
1320	0.016		
1380	0.018		
1440	0.017		
1500	0.018		
1560	0.017		
1620	0.016		
1680	0.017		
1740	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.02		
1860	0.018		
1920	0.016		
1980	0.017		
2040	0.021		
2100	0.098		
2160	0.152		
2220	0.895		
2280	0.015		
2340	0.016		
2400	0.018		
2460	0.017		
2520	0.017		
2580	0.017		
2640	0.018		
2700	0.025		
2760	0.02		
2820	0.025		
2880	0.028		
2940	0.034		
3000	0.027		
3060	0.02		
3120	0.022		
3180	0.023		
3240	0.021		
3300	0.018		
3360	0.018		
3420	0.016		
3480	0.017		
3540	0.017		
3600	0.019		
3660	0.018		
3720	0.02		
3780	0.02		
3840	0.017		
3900	0.014		
3960	0.017		
4020	0.017		
4080	0.017		
4140	0.017		
4200	0.015		
4260	0.015		
4320	0.015		
4380	0.017		
4440	0.016		
4500	0.017		
4560	0.017		
4620	0.026		
4680	0.015		
4740	0.018		
4800	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.02		
4920	0.017		
4980	0.018		
5040	0.021		
5100	0.024		
5160	0.032		
5220	0.021		
5280	0.015		
5340	0.016		
5400	0.018		
5460	0.019		
5520	0.016		
5580	0.015		
5640	0.015		
5700	0.016		
5760	0.016		
5820	0.019		
5880	0.021		
5940	0.019		
6000	0.019		
6060	0.022		
6120	0.016		
6180	0.017		
6240	0.016		
6300	0.016		
6360	0.022		
6420	0.053		
6480	0.03		
6540	0.016		
6600	0.016		
6660	0.018		
6720	0.017		
6780	0.018		
6840	0.024		
6900	0.019		
6960	0.019		
7020	0.019		
7080	0.019		
7140	0.018		
7200	0.018		
7260	0.024		
7320	0.019		
7380	0.017		
7440	0.016		
7500	0.016		
7560	0.016		
7620	0.017		
7680	0.017		
7740	0.017		
7800	0.02		
7860	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.017		
7980	0.016		
8040	0.018		
8100	0.019		
8160	0.02		
8220	0.018		
8280	0.019		
8340	0.019		
8400	0.019		
8460	0.017		
8520	0.017		
8580	0.018		
8640	0.018		
8700	0.019		
8760	0.02		
8820	0.018		
8880	0.016		
8940	0.017		
9000	0.016		
9060	0.017		
9120	0.018		
9180	0.018		
9240	0.018		
9300	0.017		
9360	0.018		
9420	0.018		
9480	0.018		
9540	0.019		
9600	0.019		
9660	0.021		
9720	0.021		
9780	0.019		
9840	0.019		
9900	0.018		
9960	0.018		
10020	0.022		
10080	0.019		
10140	0.02		
10200	0.019		
10260	0.019		
10320	0.019		
10380	0.019		
10440	0.019		
10500	0.02		
10560	0.02		
10620	0.02		
10680	0.018		
10740	0.019		
10800	0.018		
10860	0.022		
10920	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.019		
11040	0.019		
11100	0.018		
11160	0.018		
11220	0.017		
11280	0.016		
11340	0.025		
11400	0.022		
11460	0.064		
11520	0.026		
11580	0.022		
11640	0.019		
11700	0.019		
11760	0.02		
11820	0.017		
11880	0.018		
11940	0.018		
12000	0.018		
12060	0.018		
12120	0.019		
12180	0.018		
12240	0.018		
12300	0.017		
12360	0.015		
12420	0.016		
12480	0.017		
12540	0.016		
12600	0.017		
12660	0.017		
12720	0.017		
12780	0.017		
12840	0.016		
12900	0.016		
12960	0.017		
13020	0.017		
13080	0.018		
13140	0.02		
13200	0.019		
13260	0.019		
13320	0.019		
13380	0.017		
13440	0.018		
13500	0.019		
13560	0.018		
13620	0.018		
13680	0.019		
13740	0.019		
13800	0.019		
13860	0.021		
13920	0.019		
13980	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.018		
14100	0.02		
14160	0.022		
14220	0.021		
14280	0.021		
14340	0.022		
14400	0.02		
14460	0.02		
14520	0.02		
14580	0.02		
14640	0.019		
14700	0.019		
14760	0.018		
14820	0.02		
14880	0.017		
14940	0.016		
15000	0.019		
15060	0.047		
15120	0.027		
15180	0.06		
15240	0.02		
15300	0.02		
15360	0.018		
15420	0.019		
15480	0.02		
15540	0.022		
15600	0.025		
15660	0.026		
15720	0.02		
15780	0.027		
15840	0.021		
15900	0.019		
15960	0.02		
16020	0.019		
16080	0.019		
16140	0.027		
16200	0.017		
16260	0.02		
16320	0.018		
16380	0.018		
16440	0.019		
16500	0.018		
16560	0.019		
16620	0.019		
16680	0.02		
16740	0.019		
16800	0.017		
16860	0.02		
16920	0.02		
16980	0.022		
17040	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.021		
17160	0.017		
17220	0.017		
17280	0.016		
17340	0.019		
17400	0.019		
17460	0.018		
17520	0.017		
17580	0.019		
17640	0.019		
17700	0.019		
17760	0.017		
17820	0.017		
17880	0.017		
17940	0.017		
18000	0.024		
18060	0.031		
18120	0.031		
18180	0.027		
18240	0.028		
18300	0.03		
18360	0.019		
18420	0.018		
18480	0.028		
18540	0.032		
18600	0.031		
18660	0.033		
18720	0.02		
18780	0.034		
18840	0.029		
18900	0.021		
18960	0.018		
19020	0.021		
19080	0.019		
19140	0.02		
19200	0.018		
19260	0.017		
19320	0.019		
19380	0.021		
19440	0.016		
19500	0.017		
19560	0.018		
19620	0.019		
19680	0.022		
19740	0.022		
19800	0.019		
19860	0.021		
19920	0.019		
19980	0.02		
20040	0.018		
20100	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20160	0.019		
20220	0.024		
20280	0.021		
20340	0.019		
20400	0.016		
20460	0.017		
20520	0.019		
20580	0.018		
20640	0.016		
20700	0.02		
20760	0.015		
20820	0.018		
20880	0.016		
20940	0.017		
21000	0.018		
21060	0.025		
21120	0.019		
21180	0.021		
21240	0.02		
21300	0.017		
21360	0.018		
21420	0.019		
21480	0.019		
21540	0.019		
21600	0.018		
21660	0.026		
21720	0.02		
21780	0.02		
21840	0.019		
21900	0.018		
21960	0.017		
22020	0.02		
22080	0.02		
22140	0.018		
22200	0.018		
22260	0.018		
22320	0.019		
22380	0.02		
22440	0.021		
22500	0.019		
22560	0.019		
22620	0.019		
22680	0.019		
22740	0.025		
22800	0.021		
22860	0.019		
22920	0.019		
22980	0.021		
23040	0.021		
23100	0.023		
23160	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23220	0.02		
23280	0.02		
23340	0.016		
23400	0.017		
23460	0.019		
23520	0.021		
23580	0.022		
23640	0.023		
23700	0.023		
23760	0.021		
23820	0.024		
23880	0.024		
23940	0.025		
24000	0.027		
24060	0.022		
24120	0.021		
24180	0.019		
24240	0.019		
24300	0.018		
24360	0.023		
24420	0.094		
24480	0.019		
24540	0.019		
24600	0.019		
24660	0.018		
24720	0.019		
24780	0.04		
24840	0.019		
24900	0.017		
24960	0.016		
25020	0.018		
25080	0.018		
25140	0.018		
25200	0.019		
25260	0.019		
25320	0.022		
25380	0.018		
25440	0.019		
25500	0.018		
25560	0.019		
25620	0.02		
25680	0.018		
25740	0.02		
25800	0.02		
25860	0.023		
25920	0.021		
25980	0.02		
26040	0.019		
26100	0.021		
26160	0.017		
26220	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
26280	0.017		
26340	0.016		
26400	0.016		
26460	0.017		
26520	0.017		
26580	0.02		
26640	0.022		
26700	0.019		
26760	0.017		
26820	0.018		
26880	0.02		
26940	0.018		
27000	0.017		
27060	0.017		
27120	0.017		
27180	0.018		
27240	0.017		
27300	0.017		
27360	0.019		
27420	0.02		
27480	0.019		
27540	0.019		
27600	0.018		
27660	0.019		
27720	0.021		
27780	0.02		
27840	0.021		
27900	0.034		
27960	0.026		
28020	0.028		
28080	0.029		
28140	0.021		
28200	0.018		
28260	0.018		
28320	0.018		
28380	0.017		
28440	0.018		
28500	0.018		
28560	0.019		
28620	0.017		
28680	0.017		
28740	0.019		
28800	0.017		
28860	0.017		
28920	0.018		
28980	0.019		
29040	0.022		
29100	0.022		
29160	0.02		
29220	0.023		

13-0933D 566 Carroll Street, Brooklyn, NY
January 20, 2015 Downwind Dustrak

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530133020
Firmware Version	3
Calibration Date	7/29/2013
Test Name	TEST 1_011
Test Start Time	7:43:50 AM
Test Start Date	1/20/2015
Test Length [D:H:M]	0:08:00
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.052
Mass Minimum [mg/m3]	0.015
Mass Maximum [mg/m3]	2.3
Mass TWA [mg/m3]	0.052
Photometric User Cal	0.9
Flow User Cal	0
Errors	
Number of Samples	480

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.025		
120	0.017		
180	0.023		
240	0.02		
300	0.019		
360	0.017		
420	0.016		
480	0.276		
540	0.054		
600	0.037		
660	0.051		
720	0.067		
780	0.02		
840	0.054		
900	0.055		
960	0.037		
1020	0.029		
1080	0.02		
1140	0.019		
1200	0.041		
1260	0.058		
1320	0.051		
1380	0.057		
1440	0.028		
1500	0.043		
1560	0.052		
1620	0.038		
1680	0.022		
1740	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.051		
1860	0.07		
1920	0.06		
1980	0.087		
2040	0.029		
2100	0.02		
2160	0.02		
2220	0.042		
2280	0.041		
2340	0.044		
2400	0.028		
2460	0.027		
2520	0.035		
2580	0.032		
2640	0.042		
2700	0.055		
2760	0.028		
2820	0.03		
2880	0.023		
2940	0.022		
3000	0.022		
3060	0.02		
3120	0.018		
3180	0.017		
3240	0.017		
3300	0.033		
3360	0.061		
3420	0.022		
3480	0.029		
3540	0.03		
3600	0.05		
3660	0.035		
3720	0.025		
3780	0.025		
3840	0.026		
3900	0.036		
3960	0.032		
4020	0.026		
4080	0.019		
4140	0.13		
4200	0.418		
4260	0.035		
4320	0.023		
4380	0.024		
4440	0.082		
4500	0.228		
4560	0.134		
4620	0.05		
4680	0.061		
4740	0.045		
4800	0.026		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.022		
4920	0.041		
4980	0.05		
5040	0.02		
5100	0.016		
5160	0.018		
5220	0.02		
5280	0.017		
5340	0.016		
5400	0.015		
5460	0.016		
5520	0.017		
5580	0.027		
5640	0.135		
5700	0.075		
5760	0.046		
5820	0.056		
5880	0.022		
5940	0.098		
6000	0.053		
6060	0.02		
6120	0.084		
6180	0.035		
6240	0.029		
6300	0.019		
6360	0.017		
6420	0.017		
6480	0.018		
6540	0.037		
6600	0.024		
6660	0.02		
6720	0.019		
6780	0.021		
6840	0.019		
6900	0.018		
6960	0.018		
7020	0.019		
7080	0.02		
7140	0.016		
7200	0.017		
7260	0.016		
7320	0.015		
7380	0.018		
7440	0.017		
7500	0.017		
7560	0.018		
7620	0.016		
7680	0.536		
7740	0.1		
7800	0.112		
7860	0.027		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.031		
7980	0.062		
8040	0.029		
8100	0.025		
8160	0.023		
8220	0.021		
8280	0.023		
8340	0.019		
8400	0.021		
8460	0.022		
8520	0.024		
8580	0.031		
8640	0.023		
8700	0.021		
8760	0.075		
8820	0.057		
8880	0.048		
8940	0.038		
9000	0.029		
9060	0.271		
9120	0.126		
9180	0.035		
9240	0.018		
9300	0.02		
9360	0.024		
9420	0.023		
9480	0.022		
9540	0.071		
9600	0.155		
9660	0.162		
9720	0.222		
9780	0.219		
9840	0.041		
9900	0.022		
9960	0.02		
10020	0.019		
10080	0.019		
10140	0.019		
10200	0.018		
10260	0.019		
10320	0.02		
10380	0.019		
10440	0.017		
10500	0.018		
10560	0.018		
10620	0.018		
10680	0.019		
10740	0.019		
10800	0.02		
10860	0.017		
10920	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.017		
11040	0.017		
11100	0.02		
11160	0.019		
11220	0.035		
11280	0.037		
11340	0.02		
11400	0.019		
11460	0.032		
11520	0.025		
11580	0.038		
11640	0.064		
11700	0.044		
11760	0.033		
11820	0.029		
11880	0.021		
11940	0.028		
12000	0.037		
12060	0.028		
12120	0.026		
12180	0.024		
12240	0.02		
12300	0.019		
12360	0.048		
12420	0.034		
12480	0.031		
12540	0.024		
12600	0.036		
12660	0.025		
12720	0.022		
12780	0.024		
12840	0.039		
12900	0.029		
12960	0.029		
13020	0.03		
13080	0.033		
13140	0.03		
13200	0.025		
13260	0.023		
13320	0.022		
13380	0.03		
13440	0.026		
13500	0.06		
13560	0.072		
13620	0.042		
13680	0.042		
13740	0.053		
13800	0.099		
13860	0.054		
13920	0.039		
13980	0.03		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.027		
14100	0.034		
14160	0.039		
14220	0.031		
14280	0.05		
14340	0.049		
14400	0.051		
14460	0.106		
14520	0.548		
14580	0.517		
14640	0.039		
14700	0.044		
14760	0.257		
14820	0.319		
14880	0.606		
14940	2.3		
15000	2.25		
15060	0.032		
15120	0.021		
15180	0.025		
15240	0.036		
15300	0.036		
15360	0.027		
15420	0.028		
15480	0.024		
15540	0.024		
15600	0.022		
15660	0.021		
15720	0.025		
15780	0.022		
15840	0.022		
15900	0.024		
15960	0.023		
16020	0.025		
16080	0.026		
16140	0.022		
16200	0.025		
16260	0.021		
16320	0.022		
16380	0.024		
16440	0.022		
16500	0.022		
16560	0.021		
16620	0.02		
16680	0.021		
16740	0.023		
16800	0.021		
16860	0.021		
16920	0.024		
16980	0.021		
17040	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.019		
17160	0.019		
17220	0.019		
17280	0.017		
17340	0.02		
17400	0.023		
17460	0.025		
17520	0.022		
17580	0.02		
17640	0.018		
17700	0.019		
17760	0.03		
17820	0.034		
17880	0.033		
17940	0.035		
18000	0.035		
18060	0.038		
18120	0.039		
18180	0.03		
18240	0.047		
18300	0.09		
18360	0.071		
18420	0.047		
18480	0.054		
18540	0.047		
18600	0.036		
18660	0.026		
18720	0.02		
18780	0.023		
18840	0.019		
18900	0.019		
18960	0.02		
19020	0.024		
19080	0.022		
19140	0.024		
19200	0.02		
19260	0.021		
19320	0.02		
19380	0.025		
19440	0.023		
19500	0.021		
19560	0.026		
19620	0.023		
19680	0.024		
19740	0.022		
19800	0.023		
19860	0.063		
19920	0.029		
19980	0.033		
20040	0.026		
20100	0.044		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20160	0.083		
20220	0.05		
20280	0.061		
20340	0.056		
20400	0.04		
20460	0.027		
20520	0.021		
20580	0.022		
20640	0.016		
20700	0.024		
20760	0.018		
20820	0.028		
20880	0.02		
20940	0.024		
21000	0.024		
21060	0.023		
21120	0.018		
21180	0.021		
21240	0.021		
21300	0.02		
21360	0.019		
21420	0.021		
21480	0.021		
21540	0.021		
21600	0.021		
21660	0.019		
21720	0.018		
21780	0.023		
21840	0.025		
21900	0.021		
21960	0.019		
22020	0.019		
22080	0.02		
22140	0.02		
22200	0.023		
22260	0.022		
22320	0.022		
22380	0.02		
22440	0.024		
22500	0.026		
22560	0.029		
22620	0.024		
22680	0.025		
22740	0.023		
22800	0.028		
22860	0.023		
22920	0.024		
22980	0.022		
23040	0.021		
23100	0.101		
23160	0.126		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23220	0.059		
23280	0.39		
23340	0.061		
23400	0.027		
23460	0.025		
23520	0.024		
23580	0.026		
23640	0.026		
23700	0.04		
23760	0.09		
23820	0.303		
23880	0.155		
23940	0.032		
24000	0.031		
24060	0.019		
24120	0.031		
24180	0.023		
24240	0.023		
24300	0.022		
24360	0.021		
24420	0.02		
24480	0.019		
24540	0.018		
24600	0.023		
24660	0.045		
24720	0.054		
24780	0.039		
24840	0.026		
24900	0.022		
24960	0.027		
25020	0.024		
25080	0.058		
25140	0.032		
25200	0.027		
25260	0.026		
25320	0.027		
25380	0.025		
25440	0.027		
25500	0.051		
25560	0.035		
25620	0.026		
25680	0.022		
25740	0.026		
25800	0.025		
25860	0.038		
25920	0.043		
25980	0.025		
26040	0.025		
26100	0.02		
26160	0.021		
26220	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
26280	0.024		
26340	0.022		
26400	0.02		
26460	0.022		
26520	0.019		
26580	0.027		
26640	0.027		
26700	0.023		
26760	0.021		
26820	0.02		
26880	0.02		
26940	0.023		
27000	0.02		
27060	0.021		
27120	0.029		
27180	0.024		
27240	0.197		
27300	0.12		
27360	0.027		
27420	0.024		
27480	0.024		
27540	0.029		
27600	0.031		
27660	0.029		
27720	0.029		
27780	0.032		
27840	0.055		
27900	0.076		
27960	0.05		
28020	0.036		
28080	0.031		
28140	0.027		
28200	0.028		
28260	0.071		
28320	0.031		
28380	0.023		
28440	0.021		
28500	0.02		
28560	0.018		
28620	0.019		
28680	0.027		
28740	0.021		
28800	0.021		

13-0933s 566 Carroll Street, Brooklyn, NY
January 21, 2015 Upwind PID

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530111903
Firmware Version		3
Calibration Date		8/16/2013
Test Name	TEST 2_009	
Test Start Time		8:26:39 AM
Test Start Date		1/21/2015
Test Length [D:H:M]		0:06:16
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.026
Mass Minimum [mg/m3]		0.008
Mass Maximum [mg/m3]		0.657
Mass TWA [mg/m3]		0.021
Photometric User Cal		0.85
Flow User Cal		0
Errors		
Number of Samples		376

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.02		
120	0.018		
180	0.02		
240	0.016		
300	0.015		
360	0.015		
420	0.015		
480	0.015		
540	0.014		
600	0.014		
660	0.013		
720	0.013		
780	0.014		
840	0.016		
900	0.015		
960	0.015		
1020	0.016		
1080	0.016		
1140	0.016		
1200	0.032		
1260	0.02		
1320	0.017		
1380	0.017		
1440	0.015		
1500	0.017		
1560	0.014		
1620	0.015		
1680	0.015		
1740	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.019		
1860	0.021		
1920	0.021		
1980	0.024		
2040	0.024		
2100	0.023		
2160	0.023		
2220	0.026		
2280	0.027		
2340	0.021		
2400	0.022		
2460	0.022		
2520	0.022		
2580	0.023		
2640	0.027		
2700	0.018		
2760	0.018		
2820	0.019		
2880	0.018		
2940	0.017		
3000	0.017		
3060	0.019		
3120	0.016		
3180	0.016		
3240	0.019		
3300	0.02		
3360	0.076		
3420	0.02		
3480	0.019		
3540	0.017		
3600	0.017		
3660	0.019		
3720	0.019		
3780	0.018		
3840	0.019		
3900	0.022		
3960	0.02		
4020	0.018		
4080	0.018		
4140	0.018		
4200	0.018		
4260	0.02		
4320	0.085		
4380	0.017		
4440	0.017		
4500	0.017		
4560	0.017		
4620	0.021		
4680	0.019		
4740	0.02		
4800	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.025		
4920	0.018		
4980	0.017		
5040	0.021		
5100	0.019		
5160	0.02		
5220	0.02		
5280	0.016		
5340	0.019		
5400	0.48		
5460	0.226		
5520	0.026		
5580	0.02		
5640	0.02		
5700	0.018		
5760	0.019		
5820	0.023		
5880	0.021		
5940	0.03		
6000	0.03		
6060	0.024		
6120	0.023		
6180	0.022		
6240	0.257		
6300	0.025		
6360	0.023		
6420	0.118		
6480	0.037		
6540	0.03		
6600	0.657		
6660	0.22		
6720	0.024		
6780	0.024		
6840	0.169		
6900	0.033		
6960	0.294		
7020	0.055		
7080	0.027		
7140	0.022		
7200	0.024		
7260	0.021		
7320	0.021		
7380	0.02		
7440	0.019		
7500	0.018		
7560	0.02		
7620	0.022		
7680	0.023		
7740	0.02		
7800	0.017		
7860	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.016		
7980	0.019		
8040	0.02		
8100	0.024		
8160	0.021		
8220	0.039		
8280	0.076		
8340	0.054		
8400	0.02		
8460	0.019		
8520	0.02		
8580	0.02		
8640	0.02		
8700	0.022		
8760	0.02		
8820	0.02		
8880	0.02		
8940	0.02		
9000	0.02		
9060	0.02		
9120	0.02		
9180	0.021		
9240	0.021		
9300	0.021		
9360	0.022		
9420	0.023		
9480	0.023		
9540	0.022		
9600	0.024		
9660	0.023		
9720	0.023		
9780	0.021		
9840	0.03		
9900	0.027		
9960	0.027		
10020	0.022		
10080	0.032		
10140	0.023		
10200	0.022		
10260	0.021		
10320	0.02		
10380	0.021		
10440	0.02		
10500	0.019		
10560	0.018		
10620	0.016		
10680	0.019		
10740	0.019		
10800	0.016		
10860	0.018		
10920	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.015		
11040	0.015		
11100	0.016		
11160	0.069		
11220	0.042		
11280	0.038		
11340	0.016		
11400	0.02		
11460	0.017		
11520	0.017		
11580	0.016		
11640	0.015		
11700	0.014		
11760	0.015		
11820	0.015		
11880	0.011		
11940	0.012		
12000	0.014		
12060	0.018		
12120	0.014		
12180	0.028		
12240	0.022		
12300	0.014		
12360	0.013		
12420	0.012		
12480	0.012		
12540	0.014		
12600	0.021		
12660	0.014		
12720	0.013		
12780	0.013		
12840	0.017		
12900	0.019		
12960	0.018		
13020	0.015		
13080	0.015		
13140	0.013		
13200	0.012		
13260	0.012		
13320	0.013		
13380	0.012		
13440	0.013		
13500	0.012		
13560	0.013		
13620	0.013		
13680	0.011		
13740	0.012		
13800	0.011		
13860	0.1		
13920	0.022		
13980	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.016		
14100	0.013		
14160	0.017		
14220	0.575		
14280	0.019		
14340	0.011		
14400	0.025		
14460	0.013		
14520	0.012		
14580	0.015		
14640	0.014		
14700	0.013		
14760	0.016		
14820	0.015		
14880	0.013		
14940	0.015		
15000	0.013		
15060	0.011		
15120	0.012		
15180	0.013		
15240	0.013		
15300	0.012		
15360	0.012		
15420	0.011		
15480	0.014		
15540	0.016		
15600	0.017		
15660	0.014		
15720	0.014		
15780	0.013		
15840	0.013		
15900	0.013		
15960	0.012		
16020	0.013		
16080	0.012		
16140	0.011		
16200	0.013		
16260	0.012		
16320	0.012		
16380	0.011		
16440	0.012		
16500	0.014		
16560	0.015		
16620	0.013		
16680	0.014		
16740	0.014		
16800	0.014		
16860	0.013		
16920	0.012		
16980	0.012		
17040	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.012		
17160	0.012		
17220	0.015		
17280	0.012		
17340	0.013		
17400	0.013		
17460	0.013		
17520	0.013		
17580	0.013		
17640	0.047		
17700	0.057		
17760	0.285		
17820	0.021		
17880	0.012		
17940	0.013		
18000	0.012		
18060	0.011		
18120	0.01		
18180	0.012		
18240	0.013		
18300	0.014		
18360	0.012		
18420	0.014		
18480	0.013		
18540	0.011		
18600	0.011		
18660	0.01		
18720	0.011		
18780	0.01		
18840	0.01		
18900	0.017		
18960	0.02		
19020	0.016		
19080	0.02		
19140	0.024		
19200	0.016		
19260	0.012		
19320	0.008		
19380	0.008		
19440	0.009		
19500	0.009		
19560	0.017		
19620	0.008		
19680	0.009		
19740	0.009		
19800	0.009		
19860	0.009		
19920	0.009		
19980	0.01		
20040	0.01		
20100	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20160	0.009		
20220	0.009		
20280	0.01		
20340	0.012		
20400	0.011		
20460	0.014		
20520	0.011		
20580	0.014		
20640	0.014		
20700	0.011		
20760	0.01		
20820	0.016		
20880	0.027		
20940	0.017		
21000	0.017		
21060	0.011		
21120	0.014		
21180	0.015		
21240	0.011		
21300	0.017		
21360	0.013		
21420	0.011		
21480	0.01		
21540	0.011		
21600	0.011		
21660	0.01		
21720	0.016		
21780	0.015		
21840	0.013		
21900	0.011		
21960	0.015		
22020	0.017		
22080	0.01		
22140	0.011		
22200	0.011		
22260	0.011		
22320	0.011		
22380	0.01		
22440	0.013		
22500	0.016		
22560	0.014		

13-0933D 566 Carroll Street, Brooklyn, NY
January 21, 2015 Downwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530133020
Firmware Version		3
Calibration Date		7/29/2013
Test Name	TEST 1_012	
Test Start Time		8:25:06 AM
Test Start Date		1/21/2015
Test Length [D:H:M]		0:07:09
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.098
Mass Minimum [mg/m3]		0
Mass Maximum [mg/m3]		3.61
Mass TWA [mg/m3]		0.088
Photometric User Cal		0.9
Flow User Cal		0
Errors		
Number of Samples		377

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.021		
120	0.018		
180	0.016		
240	0.016		
300	0.016		
360	0.017		
420	0.014		
480	0.015		
540	0.016		
600	0.015		
660	0.017		
720	0.018		
780	0.019		
840	0.018		
900	0.017		
960	0.017		
1020	0.02		
1080	0.021		
1140	0.025		
1200	0.021		
1260	0.019		
1320	0.018		
1380	0.018		
1440	0.018		
1500	0.019		
1560	0.02		
1620	0.018		
1680	0.02		
1740	0.117		

1800	0.222		
1860	0.364		
1920	0.186		
1980	0.075		
2040	0.781		
2100	0.123		
2160	0.072		
2220	0.073		
2280	0.034		
2340	0.028		
2400	0.026		
2460	0.023		
2520	0.028		
2580	0.03		
2640	0.037		
2700	0.031		
2760	0.035		
2820	0.022		
2880	0.019		
2940	0.021		
3000	0.025		
3060	0.019		
3120	0.028		
3180	0.042		
3240	0.206		
3300	0.035		
3360	0.022		
3420	0.02		
3480	0.02		
3540	0.022		
3600	0.024		
3660	0.025		
3720	0.026		
3780	0.023		
3840	0.025		
3900	0.02		
3960	0.025		
4020	0.021		
4080	0.023		
4140	0.022		
4200	0.331		
4260	0.068		
4320	0.076		
4380	0.025		
4440	0.023		
4500	0.023		
4560	0.024		
4620	0.021		
4680	0.02		
4740	0.049		
4800	0.035		
4860	0.034		

4920	0.026		
4980	0.072		
5040	0.046		
5100	0.039		
5160	0.027		
5220	0.385		
5280	1.19		
5340	0.197		
5400	0.084		
5460	0.148		
5520	0.115		
5580	0.067		
5640	0.125		
5700	0.144		
5760	0.033		
5820	0.062		
5880	0.084		
5940	0.042		
6000	0.04		
6060	0.033		
6120	3.61		
6180	0.637		
6240	0.105		
6300	3.16		
6360	1.13		
6420	0.176		
6480	1.94		
6540	3.12		
6600	0.296		
6660	1.23		
6720	1.56		
6780	0.321		
6840	2.01		
6900	2.92		
6960	0.145		
7020	0.038		
7080	0.027		
7140	0.025		
7200	0.025		
7260	0.024		
7320	0.022		
7380	0.021		
7440	0.026		
7500	0.072		
7560	0.027		
7620	0.023		
7680	0.022		
7740	0.023		
7800	0.042		
7860	0.022		
7920	0.025		
7980	0.029		

8040	0.026		
8100	0.031		
8160	0.095		
8220	0.077		
8280	0.024		
8340	0.022		
8400	0.023		
8460	0.022		
8520	0.024		
8580	0.024		
8640	0.023		
8700	0.023		
8760	0.023		
8820	0.023		
8880	0.023		
8940	0.023		
9000	0.023		
9060	0.023		
9120	0.025		
9180	0.025		
9240	0.025		
9300	0.026		
9360	0.026		
9420	0.026		
9480	0.028		
9540	0.027		
9600	0.026		
9660	0.025		
9720	0.034		
9780	0.032		
9840	0.034		
9900	0.029		
9960	0.031		
10020	0.028		
10080	0.025		
10140	0.023		
10200	0.025		
10260	0.025		
10320	0.027		
10380	0.023		
10440	0.02		
10500	0.02		
10560	0.065		
10620	0.022		
10680	0.022		
10740	0.024		
10800	0.022		
10860	0.018		
10920	0.019		
10980	0.019		
11040	0.076		
11100	0.069		

11160	0.049		
11220	0.022		
11280	0.023		
11340	0.022		
11400	0.022		
11460	0.019		
11520	0.02		
11580	0.018		
11640	0.019		
11700	0.019		
11760	0.015		
11820	0.015		
11880	0.018		
11940	0.021		
12000	0.017		
12060	0.037		
12120	0.041		
12180	0.023		
12240	0.016		
12300	0.017		
12360	0.016		
12420	0.017		
12480	0.02		
12540	0.017		
12600	0.019		
12660	0.015		
12720	0.019		
12780	0.026		
12840	0.023		
12900	0.019		
12960	0.017		
13020	0.016		
13080	0.015		
13140	0.015		
13200	0.015		
13260	0.016		
13320	0.015		
13380	0.017		
13440	0.015		
13500	0.015		
13560	0.014		
13620	0.015		
13680	0.014		
13740	0.016		
13800	0.038		
13860	0.192		
13920	0.022		
13980	0.138		
14040	0.017		
14100	0.05		
14160	0.023		
14220	0.02		

14280	0.015		
14340	0.418		
14400	0.032		
14460	0.016		
14520	0.018		
14580	0.018		
14640	0.015		
14700	0.016		
14760	0.014		
14820	0.015		
14880	0.015		
14940	0.014		
15000	0.014		
15060	0.015		
15120	0.015		
15180	0.014		
15240	0.014		
15300	0.014		
15360	0.015		
15420	0.017		
15480	0.02		
15540	0.016		
15600	0.016		
15660	0.015		
15720	0.017		
15780	0.016		
15840	0.016		
15900	0.015		
15960	0.015		
16020	0.015		
16080	0.015		
16140	0.015		
16200	0.014		
16260	0.013		
16320	0.016		
16380	0.016		
16440	0.017		
16500	0.015		
16560	0.015		
16620	0.015		
16680	0.015		
16740	0.015		
16800	0.014		
16860	0.013		
16920	0.013		
16980	0.014		
17040	0.014		
17100	0.015		
17160	0.016		
17220	0.016		
17280	0.015		
17340	0.015		

17400	0.016		
17460	0.085		
17520	0.766		
17580	0.411		
17640	0.038		
17700	0.126		
17760	0.041		
17820	0.026		
17880	0.015		
17940	0.014		
18000	0.013		
18060	0.013		
18120	0.015		
18180	0.013		
18240	0.015		
18300	0.014		
18360	0.015		
18420	0.013		
18480	0.015		
18540	0.092		
18600	0.035		
18660	0.012		
18720	0.012		
18780	0.012		
18840	0.014		
18900	0.015		
18960	0.016		
19020	0.013		
19080	0.013		
19140	0.019		
19200	0.02		
19260	0.013		
19320	0.016		
19380	0.012		
19440	0.037		
19500	0.012		
19560	0.015		
19620	0.013		
19680	0.013		
19740	0.014		
19800	0.013		
19860	0.014		
19920	0.014		
19980	0.012		
20040	0.013		
20100	0.013		
20160	0.015		
20220	0.016		
20280	0.015		
20340	0.021		
20400	0.018		
20460	0.035		

20520	0.023		
20580	0.015		
20640	0.018		
20700	0.017		
20760	0.017		
20820	0.019		
20880	0.017		
20940	0.015		
21000	0.014		
21060	0.014		
21120	0.016		
21180	0.016		
21240	0.016		
21300	0.015		
21360	0.014		
21420	0.015		
21480	0.017		
21540	0.016		
21600	0.017		
21660	0.016		
21720	0.017		
21780	0.015		
21840	0.017		
21900	0.016		
21960	0.013		
22020	0.014		
22080	0.016		
22140	0.014		
22200	0.016		
22260	0.015		
22320	0.02		
22380	0.02		
22440	0.017		
22500	0.019		
22560	0.017		
25787	0		

13-0933D 566 Carroll Street, Brooklyn, NY
January 22, 2015 Upwind Dusttrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530111903
Firmware Version		3
Calibration Date		8/16/2013
Test Name	TEST 2_010	
Test Start Time		8:59:42 AM
Test Start Date		1/22/2015
Test Length [D:H:M]		0:05:34
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.048
Mass Minimum [mg/m3]		0
Mass Maximum [mg/m3]		0.089
Mass TWA [mg/m3]		0.033
Photometric User Cal		0.85
Flow User Cal		0
Errors		
Number of Samples		248

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.052		
120	0.041		
180	0.042		
240	0.038		
300	0.037		
360	0.037		
420	0.037		
480	0.036		
540	0.036		
600	0.037		
660	0.041		
720	0.038		
780	0.04		
840	0.038		
900	0.035		
960	0.035		
1020	0.036		
1080	0.039		
1140	0.039		
1200	0.038		
1260	0.039		
1320	0.035		
1380	0.034		
1440	0.037		
1500	0.037		
1560	0.036		
1620	0.036		
1680	0.036		
1740	0.036		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.037		
1860	0.04		
1920	0.043		
1980	0.045		
2040	0.045		
2100	0.042		
2160	0.04		
2220	0.041		
2280	0.04		
2340	0.044		
2400	0.041		
2460	0.041		
2520	0.041		
2580	0.041		
2640	0.039		
2700	0.04		
2760	0.04		
2820	0.042		
2880	0.042		
2940	0.039		
3000	0.038		
3060	0.041		
3120	0.039		
3180	0.039		
3240	0.04		
3300	0.04		
3360	0.04		
3420	0.04		
3480	0.039		
3540	0.041		
3600	0.043		
3660	0.044		
3720	0.045		
3780	0.042		
3840	0.062		
3900	0.068		
3960	0.051		
4020	0.045		
4080	0.058		
4140	0.044		
4200	0.045		
4260	0.051		
4320	0.054		
4380	0.046		
4440	0.046		
4500	0.046		
4560	0.054		
4620	0.056		
4680	0.05		
4740	0.042		
4800	0.043		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.043		
4920	0.044		
4980	0.043		
5040	0.045		
5100	0.045		
5160	0.043		
5220	0.045		
5280	0.045		
5340	0.046		
5400	0.044		
5460	0.046		
5520	0.047		
5580	0.044		
5640	0.045		
5700	0.048		
5760	0.053		
5820	0.051		
5880	0.048		
5940	0.05		
6000	0.051		
6060	0.053		
6120	0.049		
6180	0.055		
6240	0.051		
6300	0.05		
6360	0.049		
6420	0.052		
6480	0.05		
6540	0.048		
6600	0.047		
6660	0.057		
6720	0.053		
6780	0.049		
6840	0.05		
6900	0.046		
6960	0.046		
7020	0.047		
7080	0.054		
7140	0.045		
7200	0.044		
7260	0.043		
7320	0.044		
7380	0.046		
7440	0.053		
7500	0.053		
7560	0.052		
7620	0.048		
7680	0.043		
7740	0.044		
7800	0.044		
7860	0.048		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.046		
7980	0.044		
8040	0.056		
8100	0.047		
8160	0.056		
8220	0.055		
8280	0.046		
8340	0.046		
8400	0.045		
8460	0.048		
8520	0.048		
8580	0.049		
8640	0.062		
8700	0.062		
8760	0.052		
8820	0.074		
8880	0.064		
8940	0.055		
9000	0.057		
9060	0.063		
9120	0.059		
9180	0.054		
9240	0.055		
9300	0.056		
9360	0.059		
9420	0.06		
9480	0.061		
9540	0.057		
9600	0.055		
9660	0.053		
9720	0.054		
9780	0.059		
9840	0.059		
9900	0.06		
9960	0.053		
10020	0.053		
10080	0.058		
10140	0.057		
10200	0.053		
10260	0.054		
10320	0.057		
10380	0.057		
10440	0.054		
10500	0.051		
10560	0.051		
10620	0.05		
10680	0.055		
10740	0.059		
10800	0.064		
10860	0.089		
10920	0.052		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.051		
11040	0.053		
11100	0.054		
11160	0.056		
11220	0.057		
11280	0.053		
11340	0.055		
11400	0.056		
11460	0.058		
11520	0.052		
11580	0.051		
11640	0.051		
11700	0.057		
11760	0.056		
11820	0.052		
11880	0.046		
11940	0.056		
12000	0.053		
12060	0.053		
12120	0.049		
12180	0.048		
12240	0.047		
12300	0.049		
12360	0.054		
12420	0.048		
12480	0.047		
12540	0.046		
12600	0.05		
12660	0.049		
12720	0.05		
12780	0.051		
12840	0.047		
12900	0.047		
12960	0.051		
13020	0.049		
13080	0.076		
13140	0.044		
13200	0.048		
13260	0.049		
13320	0.048		
13380	0.056		
13440	0.043		
13500	0.045		
13560	0.046		
13620	0.043		
13680	0.046		
13740	0.049		
13800	0.046		
13860	0.045		
13920	0.042		
13980	0.044		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.043		
14100	0.042		
14160	0.043		
14220	0.042		
14280	0.053		
14340	0.045		
14400	0.046		
14460	0.045		
14520	0.047		
14580	0.052		
14640	0.05		
14700	0.043		
14760	0.049		
20030	0		
20040	0.021		

13-0933D 566 Carroll Street, Brooklyn, NY
January 22, 2015 Downwind Dustrak

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530133020
Firmware Version	3
Calibration Date	7/29/2013
Test Name	TEST 1_013
Test Start Time	8:57:52 AM
Test Start Date	1/22/2015
Test Length [D:H:M]	0:04:04
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.067
Mass Minimum [mg/m3]	0.035
Mass Maximum [mg/m3]	0.53
Mass TWA [mg/m3]	0.034
Photometric User Cal	0.9
Flow User Cal	0
Errors	
Number of Samples	244

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.045		
120	0.138		
180	0.13		
240	0.054		
300	0.048		
360	0.045		
420	0.045		
480	0.045		
540	0.201		
600	0.123		
660	0.321		
720	0.295		
780	0.069		
840	0.043		
900	0.044		
960	0.059		
1020	0.083		
1080	0.058		
1140	0.057		
1200	0.056		
1260	0.183		
1320	0.397		
1380	0.158		
1440	0.041		
1500	0.095		
1560	0.065		
1620	0.041		
1680	0.043		
1740	0.092		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.347		
1860	0.53		
1920	0.154		
1980	0.047		
2040	0.045		
2100	0.047		
2160	0.038		
2220	0.039		
2280	0.048		
2340	0.14		
2400	0.202		
2460	0.075		
2520	0.063		
2580	0.044		
2640	0.035		
2700	0.038		
2760	0.08		
2820	0.075		
2880	0.172		
2940	0.145		
3000	0.072		
3060	0.046		
3120	0.052		
3180	0.054		
3240	0.06		
3300	0.044		
3360	0.058		
3420	0.077		
3480	0.101		
3540	0.08		
3600	0.131		
3660	0.115		
3720	0.166		
3780	0.222		
3840	0.347		
3900	0.193		
3960	0.145		
4020	0.048		
4080	0.043		
4140	0.044		
4200	0.051		
4260	0.048		
4320	0.045		
4380	0.047		
4440	0.051		
4500	0.047		
4560	0.047		
4620	0.043		
4680	0.043		
4740	0.043		
4800	0.043		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.044		
4920	0.045		
4980	0.045		
5040	0.044		
5100	0.044		
5160	0.044		
5220	0.046		
5280	0.045		
5340	0.045		
5400	0.047		
5460	0.046		
5520	0.044		
5580	0.046		
5640	0.049		
5700	0.05		
5760	0.05		
5820	0.052		
5880	0.051		
5940	0.053		
6000	0.052		
6060	0.054		
6120	0.054		
6180	0.051		
6240	0.05		
6300	0.051		
6360	0.052		
6420	0.049		
6480	0.047		
6540	0.048		
6600	0.054		
6660	0.057		
6720	0.053		
6780	0.048		
6840	0.048		
6900	0.047		
6960	0.051		
7020	0.052		
7080	0.046		
7140	0.045		
7200	0.044		
7260	0.045		
7320	0.048		
7380	0.06		
7440	0.053		
7500	0.051		
7560	0.046		
7620	0.045		
7680	0.045		
7740	0.046		
7800	0.049		
7860	0.046		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.046		
7980	0.05		
8040	0.054		
8100	0.058		
8160	0.047		
8220	0.048		
8280	0.046		
8340	0.048		
8400	0.051		
8460	0.05		
8520	0.052		
8580	0.058		
8640	0.055		
8700	0.058		
8760	0.083		
8820	0.052		
8880	0.052		
8940	0.06		
9000	0.061		
9060	0.052		
9120	0.053		
9180	0.053		
9240	0.053		
9300	0.054		
9360	0.059		
9420	0.055		
9480	0.056		
9540	0.051		
9600	0.051		
9660	0.054		
9720	0.055		
9780	0.054		
9840	0.051		
9900	0.05		
9960	0.055		
10020	0.054		
10080	0.053		
10140	0.052		
10200	0.053		
10260	0.056		
10320	0.054		
10380	0.053		
10440	0.053		
10500	0.054		
10560	0.056		
10620	0.059		
10680	0.057		
10740	0.089		
10800	0.059		
10860	0.053		
10920	0.054		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.053		
11040	0.056		
11100	0.055		
11160	0.054		
11220	0.052		
11280	0.054		
11340	0.052		
11400	0.051		
11460	0.052		
11520	0.052		
11580	0.056		
11640	0.055		
11700	0.053		
11760	0.048		
11820	0.052		
11880	0.054		
11940	0.053		
12000	0.05		
12060	0.047		
12120	0.046		
12180	0.047		
12240	0.05		
12300	0.053		
12360	0.046		
12420	0.045		
12480	0.048		
12540	0.048		
12600	0.049		
12660	0.05		
12720	0.048		
12780	0.047		
12840	0.047		
12900	0.048		
12960	0.068		
13020	0.042		
13080	0.046		
13140	0.05		
13200	0.048		
13260	0.051		
13320	0.047		
13380	0.045		
13440	0.045		
13500	0.043		
13560	0.044		
13620	0.046		
13680	0.047		
13740	0.046		
13800	0.043		
13860	0.043		
13920	0.042		
13980	0.043		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.044		
14100	0.044		
14160	0.048		
14220	0.047		
14280	0.048		
14340	0.048		
14400	0.047		
14460	0.046		
14520	0.048		
14580	0.044		
14640	0.043		

13-0933D 566 Carroll Street, Brooklyn, NY
January 23, 2015 Upwind Dustrak

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530111903
Firmware Version	3
Calibration Date	8/16/2013
Test Name	TEST 2_011
Test Start Time	7:55:44 AM
Test Start Date	1/23/2015
Test Length [D:H:M]	0:10:20
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.062
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.285
Mass TWA [mg/m3]	0.034
Photometric User Cal	0.85
Flow User Cal	0
Errors	
Number of Samples	262

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.096		
120	0.061		
180	0.055		
240	0.054		
300	0.081		
360	0.054		
420	0.056		
480	0.059		
540	0.061		
600	0.132		
660	0.059		
720	0.058		
780	0.06		
840	0.056		
900	0.057		
960	0.059		
1020	0.068		
1080	0.07		
1140	0.086		
1200	0.075		
1260	0.061		
1320	0.062		
1380	0.061		
1440	0.073		
1500	0.083		
1560	0.07		
1620	0.063		
1680	0.062		
1740	0.063		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.059		
1860	0.063		
1920	0.062		
1980	0.061		
2040	0.065		
2100	0.061		
2160	0.063		
2220	0.065		
2280	0.065		
2340	0.285		
2400	0.071		
2460	0.062		
2520	0.06		
2580	0.06		
2640	0.062		
2700	0.063		
2760	0.063		
2820	0.066		
2880	0.07		
2940	0.064		
3000	0.063		
3060	0.062		
3120	0.059		
3180	0.061		
3240	0.063		
3300	0.067		
3360	0.067		
3420	0.064		
3480	0.064		
3540	0.063		
3600	0.06		
3660	0.058		
3720	0.059		
3780	0.06		
3840	0.059		
3900	0.059		
3960	0.059		
4020	0.06		
4080	0.061		
4140	0.065		
4200	0.066		
4260	0.07		
4320	0.067		
4380	0.063		
4440	0.068		
4500	0.066		
4560	0.064		
4620	0.061		
4680	0.066		
4740	0.075		
4800	0.061		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.064		
4920	0.063		
4980	0.062		
5040	0.056		
5100	0.058		
5160	0.057		
5220	0.059		
5280	0.058		
5340	0.059		
5400	0.056		
5460	0.053		
5520	0.055		
5580	0.053		
5640	0.056		
5700	0.057		
5760	0.054		
5820	0.055		
5880	0.052		
5940	0.051		
6000	0.051		
6060	0.05		
6120	0.048		
6180	0.049		
6240	0.051		
6300	0.053		
6360	0.053		
6420	0.049		
6480	0.047		
6540	0.055		
6600	0.057		
6660	0.055		
6720	0.059		
6780	0.056		
6840	0.061		
6900	0.062		
6960	0.055		
7020	0.053		
7080	0.064		
7140	0.058		
7200	0.053		
7260	0.052		
7320	0.054		
7380	0.054		
7440	0.051		
7500	0.054		
7560	0.053		
7620	0.056		
7680	0.051		
7740	0.054		
7800	0.054		
7860	0.054		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.055		
7980	0.055		
8040	0.056		
8100	0.057		
8160	0.062		
8220	0.066		
8280	0.063		
8340	0.068		
8400	0.064		
8460	0.063		
8520	0.059		
8580	0.059		
8640	0.064		
8700	0.058		
8760	0.059		
8820	0.055		
8880	0.054		
8940	0.053		
9000	0.052		
9060	0.056		
9120	0.067		
9180	0.058		
9240	0.055		
9300	0.055		
9360	0.055		
9420	0.053		
9480	0.053		
9540	0.055		
9600	0.057		
9660	0.056		
9720	0.055		
9780	0.051		
9840	0.081		
9900	0.075		
9960	0.054		
10020	0.054		
10080	0.055		
10140	0.055		
10200	0.054		
10260	0.055		
10320	0.05		
10380	0.05		
10440	0.053		
10500	0.052		
10560	0.052		
10620	0.092		
10680	0.065		
10740	0.059		
10800	0.054		
10860	0.053		
10920	0.054		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.052		
11040	0.054		
11100	0.063		
11160	0.058		
11220	0.066		
11280	0.064		
11340	0.058		
11400	0.055		
11460	0.056		
11520	0.053		
11580	0.056		
11640	0.054		
11700	0.054		
11760	0.054		
11820	0.052		
11880	0.053		
11940	0.052		
12000	0.052		
12060	0.051		
12120	0.052		
12180	0.052		
12240	0.05		
12300	0.053		
12360	0.057		
12420	0.056		
12480	0.055		
12540	0.056		
12600	0.054		
12660	0.05		
12720	0.051		
12780	0.058		
12840	0.052		
12900	0.052		
12960	0.052		
13020	0.053		
13080	0.05		
13140	0.049		
13200	0.052		
13260	0.051		
13320	0.053		
13380	0.053		
13440	0.054		
13500	0.054		
13560	0.052		
13620	0.052		
13680	0.053		
13740	0.053		
13800	0.086		
13860	0.05		
13920	0.05		
13980	0.056		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.055		
14100	0.05		
14160	0.049		
14220	0.064		
14280	0.075		
14340	0.053		
14400	0.096		
14460	0.121		
14520	0.108		
14580	0.119		
14640	0.082		
14700	0.086		
14760	0.055		
14820	0.051		
14880	0.065		
14940	0.052		
15000	0.052		
15060	0.068		
15120	0.072		
15180	0.073		
15240	0.053		
15300	0.057		
15360	0.044		
15420	0.049		
15480	0.256		
15540	0.22		
15600	0.048		
15660	0.092		
37208	0		

13-0933D 566 Carroll Street, Brooklyn, NY
January 23, 2015 Downwind Dustrak

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530133020
Firmware Version	3
Calibration Date	7/29/2013
Test Name	TEST 1_014
Test Start Time	7:51:13 AM
Test Start Date	1/23/2015
Test Length [D:H:M]	0:03:44
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.07
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.174
Mass TWA [mg/m3]	0.033
Photometric User Cal	0.9
Flow User Cal	0
Errors	
Number of Samples	39

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.055		
120	0.054		
180	0.057		
240	0.055		
300	0.055		
360	0.174		
420	0.057		
480	0.058		
540	0.059		
600	0.061		
660	0.06		
720	0.063		
780	0.069		
840	0.065		
900	0.061		
960	0.073		
1020	0.081		
1080	0.066		
1140	0.085		
1200	0.074		
1260	0.067		
1320	0.069		
1380	0.072		
1440	0.097		
1500	0.089		
1560	0.081		
1620	0.078		
1680	0.08		
1740	0.078		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.084		
1860	0.082		
1920	0.062		Flow Error
1980	0.168		Flow Error
2040	0.078		Flow Error
2100	0.057		Flow Error
2160	0.043		Flow Error
2220	0.058		Flow Error
2349	0		
13464	0		

13-0933D 566 Carroll Street, Brooklyn, NY
February 4, 2014 Downwind PID

==========
15/02/04 09:22
****
Summary

Unit Name	MiniRAE 3000(PGM-7320)	
Unit SN	592-903314	
Unit Firmware Ver	V1.20A	

Running Mode	Hygiene Mode	
Measure Type	Min; Avg; Max	
Datalog Mode	Continuous	
Datalog Type	Manual	
Diagnostic Mode	No	
Stop Reason	Power Down	

Site ID	PINE	
User ID	PINE	

Begin		2/4/2015 9:22
End		2/4/2015 9:29
Sample Period(s)		60
Number of Records		6

Sensor	VOC(ppm)	
Span		100
Span 2	N/A	
Low Alarm		50
High Alarm		100
Over Alarm		15000
STEL Alarm		25.476
TWA Alarm		11
Measurement Gas	Isobutene	
Calibration Time		1/29/2015 12:51
Peak	N/A	
Min	N/A	
Average	N/A	

****
Datalog

Index	Date/Time	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)
1	2/4/2015 9:23	0	0.144	1.009
2	2/4/2015 9:24	0	0.015	0.527
3	2/4/2015 9:25	0	0	0.011
4	2/4/2015 9:26	0	0	0
5	2/4/2015 9:27	0	0	0
6	2/4/2015 9:28	0	0	0

Peak	0	0.144	1.009
Min	0	0	0
Average	0	0.026	0.258

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15/02/04 10:28

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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-903314
Unit Firmware Ver	V1.20A

Running Mode	Hygiene Mode
Measure Type	Min; Avg; Max
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	PINE
User ID	PINE

Begin		2/4/2015 10:28
End		2/4/2015 10:33
Sample Period(s)		60
Number of Records		4

Sensor	VOC(ppm)	
Span		100
Span 2	N/A	
Low Alarm		50
High Alarm		100
Over Alarm		15000
STEL Alarm		25.476
TWA Alarm		11
Measurement Gas	Isobutene	
Calibration Time		1/29/2015 12:51
Peak	N/A	
Min	N/A	
Average	N/A	

****

Datalog

Index	Date/Time	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)
1	2/4/2015 10:29	0	0	0
2	2/4/2015 10:30	0	0	0
3	2/4/2015 10:31	0	0	0

4	2/4/2015 10:32	0	0	0
Peak		0	0	0
Min		0	0	0
Average		0	0	0

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15/02/04 11:11

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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-903314
Unit Firmware Ver	V1.20A

Running Mode	Hygiene Mode
Measure Type	Min; Avg; Max
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	PINE
User ID	PINE

Begin		2/4/2015 11:11
End		2/4/2015 11:20
Sample Period(s)		60
Number of Records		9

Sensor	VOC(ppm)	
Span		100
Span 2	N/A	
Low Alarm		50
High Alarm		100
Over Alarm		15000
STEL Alarm		25.476
TWA Alarm		11
Measurement Gas	Isobutene	
Calibration Time		1/29/2015 12:51
Peak	N/A	
Min	N/A	
Average	N/A	

****

Datalog

Index	Date/Time	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)
1	2/4/2015 11:12	0	0.013	0.065
2	2/4/2015 11:13	0	0.124	0.497
3	2/4/2015 11:14	0	0.02	0.191

4	2/4/2015 11:15	0	0	0
5	2/4/2015 11:16	0	0	0
6	2/4/2015 11:17	0	0	0
7	2/4/2015 11:18	0	0	0
8	2/4/2015 11:19	0	0	0
9	2/4/2015 11:20	0	0	0
Peak		0	0.124	0.497
Min		0	0	0
Average		0	0.017	0.084

13-0933F 566 Carroll Street, Brooklyn, NY
February 5, 2015 Downwind PID

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15/02/05 08:25
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-903314
Unit Firmware Ver	V1.20A

Running Mode	Hygiene Mode
Measure Type	Min; Avg; Max
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	PINE
User ID	PINE

Begin	2/5/2015 8:25
End	2/5/2015 9:00
Sample Period(s)	60
Number of Records	34

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25.476
TWA Alarm	11
Measurement Gas	Isobutene
Calibration Time	2/5/2015 8:22
Peak	N/A
Min	N/A
Average	N/A

****
Datalog

Index	Date/Time	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)
1	2/5/2015 8:26	0	0.001	0.028
2	2/5/2015 8:27	0	0	0.002
3	2/5/2015 8:28	0	0	0
4	2/5/2015 8:29	0	0	0.007
5	2/5/2015 8:30	0	0.006	0.093
6	2/5/2015 8:31	0	0	0

7	2/5/2015 8:32	0	0	0
8	2/5/2015 8:33	0	0	0
9	2/5/2015 8:34	0	0	0
10	2/5/2015 8:35	0	0	0
11	2/5/2015 8:36	0	0	0
12	2/5/2015 8:37	0	0	0
13	2/5/2015 8:38	0	0	0
14	2/5/2015 8:39	0	0	0
15	2/5/2015 8:40	0	0	0
16	2/5/2015 8:41	0	0	0
17	2/5/2015 8:42	0	0	0
18	2/5/2015 8:43	0	0	0
19	2/5/2015 8:44	0	0	0
20	2/5/2015 8:45	0	0	0
21	2/5/2015 8:46	0	0	0
22	2/5/2015 8:47	0	0	0
23	2/5/2015 8:48	0	0	0
24	2/5/2015 8:49	0	0.001	0.01
25	2/5/2015 8:50	0	0	0
26	2/5/2015 8:51	0	0.012	0.029
27	2/5/2015 8:52	0.023	0.037	0.047
28	2/5/2015 8:53	0.038	0.041	0.047
29	2/5/2015 8:54	0.039	0.043	0.047
30	2/5/2015 8:55	0.044	0.071	0.116
31	2/5/2015 8:56	0.055	0.068	0.083
32	2/5/2015 8:57	0.056	0.095	0.144
33	2/5/2015 8:58	0.074	0.083	0.096
34	2/5/2015 8:59	0.054	0.064	0.079
Peak		0.074	0.095	0.144
Min		0	0	0
Average		0.011	0.015	0.024

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15/02/05 12:39

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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-903314
Unit Firmware Ver	V1.20A

Running Mode	Hygiene Mode
Measure Type	Min; Avg; Max
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	PINE

User ID	PINE	
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Begin		2/5/2015 12:39
End		2/5/2015 13:21
Sample Period(s)		60
Number of Records		42
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Sensor	VOC(ppm)	
Span		100
Span 2	N/A	
Low Alarm		50
High Alarm		100
Over Alarm		15000
STEL Alarm		25.476
TWA Alarm		11
Measurement Gas	Isobutene	
Calibration Time		2/5/2015 8:22
Peak	N/A	
Min	N/A	
Average	N/A	

****

Datalog

Index	Date/Time	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)
1	2/5/2015 12:40	0	0	0
2	2/5/2015 12:41	0	0	0.005
3	2/5/2015 12:42	0	0	0.003
4	2/5/2015 12:43	0	0.041	0.167
5	2/5/2015 12:44	0.056	0.097	0.158
6	2/5/2015 12:45	0.063	0.102	0.173
7	2/5/2015 12:46	0.064	0.114	0.207
8	2/5/2015 12:47	0.042	0.055	0.088
9	2/5/2015 12:48	0.056	0.096	0.155
10	2/5/2015 12:49	0.047	0.112	0.208
11	2/5/2015 12:50	0.08	0.132	0.26
12	2/5/2015 12:51	0.085	0.149	0.259
13	2/5/2015 12:52	0.093	0.136	0.185
14	2/5/2015 12:53	0.076	0.135	0.166
15	2/5/2015 12:54	0.076	0.108	0.154
16	2/5/2015 12:55	0.099	0.143	0.243
17	2/5/2015 12:56	0.112	0.152	0.185
18	2/5/2015 12:57	0.099	0.126	0.166
19	2/5/2015 12:58	0.101	0.13	0.165
20	2/5/2015 12:59	0.087	0.112	0.159
21	2/5/2015 13:00	0.131	0.186	0.261
22	2/5/2015 13:01	0.122	0.194	0.335
23	2/5/2015 13:02	0.117	0.15	0.221
24	2/5/2015 13:03	0.093	0.125	0.214
25	2/5/2015 13:04	0.115	0.154	0.203
26	2/5/2015 13:05	0.152	0.19	0.258

27	2/5/2015 13:06	0.145	0.202	0.285
28	2/5/2015 13:07	0.132	0.159	0.211
29	2/5/2015 13:08	0.099	0.142	0.222
30	2/5/2015 13:09	0.101	0.122	0.161
31	2/5/2015 13:10	0.123	0.141	0.158
32	2/5/2015 13:11	0.128	0.164	0.239
33	2/5/2015 13:12	0.107	0.161	0.224
34	2/5/2015 13:13	0.105	0.129	0.189
35	2/5/2015 13:14	0.113	0.149	0.224
36	2/5/2015 13:15	0.098	0.119	0.146
37	2/5/2015 13:16	0.116	0.164	0.219
38	2/5/2015 13:17	0.145	0.192	0.26
39	2/5/2015 13:18	0.154	0.186	0.234
40	2/5/2015 13:19	0.167	0.195	0.233
41	2/5/2015 13:20	0.176	0.206	0.236
42	2/5/2015 13:21	0.189	0.213	0.255
Peak		0.189	0.213	0.335
Min		0	0	0
Average		0.097	0.133	0.193

13-0933D 566 Carroll Street, Brooklyn, NY
February 6, 2015 Upwind Dustrak

Instrument Name	DustTrak II	
Model Number		8530
Serial Number		8530111903
Firmware Version		3
Calibration Date		8/16/2013
Test Name	TEST 2_014	
Test Start Time		7:58:43 AM
Test Start Date		2/6/2015
Test Length [D:H:M]		0:07:48
Test Interval [M:S]		1:00
Mass Average [mg/m3]		0.044
Mass Minimum [mg/m3]		0
Mass Maximum [mg/m3]		0.142
Mass TWA [mg/m3]		0.043
Photometric User Cal		0.85
Flow User Cal		0
Errors		
Number of Samples		318

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.02		
120	0.019		
180	0.025		
240	0.017		
300	0.036		
360	0.026		
420	0.022		
480	0.016		
540	0.021		
600	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1140	0.023		
1200	0.021		
1260	0.024		
1320	0.021		
1380	0.024		
1440	0.02		
1500	0.029		
1560	0.027		
1620	0.023		
1680	0.021		
1740	0.026		
1800	0.024		
1860	0.026		
1920	0.027		
1980	0.025		
2040	0.022		
2100	0.024		
2160	0.022		
2220	0.044		
2280	0.065		
2340	0.039		
2400	0.033		
2460	0.042		
2520	0.029		
2580	0.037		
2640	0.025		
2700	0.024		
2760	0.025		
2820	0.035		
2880	0.029		
2940	0.024		
3000	0.058		
3060	0.09		
3120	0.07		
3180	0.047		
3240	0.052		
3300	0.076		
3360	0.057		
3420	0.052		
3480	0.045		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3540	0.049		
3600	0.057		
3660	0.053		
3720	0.039		
3780	0.051		
3840	0.102		
3900	0.043		
3960	0.077		
4020	0.142		
4080	0.094		
4140	0.058		
4200	0.024		
4260	0.034		
4320	0.068		
4380	0.056		
4440	0.067		
4500	0.053		
4560	0.049		
4620	0.059		
4680	0.064		
4740	0.089		
4800	0.092		
4860	0.079		
4920	0.066		
4980	0.069		
5040	0.104		
5100	0.051		
5160	0.1		
5220	0.079		
5280	0.077		
5340	0.043		
5400	0.067		
5460	0.031		
5520	0.028		
5580	0.027		
5640	0.025		
5700	0.027		
5760	0.027		
5820	0.028		
5880	0.066		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5940	0.128		
6000	0.044		
6060	0.046		
6120	0.04		
6180	0.029		
6240	0.057		
6300	0.035		
6360	0.057		
6420	0.062		
6480	0.07		
6540	0.136		
6600	0.096		
6660	0.09		
6720	0.035		
6780	0.029		
6840	0.055		
6900	0.047		
6960	0.034		
7020	0.031		
7080	0.036		
7140	0.05		
7200	0.031		
7260	0.049		
7320	0.05		
7380	0.058		
7440	0.116		
7500	0.076		
7560	0.059		
7620	0.056		
7680	0.057		
7740	0.072		
7800	0.081		
7860	0.098		
7920	0.066		
7980	0.042		
8040	0.034		
8100	0.034		
8160	0.037		
8220	0.025		
8280	0.033		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8340	0.025		
8400	0.029		
8460	0.024		
8520	0.031		
8580	0.066		
8640	0.07		
8700	0.04		
8760	0.048		
8820	0.045		
8880	0.04		
8940	0.122		
9000	0.046		
9060	0.037		
9120	0.029		
9180	0.042		
9240	0.031		
9300	0.025		
9360	0.028		
9420	0.028		
9480	0.038		
9540	0.035		
9600	0.045		
9660	0.035		
9720	0.058		
9780	0.028		
9840	0.025		
9900	0.031		
9960	0.029		
10020	0.025		
10080	0.028		
10140	0.033		
10200	0.027		
10260	0.03		
10320	0.026		
10380	0.028		
10440	0.027		
10500	0.031		
10560	0.024		
10620	0.035		
10680	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10740	0.034		
10800	0.032		
10860	0.034		
10920	0.046		
10980	0.032		
11040	0.027		
11100	0.032		
11160	0.032		
11220	0.032		
11280	0.032		
11340	0.029		
11400	0.033		
11460	0.034		
11520	0.033		
11580	0.032		
11640	0.03		
11700	0.031		
11760	0.039		
11820	0.057		
11880	0.033		
11940	0.029		
12000	0.032		
12060	0.031		
12120	0.033		
12180	0.032		
12240	0.029		
12300	0.03		
12360	0.032		
12420	0.029		
12480	0.029		
12540	0.031		
12600	0.027		
12660	0.029		
12720	0.028		
12780	0.028		
12840	0.032		
12900	0.029		
12960	0.094		
13020	0.04		
13080	0.111		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
13140	0.091		
13200	0.067		
13260	0.048		
13320	0.08		
13380	0.082		
13440	0.071		
13500	0.097		
13560	0.063		
13620	0.067		
13680	0.086		
13740	0.064		
13800	0.063		
13860	0.048		
13920	0.082		
13980	0.071		
14040	0.044		
14100	0.036		
14160	0.101		
14220	0.033		
14280	0.027		
14340	0.029		
14400	0.062		
14460	0.087		
14520	0.09		
14580	0.037		
14640	0.032		
14700	0.029		
14760	0.028		
14820	0.028		
14880	0.025		
14940	0.026		
15000	0.025		
15060	0.026		
15120	0.026		
15180	0.027		
15240	0.027		
15300	0.033		
15360	0.03		
15420	0.026		
15480	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15540	0.032		
15600	0.024		
15660	0.025		
15720	0.025		
15780	0.027		
15840	0.026		
15900	0.029		
15960	0.119		
16020	0.135		
16080	0.077		
16140	0.084		
16200	0.091		
16260	0.093		
16320	0.119		
16380	0.051		
16440	0.043		
16500	0.034		
16560	0.035		
16620	0.04		
16680	0.081		
16740	0.032		
16800	0.03		
16860	0.032		
16920	0.032		
16980	0.031		
17040	0.027		
17100	0.031		
17160	0.037		
17220	0.029		
17280	0.027		
17340	0.027		
17400	0.03		
17460	0.025		
17520	0.025		
17580	0.026		
17640	0.027		
17700	0.029		
17760	0.09		
17820	0.03		
17880	0.047		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17940	0.037		
18000	0.038		
18060	0.031		
18120	0.026		
18180	0.036		
18240	0.04		
18300	0.03		
18360	0.026		
18420	0.036		
18480	0.03		
18540	0.034		
18600	0.033		
18660	0.041		
18720	0.041		
18780	0.03		
18840	0.031		
18900	0.032		
18960	0.027		
28065	0		
28080	0.063		

13-0933D 566 Carroll Street, Brooklyn, NY
February 6, 2015 Downwind Dustrak

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530133020
Firmware Version	3
Calibration Date	7/29/2013
Test Name	TEST 1_017
Test Start Time	7:52:27 AM
Test Start Date	2/6/2015
Test Length [D:H:M]	0:07:52
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.041
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.45
Mass TWA [mg/m3]	0.041
Photometric User Cal	0.9
Flow User Cal	0
Errors	
Number of Samples	319

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.057		
120	0.028		
180	0.023		
240	0.025		
300	0.027		
360	0.037		
420	0.034		
480	0.057		
540	0.024		
600	0.024		
660	0.019		
720	0.021		
780	0.021		
840	0.022		
900	0.029		
960	0.041		
1020	0.044		
1080	0.038		
1140	0.045		
1200	0.035		
1260	0.024		
1320	0.025		
1380	0.026		
1440	0.026		
1500	0.028		
1560	0.028		
1620	0.024		
1680	0.034		
1740	0.037		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1800	0.025		
1860	0.025		
1920	0.03		
1980	0.028		
2040	0.033		
2100	0.037		
2160	0.035		
2220	0.026		
2280	0.026		
2340	0.033		
2400	0.044		
2460	0.046		
2520	0.041		
2580	0.039		
2640	0.034		
2700	0.034		
2760	0.034		
2820	0.031		
2880	0.028		
2940	0.027		
3000	0.054		
3060	0.036		
3120	0.027		
3180	0.061		
3240	0.04		
3300	0.099		
3360	0.154		
3420	0.047		
3480	0.054		
3540	0.026		
3600	0.052		
3660	0.063		
3720	0.047		
3780	0.036		
3840	0.044		
3900	0.039		
3960	0.038		
4020	0.039		
4080	0.043		
4140	0.029		
4200	0.032		
4260	0.044		
4320	0.031		
4380	0.027		
4440	0.051		
4500	0.062		
4560	0.058		
4620	0.038		
4680	0.042		
4740	0.04		
4800	0.044		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4860	0.037		
4920	0.035		
4980	0.033		
5040	0.029		
5100	0.034		
5160	0.045		
5220	0.047		
5280	0.035		
5340	0.026		
5400	0.025		
5460	0.023		
5520	0.026		
5580	0.031		
5640	0.042		
5700	0.04		
5760	0.031		
5820	0.029		
5880	0.026		
5940	0.035		
6000	0.031		
6060	0.031		
6120	0.05		
6180	0.048		
6240	0.035		
6300	0.028		
6360	0.029		
6420	0.031		
6480	0.122		
6540	0.049		
6600	0.104		
6660	0.061		
6720	0.038		
6780	0.036		
6840	0.033		
6900	0.029		
6960	0.033		
7020	0.031		
7080	0.036		
7140	0.031		
7200	0.028		
7260	0.027		
7320	0.028		
7380	0.029		
7440	0.074		
7500	0.054		
7560	0.054		
7620	0.031		
7680	0.028		
7740	0.027		
7800	0.034		
7860	0.025		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7920	0.034		
7980	0.028		
8040	0.038		
8100	0.034		
8160	0.027		
8220	0.025		
8280	0.027		
8340	0.031		
8400	0.027		
8460	0.027		
8520	0.026		
8580	0.024		
8640	0.027		
8700	0.026		
8760	0.038		
8820	0.028		
8880	0.026		
8940	0.03		
9000	0.029		
9060	0.05		
9120	0.062		
9180	0.028		
9240	0.039		
9300	0.03		
9360	0.026		
9420	0.028		
9480	0.029		
9540	0.024		
9600	0.026		
9660	0.038		
9720	0.031		
9780	0.033		
9840	0.034		
9900	0.024		
9960	0.026		
10020	0.026		
10080	0.028		
10140	0.027		
10200	0.027		
10260	0.029		
10320	0.027		
10380	0.023		
10440	0.024		
10500	0.025		
10560	0.027		
10620	0.031		
10680	0.029		
10740	0.029		
10800	0.035		
10860	0.029		
10920	0.031		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10980	0.03		
11040	0.047		
11100	0.03		
11160	0.028		
11220	0.025		
11280	0.032		
11340	0.032		
11400	0.029		
11460	0.024		
11520	0.026		
11580	0.028		
11640	0.031		
11700	0.03		
11760	0.032		
11820	0.032		
11880	0.039		
11940	0.037		
12000	0.035		
12060	0.025		
12120	0.029		
12180	0.032		
12240	0.033		
12300	0.031		
12360	0.031		
12420	0.031		
12480	0.029		
12540	0.033		
12600	0.034		
12660	0.039		
12720	0.035		
12780	0.029		
12840	0.031		
12900	0.04		
12960	0.039		
13020	0.033		
13080	0.044		
13140	0.163		
13200	0.07		
13260	0.141		
13320	0.088		
13380	0.053		
13440	0.044		
13500	0.055		
13560	0.048		
13620	0.09		
13680	0.118		
13740	0.114		
13800	0.098		
13860	0.109		
13920	0.093		
13980	0.095		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14040	0.084		
14100	0.067		
14160	0.05		
14220	0.124		
14280	0.069		
14340	0.106		
14400	0.45		
14460	0.035		
14520	0.035		
14580	0.039		
14640	0.048		
14700	0.365		
14760	0.036		
14820	0.038		
14880	0.035		
14940	0.038		
15000	0.041		
15060	0.031		
15120	0.032		
15180	0.03		
15240	0.032		
15300	0.035		
15360	0.033		
15420	0.034		
15480	0.044		
15540	0.035		
15600	0.032		
15660	0.031		
15720	0.03		
15780	0.033		
15840	0.034		
15900	0.031		
15960	0.035		
16020	0.031		
16080	0.039		
16140	0.032		
16200	0.043		
16260	0.047		
16320	0.073		
16380	0.088		
16440	0.038		
16500	0.062		
16560	0.088		
16620	0.053		
16680	0.042		
16740	0.033		
16800	0.031		
16860	0.041		
16920	0.061		
16980	0.033		
17040	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17100	0.035		
17160	0.044		
17220	0.031		
17280	0.041		
17340	0.035		
17400	0.036		
17460	0.035		
17520	0.033		
17580	0.032		
17640	0.031		
17700	0.031		
17760	0.032		
17820	0.036		
17880	0.033		
17940	0.03		
18000	0.03		
18060	0.029		
18120	0.029		
18180	0.028		
18240	0.046		
18300	0.028		
18360	0.027		
18420	0.026		
18480	0.029		
18540	0.028		
18600	0.031		
18660	0.029		
18720	0.036		
18780	0.033		
18840	0.031		
18900	0.026		
18960	0.027		
28233	0		
28260	0.014		
28320	0.012		

APPENDIX 4

DAILY REPORTS

DAILY STATUS REPORT

Prepared By: DAVID POON

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/8/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: JAMES NYCC CONSTRUCTION
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report): 700AM ARRIVE ON SITE AND MEET JAMES FROM NYCC CONSTRUCTION, DISCUSS SCOPE OF WORK FOR TODAY 0715 AM SETUP EQUIPMENT FOR MONITORING TO TAKE PLACE. BEGIN 15 MIN PID UPWIND AIR SAMPLING, 730AM BEGIN DUSTRAK READINGS 0830 - FIRST TRUCK ARRIVES FOR SOIL REMOVAL, READING RELATIVELY REMAIN NORMAL. TRUCK DEPARTS AND WORK HALTS. 1215PM - SECOND TRUCK ARRIVES, READINGS AGAIN RELATIVELY NORMAL, 1240 TRUCK DEPARTS FOR DISPOSAL. WORK COMMENCES AND WE LEAVE THE SITE

Working In Grid #: (1)

Samples Collected (Since Last Report):

One soil sample 4 ft deep into the excavation location

Air Monitoring (Since Last Report):

PID & DUST TRAK II

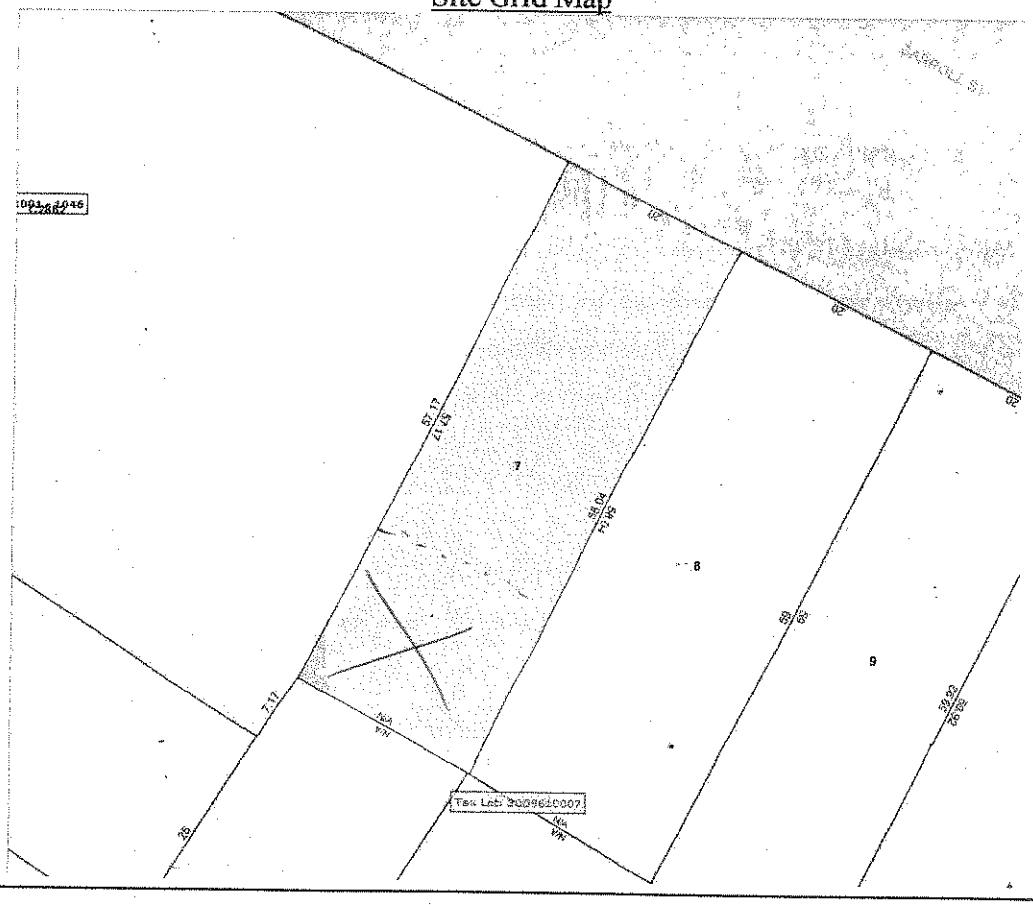
Problems Encountered: Spikes in readings were encountered during the transfer from pit to truck due to falling dirt, and impact of areas near the device

Planned Activities for the Next Day/ Week: Continue to removal soil from additional areas of 566 Carroll St

Facility # Name/ Location Type of Waste Solid Or Liquid	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid		NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid		NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid		NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid		####### Clean Earth Carteret, NJ petroleum soils Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks and Plate No.	Cu. Yds.	Trucks and Plate No.	Cu. Yds.	Trucks and Plate No.	Cu. Yds.	Trucks and Plate No.	Cu. Yds.	Trucks	Cu. Yds.
Today	1 NY 20502PB	25	2 NY 20502PB	25					5	120
Total	1	25	2	25					25	600

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A			
Tracking No.:	N/A				
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.

Site Grid Map



DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow	X	Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32	X	32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/9/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia NYCC construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report): ~~0730~~ (MR) 0730 Arrive on site and meet with Jaime Tapia from NYCC construction to Discuss SOP. 0800 - Calibrate Both Dustrak II's and PID's, Then setup in upwind and Downwind locations. 0810 - Begin 15 min Reading for VOCs at upwind location. 0835 - First Truck Arrives for soil Removal. Crew begins excavation. PID's and Dustrak Readings Do not show levels of concern. 0905 - work is halted 1200 - Second truck Arrives for Soil Removal and excavation begins. 1220 - Truck leaves with soil 1300 crew begins cleanup

Working In Grid #: (2)

Samples Collected (Since Last Report):

No Samples were collected today

Air Monitoring (Since Last Report):

Dustrak II Serial number ~~822 98~~ 8530133020 (MR) (Downwind) Mini Rae 3000 SN 8530111903

Dustrak II serial number (Upwind) MultiRae SN 095-526520

Problems Encountered:

No Problems were encountered

Planned Activities for the Next Day/ Week:

Planned activities for Monday include continuation of soil Removal and filling in of Grid 1 area. Backfilling of grid 1 is dependent upon Soilsample Results from samples taken on 1/8/15.

Facility # Name/ Location Type of Waste Solid Or Liquid	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid		NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid		NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid		NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid		####### Clean Earth Carteret, NJ petroleum soils Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks and Plate No.	Cu. Yds.	Trucks and Plate No.	Cu. Yds.	Trucks and Plate No.	Cu. Yds.	Trucks and Plate No.	Cu. Yds.	Trucks	Cu. Yds.
Today	1 NY 36590ME	25	2 36590ME	25					5	120
Total		25		25					25	600

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A			
Tracking No.:	N/A				
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.

Site Grid Map

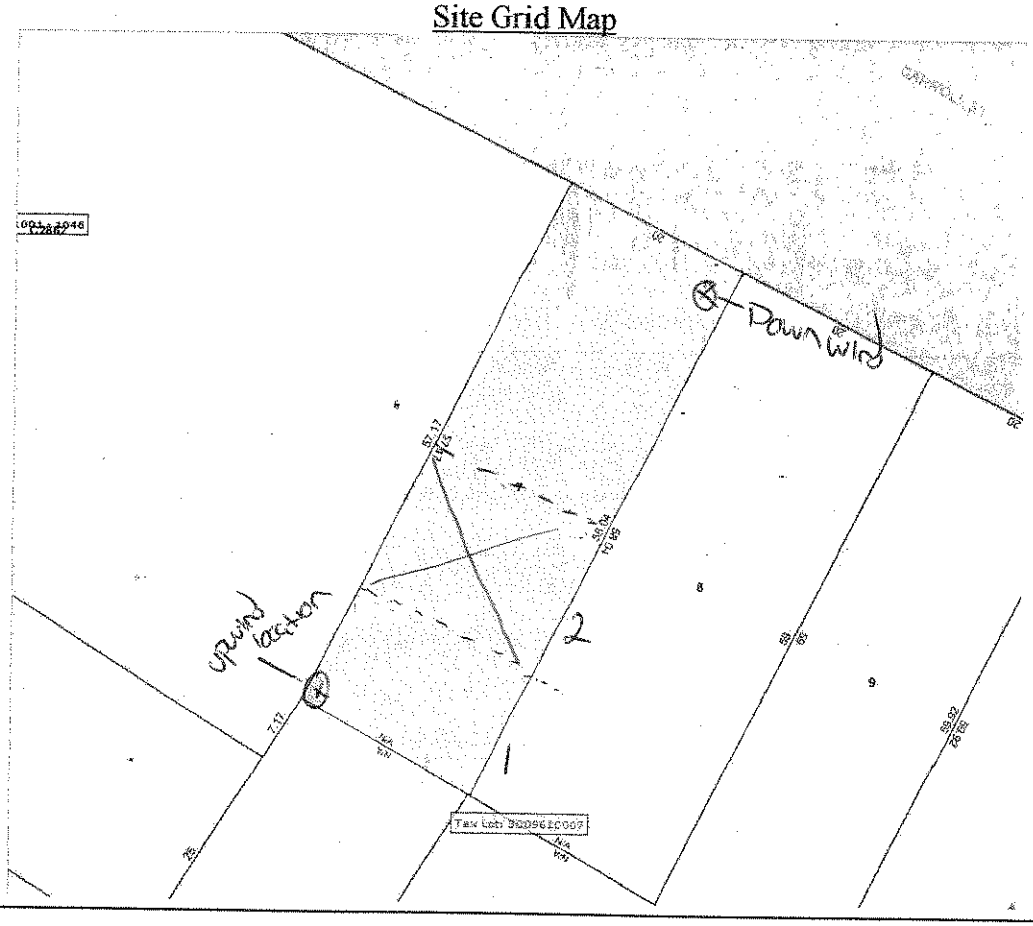


Photo Log

Photo 1 – Posted signage for the project on the boarded fence in the front at the site.	
Photo 2 – Excavated area in the rear section of the site (facing south). Note: One of the two dust monitors (Dust Trak2 Desktop Monitor 8530) is located at the upwind location on the southwest corner of the site (top right corner of the picture).	

Photo 3 – The second dust monitor at the downwind location on northeast corner of the site.	
Photo 4 – Excavation area in the center portion of the site (facing north).	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/12/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report): 0715: Arrive on site and meet with Jaime Tapia to Discuss Scope of work for today. 0725- Begin calibrating Air Monitoring equipment. 0735 Begin recording 15min Average (0.0ppm) of upwind location. 0750 Truck arrives for first load (NY 20502PB) ~~0810~~ and excavation begins. All meters are recording and funtioning Properly. 0810 First truckload finish and crew clears the tailgate of truck. 0815 - Truck exits worksite. Weather condition change from Cloudy to Rain. work is haulted. ~~0810~~ 1145 - Truck returns (NY20502PB) to collect Second load. Scale ticket collected from first load showing a Total of 25 yrds with a weight of 22.80 tons. 1155 - Excavation begins and Second truckload is being filled. 1215 - Truck exits site. Crew begins cleanup. 1245 All work haulted Airtek and NYCC Construction exit site.

Working In Grid #: (2 + 3)

Samples Collected (Since Last Report): No Samples were collected.

Air Monitoring (Since Last Report): PID's and Dustrak II

Upwind: PID 15min Avg = 0.0ppm. Dustrak max - 0.262 mg/m3 (min) - 0.030 mg/m3 AVG - 0.047 mg/m3 TWA - 0.03 mg/m3

Downwind: PID Max 0.3 ppm Avg = 0.006ppm Dustrak Min 0.032 mg/m3 ~~Avg~~ (max) - 0.152 mg/m3 AVG - 0.53 mg/m3 TWA - 0.037 mg/m3

Problems Encountered:

No Problems encountered.

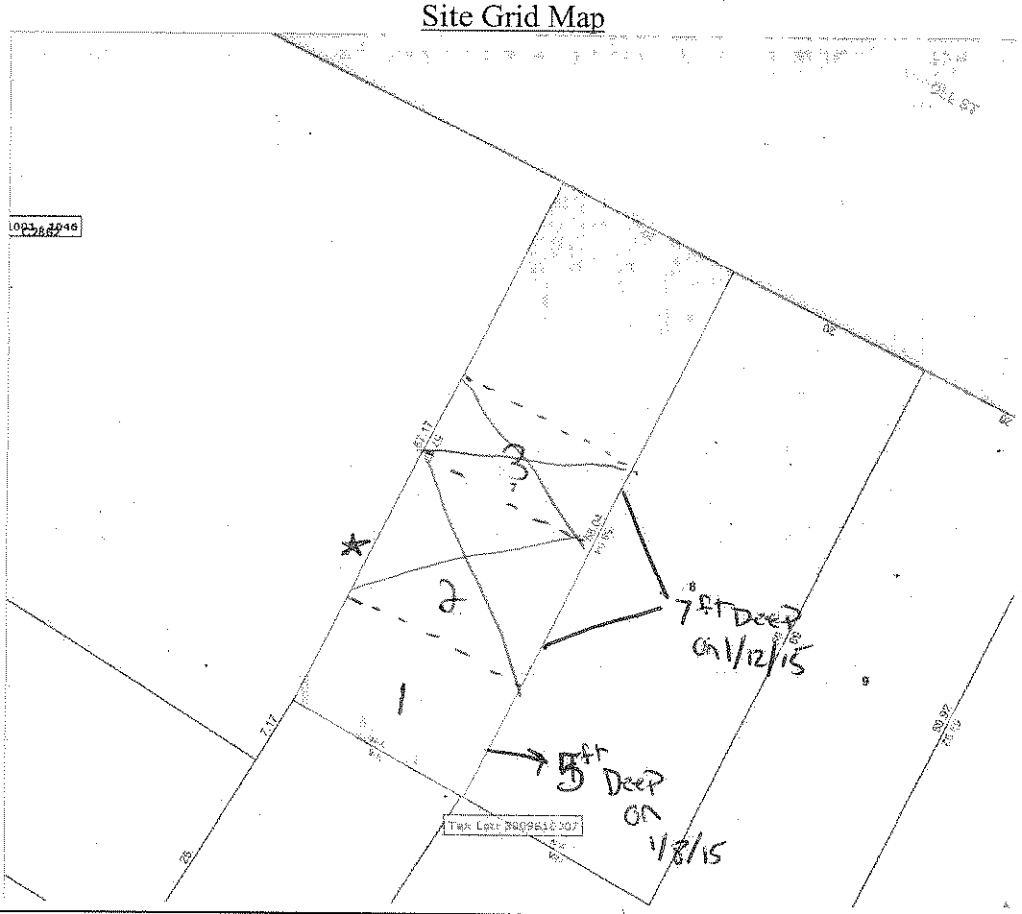
Planned Activities for the Next Day/ Week:

Two trucks loads for removal of contaminated soil and two truck loads will be bringing clean soil to backfill grid 1.

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	2	50
Total	6	~~300~~ (MW) 150

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A			
Tracking No.:	N/A				
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.

Site Grid Map



*Grid 2 was excavated Down to 5ft on 1/9/15

Photo Log

Photo 1 – View of the Site at the beginning of work on 1/12/15 (facing south).	
Photo 2 – View of the excavation area (Grid 2 and Grid 3) at the Site at the end of work on 1/12/15 (facing north)	

Photo 3 – View of the upwind dust monitor (Dust Trak2 Desktop Monitor 8530) on the southwest corner of the Site.	
Photo 4 – View of the downwind dust monitor (Dust Trak2 Desktop Monitor 8530) on the northeast corner of the Site.	

Photo 5 – View of worker cleaning the truck before leaving the Site.	
Photo 6 – View of worker cleaning the sidewalk near the entrance to the Site.	

Photo 7 – View of posted construction info. and permit on the boarded fence at the Site.	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	(<32)		32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/13/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report): 0715 - Arrive onsite and meet with Jaime Tapia to discuss scope of work 0730: Begin calibration of PID's and DusTrak II's 0745: Begin 15min Avg of upwind location (0.0 ppm VOCs) 0755 Truck arrives onsite (NY 36590 ME) 0800: Excavation continues Toward north side of lot 0815: Excavation ceases, Truck exits site. 0820 crew begins moving wooden planks and digging materials to make room for excavation/backfill 0940: crew Haults work 1005: First truck load with backfill (clean soil) arrives To drop off load 1010: Truck exits site after dumping clean soil. Backfill is showing zero PID readings and is free of solid waste 1015 Crew begins backfilling rear (south) section. 1030 work haulted. 1125 NY36590ME arrives for second truckload of contaminated 1130 excavation resumes 1145 Excavation ends and Truck exits site after tailgate is cleaned. 1200 work haulted 1410 second truckload with clean soil arrives. PID shows zero readings and soil is free of solid waste 1520 backfill ends crew begins clean 1530 Airtek and NYCC construction exits site.

Working In Grid #: (1, 2, 3, 4)

Samples Collected (Since Last Report):
NO samples collected

Air Monitoring (Since Last Report): PID and Dustrak II
Upwind - PID 15min Avg. = 0.0 ppm, Dustrack Min: 0.011 mg/m3 max: ~~0.010~~ 0.159 Avg 0.020 mg/m3 TWA ~~0.024 mg/m3~~ 0.019 mg/m3
Downwind PID max 0.4 ppm Avg 0.002 ppm Dustrak min 0.014 mg/m3 max 0.188 mg/m3 Avg: 0.026 mg/m3 TWA ~~0.024 mg/m3~~ 0.024 mg/m3

Problems Encountered:
NO Problems Encountered

Planned Activities for the Next Day/ Week:
Two Trucks for hauling excavated soil and one Truck load for backfilling with clean soil.

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	2	50
Total	8	~~350~~ MR 200

Clean Soil from Stony Creek Services 4001 Daly Blvd., Oceanside, NY 11572 Transaction Receipt Nos.: 92584, 92600		Receiving Facility: 566 Carroll Street, Brooklyn, NY		
Today	Trucks 2	Cu. Yds. 36	Total Trucks: 2	Total Cu. Yds. 36

Site Grid Map

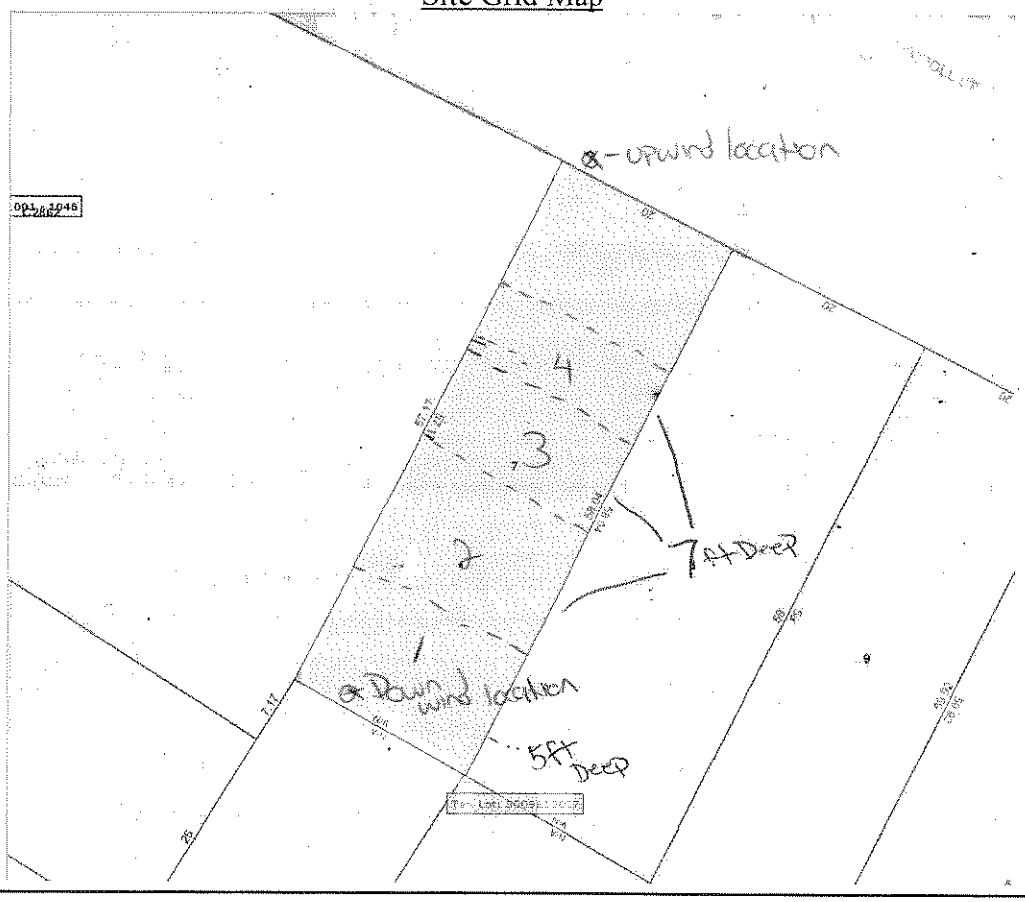


Photo Log

Photo 1 – View of the upwind dust monitor (Dust Trak2 Desktop Monitor 8530) near the site entrance on the sidewalk (facing southeast).	
Photo 2 – View of the downwind dust monitor (Dust Trak2 Desktop Monitor 8530) in the southwest corner at the Site (facing southwest).	

Photo 3 – View of the excavation area (Grid 3 and Grid 4) at the Site (facing north).	
Photo 4 – View of disposal truck leaving the Site.	

Photo 5 – View of worker cleaning the sidewalk after the departure of the disposal truck.	
Photo 6 – View of PID reading of the imported clean soil for backfill of the rear section of the Site.	

Photo 7 – Close view of the imported clean soil for backfill of the rear section of the Site.	
Photo 8 – View of imported clean soil being backfilled to the rear section of the Site.	

Photo 9 – View of the Site at the end of the day. Imported clean soil in the rear section and excavated soil in the front section (facing south).	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/14/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report): 0715 Arrive on site and meet w Jaime Tapia to discuss scope of work. 0730: Begin calibration of PID's and Dustrak II 0745: Begin running 15 minute Avg of upwind VOCs (0.0) ppm 0850 First Truck arrives (NY 36590 ME) with 18 yards of clean soil 0900 crew begins backfill of grid 1 0915 crew begin excavation of grid 2, 3, and 4 and loads contaminated soil onto NY 36590 ME 0930 Truck exits site and work is haulted. 1200: NY36590 arrives on site to take another load and excavation begins. 1225 Truck exits site and crew begins cleanup. 1300 Airtek and NYCC constructor Exit.

Working In Grid #: (1, 2, 3, 4

Samples Collected (Since Last Report): No samples collected

Air Monitoring (Since Last Report): PID and Dustrak II
Upwind: PID 15 min. Avg = 0.0 ppm. Dustrak min: 0.021 mg/m³ max: 0.146 mg/m³ Avg 0.033 mg/m3 TWA 0.019 mg/m3
Downwind: PID max 1.377 ppm Avg 0.035 Dustrak min 0.025 mg/m³ max: 0.260 mg/m³ Avg: 0.041 mg/m3 TWA 0.024 mg/m3

Problems Encountered: No problems encounted

Planned Activities for the Next Day/ Week:
Two more truckloads of excavated soil from the front section.

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	2	50
Total	~~8~~ 10 (AW)	250

Clean Soil from Stony Creek Services 4001 Daly Blvd., Oceanside, NY 11572 Transaction Receipt Nos.: N/A ~~92584, 92600~~ (AW)		Receiving Facility: 566 Carroll Street, Brooklyn, NY		
Today	Trucks 1	Cu. Yds. 18	Total Trucks: 3	Total Cu. Yds. 54

Site Grid Map

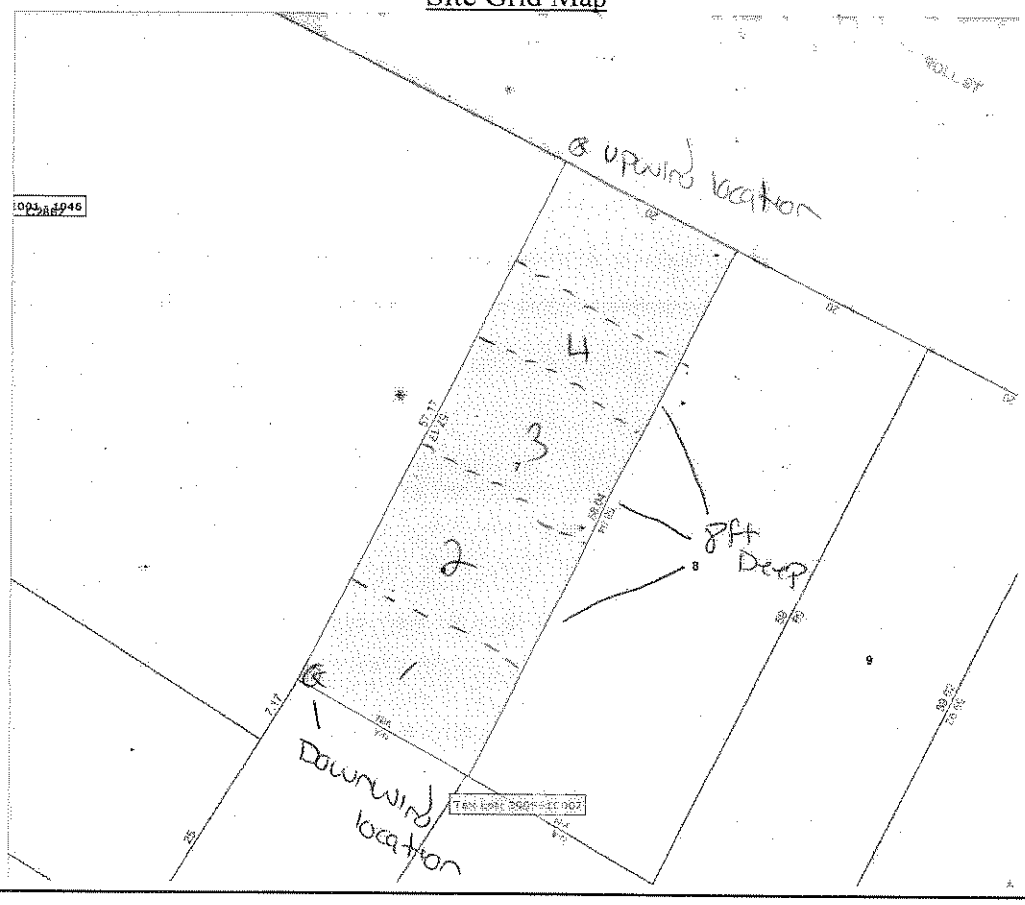


Photo Log

Photo 1 – View of the upwind dust monitor (Dust Trak2 Desktop Monitor 8530) near the site entrance on the sidewalk (facing southeast).	
Photo 2 – View of the Site at the start of the work for the day on 1/14/15. Downwind dust monitor (Dust Trak2 Desktop Monitor 8530) was in the southwest corner at the Site (facing south).	

Photo 3 – Close view of the imported clean soil for backfill of the rear section of the Site.	
Photo 4 – View of PID reading of the imported clean soil for backfill of the rear section of the Site.	

Photo 5 – View of worker cleaning the sidewalk after the departure of the disposal truck.	
Photo 6 – View of the excavation area (Grid 2 to Grid 4) at the Site (facing south).	

Photo 7 – View of the excavated soil in Grid 4 section at the Site (facing north).	
Photo 8 – View of the Site at the end of the work for the day (facing south).	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	<32		32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/15/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report): 0715 Arrive on site and meet with Jaime Tapia to discuss scope of work 0730 Begin calibration of PID's and Dustrack II's 0745 Begin running 15 minute average of upwind vac's (0.0ppm) 0800 First truck (NY36590ME) arrives on site and excavation begins 0815 Truck exits site with 25 cubic yards of contaminated soil. 0820 crew begins moving wood and steel pipes to ~~nor~~ south end of lot (grid 1). 0930 Soil Invasive work picks ups to distribute soil/grade to make room and allow access 0945 work Hours 1210 (NY36590ME) arrives for 2nd load and excavation begins. dust is at minimum. 1225 Truck exits site with contaminated soil (25 cubic yards). John Bouratoglou (Architect) stops by for quick site visit. 1235 crew begins cleanup 1250 - site is secure. Airtek and NYCC construction Exit site.

Working In Grid #: (3,4,5)

Samples Collected (Since Last Report):

No samples

Air Monitoring (Since Last Report): PID (ppm) and Dustrak II monitoring (mg/m3)

Upwind: PID 15 min Avg = 0.0ppm. Dustrak min: 0.036 Max: 0.098 Avg 0.041 mg/m3 TWA 0.026

Downwind: PID max 1.566 Avg 0.026 Dustrak min: 0.00 Max 0.733 Avg 0.061 TWA 0.046

Problems Encountered:

Downwind Dustrak II experienced a spike around 1115 am due to sawdust. NYCC construction was cutting wooden planks and no soil was disturbed at this time.

Planned Activities for the Next Day/ Week:

Cutting and welding of steel beams for shoring / Raking

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	2	50
Total	12	300

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A			
Tracking No.:	N/A				
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.

Site Grid Map

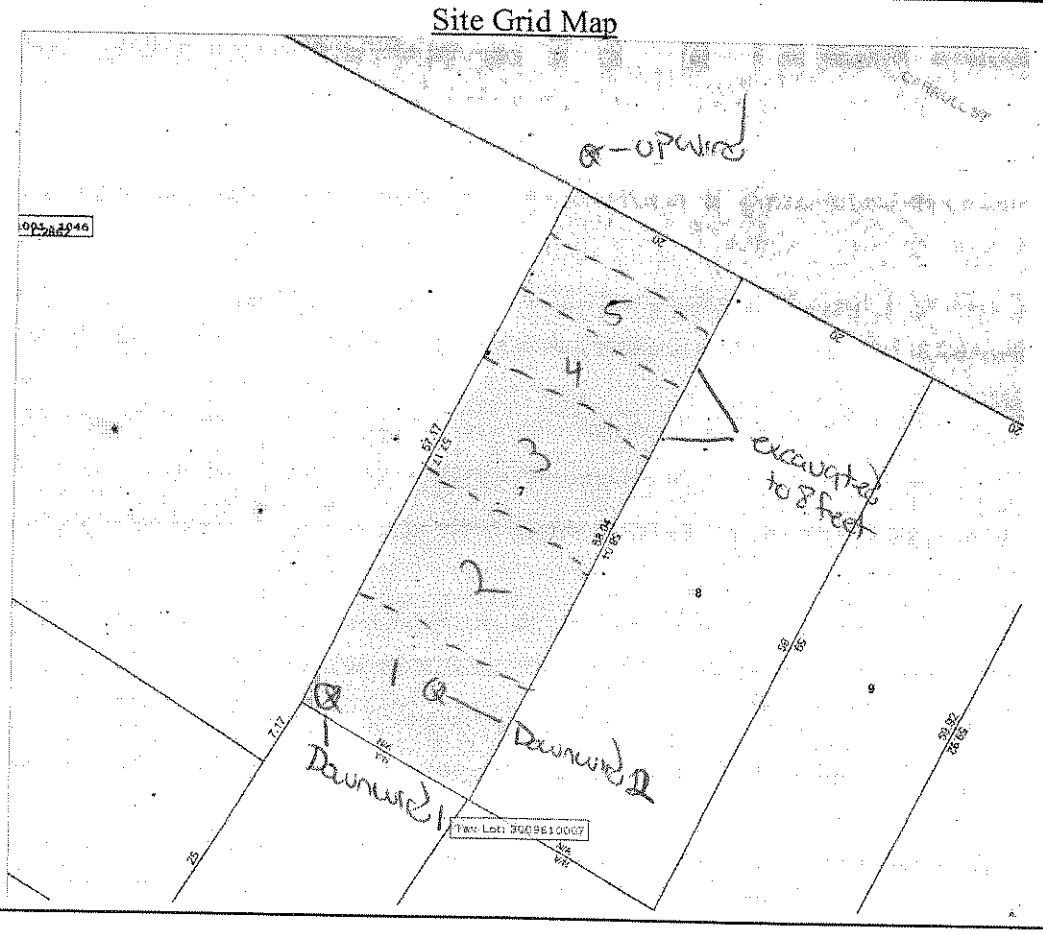


Photo Log

Photo 1 – View of the excavation in action at the Site (Grid 2 to Grid 5) (facing north).	
Photo 2 – View of the upwind dust monitor (Dust Trak2 Desktop Monitor 8530) near the site entrance on the sidewalk (facing southeast).	

Photo 3 – View of the Site (Grid 1 to Grid 5). Downwind dust monitor (Dust Trak2 Desktop Monitor 8530) was on the southwest corner at the Site (facing south).	
Photo 4 – View of the excavation area (Grid 2 to Grid 5) at the Site. Downwind dust monitor (Dust Trak2 Desktop Monitor 8530) was in Grid 1 area (facing south).	

Photo 5 – View of excavated soil being loaded to the disposal truck outside the entrance to the Site.	
Photo 6 – View of the Site at the end of work for the day on 1/15/15.	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/16/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report): 0730 Arrive on Site and meet with Jaime Tapia to discuss scope of work. 0745 Begin calibration of PIDs and Dustrack II's. 0800 Begin 15 min Average of upwind PID 0.0 ppm. 0815 crew Begins Invasive work of contaminated soil. work consists of moving contaminated soil from Grid 6 Towards the south, but only affecting grid 5 and 4. 0840 Invasive work stops and crew begins cutting steel ~~beam~~ and welding steel beams in preparation for shoring and Raking 1045 Invasive work is started again to make room. 1100 crew has finished welding but Invasive work continues (moving of contaminated soil Back to grid 6). Johnathan Chen (General contractor) Arrives on site to take some photos. 1130 - crew begins cleanup. 1200 Airtek and NYCC construction Exit site.

Working In Grid #: (3, 4, 5, and 6)

Samples Collected (Since Last Report):

No Samples collected

Air Monitoring (Since Last Report): PID and Dustrack monitoring (mg/m3)
upwind PID 15 min Avg ~ 0.0 ppm Dustrak min 0.057 Max 0.177 Avg 0.072 TWA 0.029
Downwind PID Max 0.735 ppm Avg = ~~0.8~~ 0.0858 Dustrack min 0.069 max 0.168 Avg 0.087 TWA 0.03

Problems Encountered:

No Problem encountered

Planned Activities for the Next Day/ Week:

Continue excavation of northside of lot.

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	N/A	N/A
Total	12	300

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A			
Tracking No.:	N/A				
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.

Site Grid Map

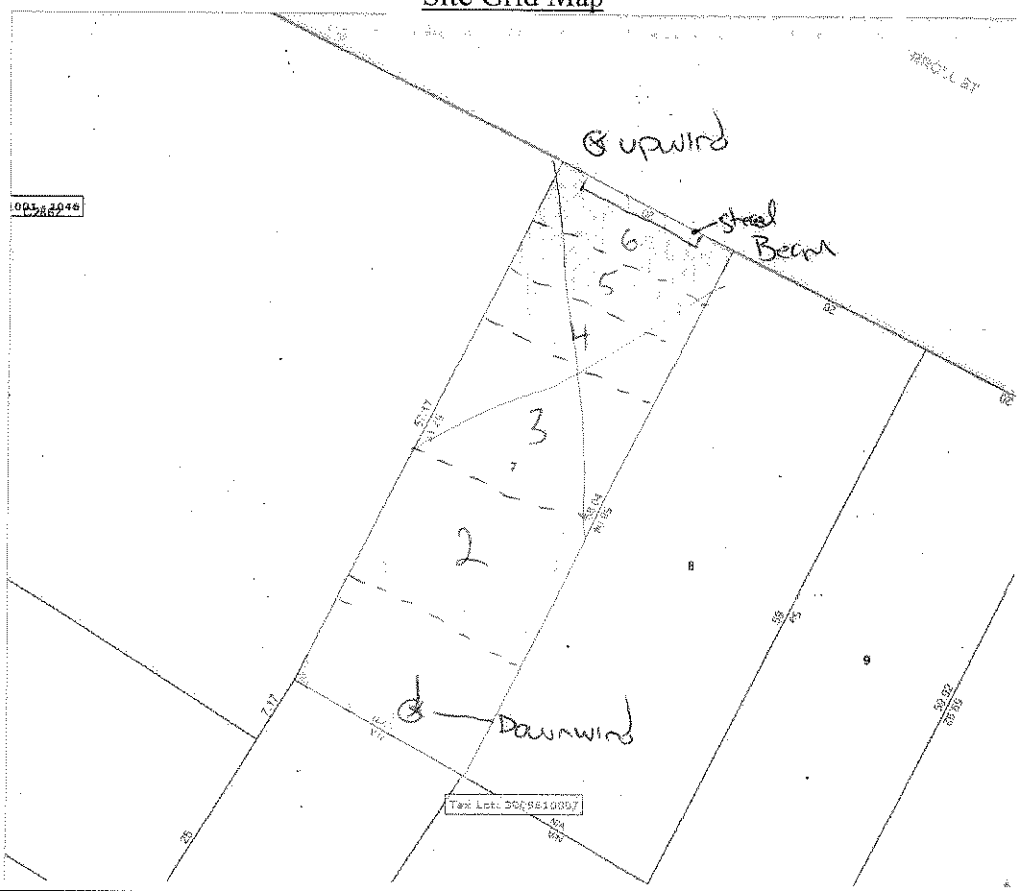


Photo Log

Photo 1 – View of worker cutting and welding steel beams in preparation for shoring and raking the Site (facing south).	
Photo 2 – Close view of worker cutting and welding steel beams in preparation for shoring and raking the Site.	

Photo 3 – View of steel beams being moved to the rear area of the Site (facing south).	
Photo 4 – View of downwind dust monitor (Dust Trak2 Desktop Monitor 8530) in Grid 1 area at the Site (facing south).	

Photo 5 – View of the Site being graded in the area of Grid 2- Grid 6 (facing south).	
Photo 6 – View of the Site being graded in the area of Grid 2- Grid 6 (facing north).	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/20/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report): 0715 arrive on site and meet with Jaime Tapia to discuss scope of work. 0730: Begin calibration of PIDs and Dustrack IIs. 0740 Begin 15 min Avg of PID readings (0.0ppm upwind). 0800: Crew begins mobilizing and cutting wood to create a ladder. Sawdust causes Dustracks to have high readings. 0850 steel Beam Delivery arrives. crew begins moving Beam into pit. 0900 crew works on moving materials/ steel Beams to make Room for Installation of Rakers. 1200 hvac line work begins. Crew is moving soil in grid 6, 5, 4 to create space for installing Rakers. 1200 - fire Department stopped by to take a look and left after 5 minutes. 1210 Building Mentors Ronald Matela and Jon Silvero arrive on site to check vibration monitors. 1300 Break for lunch. 1400 Building Monitors (Quality control labs) install Tape to monitor cracks. 1600: Site secure & all personel Exit site.

Working In Grid #: (2 - 6)

Samples Collected (Since Last Report):
No samples collected ~~0013 Ag~~

Air Monitoring (Since Last Report):
upwind 15 min Avg - 0.0ppm Dustrack (ug/m3) min 0.013 Max 0.895 Avg 0.023 TWA 0.00
Downwind Avg 0.85 Max 7.37 (2 cycle exhaust) Dustrack min 0.015 Max 2.30 Avg 0.052 TWA 0.052

Problems Encountered:
while crew was cutting wood planks, Dustrack II Readings would spike. Also machinery used to cut wood was a 2 cycle saw which would cause spikes in PID readings.

Planned Activities for the Next Day/ Week:
install steel Beams in to place and fill wood boxes with concrete.

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	NA	NA
Total	12	300

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A			
Tracking No.:	N/A				
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.

Site Grid Map

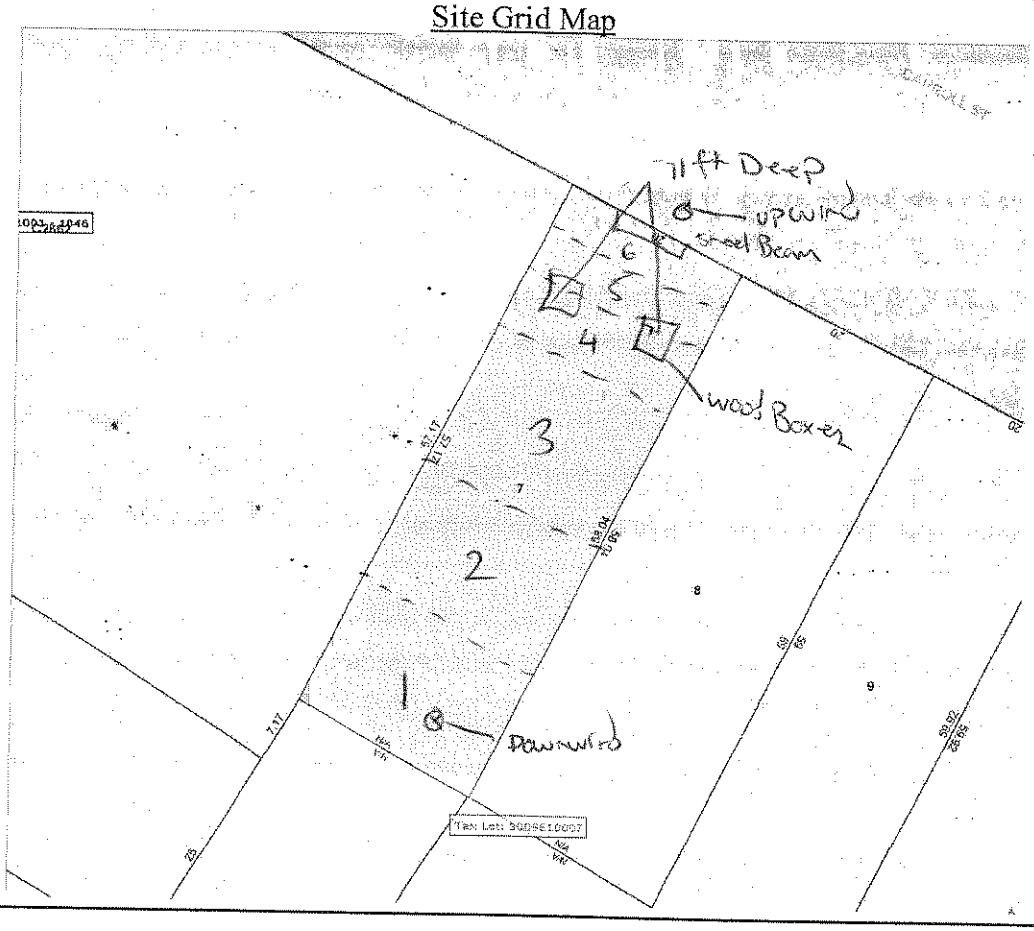


Photo Log

Photo 1 – View of the Site at the start of workday on 1/20/15. Downwind dust monitor (Dust Trak2 Desktop Monitor 8530) is in Grid 1 area at the Site (facing south).	
Photo 2 – View of upwind dust monitor (Dust Trak2 Desktop Monitor 8530) at the entrance to the Site on sidewalk (facing east).	

Photo 3 – View of workers making a ladder at the Site in preparation for accessing the excavation pit.	
Photo 4 – View of a vibration monitor attached on the wall of the west adjoining building by Quality Control Lab to check vibration levels of the adjoining property.	

Photo 5 – View of worker measuring the depth of excavation at the Site to prepare for installation of the raking boxes (facing south).	
Photo 6 – View of steel beam installed on the north end of the excavation pit at the Site (facing north).	

Photo 7 – View of existing crack being monitored by Quality Control Lab on the east adjoining building.	
Photo 8 – View of the Site at the end of work for the day on 1/20/15. (Note: Two wood boxes were installed on the north end of the Site which will be filled with concrete for raking boxes.	

DAILY STATUS REPORT

Prepared By: Micheel Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/21/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report):

0800 - Arrive on site and meet with Jaime Tapia to Discuss scope of work. Begin calibration of PIDs and Dustrak II's. 0815 - Begin 15 min Avg of PID readings (0.0ppm). Crew Begins working on placement of steel Beams for Racking. 0930 - Some invasive work begins during placement of steel Beams. 0950 - Invasive work ceases. Crew works on cutting/welding steel Beams into place. 1020 smoke created during welding causes Dustrak II to spike (Downwind) 1050 ~~work~~ MD welding is finished, Raking is secure. work ceases until cement Delivery Arrives. 1220. General contractor Daniel Theo and Architect John Bouratoglou arrive on site for meeting / site visit 1345 - Cement Truck arrives onsite 1410; wooden Boxes are filled with cement. Truck Exits site. 1430 site secured. out of site.

Working In Grid #: (6, 5, 4)

Samples Collected (Since Last Report):

No Samples collected

~~Air Monitoring (Since Last Report):~~ MD Problems encountered

smoke from welding caused Dustrak II (Downwind) to spike.

~~Problems Encountered:~~ MD Air monitoring; PID and Dustrak II

Upwind: 15 min avg 0.0ppm. Dustrak II min 0.0008 mg/m3 max 0.657 mg/m3 Avg 0.025 mg/m3 TWA 0.021 mg/m3

Downwind PID max 0.663 ppm AVG 0.673 ppm Dustrak min 0.00 max 3.61 mg/m3 Avg 0.098 mg/m3 TWA 0.088 mg/m3

Planned Activities for the Next Day/ Week:

excavate 2 truck loads. (50 cuyd)

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	N/A	N/A
Total	12	300

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A			
Tracking No.:	N/A				
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.

Site Grid Map

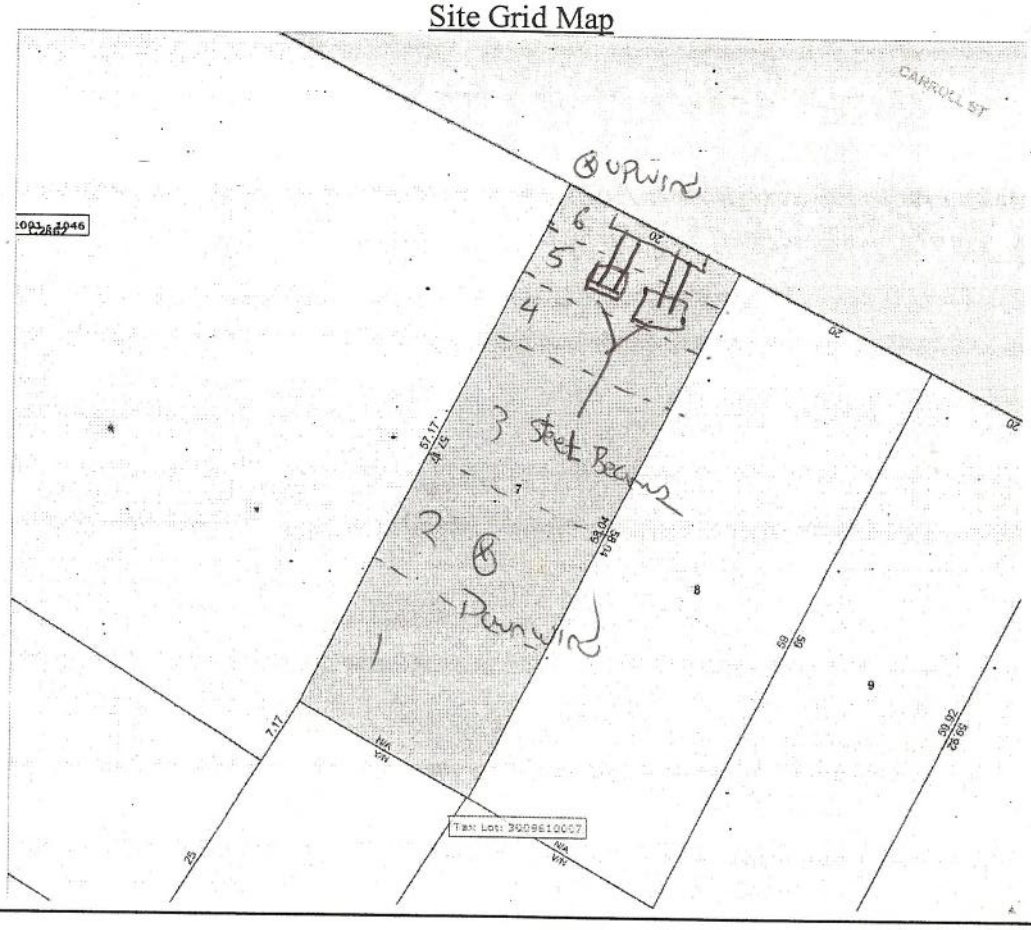


Photo Log

Photo 1 – View of upwind dust monitor (Dust Trak2 Desktop Monitor 8530) at the entrance to the Site on sidewalk.	
Photo 2 – View of steel beams for raking columns at the Site.	

Photo 3 – View of cement mixer truck outside the entrance to the Site.	
Photo 4 – View of worker cleaning the sidewalk near the entrance to the Site after departure of the cement mixer truck.	

Photo 5 – View of Site at the end of work day on 1/21/15.	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/22/14
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant:	Safety Officer:
Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report):
0800 Arrive or site and meet with Jaime Tapia to Discuss Scope of work. 0815 - Begin calibration of PID and Dustrack II's 0855 crew start invasive work or contaminated soil by moves soil back of grid 6,5 and foor. 1000 - same activity 1100 - same activity. 1130 Break for lunch - 1230 crew is waiting for surveyors to arrive to make markings. 1315 surveyors never arrive and crew secures site. Airtek and NYCC construction Exit to site.

Working In Grid #: (2-6)

Samples Collected (Since Last Report):
No Samples collected

Air Monitoring (Since Last Report): PID and Dustrak II's (mg/m3)
Upwind 15 min Avg 0.0 ppm Dustrack min 0.00 Max 0.089 Avg 0.048 Twa 0.033
Downwind Dustrak min: 0.035 Max 0.530 Avg 0.067 Twa 0.084

Problems Encountered:
No problems encountered.

Planned Activities for the Next Day/ Week:
excavate 2 truck loads (50 cu. yds)

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	N/A	N/A
Total	12	300

Clean Soil from Stonycreek Services 4001 Daly Blvd., Oceanside, NY 11572 Transaction Receipt Nos.: 92584, 92600		Receiving Facility: 566 Carroll Street, Brooklyn, NY		
Today	Trucks	Cu. Yds.	Total Trucks:	Total Cu. Yds.

Site Grid Map

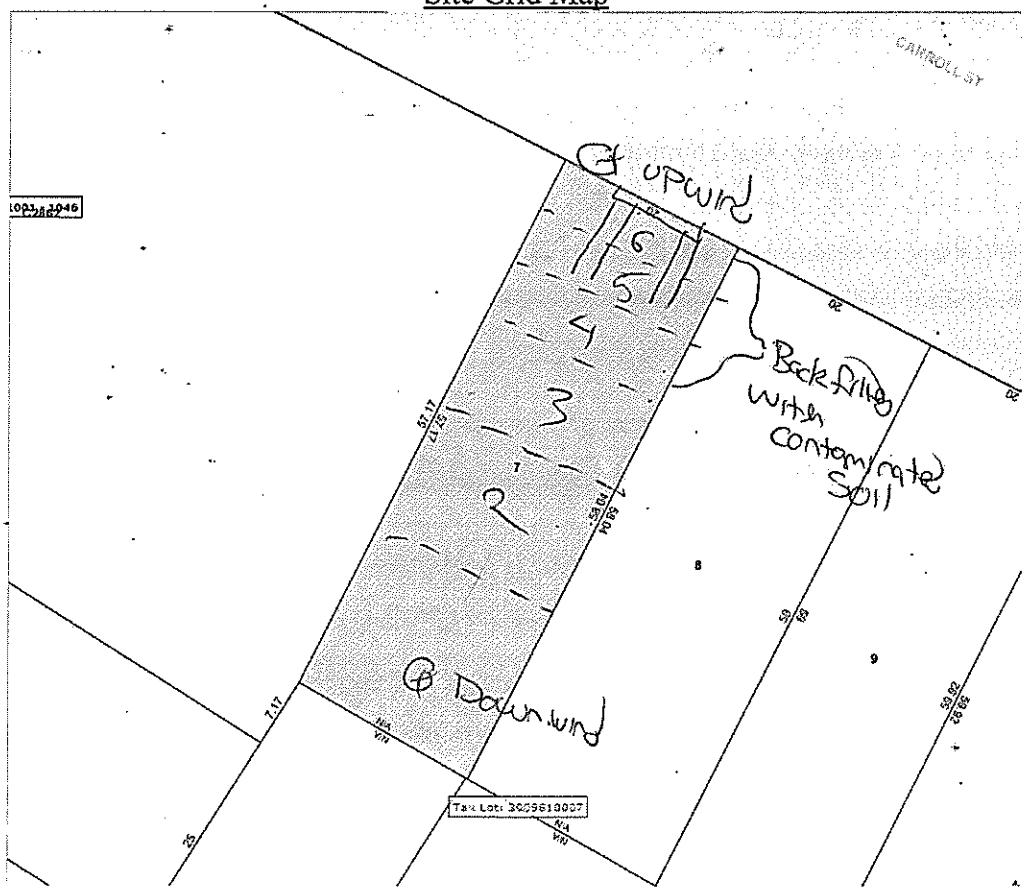


Photo Log

Photo 1 – View of the Site being graded in Grid 5 and Grid 6 areas (facing north).	
Photo 2 – View of the Site at the end of the work day (facing north).	

Photo 3 – View of downwind dust monitor (Dust Trak2 Desktop Monitor 8530) in Grid 1 area at the Site (facing south).	
Photo 4 – View of upwind dust monitor (Dust Trak2 Desktop Monitor 8530) on the sidewalk near the entrance to the Site (facing east).	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/23/2015
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report):

0715: Arrive on site and meet with Jaime Tapia to discuss scope of work. Begin calibration of PIDs and Dustrak IIs.
0745: Conduct 15 min average of upwind PID readings.
0800: First truck arrives (NY 36590 ME) to load excavated soil and invasive work begins. Excavation work is in grid 2, 3, and 4.
0830: Truck exits site with 25 cu. yds. of contaminated soil. Crew continues working on getting soil ready for the next truckload.
1000: Work is halted.
1150: NY 36590 ME returns on site for next truckload and work begins.
1215: Truck exits site with 25 cu. yds. of contaminated soil. Crew begins cleanup.
1300: Site is secure and NYCC Construction and Airtek exit the worksite.

Working In Grid #: (2, 3, & 4)

Samples Collected (Since Last Report):
No samples were collected.

Air Monitoring (Since Last Report):

PID and Dustrak II monitoring.

Upwind: Min- 0.00 mg/m3 Max- 0.285mg/m3 Avg-0.062 mg/m3
Downwind: Min- 0.00 mg/m3 Max- 0.174 mg/m3 Avg- 0.070 mg/m3

Problems Encountered:

No problems were encountered.

Planned Activities for the Next Day/ Week:

Continuing excavation of contaminated soil.

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	2	50
Total	14	350

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A		
Tracking No.:	N/A			
Today	Trucks	Cu. Yds.	Total Trucks:	Total Cu. Yds.

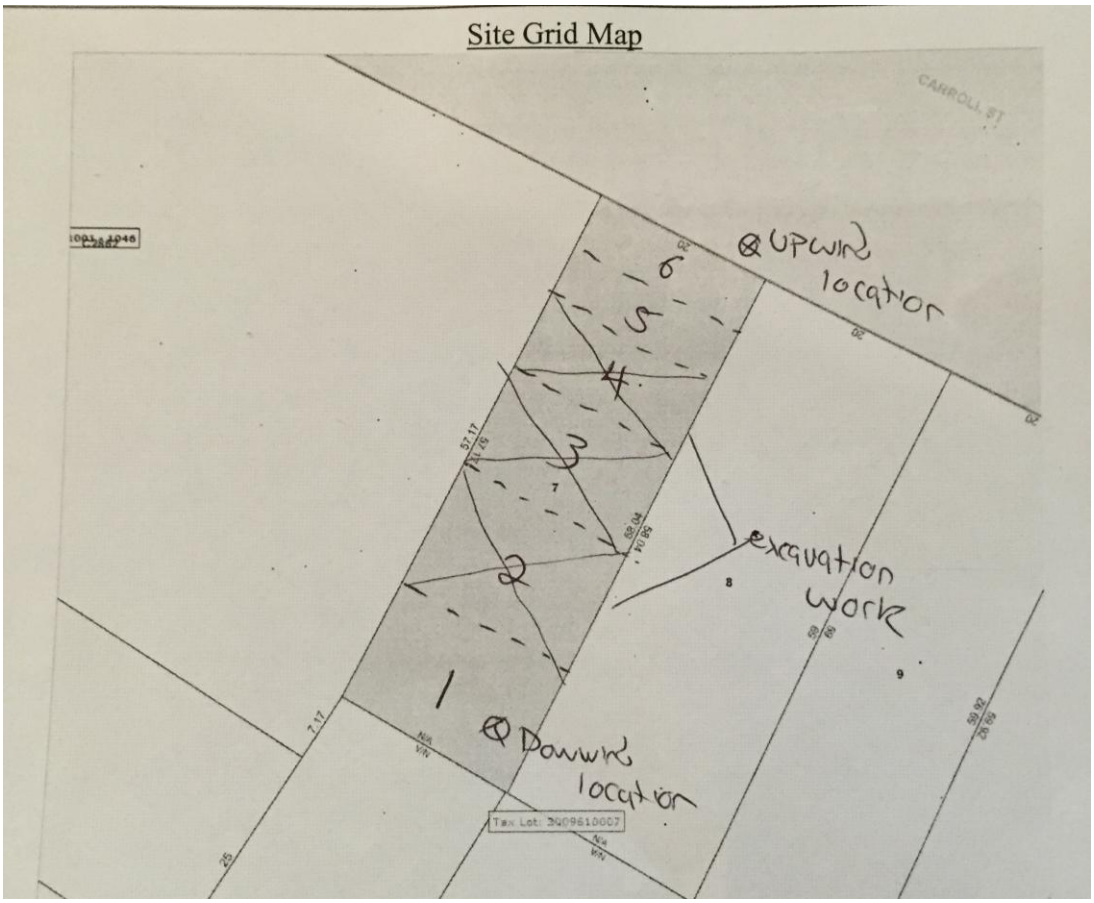


Photo Log

Photo 1 – View of upwind dust monitor (Dust Trak2 Desktop Monitor 8530) in the northeast corner of the jobsite (facing west).	
Photo 2 – View of jobsite before work is started (facing southwest).	

Photo 3 – View of jobsite after excavation is completed for the day (facing north).	
Photo 4 – View of worker cleaning sidewalk after last truckload has exited jobsite (facing west).	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	1/4/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report):

0800 - Arrive on site and meet with Jaime Tapia of NYCC Construction. Begin setup/calibration. 0815 - start 15min Avg. (0.0ppm). 0830 Begin Running Dustrak II's Crew is setting up worksite and preparing to install bracing between Buildings. 0920 limited invasive work begins to clear area involved in bracing. 0925 - Invasive work over. Crew begins installation of bracing between buildings. 1020 limited invasive work begins. 1025 invasive work haulted. Crew continues prepping well for second set of bracing. 1105. limited invasive work to make room for bracing. 1115 invasive work Haulted. Crew continues prepping. 1130 - Break for lunch. 1200 work resumes. Same activity. Crew is installing second set of bracing. 1330 work haulted. Crew begins cleanup. 1400 - site secure. Exit site -

Working In Grid #: (2 + 3)

Samples Collected (Since Last Report):

No samples collected

Air Monitoring (Since Last Report): PID and Dustrak II Monitoring (mg/m3)

Upwind location: 15 min Avg: 0.0ppm (ppm) Dustrak MIN 0.022 MAX 0.079 AVG 0.037 TWA 0.023

Down wind: PID MAX: 1.009 AVG 0.016 ppm Dustrak MIN 0.000 MAX 0.163 AVG 0.041 TWA 0.027

Problems Encountered:

No Problems were encountered.

Planned Activities for the Next Day/ Week:

Continue excavation of contaminated soil. (4 truckloads).

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	0	0
Total	14	350

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A			
Tracking No.:	N/A				
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.

Site Grid Map

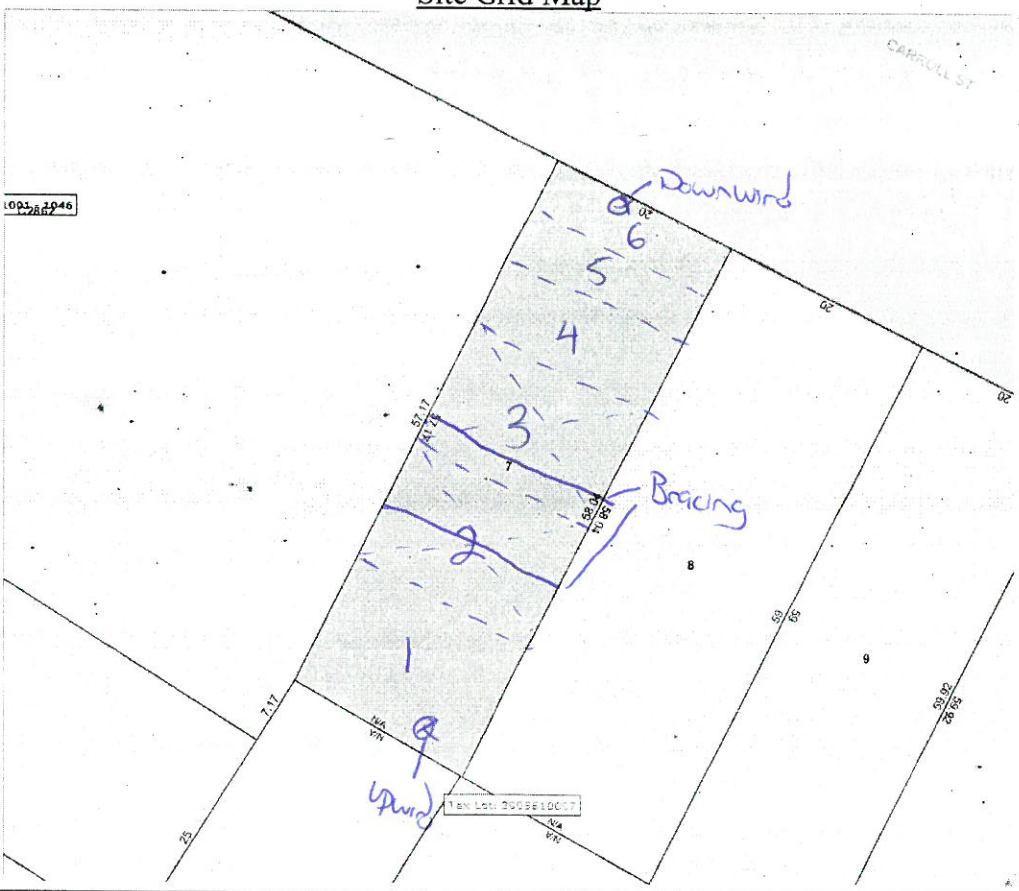


Photo Log

Photo 1 – View of downwind dust monitor (Dust Trak2 Desktop Monitor 8530) in Grid 6 area at the Site (facing east).	
Photo 2 – View of the Site at the start of the work day (facing south).	

Photo 3 – View of workers bracing the Site in Grid 2 to Grid 3 areas at the Site (facing north).	
Photo 4 – View of the Site at the end of the work day (facing north).	

DAILY STATUS REPORT

Prepared By: Michael Rivera

Heavy Wind

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32	X	32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	2/5/15
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report):

0730 - Arrive on site and meet with Jaime Tapia. Begin setup/calibration of meters. 0755 Begin 15 min Avg of upwind location. 0800 2 Trucks Arrive NY36590ME and NY20502PB. 0815 Excavation Begins. 0830 NY36590ME Exits site and Excavation resumes. 0850 NY20502PB Exits site. Crew begins installing third set of bracing. 0925 will of NYCC construction Arrives with Delivery of wooden planks. Crew continues installing bracing. 1100 Bracing is complete. work is haulted. 1130 Quality control labs is onsite to monitor/check vibration monitors on both buildings. 1215 Quality control labs Exits site. 1230 NY36590ME is onsite and excavation resumes. 1250 NY36590ME Exits site and NY20502PB is onsite 1310 - NY20502PB exits site. 1320 Invasive work is haulted. Crew is installing 4th set of Bracing. 1400 site secure. Exit site.

Working In Grid #: (3 and 4)

Samples Collected (Since Last Report):

No samples collected

Air Monitoring (Since Last Report): PID (ppm) and Dustrak II (mg/m3)

Upwind: 15 min Avg 0.0 ppm Dustrak: Min 0.000 Max 0.032 Avg 0.015 TWA 0.012

Downwind Max 0.335 Avg 0.08 Dustrak Min 0.00 Max 0.167 Avg 0.027 TWA 0.022

Problems Encountered:

No problems encountered.

Planned Activities for the Next Day/ Week:

Finish excavation and collect end point samples

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	4	100
Total	18	450

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A			
Tracking No.:	N/A				
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.

Site Grid Map

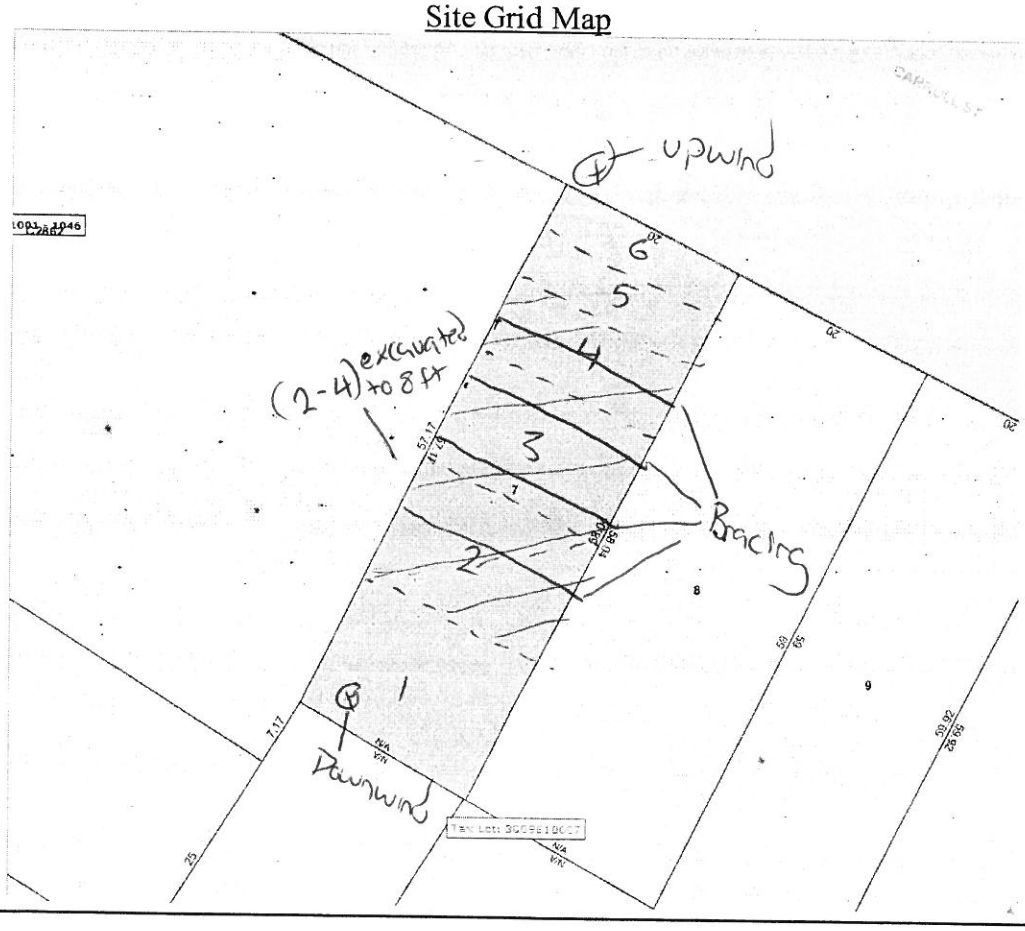


Photo Log

Photo 1 – View of downwind dust monitor (Dust Trak2 Desktop Monitor 8530) in the southwest corner in Grid 1 area at the Site (facing south).	
Photo 2 – View of upwind dust monitor (Dust Trak2 Desktop Monitor 8530) on the sidewalk and near the northwest corner of the Site (facing south).	

Photo 3 – View of worker cleaning the sidewalk outside the Site entrance after departure of the disposal truck (facing west).	
Photo 4 – View of workers bracing the Site in Grid 3 to Grid 4 areas at the Site (facing south).	

Photo 5 – View of the Site at the end of the work day (facing south).	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	< 32	x	32-50		50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	2/6/2015
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report):

0730 Arrive on site and meet with Jaime Tapia of NYCC Construction to go over SOP. Begin calibration of PIDs and Dustrak II monitors.
0745: Start 15 minute average of upwind VOCs (0.0 ppm).
0800: NY 32565MB Arrives on site and excavation begins.
0815: NY 32565MB exits site with truckload.
0845: NY 36590ME and NY 20502PB arrive on site and excavation resumes.
0930: NY 36590ME and NY 20502PB exit site with truckloads. Crew is removing wooden street barrier to move the excavator onto the street.
1000: Invasive work resumes. Contractor is transferring soil to be excavated more easily.
1030: Invasive work ends.
1115: General Contractor is onsite to take photos and conduct site overview.
1130: NY 32565MB arrives onsite and excavation resumes.
1150: NY 32656MB exits site with truckload.
1220: NY 36590ME arrives onsite and excavation resumes.
1245: NY 36590ME exits site with truckload. Excavation down to 8ft is complete with the entire front section (grid 2-6).
1250: Airtek begins collection of end point samples S-2 and S-3. Both samples show zero readings with PID
1315: All invasive work complete crew is installing final bracing and breaking down site.
1430: Site is secure, both Airtek and NYCC exit site.

Working In Grid #: (4, 3 and 2)

Samples Collected (Since Last Report):

End point samples were collected for the front sections. S-2 was collected at 24ft from the north sidewalk and 9ft from the east side building. S-3 was collected at 12ft from the north sidewalk and 9ft from the east side building.

Air Monitoring (Since Last Report):
Upwind PID 15 minute Avg. 0.0 ppm. Upwind Dustrak II Max: 0.450 mg/m3 Avg 0.041 mg/m3
Downwind PID Max: 1.577ppm Avg: 0.191 ppm. Downwind Dustrak II Max 0.142 mg/m3 Avg: 0.044 mg/m3

Problems Encountered:

No problems encountered

Planned Activities for the Next Day/ Week:
Installation of vapor barrier.

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	5	125
Total	19	575

NYC Clean Soil Bank (N/A)		Receiving Facility: N/A			
Tracking No.:	N/A				
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.

Site Grid Map

Photo Log

Photo 1 – View of workers cleaning the sidewalk outside the Site entrance after departure of the disposal truck (facing southeast).	
Photo 2 – View of workers excavating the Site in Grid 4 to Grid 2 areas.	

Photo 3 – View of end-point soil sample location for S-2 in Grid 3 at the Site.	
Photo 4 – View of end-point soil sample location for S-3 in Grid 5 at the Site.	

Photo 5 – View of the Site at the end of the work day (facing south).	
Photo 6 – View of the Site at the end of the work day (facing north).	

DAILY STATUS REPORT

Prepared By: Michael Rivera

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

VCP Project No.:	14CVCP224K	E-Number Project No.:	13EHAZ454K	Date:	2/10/2015
Project Name:	566 Carroll Street, Brooklyn, NY				

Consultant: Mike Zouak Airtek Environmental Corp. Tel. No.: (718) 937-3720	Safety Officer: Jaime Tapia of NYCC Construction
General Contractor: Carley Cai CTI Construction Inc. Tel. No.: (718) 353-3800	Site Manager/ Supervisor: John Bouratoglou Bouratoglou Architect, P.C. Tel. No.: (917) 309-3682

Work Activities Performed (Since Last Report):

0700: Arrive on site and meet with Jaime Tapia to discuss scope of work. Crew is discussing how the ground is very frozen and hard to work with.
0750: Crew begins mobilizing ad prepping the ground.
0900: Same activity.
1000: Ravi, PE from Airtek Environmental, stops by for a site visit and to meet with me. Crew is not yet installing the vapor barrier and Ravi exits the worksite.
1115: CTI Construction Inc. and John Bouratoglou arrive on site for a quick site visit/meeting.
1200: Crew is working on building framework for the foundation/vapor barrier.
1230: Break for lunch. Work is halted.
1300: Crew resumes building wooden framework.
1400: Same activity
1500: Same activity
1545: Work ends and crew begins securing site.
1600: Site secured. Airtek and NYCC Construction exit site.

Working In Grid #: (2 & 6)

Samples Collected (Since Last Report):

No samples were collected.

Air Monitoring (Since Last Report):

No air monitoring was performed.

Problems Encountered:

No problems were encountered

Planned Activities for the Next Day/Week:

Installation of vapor barrier next week.

Facility # **Name/ Location** **Type of Waste** **Solid Or Liquid**	NJDEP ID: 132397 Bayshore Soil Management, LLC 75 Crows Mill Road, Keasbey, NJ 08832 Regulated Soil Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds.
Today	0	0
Total	19	475

NYC Clean Soil Bank (N/A)			Receiving Facility: N/A			
Tracking No.:	N/A					
Today	Trucks	Cu. Yds.	Total	Trucks	Cu. Yds.	

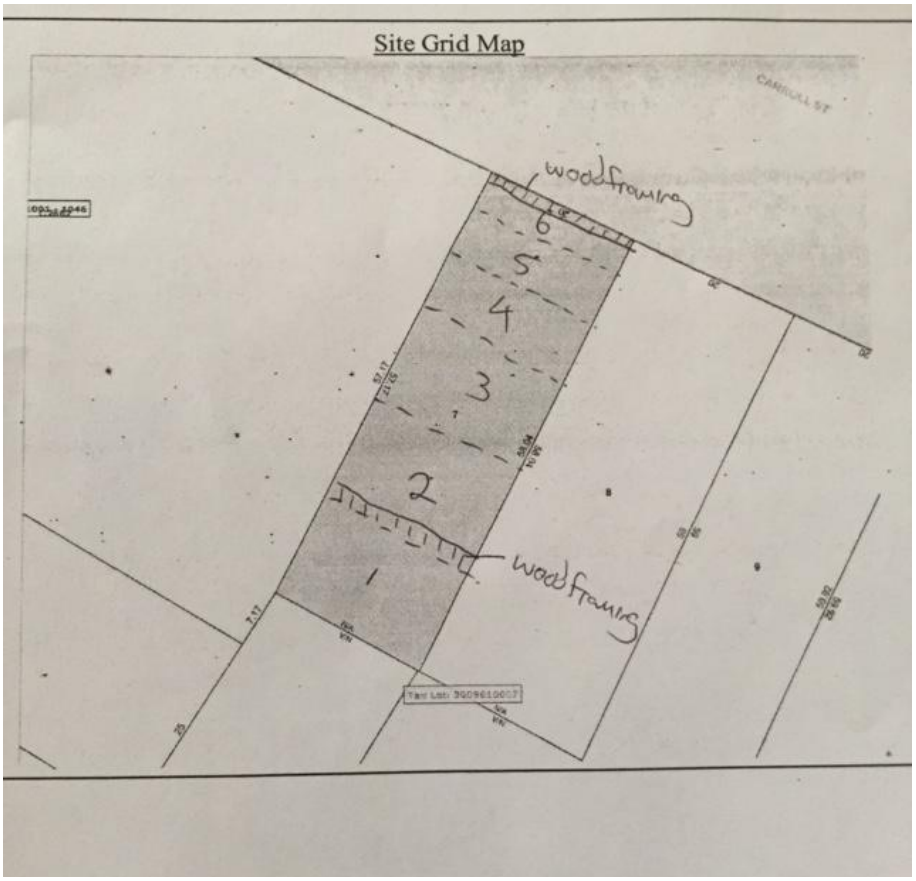


Photo Log

Photo 1 – View of the Site before work is started. Photo is facing south.	
Photo 2 – View of crew cutting wood for framework. Photo is facing south.	

Photo 3 – View of wooden framework at the north end of the Site.	
Photo 4 – View of wooden framework at the end of the day. Photo is facing south.	

APPENDIX 5
END-POINT SAMPLES ANALYTICAL LABORATORY DATA

ANALYTICAL REPORT

Lab Number:	L1500365
Client:	Airtek Environmental Corp. 39-37 29th Street Long Island City, NY 11101
ATTN:	Christine Chen
Phone:	(718) 937-3720
Project Name:	VACANT LOT
Project Number:	13-0933D
Report Date:	01/09/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1500365-01	S-1	SOIL	566 CARROLL STREET, BROOKLYN, NY	01/08/15 13:40	01/08/15

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: VACANT LOT **Lab Number:** L1500365
Project Number: 13-0933D **Report Date:** 01/09/15

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

L1500365-01 has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Bryan Vangel

Title: Technical Director/Representative Date: 01/09/15

ORGANICS

SEMIVOLATILES

Project Name: VACANT LOT **Lab Number:** L1500365

Project Number: 13-0933D **Report Date:** 01/09/15

SAMPLE RESULTS

Lab ID:	L1500365-01	Date Collected:	01/08/15 13:40
Client ID:	S-1	Date Received:	01/08/15
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	01/09/15 00:45
Analytical Date:	01/09/15 12:39		
Analyst:	RC		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	260		ug/kg	150	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	63.	1
1,2-Dichlorobenzene	ND		ug/kg	190	63.	1
1,3-Dichlorobenzene	ND		ug/kg	190	61.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	4900		ug/kg	120	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	68.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	120	J	ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	260		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	38.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	41.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1

Project Name: VACANT LOT **Lab Number:** L1500365

Project Number: 13-0933D **Report Date:** 01/09/15

SAMPLE RESULTS

Lab ID: L1500365-01 Date Collected: 01/08/15 13:40

Client ID: S-1 Date Received: 01/08/15

Sample Location: 566 CARROLL STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	2400		ug/kg	120	38.	1
Benzo(a)pyrene	2300		ug/kg	150	47.	1
Benzo(b)fluoranthene	3000		ug/kg	120	39.	1
Benzo(k)fluoranthene	940		ug/kg	120	37.	1
Chrysene	2100		ug/kg	120	38.	1
Acenaphthylene	250		ug/kg	150	36.	1
Anthracene	840		ug/kg	120	32.	1
Benzo(ghi)perylene	1600		ug/kg	150	40.	1
Fluorene	280		ug/kg	190	55.	1
Phenanthrene	2900		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	380		ug/kg	120	37.	1
Indeno(1,2,3-cd)Pyrene	1500		ug/kg	150	43.	1
Pyrene	3900		ug/kg	120	37.	1
Biphenyl	ND		ug/kg	440	63.	1
4-Chloroaniline	ND		ug/kg	190	51.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	180	J	ug/kg	190	64.	1
2-Methylnaphthalene	77	J	ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	60.	1
Acetophenone	ND		ug/kg	190	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	420	60.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	920	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	63.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	410		ug/kg	190	41.	1

Project Name: VACANT LOT **Lab Number:** L1500365

Project Number: 13-0933D **Report Date:** 01/09/15

SAMPLE RESULTS

Lab ID: L1500365-01 Date Collected: 01/08/15 13:40

Client ID: S-1 Date Received: 01/08/15

Sample Location: 566 CARROLL STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	99		0-136
4-Terphenyl-d14	94		18-120

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/09/15 09:00
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 01/09/15 00:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG754496-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	98	30.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	72	J	ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/09/15 09:00
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 01/09/15 00:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG754496-1					
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	98	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	51.

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/09/15 09:00
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 01/09/15 00:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG754496-1					
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	60.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	91		0-136
4-Terphenyl-d14	92		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG754496-2 WG754496-3								
Acenaphthene	90		72		31-137	22		50
1,2,4-Trichlorobenzene	92		74		38-107	22		50
Hexachlorobenzene	84		69		40-140	20		50
Bis(2-chloroethyl)ether	77		62		40-140	22		50
2-Chloronaphthalene	83		67		40-140	21		50
1,2-Dichlorobenzene	80		66		40-140	19		50
1,3-Dichlorobenzene	81		67		40-140	19		50
1,4-Dichlorobenzene	81		68		28-104	17		50
3,3'-Dichlorobenzidine	82		64		40-140	25		50
2,4-Dinitrotoluene	**92**	Q	75		28-89	20		50
2,6-Dinitrotoluene	82		65		40-140	23		50
Fluoranthene	98		79		40-140	21		50
4-Chlorophenyl phenyl ether	89		70		40-140	24		50
4-Bromophenyl phenyl ether	91		73		40-140	22		50
Bis(2-chloroisopropyl)ether	75		61		40-140	21		50
Bis(2-chloroethoxy)methane	74		60		40-117	21		50
Hexachlorobutadiene	87		72		40-140	19		50
Hexachlorocyclopentadiene	106		86		40-140	21		50
Hexachloroethane	76		63		40-140	19		50
Isophorone	81		64		40-140	23		50
Naphthalene	86		70		40-140	21		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG754496-2 WG754496-3								
Nitrobenzene	85		68		40-140	22		50
NitrosoDiPhenylAmine(NDPA)/DPA	95		77			21		50
n-Nitrosodi-n-propylamine	89		70		32-121	24		50
Bis(2-Ethylhexyl)phthalate	91		73		40-140	22		50
Butyl benzyl phthalate	83		70		40-140	17		50
Di-n-butylphthalate	100		81		40-140	21		50
Di-n-octylphthalate	94		78		40-140	19		50
Diethyl phthalate	86		70		40-140	21		50
Dimethyl phthalate	90		72		40-140	22		50
Benzo(a)anthracene	102		81		40-140	23		50
Benzo(a)pyrene	99		80		40-140	21		50
Benzo(b)fluoranthene	94		76		40-140	21		50
Benzo(k)fluoranthene	95		76		40-140	22		50
Chrysene	87		70		40-140	22		50
Acenaphthylene	86		69		40-140	22		50
Anthracene	100		79		40-140	23		50
Benzo(ghi)perylene	99		81		40-140	20		50
Fluorene	93		74		40-140	23		50
Phenanthrene	89		71		40-140	23		50
Dibenzo(a,h)anthracene	80		66		40-140	19		50
Indeno(1,2,3-cd)Pyrene	88		72		40-140	20		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG754496-2 WG754496-3								
Pyrene	92		75		35-142	20		50
Biphenyl	92		75			20		50
4-Chloroaniline	64		48		40-140	29		50
2-Nitroaniline	90		70		47-134	25		50
3-Nitroaniline	79		61		26-129	26		50
4-Nitroaniline	88		76		41-125	15		50
Dibenzofuran	93		75		40-140	21		50
2-Methylnaphthalene	91		73		40-140	22		50
1,2,4,5-Tetrachlorobenzene	95		75		40-117	24		50
Acetophenone	83		66		14-144	23		50
2,4,6-Trichlorophenol	104		84		30-130	21		50
P-Chloro-M-Cresol	102		80		26-103	24		50
2-Chlorophenol	94		78		25-102	19		50
2,4-Dichlorophenol	109		88		30-130	21		50
2,4-Dimethylphenol	83		67		30-130	21		50
2-Nitrophenol	91		73		30-130	22		50
4-Nitrophenol	92		76		11-114	19		50
2,4-Dinitrophenol	48		37		4-130	26		50
4,6-Dinitro-o-cresol	81		65		10-130	22		50
Pentachlorophenol	92		74		17-109	22		50
Phenol	90		72		26-90	22		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG754496-2 WG754496-3								
2-Methylphenol	94		77		30-130.	20		50
3-Methylphenol/4-Methylphenol	93		76		30-130	20		50
2,4,5-Trichlorophenol	100		81		30-130	21		50
Benzoic Acid	28		27			4		50
Benzyl Alcohol	92		72		40-140	24		50
Carbazole	101		82		54-128	21		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	95		79		25-120
Phenol-d6	92		76		10-120
Nitrobenzene-d5	81		67		23-120
2-Fluorobiphenyl	87		70		30-120
2,4,6-Tribromophenol	102		83		0-136
4-Terphenyl-d14	91		73		18-120

PESTICIDES

Project Name: VACANT LOT **Lab Number:** L1500365

Project Number: 13-0933D **Report Date:** 01/09/15

SAMPLE RESULTS

Lab ID:	L1500365-01	Date Collected:	01/08/15 13:40
Client ID:	S-1	Date Received:	01/08/15
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	01/09/15 00:27
Analytical Date:	01/09/15 13:50	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	01/09/15
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.358	1	A
Lindane	ND		ug/kg	0.761	0.340	1	A
Alpha-BHC	ND		ug/kg	0.761	0.216	1	A
Beta-BHC	ND		ug/kg	1.83	0.693	1	A
Heptachlor	ND		ug/kg	0.913	0.410	1	A
Aldrin	ND		ug/kg	1.83	0.643	1	A
Heptachlor epoxide	ND		ug/kg	3.42	1.03	1	A
Endrin	ND		ug/kg	0.761	0.312	1	A
Endrin ketone	ND		ug/kg	1.83	0.470	1	A
Dieldrin	ND		ug/kg	1.14	0.571	1	A
4,4'-DDE	ND		ug/kg	1.83	0.422	1	A
4,4'-DDD	ND		ug/kg	1.83	0.652	1	A
4,4'-DDT	ND		ug/kg	3.42	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.432	1	A
Endosulfan II	ND		ug/kg	1.83	0.610	1	A
Endosulfan sulfate	ND		ug/kg	0.761	0.362	1	A
Methoxychlor	ND		ug/kg	3.42	1.06	1	A
Toxaphene	ND		ug/kg	34.2	9.59	1	A
cis-Chlordane	ND		ug/kg	2.28	0.636	1	A
trans-Chlordane	ND		ug/kg	2.28	0.603	1	A
Chlordane	ND		ug/kg	14.8	6.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	64		30-150	A

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 01/09/15 12:45
Analyst: GP

Extraction Method: EPA 3546
Extraction Date: 01/09/15 00:27
Cleanup Method: EPA 3620B
Cleanup Date: 01/09/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG754488-1						
Delta-BHC	ND		ug/kg	1.50	0.294	A
Lindane	ND		ug/kg	0.626	0.280	A
Alpha-BHC	ND		ug/kg	0.626	0.178	A
Beta-BHC	ND		ug/kg	1.50	0.569	A
Heptachlor	ND		ug/kg	0.751	0.337	A
Aldrin	ND		ug/kg	1.50	0.529	A
Heptachlor epoxide	ND		ug/kg	2.82	0.845	A
Endrin	ND		ug/kg	0.626	0.256	A
Endrin ketone	ND		ug/kg	1.50	0.387	A
Dieldrin	ND		ug/kg	0.939	0.469	A
4,4'-DDE	ND		ug/kg	1.50	0.347	A
4,4'-DDD	ND		ug/kg	1.50	0.536	A
4,4'-DDT	ND		ug/kg	2.82	1.21	A
Endosulfan I	ND		ug/kg	1.50	0.355	A
Endosulfan II	ND		ug/kg	1.50	0.502	A
Endosulfan sulfate	ND		ug/kg	0.626	0.298	A
Methoxychlor	ND		ug/kg	2.82	0.876	A
Toxaphene	ND		ug/kg	28.2	7.88	A
cis-Chlordane	ND		ug/kg	1.88	0.523	A
trans-Chlordane	ND		ug/kg	1.88	0.496	A
Chlordane	ND		ug/kg	12.2	4.97	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	57		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG754488-2 WG754488-3									
Delta-BHC	66		64		30-150	3		30	A
Lindane	89		85		30-150	5		30	A
Alpha-BHC	96		92		30-150	4		30	A
Beta-BHC	95		91		30-150	4		30	A
Heptachlor	85		82		30-150	4		30	A
Aldrin	89		82		30-150	8		30	A
Heptachlor epoxide	84		78		30-150	7		30	A
Endrin	96		90		30-150	6		30	A
Endrin ketone	85		80		30-150	6		30	A
Dieldrin	90		83		30-150	8		30	A
4,4'-DDE	87		80		30-150	8		30	A
4,4'-DDD	88		83		30-150	6		30	A
4,4'-DDT	90		88		30-150	2		30	A
Endosulfan I	84		78		30-150	7		30	A
Endosulfan II	82		76		30-150	8		30	A
Endosulfan sulfate	84		81		30-150	4		30	A
Methoxychlor	97		92		30-150	5		30	A
cis-Chlordane	85		79		30-150	7		30	A
trans-Chlordane	101		98		30-150	3		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG754488-2 WG754488-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		66		30-150	B
Decachlorobiphenyl	66		62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		55		30-150	A
Decachlorobiphenyl	63		53		30-150	A

METALS

Project Name: VACANT LOT **Lab Number:** L1500365

Project Number: 13-0933D **Report Date:** 01/09/15

SAMPLE RESULTS

Lab ID: L1500365-01 Date Collected: 01/08/15 13:40

Client ID: S-1 Date Received: 01/08/15

Sample Location: 566 CARROLL STREET, BROOKLYN, Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6200		mg/kg	9.1	1.8	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Antimony, Total	0.80	J	mg/kg	4.6	0.73	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Arsenic, Total	6.9		mg/kg	0.91	0.18	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Barium, Total	120		mg/kg	0.91	0.27	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Beryllium, Total	0.36	J	mg/kg	0.46	0.09	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Cadmium, Total	0.64	J	mg/kg	0.91	0.06	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Calcium, Total	8400		mg/kg	9.1	2.7	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Chromium, Total	17		mg/kg	0.91	0.18	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Cobalt, Total	6.4		mg/kg	1.8	0.46	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Copper, Total	65		mg/kg	0.91	0.18	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Iron, Total	12000		mg/kg	4.6	1.8	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Lead, Total	350		mg/kg	4.6	0.18	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Magnesium, Total	3700		mg/kg	9.1	0.91	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Manganese, Total	260		mg/kg	0.91	0.18	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Mercury, Total	1.1		mg/kg	0.07	0.02	1	01/09/15 09:30	01/09/15 14:28	EPA 7471B	1,7471B	MC
Nickel, Total	27		mg/kg	2.3	0.36	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Potassium, Total	920		mg/kg	230	36.	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.27	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Silver, Total	0.19	J	mg/kg	0.91	0.18	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Sodium, Total	110	J	mg/kg	180	27.	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Vanadium, Total	20		mg/kg	0.91	0.09	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH
Zinc, Total	260		mg/kg	4.6	0.64	2	01/09/15 10:24	01/09/15 13:05	EPA 3051A	1,6010C	JH

Project Name: VACANT LOT **Lab Number:** L1500365

Project Number: 13-0933D **Report Date:** 01/09/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG754506-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	01/09/15 09:30	01/09/15 14:24	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG754593-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Antimony, Total	ND		mg/kg	2.0	0.32	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Arsenic, Total	ND		mg/kg	0.40	0.08	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Calcium, Total	ND		mg/kg	4.0	1.2	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Cobalt, Total	ND		mg/kg	0.80	0.20	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Iron, Total	ND		mg/kg	2.0	0.80	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Magnesium, Total	ND		mg/kg	4.0	0.40	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Potassium, Total	ND		mg/kg	100	16.	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Sodium, Total	ND		mg/kg	80	12.	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Thallium, Total	ND		mg/kg	0.80	0.16	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	0.04	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	01/09/15 10:24	01/09/15 12:35	1,6010C	JH

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3051A

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG754506-2 SRM Lot Number: D083-540								
Mercury, Total	118		-		75-126	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG754593-2 SRM Lot Number: D083-540					
Aluminum, Total	72	-	51-148	-	
Antimony, Total	190	-	1-210	-	
Arsenic, Total	106	-	78-122	-	
Barium, Total	114	-	82-117	-	
Beryllium, Total	99	-	82-118	-	
Cadmium, Total	95	-	82-118	-	
Calcium, Total	88	-	82-118	-	
Chromium, Total	92	-	79-121	-	
Cobalt, Total	96	-	83-117	-	
Copper, Total	102	-	80-120	-	
Iron, Total	86	-	47-153	-	
Lead, Total	89	-	81-119	-	
Magnesium, Total	76	-	75-124	-	
Manganese, Total	97	-	81-119	-	
Nickel, Total	92	-	82-118	-	
Potassium, Total	92	-	70-130	-	
Selenium, Total	102	-	78-123	-	
Silver, Total	102	-	74-125	-	
Sodium, Total	98	-	70-130	-	
Thallium, Total	95	-	78-122	-	
Vanadium, Total	94	-	65-135	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG754593-2 SRM Lot Number: D083-540					
Zinc, Total	97	-	80-121	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG754506-4 QC Sample: L1500151-01 Client ID: MS Sample												
Mercury, Total	0.03J	0.152	0.21	**138**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG754593-4 QC Sample: L1500189-01 Client ID: MS Sample										
Aluminum, Total	4500	182	5100	**330**	Q	-	-	75-125	-	20
Antimony, Total	2.1J	45.4	42	92		-	-	75-125	-	20
Arsenic, Total	10.	10.9	18	**73**	Q	-	-	75-125	-	20
Barium, Total	150	182	300	82		-	-	75-125	-	20
Beryllium, Total	0.30	4.54	4.1	84		-	-	75-125	-	20
Cadmium, Total	0.74	4.63	4.4	79		-	-	75-125	-	20
Calcium, Total	17000	908	10000	**0**	Q	-	-	75-125	-	20
Chromium, Total	15.	18.2	28	**72**	Q	-	-	75-125	-	20
Cobalt, Total	5.2	45.4	40	77		-	-	75-125	-	20
Copper, Total	150	22.7	120	**0**	Q	-	-	75-125	-	20
Iron, Total	14000	90.8	10000	**0**	Q	-	-	75-125	-	20
Lead, Total	500	46.3	530	**65**	Q	-	-	75-125	-	20
Magnesium, Total	6300	908	3200	**0**	Q	-	-	75-125	-	20
Manganese, Total	190	45.4	210	**44**	Q	-	-	75-125	-	20
Nickel, Total	18.	45.4	51	**73**	Q	-	-	75-125	-	20
Potassium, Total	760	908	1600	92		-	-	75-125	-	20
Selenium, Total	0.28J	10.9	9.6	88		-	-	75-125	-	20
Silver, Total	0.39J	27.2	25	92		-	-	75-125	-	20
Sodium, Total	200	908	1000	88		-	-	75-125	-	20
Thallium, Total	ND	10.9	7.2	**66**	Q	-	-	75-125	-	20
Vanadium, Total	17.	45.4	54	81		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG754593-4 QC Sample: L1500189-01 Client ID: MS Sample										
Zinc, Total	320	45.4	290	**0**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG754506-3 QC Sample: L1500151-01 Client ID: DUP Sample						
Mercury, Total	0.03J	0.02J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG754593-3 QC Sample: L1500189-01 Client ID: DUP Sample						
Aluminum, Total	4500	4700	mg/kg	4		20
Antimony, Total	2.1J	1.3J	mg/kg	NC		20
Arsenic, Total	10.	10	mg/kg	0		20
Barium, Total	150	200	mg/kg	**29**	Q	20
Beryllium, Total	0.30	0.29	mg/kg	3		20
Cadmium, Total	0.74	0.72	mg/kg	3		20
Chromium, Total	15.	17	mg/kg	13		20
Cobalt, Total	5.2	5.2	mg/kg	0		20
Copper, Total	150	200	mg/kg	**29**	Q	20
Iron, Total	14000	15000	mg/kg	7		20
Lead, Total	500	490	mg/kg	2		20
Manganese, Total	190	200	mg/kg	5		20
Nickel, Total	18.	23	mg/kg	**24**	Q	20
Selenium, Total	0.28J	ND	mg/kg	NC		20
Silver, Total	0.39J	0.39J	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	17.	17	mg/kg	0		20
Zinc, Total	320	320	mg/kg	0		20

INORGANICS
&
MISCELLANEOUS

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

SAMPLE RESULTS

Lab ID: L1500365-01
Client ID: S-1
Sample Location: 566 CARROLL STREET, BROOKLYN,
Matrix: Soil

Date Collected: 01/08/15 13:40
Date Received: 01/08/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	01/08/15 23:52	30,2540G	DK

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG754484-1 QC Sample: L1500348-01 Client ID: DUP Sample						
Solids, Total	85.7	85.3	%	0		20

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1500365
Report Date: 01/09/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information	Custody Seal
Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1500365-01A	Glass 120ml/4oz unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1500365-01B	Glass 250ml/8oz unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: VACANT LOT **Lab Number:** L1500365

Project Number: 13-0933D **Report Date:** 01/09/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers

Project Name: VACANT LOT **Lab Number:** L1500365

Project Number: 13-0933D **Report Date:** 01/09/15

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: VACANT LOT **Lab Number:** L1500365
Project Number: 13-0933D **Report Date:** 01/09/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL Mission Performance

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 1/8/15

ALPHA Job #: L1500365

Client Information

Client: Airtek Environmental Corp.
Address: 39-37 29th Street
Long Island City, NY 11101
Phone: (718) 937-3720
Fax: (718) 937-3721
Email: cchen@airtekenv.com

Project Information

Project Name: Vacant Lot
Project Location: 566 Carroll Street, Brooklyn, NY
Project #: 13-0933D
(Use Project name as Project #) ☐
Project Manager: Christine Chen
ALPHAQuote #: 2011060

Turn-Around Time

Standard ☐ Due Date: 1/9/15
Rush (only if pre approved) ☑ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☑ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☑ NY Part 375
☐ AWQ Standards ☑ NY CP-51
☑ NY Restricted Use ☐ Other
☑ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Rush for 24-hour TAT!

Please specify Metals or TAL:

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SVOCs (Method 8270C)	TAL Metals (Method 6010)	Pesticides (Method 8081A)	Sample Specific Comments	Total Bottles
00365-01	S-1	1/8/2015	1840	S		X	X	X	End-Point Sample in Rear Section of the Site	2
Container Type						G	G	G		
Preservative						A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	1/8/15 1400	[illegible]	1/8/15 1400
[illegible]	1/8/15 1900	Tom Tolen	1-8-15 1900
Tom Tolen	1-8-15 2230	[illegible]	1/8/15 2230

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1502424
Client:	Airtek Environmental Corp. 39-37 29th Street Long Island City, NY 11101
ATTN:	Christine Chen
Phone:	(718) 937-3720
Project Name:	VACANT LOT
Project Number:	13-0933D
Report Date:	02/10/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1502424-01	S-2	SOIL	566 CARROLL STREET, BROOKLYN, NY	02/06/15 12:50	02/06/15
L1502424-02	S-3	SOIL	566 CARROLL STREET, BROOKLYN, NY	02/06/15 12:55	02/06/15

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: VACANT LOT **Lab Number:** L1502424
Project Number: 13-0933D **Report Date:** 02/10/15

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

L1502424-01 and -02 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 02/10/15

ORGANICS

SEMIVOLATILES

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID:	L1502424-01	Date Collected:	02/06/15 12:50
Client ID:	S-2	Date Received:	02/06/15
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/07/15 03:22
Analytical Date:	02/07/15 23:16		
Analyst:	KR		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	150	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	63.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	1500		ug/kg	120	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	68.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	96	J	ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID: L1502424-01 Date Collected: 02/06/15 12:50

Client ID: S-2 Date Received: 02/06/15

Sample Location: 566 CARROLL STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	690		ug/kg	120	38.	1
Benzo(a)pyrene	620		ug/kg	150	47.	1
Benzo(b)fluoranthene	870		ug/kg	120	39.	1
Benzo(k)fluoranthene	290		ug/kg	120	36.	1
Chrysene	720		ug/kg	120	38.	1
Acenaphthylene	49	J	ug/kg	150	36.	1
Anthracene	240		ug/kg	120	32.	1
Benzo(ghi)perylene	370		ug/kg	150	40.	1
Fluorene	87	J	ug/kg	190	55.	1
Phenanthrene	1100		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	90	J	ug/kg	120	37.	1
Indeno(1,2,3-cd)Pyrene	390		ug/kg	150	42.	1
Pyrene	1300		ug/kg	120	37.	1
Biphenyl	ND		ug/kg	440	63.	1
4-Chloroaniline	ND		ug/kg	190	51.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	68	J	ug/kg	190	64.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	410	60.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	920	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	63.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	110	J	ug/kg	190	41.	1

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID: L1502424-01 Date Collected: 02/06/15 12:50

Client ID: S-2 Date Received: 02/06/15

Sample Location: 566 CARROLL STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	83		18-120

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID:	L1502424-02 D	Date Collected:	02/06/15 12:55
Client ID:	S-3	Date Received:	02/06/15
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/07/15 03:22
Analytical Date:	02/09/15 03:31		
Analyst:	KR		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	3400		ug/kg	610	160	4
1,2,4-Trichlorobenzene	ND		ug/kg	760	250	4
Hexachlorobenzene	ND		ug/kg	460	140	4
Bis(2-chloroethyl)ether	ND		ug/kg	690	210	4
2-Chloronaphthalene	ND		ug/kg	760	250	4
1,2-Dichlorobenzene	ND		ug/kg	760	250	4
1,3-Dichlorobenzene	ND		ug/kg	760	240	4
1,4-Dichlorobenzene	ND		ug/kg	760	230	4
3,3'-Dichlorobenzidine	ND		ug/kg	760	200	4
2,4-Dinitrotoluene	ND		ug/kg	760	160	4
2,6-Dinitrotoluene	ND		ug/kg	760	200	4
Fluoranthene	15000		ug/kg	460	140	4
4-Chlorophenyl phenyl ether	ND		ug/kg	760	230	4
4-Bromophenyl phenyl ether	ND		ug/kg	760	180	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	920	270	4
Bis(2-chloroethoxy)methane	ND		ug/kg	830	230	4
Hexachlorobutadiene	ND		ug/kg	760	220	4
Hexachlorocyclopentadiene	ND		ug/kg	2200	490	4
Hexachloroethane	ND		ug/kg	610	140	4
Isophorone	ND		ug/kg	690	200	4
Naphthalene	2600		ug/kg	760	250	4
Nitrobenzene	ND		ug/kg	690	180	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	610	160	4
n-Nitrosodi-n-propylamine	ND		ug/kg	760	230	4
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	760	200	4
Butyl benzyl phthalate	230	J	ug/kg	760	150	4
Di-n-butylphthalate	ND		ug/kg	760	150	4
Di-n-octylphthalate	ND		ug/kg	760	190	4
Diethyl phthalate	ND		ug/kg	760	160	4
Dimethyl phthalate	ND		ug/kg	760	190	4

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID: L1502424-02 D Date Collected: 02/06/15 12:55

Client ID: S-3 Date Received: 02/06/15

Sample Location: 566 CARROLL STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	5900		ug/kg	460	150	4
Benzo(a)pyrene	4600		ug/kg	610	190	4
Benzo(b)fluoranthene	6200		ug/kg	460	150	4
Benzo(k)fluoranthene	2100		ug/kg	460	150	4
Chrysene	5800		ug/kg	460	150	4
Acenaphthylene	480	J	ug/kg	610	140	4
Anthracene	3300		ug/kg	460	130	4
Benzo(ghi)perylene	2400		ug/kg	610	160	4
Fluorene	2200		ug/kg	760	220	4
Phenanthrene	19000		ug/kg	460	150	4
Dibenzo(a,h)anthracene	720		ug/kg	460	150	4
Indeno(1,2,3-cd)Pyrene	2600		ug/kg	610	170	4
Pyrene	12000		ug/kg	460	150	4
Biphenyl	570	J	ug/kg	1700	250	4
4-Chloroaniline	ND		ug/kg	760	200	4
2-Nitroaniline	ND		ug/kg	760	220	4
3-Nitroaniline	ND		ug/kg	760	210	4
4-Nitroaniline	ND		ug/kg	760	210	4
Dibenzofuran	2600		ug/kg	760	260	4
2-Methylnaphthalene	1800		ug/kg	920	240	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	760	240	4
Acetophenone	ND		ug/kg	760	240	4
2,4,6-Trichlorophenol	ND		ug/kg	460	140	4
P-Chloro-M-Cresol	ND		ug/kg	760	220	4
2-Chlorophenol	ND		ug/kg	760	230	4
2,4-Dichlorophenol	ND		ug/kg	690	250	4
2,4-Dimethylphenol	ND		ug/kg	760	230	4
2-Nitrophenol	ND		ug/kg	1600	240	4
4-Nitrophenol	ND		ug/kg	1100	250	4
2,4-Dinitrophenol	ND		ug/kg	3700	1000	4
4,6-Dinitro-o-cresol	ND		ug/kg	2000	280	4
Pentachlorophenol	ND		ug/kg	610	160	4
Phenol	ND		ug/kg	760	230	4
2-Methylphenol	ND		ug/kg	760	250	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1100	250	4
2,4,5-Trichlorophenol	ND		ug/kg	760	250	4
Benzoic Acid	ND		ug/kg	2500	770	4
Benzyl Alcohol	ND		ug/kg	760	240	4
Carbazole	1400		ug/kg	760	160	4

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID: L1502424-02 D Date Collected: 02/06/15 12:55

Client ID: S-3 Date Received: 02/06/15

Sample Location: 566 CARROLL STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	104		10-136
4-Terphenyl-d14	89		18-120

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/07/15 18:12
Analyst: KR

Extraction Method: EPA 3546
Extraction Date: 02/07/15 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG761306-1					
Acenaphthene	ND		ug/kg	130	34.
Benzidine	ND		ug/kg	540	130
n-Nitrosodimethylamine	ND		ug/kg	320	53.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	98	30.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Azobenzene	ND		ug/kg	160	44.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/07/15 18:12
Analyst: KR

Extraction Method: EPA 3546
Extraction Date: 02/07/15 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG761306-1					
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	98	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
Aniline	ND		ug/kg	200	33.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	47.

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/07/15 18:12
Analyst: KR

Extraction Method: EPA 3546
Extraction Date: 02/07/15 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG761306-1					
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	51.
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	60.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.
Benzaldehyde	ND		ug/kg	220	66.
Caprolactam	ND		ug/kg	160	45.
Atrazine	ND		ug/kg	130	37.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.
Pyridine	ND		ug/kg	650	58.
Parathion, ethyl	ND		ug/kg	160	64.
1-Methylnaphthalene	ND		ug/kg	160	48.

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/07/15 18:12
Analyst: KR

Extraction Method: EPA 3546
Extraction Date: 02/07/15 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG761306-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	73		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG761306-2 WG761306-3								
Acenaphthene	79		74		31-137	7		50
Benzidine	18		14		10-66	25		50
n-Nitrosodimethylamine	69		72		22-100	4		50
1,2,4-Trichlorobenzene	81		76		38-107	6		50
Hexachlorobenzene	82		75		40-140	9		50
Bis(2-chloroethyl)ether	74		73		40-140	1		50
2-Chloronaphthalene	81		75		40-140	8		50
1,2-Dichlorobenzene	74		72		40-140	3		50
1,3-Dichlorobenzene	73		74		40-140	1		50
1,4-Dichlorobenzene	73		73		28-104	0		50
3,3'-Dichlorobenzidine	54		44		40-140	20		50
2,4-Dinitrotoluene	81		74		28-89	9		50
2,6-Dinitrotoluene	80		73		40-140	9		50
Fluoranthene	83		74		40-140	11		50
4-Chlorophenyl phenyl ether	84		77		40-140	9		50
4-Bromophenyl phenyl ether	84		76		40-140	10		50
Azobenzene	87		80		40-140	8		50
Bis(2-chloroisopropyl)ether	74		72		40-140	3		50
Bis(2-chloroethoxy)methane	78		75		40-117	4		50
Hexachlorobutadiene	78		73		40-140	7		50
Hexachlorocyclopentadiene	80		72		40-140	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG761306-2 WG761306-3								
Hexachloroethane	70		70		40-140	0		50
Isophorone	76		73		40-140	4		50
Naphthalene	76		72		40-140	5		50
Nitrobenzene	78		72		40-140	8		50
NitrosoDiPhenylAmine(NDPA)/DPA	86		78		36-157	10		50
n-Nitrosodi-n-propylamine	78		75		32-121	4		50
Bis(2-Ethylhexyl)phthalate	87		76		40-140	13		50
Butyl benzyl phthalate	83		73		40-140	13		50
Di-n-butylphthalate	85		75		40-140	13		50
Di-n-octylphthalate	84		74		40-140	13		50
Diethyl phthalate	83		76		40-140	9		50
Dimethyl phthalate	85		76		40-140	11		50
Benzo(a)anthracene	84		74		40-140	13		50
Benzo(a)pyrene	85		75		40-140	13		50
Benzo(b)fluoranthene	86		74		40-140	15		50
Benzo(k)fluoranthene	83		76		40-140	9		50
Chrysene	83		74		40-140	11		50
Acenaphthylene	81		74		40-140	9		50
Anthracene	82		75		40-140	9		50
Benzo(ghi)perylene	83		73		40-140	13		50
Fluorene	82		76		40-140	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG761306-2 WG761306-3								
Phenanthrene	81		74		40-140	9		50
Dibenzo(a,h)anthracene	84		72		40-140	15		50
Indeno(1,2,3-cd)Pyrene	81		72		40-140	12		50
Pyrene	83		73		35-142	13		50
Biphenyl	87		81		54-104	7		50
Aniline	51		40		40-140	24		50
4-Chloroaniline	95		92		40-140	3		50
2-Nitroaniline	83		75		47-134	10		50
3-Nitroaniline	51		43		26-129	17		50
4-Nitroaniline	76		70		41-125	8		50
Dibenzofuran	85		78		40-140	9		50
2-Methylnaphthalene	82		77		40-140	6		50
1,2,4,5-Tetrachlorobenzene	87		81		40-117	7		50
Acetophenone	85		81		14-144	5		50
2,4,6-Trichlorophenol	90		80		30-130	12		50
P-Chloro-M-Cresol	93		85		26-103	9		50
2-Chlorophenol	85		84		25-102	1		50
2,4-Dichlorophenol	92		84		30-130	9		50
2,4-Dimethylphenol	88		84		30-130	5		50
2-Nitrophenol	81		78		30-130	4		50
4-Nitrophenol	106		96		11-114	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG761306-2 WG761306-3								
2,4-Dinitrophenol	88		73		4-130	19		50
4,6-Dinitro-o-cresol	92		82		10-130	11		50
Pentachlorophenol	95		86		17-109	10		50
Phenol	86		84		26-90	2		50
2-Methylphenol	86		83		30-130.	4		50
3-Methylphenol/4-Methylphenol	92		88		30-130	4		50
2,4,5-Trichlorophenol	93		81		30-130	14		50
Benzoic Acid	32		25		10-66	25		50
Benzyl Alcohol	81		77		40-140	5		50
Carbazole	86		78		54-128	10		50
Benzaldehyde	94		92		40-140	2		50
Caprolactam	84		74		15-130	13		50
Atrazine	41		**37**	Q	40-140	10		50
2,3,4,6-Tetrachlorophenol	88		80		40-140	10		50
Pyridine	42		42		10-93	0		50
Parathion, ethyl	91		83		40-140	9		50
1-Methylnaphthalene	86		80		26-130	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG761306-2 WG761306-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		82		25-120
Phenol-d6	85		84		10-120
Nitrobenzene-d5	77		76		23-120
2-Fluorobiphenyl	85		79		30-120
2,4,6-Tribromophenol	91		84		10-136
4-Terphenyl-d14	86		78		18-120

PESTICIDES

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID:	L1502424-01	Date Collected:	02/06/15 12:50
Client ID:	S-2	Date Received:	02/06/15
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/07/15 02:06
Analytical Date:	02/09/15 11:57	Cleanup Method:	EPA 3620B
Analyst:	JW	Cleanup Date:	02/07/15
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.876	0.393	1	A
Aldrin	2.72		ug/kg	1.75	0.617	1	B
Heptachlor epoxide	ND		ug/kg	3.29	0.986	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	23.9	P	ug/kg	1.10	0.548	1	B
4,4'-DDE	10.8		ug/kg	1.75	0.405	1	B
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	52.5		ug/kg	3.29	1.41	1	B
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.20	1	A
cis-Chlordane	8.57		ug/kg	2.19	0.610	1	A
trans-Chlordane	4.72	PI	ug/kg	2.19	0.578	1	B
Chlordane	44.3		ug/kg	14.2	5.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	54		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	41		30-150	A

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID:	L1502424-02	Date Collected:	02/06/15 12:55
Client ID:	S-3	Date Received:	02/06/15
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/07/15 02:06
Analytical Date:	02/09/15 12:10	Cleanup Method:	EPA 3620B
Analyst:	JW	Cleanup Date:	02/07/15
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.351	1	A
Lindane	ND		ug/kg	0.747	0.334	1	A
Alpha-BHC	ND		ug/kg	0.747	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.680	1	A
Heptachlor	ND		ug/kg	0.896	0.402	1	A
Aldrin	1.72	J	ug/kg	1.79	0.631	1	B
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	A
Endrin	ND		ug/kg	0.747	0.306	1	A
Endrin ketone	ND		ug/kg	1.79	0.461	1	A
Dieldrin	38.2	P	ug/kg	1.12	0.560	1	B
4,4'-DDE	11.8		ug/kg	1.79	0.414	1	B
4,4'-DDD	ND		ug/kg	1.79	0.639	1	A
4,4'-DDT	53.4		ug/kg	3.36	1.44	1	B
Endosulfan I	ND		ug/kg	1.79	0.423	1	A
Endosulfan II	ND		ug/kg	1.79	0.599	1	A
Endosulfan sulfate	ND		ug/kg	0.747	0.355	1	A
Methoxychlor	ND		ug/kg	3.36	1.04	1	A
Toxaphene	ND		ug/kg	33.6	9.41	1	A
cis-Chlordane	5.07	PI	ug/kg	2.24	0.624	1	B
trans-Chlordane	10.2		ug/kg	2.24	0.591	1	A
Chlordane	34.4		ug/kg	14.6	5.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	56		30-150	A

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/08/15 03:01
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 02/07/15 02:06
Cleanup Method: EPA 3620B
Cleanup Date: 02/07/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG761301-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.630	0.281	A
Alpha-BHC	ND		ug/kg	0.630	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.573	A
Heptachlor	ND		ug/kg	0.756	0.339	A
Aldrin	ND		ug/kg	1.51	0.532	A
Heptachlor epoxide	ND		ug/kg	2.83	0.850	A
Endrin	ND		ug/kg	0.630	0.258	A
Endrin ketone	ND		ug/kg	1.51	0.389	A
Dieldrin	ND		ug/kg	0.944	0.472	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.539	A
4,4'-DDT	ND		ug/kg	2.83	1.22	A
Endosulfan I	ND		ug/kg	1.51	0.357	A
Endosulfan II	ND		ug/kg	1.51	0.505	A
Endosulfan sulfate	ND		ug/kg	0.630	0.300	A
Methoxychlor	ND		ug/kg	2.83	0.882	A
Toxaphene	ND		ug/kg	28.3	7.93	A
cis-Chlordane	ND		ug/kg	1.89	0.526	A
trans-Chlordane	ND		ug/kg	1.89	0.499	A
Chlordane	ND		ug/kg	12.3	5.01	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	62		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG761301-2 WG761301-3									
Delta-BHC	67		69		30-150	3		30	A
Lindane	77		79		30-150	3		30	A
Alpha-BHC	87		89		30-150	2		30	A
Beta-BHC	94		103		30-150	9		30	A
Heptachlor	83		83		30-150	0		30	A
Aldrin	75		77		30-150	3		30	A
Heptachlor epoxide	73		75		30-150	3		30	A
Endrin	86		88		30-150	2		30	A
Endrin ketone	79		80		30-150	1		30	A
Dieldrin	77		79		30-150	3		30	A
4,4'-DDE	70		73		30-150	4		30	A
4,4'-DDD	77		79		30-150	3		30	A
4,4'-DDT	84		87		30-150	4		30	A
Endosulfan I	71		73		30-150	3		30	A
Endosulfan II	70		72		30-150	3		30	A
Endosulfan sulfate	78		79		30-150	1		30	A
Methoxychlor	96		98		30-150	2		30	A
cis-Chlordane	71		73		30-150	3		30	A
trans-Chlordane	88		87		30-150	1		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG761301-2 WG761301-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		71		30-150	B
Decachlorobiphenyl	64		65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		64		30-150	A
Decachlorobiphenyl	56		61		30-150	A

METALS

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID: L1502424-01 Date Collected: 02/06/15 12:50

Client ID: S-2 Date Received: 02/06/15

Sample Location: 566 CARROLL STREET, BROOKLYN, Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6600		mg/kg	8.7	1.7	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.3	0.69	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Arsenic, Total	3.8		mg/kg	0.87	0.17	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Barium, Total	160		mg/kg	0.87	0.26	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Beryllium, Total	0.32	J	mg/kg	0.43	0.09	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Cadmium, Total	0.26	J	mg/kg	0.87	0.06	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Calcium, Total	7100		mg/kg	8.7	2.6	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Chromium, Total	19		mg/kg	0.87	0.17	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Cobalt, Total	5.2		mg/kg	1.7	0.43	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Copper, Total	33		mg/kg	0.87	0.17	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Iron, Total	11000		mg/kg	4.3	1.7	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Lead, Total	210		mg/kg	4.3	0.17	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Magnesium, Total	2800		mg/kg	8.7	0.87	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Manganese, Total	200		mg/kg	0.87	0.17	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Mercury, Total	0.87		mg/kg	0.07	0.02	1	02/07/15 06:48	02/10/15 11:53	EPA 7471B	1,7471B	MC
Nickel, Total	18		mg/kg	2.2	0.35	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Potassium, Total	1400		mg/kg	220	35.	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.7	0.26	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.87	0.17	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Sodium, Total	130	J	mg/kg	170	26.	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.7	0.35	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Vanadium, Total	20		mg/kg	0.87	0.09	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH
Zinc, Total	160		mg/kg	4.3	0.61	2	02/09/15 13:55	02/10/15 12:18	EPA 3050B	1,6010C	JH

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID: L1502424-02 Date Collected: 02/06/15 12:55

Client ID: S-3 Date Received: 02/06/15

Sample Location: 566 CARROLL STREET, BROOKLYN, Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6600		mg/kg	9.1	1.8	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.5	0.73	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Arsenic, Total	4.3		mg/kg	0.91	0.18	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Barium, Total	180		mg/kg	0.91	0.27	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Beryllium, Total	0.35	J	mg/kg	0.45	0.09	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Cadmium, Total	0.32	J	mg/kg	0.91	0.06	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Calcium, Total	7100		mg/kg	9.1	2.7	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Chromium, Total	18		mg/kg	0.91	0.18	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Cobalt, Total	5.3		mg/kg	1.8	0.45	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Copper, Total	36		mg/kg	0.91	0.18	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Iron, Total	14000		mg/kg	4.5	1.8	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Lead, Total	260		mg/kg	4.5	0.18	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Magnesium, Total	3200		mg/kg	9.1	0.91	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Manganese, Total	220		mg/kg	0.91	0.18	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Mercury, Total	0.86		mg/kg	0.08	0.02	1	02/07/15 06:48	02/10/15 11:55	EPA 7471B	1,7471B	MC
Nickel, Total	20		mg/kg	2.3	0.36	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Potassium, Total	1100		mg/kg	230	36.	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Selenium, Total	0.40	J	mg/kg	1.8	0.27	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.91	0.18	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Sodium, Total	130	J	mg/kg	180	27.	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Vanadium, Total	20		mg/kg	0.91	0.09	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH
Zinc, Total	180		mg/kg	4.5	0.64	2	02/09/15 13:55	02/10/15 12:22	EPA 3050B	1,6010C	JH

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG761309-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/07/15 06:48	02/10/15 11:38	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG761478-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Antimony, Total	ND		mg/kg	2.0	0.32	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Arsenic, Total	0.12	J	mg/kg	0.40	0.08	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Calcium, Total	ND		mg/kg	4.0	1.2	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Cobalt, Total	ND		mg/kg	0.80	0.20	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Iron, Total	ND		mg/kg	2.0	0.80	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Magnesium, Total	ND		mg/kg	4.0	0.40	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Potassium, Total	ND		mg/kg	100	16.	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Sodium, Total	ND		mg/kg	80	12.	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Thallium, Total	0.16	J	mg/kg	0.80	0.16	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	0.04	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	02/09/15 13:55	02/10/15 11:16	1,6010C	JH

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG761309-2 SRM Lot Number: D083-540								
Mercury, Total	85		-		75-126	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG761478-2 SRM Lot Number: D083-540					
Aluminum, Total	83	-	51-148	-	
Antimony, Total	164	-	1-210	-	
Arsenic, Total	106	-	78-122	-	
Barium, Total	96	-	82-117	-	
Beryllium, Total	103	-	82-118	-	
Cadmium, Total	96	-	82-118	-	
Calcium, Total	96	-	82-118	-	
Chromium, Total	97	-	79-121	-	
Cobalt, Total	100	-	83-117	-	
Copper, Total	104	-	80-120	-	
Iron, Total	93	-	47-153	-	
Lead, Total	91	-	81-119	-	
Magnesium, Total	86	-	75-124	-	
Manganese, Total	102	-	81-119	-	
Nickel, Total	96	-	82-118	-	
Potassium, Total	100	-	70-130	-	
Selenium, Total	102	-	78-123	-	
Silver, Total	102	-	74-125	-	
Sodium, Total	93	-	70-130	-	
Thallium, Total	95	-	78-122	-	
Vanadium, Total	97	-	65-135	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG761478-2 SRM Lot Number: D083-540					
Zinc, Total	97	-	80-121	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG761309-4 QC Sample: L1502352-01 Client ID: MS Sample												
Mercury, Total	0.15	0.155	0.28	84		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG761478-4 QC Sample: L1502172-11 Client ID: MS Sample										
Aluminum, Total	5500	148	6200	**471**	Q	-	-	75-125	-	20
Antimony, Total	ND	37.1	31	84		-	-	75-125	-	20
Arsenic, Total	4.3	8.91	22	**199**	Q	-	-	75-125	-	20
Barium, Total	180	148	330	101		-	-	75-125	-	20
Beryllium, Total	0.24J	3.71	3.5	94		-	-	75-125	-	20
Cadmium, Total	0.40J	3.79	3.8	100		-	-	75-125	-	20
Calcium, Total	1700	742	2000	**40**	Q	-	-	75-125	-	20
Chromium, Total	11.	14.8	25	94		-	-	75-125	-	20
Cobalt, Total	3.0	37.1	36	89		-	-	75-125	-	20
Copper, Total	50.	18.6	70	108		-	-	75-125	-	20
Iron, Total	8500	74.2	8500	**0**	Q	-	-	75-125	-	20
Lead, Total	410	37.9	400	**0**	Q	-	-	75-125	-	20
Magnesium, Total	1100	742	1700	81		-	-	75-125	-	20
Manganese, Total	100	37.1	120	**54**	Q	-	-	75-125	-	20
Nickel, Total	6.7	37.1	38	84		-	-	75-125	-	20
Potassium, Total	440	742	1100	89		-	-	75-125	-	20
Selenium, Total	0.50J	8.91	8.6	96		-	-	75-125	-	20
Silver, Total	0.27J	22.3	20	90		-	-	75-125	-	20
Sodium, Total	62.J	742	760	102		-	-	75-125	-	20
Thallium, Total	ND	8.91	6.6	**74**	Q	-	-	75-125	-	20
Vanadium, Total	13.	37.1	46	89		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG761478-4 QC Sample: L1502172-11 Client ID: MS Sample										
Zinc, Total	180	37.1	200	**54**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG761309-3 QC Sample: L1502352-01 Client ID: DUP Sample						
Mercury, Total	0.15	0.51	mg/kg	**109**	Q	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG761478-3 QC Sample: L1502172-11 Client ID: DUP Sample						
Aluminum, Total	5500	6000	mg/kg	9		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	4.3	4.8	mg/kg	11		20
Barium, Total	180	210	mg/kg	15		20
Beryllium, Total	0.24J	0.26J	mg/kg	NC		20
Cadmium, Total	0.40J	0.30J	mg/kg	NC		20
Calcium, Total	1700	3700	mg/kg	**74**	Q	20
Chromium, Total	11.	12	mg/kg	9		20
Cobalt, Total	3.0	3.3	mg/kg	10		20
Copper, Total	50.	55	mg/kg	10		20
Iron, Total	8500	8900	mg/kg	5		20
Lead, Total	410	490	mg/kg	18		20
Magnesium, Total	1100	1200	mg/kg	9		20
Manganese, Total	100	100	mg/kg	0		20
Nickel, Total	6.7	7.3	mg/kg	9		20
Potassium, Total	440	480	mg/kg	9		20
Selenium, Total	0.50J	0.66J	mg/kg	NC		20
Silver, Total	0.27J	ND	mg/kg	NC		20
Sodium, Total	62.J	86J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG761478-3 QC Sample: L1502172-11 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	13.	13	mg/kg	0	20
Zinc, Total	180	180	mg/kg	0	20

INORGANICS
&
MISCELLANEOUS

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID: L1502424-01
Client ID: S-2
Sample Location: 566 CARROLL STREET, BROOKLYN,
Matrix: Soil

Date Collected: 02/06/15 12:50
Date Received: 02/06/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	02/07/15 03:36	30,2540G	BT

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID: L1502424-02
Client ID: S-3
Sample Location: 566 CARROLL STREET, BROOKLYN,
Matrix: Soil

Date Collected: 02/06/15 12:55
Date Received: 02/06/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	02/07/15 03:36	30,2540G	BT

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG761308-1 QC Sample: L1502477-01 Client ID: DUP Sample						
Solids, Total	82.6	81.9	%	1		20

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1502424-01A	Glass 120ml/4oz unpreserved	A	N/A	2.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1502424-01B	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1502424-02A	Glass 120ml/4oz unpreserved	A	N/A	2.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1502424
Report Date: 02/10/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1502424-02B	Glass 250ml/8oz unpreserved	A	N/A	2.9	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers

Project Name: VACANT LOT **Lab Number:** L1502424

Project Number: 13-0933D **Report Date:** 02/10/15

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: VACANT LOT **Lab Number:** L1502424
Project Number: 13-0933D **Report Date:** 02/10/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Date Rec'd in Lab: 2/7/15

ALPHA Job #: L1502424

Client Information

Client: Airtek Environmental Corp.
Address: 39-37 29th Street
Long Island City, NY 11101
Phone: (718) 937-3720
Fax: (718) 937-3721
Email: cchen@airtekenv.com

Project Information

Project Name: Vacant Lot
Project Location: 566 Carroll Street, Brooklyn, NY
Project #: 13-0933D
(Use Project name as Project #) ☐
Project Manager: Christine Chen
ALPHAQuote #: 2011060

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ 2/9/15 # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☑ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☑ NY Part 375
☐ AWQ Standards ☑ NY CP-51
☑ NY Restricted Use ☐ Other
☑ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Rush for 24-hour TAT!

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SVOCs (Method 8270C)	TAL Metals (Method 6010)	Pesticides (Method 8081A)	Sample Specific Comments	Total # of Bottles
02424001	S-2	2/6/15	1250	S	MR	X	X	X	End-Point Samples	2
002	S-3	2/6/15	1255	S	MR	X	X	X	in front (construction)	2
									section of the site	
Container Type						G	G	G		
Preservative						A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
I/E = Zn Ac/NaOH
J = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	2/6/15 1310	[illegible] (TAL)	2/6/15 1310
[illegible]	2/6/15 1850	[illegible]	2/6/15 1850
[illegible]	2/6/15 [illegible]	[illegible]	[illegible]
	2/7/15 0020		2/7/15 0020

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

APPENDIX 6

DISPOSAL FACILITY APPROVAL LETTER

BAYSHORE
Soil Management, LLC

75 Crows Mill Road, P.O. Box 290
Keasbey, New Jersey 08832
Phone: (732) 738-6000 • Fax: (732) 738-0620
www.bayshorerecycling.com

January 2, 2015

Mr. James Cervino
Restoration & Conservation
9-22 119st College Point
New York, NY 11356

RE: 566 Carroll Street, LLC Site
566 Carroll Street
Brooklyn, NY 11215

Dear Mr. Cervino:

Bayshore Soil Management, LLC (BSM) has reviewed the above referenced project for acceptance. BSM has identified soils within Alpha Analytical Laboratories reports: L1429729 (dated 12/17/2014) and L1430314 (dated 12/23/2014), that meet our acceptance criteria for Urban Fill/Contaminated soil. This decision was based on the submitted generator waste profile and the Alpha Analytical Laboratories Technical Reports which included the Waste Characterization sampling results stemming from site remedial investigation work.

Bayshore Soil Management, LLC can only accept non-hazardous contaminated soil and based on our review of the soil chemistry data, the material is acceptable under the guidelines of our operating permits (NJDEP Facility ID No. 132397, Permit No. CBG110004). The facility is in compliance with all current operating permits.

The approval number issued for this project is **2715-0002** and has presently been approved for up to 450 tons. Materials beyond the initial 450 tons and up to 2,400 tons would require additional analyses for EPH at 1/150 tons, which BSM could collect upon material delivery. Should you have any questions or require further information, please feel free to contact me at 732.738.6000.

Kind Regards,

K. A. Lacerda

Kassandra Lacerda
Compliance Manager

APPENDIX 7

SHIPPING AND DISPOSAL MANIFESTS

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2715-0002
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: E0071559

5. Generator's Name and Mailing Address
568 CARROLL STREET LLC
568 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: D.S.Dm Trucking #147
U.S. EPA ID Number: 2A-744

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
U.S. EPA ID Number: NJ1225001522

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X
Signature: X
Month / Day / Year: 1 / 8 / 2011

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible]
Signature:
Month / Day / Year: 1 / 8 / 2011

Transporter 2 Printed/Typed Name
Signature
Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name
Signature
Month / Day / Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2715-0002
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: E0071560

5. Generator's Name and Mailing Address
555 CARROLL STREET LLC
555 CARROLL STREET
BROOKLYN, NY 10023

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: D.S.L. Trucking, Inc. # 20502PB — U.S. EPA ID Number: 2A-744

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
732-738-5000

U.S. EPA ID Number: NJ1225001922

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS FC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
SSM 2715-2002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X — Signature: X — Month 1 Day 8 Year 2015

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: — Month 1 Day 8 Year 2015
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0071562

5. Generator's Name and Mailing Address
555 CARROLL STREET LLC
555 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name Daly Trucking U.S. EPA ID Number 2A-744

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
78 CROWS MILL ROAD
KEASBEY, NJ 08832
U.S. EPA ID Number NJ1225001522

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS FC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BSM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name NYC Construction Signature Month 1 Day 9 Year 15

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name Ramon Cruz Signature Month 1 Day 9 Year 15

Transporter 2 Printed/Typed Name Signature Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name Signature Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Phil 1 15 16 ME

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0071563

GENERATOR

5. Generator's Name and Mailing Address
555 CARROLL STREET LLC
555 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Distler Trucking Inc — U.S. EPA ID Number: 2A-744

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAYSHORE SOIL MANAGEMENT LLC, 75 CROWS MILL ROAD, KEASBEY, NJ 08832 — U.S. EPA ID Number: NJ1225001522

Facility's Phone: 732-738-8000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS PC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Nyre Castro — Signature: [signature] — Month 1 Day 9 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kamar Poll — Signature: [signature] — Month 1 Day 9 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2715-0002
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: E0071564

5. Generator's Name and Mailing Address
866 CARROLL STREET LLC
866 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Dis. Ln Trucks Inc
U.S. EPA ID Number: 2A-744

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
732-738-6000
U.S. EPA ID Number: NJ1228001622

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
BSM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible]
Signature
Month / Day / Year: 1 / 12 / 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible]
Signature
Month / Day / Year: 1 / 12 / 13

Transporter 2 Printed/Typed Name
Signature
Month / Day / Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month / Day / Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2715-0002
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: E0071561

5. Generator's Name and Mailing Address
555 CARROLL STREET LLC
555 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: D.S. Transport, Inc.
U.S. EPA ID Number: 2A-244

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
U.S. EPA ID Number: NJ1225001522

Facility's Phone: 732-738-8100

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS PC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature: | Month: 1 | Day: 12 | Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] | Signature: | Month: 1 | Day: 12 | Year: 10

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0071573

5. Generator's Name and Mailing Address
555 CARROLL STREET LLC
555 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
752-738-6300

U.S. EPA ID Number NJ1228001522

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
ESM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name — Signature — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0071565

GENERATOR

5. Generator's Name and Mailing Address
588 CARROLL STREET LLC
588 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832

U.S. EPA ID Number
NJ1225001522

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS PC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

PI F 26540 ME

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2715-0002
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: E0071571

5. Generator's Name and Mailing Address
555 CARROLL STREET LLC
555 CARROLL STREET
BROOKLYN, NY 10002

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832

U.S. EPA ID Number
NJ1225001522

Facility's Phone: 732-738-5000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS PC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BSM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name | Signature | Month | Day | Year
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0071572

5. Generator's Name and Mailing Address
555 CARROLL STREET LLC
555 CARROLL STREET
BROOKLYN, NY 10002

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
732-738-8100

U.S. EPA ID Number
NJ1225001522

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
BSM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0071570

GENERATOR

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
566 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Dial Trucking — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
732-738-6000

U.S. EPA ID Number: NJ1225001522

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
SSM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Myo Chang — Signature — Month / Day / Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month / Day / Year

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0071569

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
565 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
732-738-6000

U.S. EPA ID Number NJ1225001532

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
BSM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name — Signature — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0071567

GENERATOR

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
566 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name #363 #36590 ME — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
732-738-6000

U.S. EPA ID Number NJ1225001522

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: NYC — Signature: X — Month / Day / Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month / Day / Year

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0071568

GENERATOR

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
566 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name #363 Dash Trans 36590 ME — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
732-738-6000

U.S. EPA ID Number NJ1226001522

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS PC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature X — Month / Day / Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month / Day / Year

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0071566

GENERATOR

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
566 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832

U.S. EPA ID Number
NJ1225001622

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
BSM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0070918

GENERATOR

5. Generator's Name and Mailing Address
555 CARROLL STREET LLC
555 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROW'S MILL ROAD
KEASBEY, NJ 08832

U.S. EPA ID Number NJ1225001523

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS PC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0070919

GENERATOR

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
566 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name [illegible] TB 63 * 36590 ME — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832

U.S. EPA ID Number NJ1225001522

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS FC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name [illegible] — Signature [illegible] — Month [illegible] Day [illegible] Year [illegible]

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name [illegible] — Signature — Month [illegible] Day [illegible] Year [illegible]

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0070920

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
566 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name *363 *36590 ME U.S. EPA ID Number

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
U.S. EPA ID Number NJ1225001622

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PG SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0070901

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
566 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number 32565 MB

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832

U.S. EPA ID Number NJ1225001522

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS PC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BBM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 7 Day 5 Year 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 7 Day 5 Year 11

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0070905

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
566 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number *36590 ME

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832

U.S. EPA ID Number NJ1225001522

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS PC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 2 Day 6 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 2 Day 6 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2715-0002	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0070902

GENERATOR

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
566 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROW'S MILL ROAD
KEASBEY, NJ 08832

U.S. EPA ID Number
NJ1225001522

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month 2 | Day 2 | Year 1

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month 2 | Day 2 | Year 1

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2715-0002
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: E0070904

5. Generator's Name and Mailing Address
555 CARROLL STREET LLC
555 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: [illegible] 20502 PB
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
U.S. EPA ID Number: NJ1225001922

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS PC SOIL					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BSM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] Signature: [illegible] Month Day Year

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name Signature Month Day Year

2 ✓

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	2715-0002			E0070906

GENERATOR

5. Generator's Name and Mailing Address
566 CARROLL STREET LLC
566 CARROLL STREET
BROOKLYN, NY 10022

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Dinolo Trucking Inc. — U.S. EPA ID Number: 36590ME

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832

U.S. EPA ID Number: NJ1225001622

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-HAZARDOUS PC SOIL					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
BSM 2715-0002

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [signature] — Month 2 Day 6 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Edwin — Signature: [signature] — Month 2 Day 6 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number: 135666

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] — Signature: [signature] — Month 2 Day 6 Year 15

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 426719
Date: 1/8/2015
Time: 09:56:20 - 09:56:23

Customer: RESTORATION & CONSERVATION/BSHD161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 20502PB

Gross: 71420 lb In Scale 1
Tare: 27600 lb P.T.
Net: 43820 lb
CUYDs: .25 License: 20502PB
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071559
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comments:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	21.91	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Eamonn

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 426879
Date: 1/8/2015
Time: 14:01:05 - 14:01:08

Customer: RESTORATION & CONSERVATION/BSHD161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 20502PB

Gross: 73900 lb In Scale 1
Tare: 27600 lb P.T.
Net: 46300 lb
CUYDs: 25 License: 20502PB
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071560
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comments:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	23.15	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 427118
Date: 1/9/2015
Time: 10:29:08 - 10:29:13

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

Scale
Gross: 66680 lb In Scale 2
Tare: 26540 lb P.T.
Net: 40140 lb
CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071562
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	20.07	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Ramiro

Weighmaster: Alex

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 427290
Date: 1/9/2015
Time: 13:48:21 - 13:48:32

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

Scale
Gross: 67540 lb In Scale 1
Tare: 26540 lb P.T.
Net: 41000 lb
CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071563
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	20.50	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Dr[illegible]

Weighmaster: Mark

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 427572
Date: 1/12/2015
Time: 10:06:31 - 10:06:34

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 20502PB

Gross: 73200 lb In Scale 2
Tare: 27600 lb P.T.
Net: 45600 lb
CUYDs: 25 License: 20502PB
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071564
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	22.80	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: Weighmaster:

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 427710
Date: 1/12/2015
Time: 13:03:04 - 13:03:07

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 20502PB

Gross: 79480 lb In Scale 2
Tare: 27600 lb P.T.
Net: 51880 lb
CU Ds: 25 License: 20502PB
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071561
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	25.94	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 427899
Date: 1/13/2015
Time: 09:38:22 - 09:38:25

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

			Scale
Gross:	81580 lb	In	Scale 2
Tare:	26540 lb		P.T.
Net:	55040 lb		

CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071573
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	27.52	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Eamonn

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 428022
Date: 1/13/2015
Time: 13:07:13 - 13:07:17

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

			Scale
Gross:	70840 lb	In	Scale 2
Tare:	26540 lb		P.T.
Net:	44300 lb		

CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071565
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	22.15	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Lance

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 428355
Date: 1/14/2015
Time: 10:49:10 - 10:49:13

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

			Scale
Gross:	71180 lb	In	Scale 1
Tare:	26540 lb		P.T.
Net:	44640 lb		

CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071571
Profile: 2715-0002/566 CARROLL STREET LLC
Remaining: 0.00 TN
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	22.32	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Lance

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 428530
Date: 1/14/2015
Time: 13:33:51 - 13:34:02

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

			Scale
Gross:	72800 lb	In	Scale 2
Tare:	26540 lb		P.T.
Net:	46260 lb		

CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071572
Profile: 2715-0002/566 CARROLL STREET LLC
Remaining: 0.00 TN
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	23.13	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Eamonn

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 428831
Date: 1/15/2015
Time: 09:40:22 - 09:40:27

Customer: RESTORATION & CONSERVATION/BSM0161
9-22-119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

Gross: 75300 lb In Scale Scale 2
Tare: 26540 lb P.T.
Net: 48760 lb
CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071570
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	24.38	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Eamonn

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 429079
Date: 1/15/2015
Time: 13:32:37 - 13:32:42

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

Gross: 76320 lb In Scale Scale 2
Tare: 26540 lb P.T.
Net: 49780 lb
CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071569
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	24.89	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: [illegible]

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 431806
Date: 1/23/2015
Time: 10:10:03 - 10:10:06

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

Gross: 72560 lb In Scale Scale 2
Tare: 26540 lb P.T.
Net: 46020 lb
CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071567
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	23.01	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Eamonn

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 432020
Date: 1/23/2015
Time: 13:24:36 - 13:24:38

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

Gross: 71420 lb In Scale Scale 2
Tare: 26540 lb P.T.
Net: 44880 lb
CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071568
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	22.44	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Eamonn

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 435272
Date: 2/5/2015
Time: 15:12:07 - 15:12:10

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 20502PB

Gross: 73420 lb In Scale 2
Tare: 27600 lb P.T.
Net: 45820 lb
CUYDs: 25 License: 20502PB
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0071566
Profile: 2715-0002/566 CARROLL STREET LLC
Remaining: 0.00 TN
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	22.91	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Eamonn

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 434994
Date: 2/5/2015
Time: 11:06:02 - 11:06:05

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 20502PB

Gross: 71700 lb In Scale 2
Tare: 27600 lb P.T.
Net: 44100 lb
CUYDs: 25 License: 20502PB
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0070918
Profile: 2715-0002/566 CARROLL STREET LLC
Remaining: 0.00 TN
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	22.05	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Eamonn

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 434965
Date: 2/5/2015
Time: 10:37:03 - 10:37:09

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

Gross: 70220 lb In Scale 2
Tare: 26540 lb P.T.
Net: 43680 lb
CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0070919
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	21.84	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Joe S

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 435252
Date: 2/5/2015
Time: 14:41:39 - 14:41:42

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

Gross: 68180 lb In Scale 2
Tare: 26540 lb P.T.
Net: 41640 lb
CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0070920
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	20.82	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Eamonn

Driver: _____ Weighmaster: Joe S

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 435447
Date: 2/6/2015
Time: 09:37:20 - 09:37:31

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 32565MB

Gross: 77860 lb In Scale 1
Tare: 28740 lb P.T.
Net: 49120 lb
CUYDs: 25 License: 32565MB
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0070901
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	24.56	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: Weighmaster: Joe S

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 435527
Date: 2/6/2015
Time: 10:54:54 - 10:55:06

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 36590ME

Gross: 68040 lb In Scale 2
Tare: 26540 lb P.T.
Net: 41500 lb
CUYDs: 25 License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0070905
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	20.75	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Eamonn

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 435655
Date: 2/6/2015
Time: 13:12:18 - 13:12:24

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 32565MB

Gross: 75700 lb In Scale 1
Tare: 28740 lb P.T.
Net: 46960 lb
CUYDs: 25 License: 32565MB
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC
Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Remaining: 0.00 TN

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	23.48	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Joe S

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 435531
Date: 2/6/2015
Time: 10:57:36 - 10:57:39

******** Reprinted Ticket ********

Customer: RESTORATION & CONSERVATION/BSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-
Truck: 20502PB

Gross: 70480 lb In Scale 2
Tare: 27600 lb P.T.
Net: 42880 lb
CUYDs: 25 License: 20502PB
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0070904
Profile: 2715-0002/566 CARROLL STREET LLC
Remaining: 0.00 TN
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	21.44	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____ Weighmaster: Eamonn

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 435666
Date: 2/6/2015
Time: 13:26:22 - 13:28:00

Customer: RESTORATION & CONSERVATION/DSM0161
9-22 119 STREET
COLLEGE POINT, NY 11356-

Truck: 36590ME

Gross: 38600 lb In Scale 2
Tare: 26540 lb P.T.
Net: 12060 lb
CUYDs: 25
License: 36590ME
Truck Type: TRIAXLE

Carrier: DISALVO TRUCKING INC

Manifest: E0070906
Remaining: 0.00 TN

Profile: 2715-0002/566 CARROLL STREET LLC
Generator: 566 CARROLL STREET LLC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	ID27 PCS	6.03	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Lance

APPENDIX 8

DISPOSAL CHARACTERIZATION SAMPLE LABORATORY TESTING RESULTS

ANALYTICAL REPORT

Lab Number:	L1429729
Client:	Airtek Environmental Corp. 39-37 29th Street Long Island City, NY 11101
ATTN:	Christine Chen
Phone:	(718) 937-3720
Project Name:	VACANT LOT
Project Number:	13-0933D
Report Date:	12/17/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1429729-01	S-1	SOIL	566 CARROLL STREET, BROOKLYN, NY	12/10/14 10:55	12/10/14
L1429729-02	S-2	SOIL	566 CARROLL STREET, BROOKLYN, NY	12/10/14 11:15	12/10/14
L1429729-03	S-3	SOIL	566 CARROLL STREET, BROOKLYN, NY	12/10/14 11:15	12/10/14
L1429729-04	S-4	SOIL	566 CARROLL STREET, BROOKLYN, NY	12/10/14 11:20	12/10/14
L1429729-05	S-5	SOIL	566 CARROLL STREET, BROOKLYN, NY	12/10/14 11:20	12/10/14

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	YES
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	NO
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: VACANT LOT **Lab Number:** L1429729
Project Number: 13-0933D **Report Date:** 12/17/14

Case Narrative (continued)

Report Submission
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives
Report Submission
In reference to question 5a:
Reporting limits were not specified.

Semivolatile Organics
In reference to question 4:
WG748479-2 and -3: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

Semivolatile Organics by SIM
In reference to question 4:
WG748480-2 and -3: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

Total Metals
L1429729-01 and -02 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

TCLP Metals
In reference to question 6:
At the client's request, all submitted samples were not analyzed for the full DKQP list of constituents identified in the method specific analyte list presented in the DKQP documents.

Project Name: VACANT LOT **Lab Number:** L1429729
Project Number: 13-0933D **Report Date:** 12/17/14

Case Narrative (continued)

Non-DKQP Related Narratives

Diesel Range Organics

The WG748405-3 Laboratory Duplicate RPD, performed on L1429729-03, is outside the acceptance criteria for DRO (C10-C28) (91%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 12/17/14

ORGANICS

VOLATILES

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	12/15/14 09:41		
Analyst:	BN		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0036	0.00048	1
1,4-Dioxane	ND		mg/kg	0.12	0.017	1
1,2-Dibromoethane	ND		mg/kg	0.0036	0.00021	1
Methylene chloride	ND		mg/kg	0.0060	0.0013	1
1,1-Dichloroethane	ND		mg/kg	0.0018	0.00010	1
Chloroform	ND		mg/kg	0.0018	0.00045	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00025	1
1,2-Dichloropropane	ND		mg/kg	0.0042	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0018	0.00037	1
Tetrachloroethene	ND		mg/kg	0.0012	0.00017	1
Chlorobenzene	ND		mg/kg	0.0012	0.00042	1
Trichlorofluoromethane	ND		mg/kg	0.0060	0.00047	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00014	1
1,1,1-Trichloroethane	ND		mg/kg	0.0012	0.00013	1
Bromodichloromethane	ND		mg/kg	0.0012	0.00021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00014	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00014	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0012	0.00014	1
Bromoform	ND		mg/kg	0.0048	0.00028	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0012	0.00012	1
Benzene	ND		mg/kg	0.0012	0.00014	1
Toluene	ND		mg/kg	0.0018	0.00024	1
Ethylbenzene	ND		mg/kg	0.0012	0.00015	1
Chloromethane	ND		mg/kg	0.0060	0.00036	1
Bromomethane	ND		mg/kg	0.0024	0.00041	1
Vinyl chloride	ND		mg/kg	0.0024	0.00014	1
Chloroethane	ND		mg/kg	0.0024	0.00038	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00032	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0018	0.00026	1

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID: L1429729-01 Date Collected: 12/10/14 10:55

Client ID: S-1 Date Received: 12/10/14

Sample Location: 566 CARROLL STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	0.0012	0.00015	1
1,2-Dichlorobenzene	ND		mg/kg	0.0060	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0060	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0060	0.00017	1
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00010	1
p/m-Xylene	ND		mg/kg	0.0024	0.00024	1
o-Xylene	ND		mg/kg	0.0024	0.00021	1
Xylene (Total)	ND		mg/kg	0.0024	0.00021	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00017	1
1,2-Dichloroethene (total)	ND		mg/kg	0.0012	0.00017	1
Styrene	ND		mg/kg	0.0024	0.00048	1
Dichlorodifluoromethane	ND		mg/kg	0.012	0.00023	1
Acetone	ND		mg/kg	0.043	0.0012	1
Carbon disulfide	ND		mg/kg	0.012	0.0013	1
2-Butanone	ND		mg/kg	0.012	0.00033	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.00029	1
2-Hexanone	ND		mg/kg	0.012	0.00080	1
Bromochloromethane	ND		mg/kg	0.0060	0.00033	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00012	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0060	0.00018	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0060	0.00022	1
Methyl Acetate	ND		mg/kg	0.0048	0.00033	1
Cyclohexane	ND		mg/kg	0.024	0.00018	1
Methyl cyclohexane	ND		mg/kg	0.0048	0.00019	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.024	0.00033	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	94		70-130

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-02	Date Collected:	12/10/14 11:15
Client ID:	S-2	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	12/15/14 10:07		
Analyst:	BN		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.00040	1
1,4-Dioxane	ND		mg/kg	0.10	0.014	1
1,2-Dibromoethane	ND		mg/kg	0.0030	0.00017	1
Methylene chloride	ND		mg/kg	0.0050	0.0011	1
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00008	1
Chloroform	ND		mg/kg	0.0015	0.00037	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00021	1
1,2-Dichloropropane	ND		mg/kg	0.0035	0.00023	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00015	1
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00030	1
Tetrachloroethene	ND		mg/kg	0.0010	0.00014	1
Chlorobenzene	ND		mg/kg	0.0010	0.00035	1
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00039	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00011	1
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00011	1
Bromodichloromethane	ND		mg/kg	0.0010	0.00017	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00012	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00012	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00012	1
Bromoform	ND		mg/kg	0.0040	0.00024	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00010	1
Benzene	ND		mg/kg	0.0010	0.00012	1
Toluene	ND		mg/kg	0.0015	0.00020	1
Ethylbenzene	ND		mg/kg	0.0010	0.00013	1
Chloromethane	ND		mg/kg	0.0050	0.00029	1
Bromomethane	ND		mg/kg	0.0020	0.00034	1
Vinyl chloride	ND		mg/kg	0.0020	0.00012	1
Chloroethane	ND		mg/kg	0.0020	0.00032	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00026	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00021	1

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID: L1429729-02 Date Collected: 12/10/14 11:15

Client ID: S-2 Date Received: 12/10/14

Sample Location: 566 CARROLL STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	0.0010	0.00012	1
1,2-Dichlorobenzene	ND		mg/kg	0.0050	0.00015	1
1,3-Dichlorobenzene	ND		mg/kg	0.0050	0.00014	1
1,4-Dichlorobenzene	ND		mg/kg	0.0050	0.00014	1
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00008	1
p/m-Xylene	ND		mg/kg	0.0020	0.00020	1
o-Xylene	ND		mg/kg	0.0020	0.00017	1
Xylene (Total)	ND		mg/kg	0.0020	0.00017	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00014	1
1,2-Dichloroethene (total)	ND		mg/kg	0.0010	0.00014	1
Styrene	ND		mg/kg	0.0020	0.00040	1
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00019	1
Acetone	ND		mg/kg	0.036	0.0010	1
Carbon disulfide	ND		mg/kg	0.010	0.0011	1
2-Butanone	ND		mg/kg	0.010	0.00027	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.00024	1
2-Hexanone	ND		mg/kg	0.010	0.00067	1
Bromochloromethane	ND		mg/kg	0.0050	0.00028	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00010	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0050	0.00015	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0050	0.00018	1
Methyl Acetate	ND		mg/kg	0.0040	0.00027	1
Cyclohexane	ND		mg/kg	0.020	0.00015	1
Methyl cyclohexane	ND		mg/kg	0.0040	0.00015	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.020	0.00027	1

Tentatively Identified Compounds				
Total TIC Compounds	0.0057	J	mg/kg	1
Unknown Cycloaromatic	0.0057	J	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/15/14 09:15
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG749049-3					
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.00040
1,4-Dioxane	ND		mg/kg	0.10	0.014
1,2-Dibromoethane	ND		mg/kg	0.0030	0.00017
Methylene chloride	ND		mg/kg	0.0050	0.0011
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00008
Chloroform	ND		mg/kg	0.0015	0.00037
Carbon tetrachloride	ND		mg/kg	0.0010	0.00021
1,2-Dichloropropane	ND		mg/kg	0.0035	0.00023
Dibromochloromethane	ND		mg/kg	0.0010	0.00015
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00030
2-Chloroethylvinyl ether	ND		mg/kg	0.020	0.00062
Tetrachloroethene	ND		mg/kg	0.0010	0.00014
Chlorobenzene	ND		mg/kg	0.0010	0.00035
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00039
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00011
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00011
Bromodichloromethane	ND		mg/kg	0.0010	0.00017
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00012
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00012
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00012
1,1-Dichloropropene	ND		mg/kg	0.0050	0.00014
Bromoform	ND		mg/kg	0.0040	0.00024
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00010
Benzene	ND		mg/kg	0.0010	0.00012
Toluene	0.00037	J	mg/kg	0.0015	0.00019
Ethylbenzene	ND		mg/kg	0.0010	0.00013
Chloromethane	ND		mg/kg	0.0050	0.00029
Bromomethane	ND		mg/kg	0.0020	0.00034
Vinyl chloride	ND		mg/kg	0.0020	0.00012

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/15/14 09:15
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG749049-3					
Chloroethane	ND		mg/kg	0.0020	0.00032
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00026
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00021
Trichloroethene	ND		mg/kg	0.0010	0.00012
1,2-Dichlorobenzene	ND		mg/kg	0.0050	0.00015
1,3-Dichlorobenzene	ND		mg/kg	0.0050	0.00014
1,4-Dichlorobenzene	ND		mg/kg	0.0050	0.00014
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00008
p/m-Xylene	ND		mg/kg	0.0020	0.00020
o-Xylene	ND		mg/kg	0.0020	0.00017
Xylene (Total)	ND		mg/kg	0.0020	0.00017
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00014
1,2-Dichloroethene (total)	ND		mg/kg	0.0010	0.00014
Dibromomethane	ND		mg/kg	0.010	0.00016
1,4-Dichlorobutane	ND		mg/kg	0.010	0.00013
1,2,3-Trichloropropane	ND		mg/kg	0.010	0.00016
Styrene	ND		mg/kg	0.0020	0.00040
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00019
Acetone	ND		mg/kg	0.036	0.0010
Carbon disulfide	ND		mg/kg	0.010	0.0011
2-Butanone	ND		mg/kg	0.010	0.00027
Vinyl acetate	ND		mg/kg	0.010	0.00013
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.00024
2-Hexanone	ND		mg/kg	0.010	0.00067
Ethyl methacrylate	ND		mg/kg	0.010	0.00015
Acrolein	ND		mg/kg	0.025	0.0081
Acrylonitrile	ND		mg/kg	0.0040	0.00051
Bromochloromethane	ND		mg/kg	0.0050	0.00028
Tetrahydrofuran	ND		mg/kg	0.020	0.0010

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/15/14 09:15
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG749049-3					
2,2-Dichloropropane	ND		mg/kg	0.0050	0.00023
1,3-Dichloropropane	ND		mg/kg	0.0050	0.00014
1,1,1,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00032
Bromobenzene	ND		mg/kg	0.0050	0.00021
n-Butylbenzene	ND		mg/kg	0.0010	0.00011
sec-Butylbenzene	ND		mg/kg	0.0010	0.00012
tert-Butylbenzene	ND		mg/kg	0.0050	0.00014
o-Chlorotoluene	ND		mg/kg	0.0050	0.00016
p-Chlorotoluene	ND		mg/kg	0.0050	0.00013
Hexachlorobutadiene	ND		mg/kg	0.0050	0.00023
Isopropylbenzene	ND		mg/kg	0.0010	0.00010
p-Isopropyltoluene	ND		mg/kg	0.0010	0.00012
Naphthalene	ND		mg/kg	0.0050	0.00014
n-Propylbenzene	ND		mg/kg	0.0010	0.00011
1,2,3-Trichlorobenzene	ND		mg/kg	0.0050	0.00015
1,2,4-Trichlorobenzene	ND		mg/kg	0.0050	0.00018
1,3,5-Trimethylbenzene	ND		mg/kg	0.0050	0.00014
1,2,4-Trimethylbenzene	ND		mg/kg	0.0050	0.00014
trans-1,4-Dichloro-2-butene	ND		mg/kg	0.0050	0.00039
Ethyl ether	ND		mg/kg	0.0050	0.00026
Methyl Acetate	ND		mg/kg	0.0040	0.00027
Ethyl Acetate	ND		mg/kg	0.020	0.00092
Isopropyl Ether	ND		mg/kg	0.0040	0.00014
Cyclohexane	ND		mg/kg	0.020	0.00015
tert-Butyl Alcohol	ND		mg/kg	0.10	0.0029
Ethyl-Tert-Butyl-Ether	ND		mg/kg	0.0040	0.00012
Tertiary-Amyl Methyl Ether	ND		mg/kg	0.0040	0.00009
Methyl cyclohexane	ND		mg/kg	0.0040	0.00015
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.020	0.00027

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/15/14 09:15
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01-02 Batch: WG749049-3					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG749049-1 WG749049-2								
1,2-Dibromo-3-chloropropane	84		84		40-160	0		30
1,4-Dioxane	95		97		40-160	2		30
1,2-Dibromoethane	101		100		70-130	1		30
Methylene chloride	105		103		70-130	2		30
1,1-Dichloroethane	105		101		70-130	4		30
Chloroform	102		100		70-130	2		30
Carbon tetrachloride	111		106		70-130	5		30
1,2-Dichloropropane	101		100		70-130	1		30
Dibromochloromethane	99		98		70-130	1		30
1,1,2-Trichloroethane	102		101		70-130	1		30
2-Chloroethylvinyl ether	83		86		40-160	3		30
Tetrachloroethene	112		107		70-130	5		30
Chlorobenzene	105		103		70-130	2		30
Trichlorofluoromethane	121		109		40-160	10		30
1,2-Dichloroethane	100		100		70-130	1		30
1,1,1-Trichloroethane	109		105		70-130	4		30
Bromodichloromethane	98		98		70-130	0		30
trans-1,3-Dichloropropene	99		99		70-130	0		30
cis-1,3-Dichloropropene	100		101		40-160	1		30
1,1-Dichloropropene	109		106		70-130	3		30
Bromoform	84		85		40-160	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG749049-1 WG749049-2								
1,1,2,2-Tetrachloroethane	99		98		40-160	1		30
Benzene	104		103		70-130	1		30
Toluene	106		103		70-130	3		30
Ethylbenzene	106		104		70-130	2		30
Chloromethane	109		103		40-160	6		30
Bromomethane	102		98		40-160	4		30
Vinyl chloride	112		101		70-130	10		30
Chloroethane	116		103		40-160	12		30
1,1-Dichloroethene	112		104		70-130	7		30
trans-1,2-Dichloroethene	108		102		70-130	6		30
Trichloroethene	107		105		70-130	2		30
1,2-Dichlorobenzene	104		104		70-130	0		30
1,3-Dichlorobenzene	109		106		70-130	3		30
1,4-Dichlorobenzene	106		106		70-130	0		30
Methyl tert butyl ether	97		98		70-130	1		30
p/m-Xylene	110		107		70-130	3		30
o-Xylene	108		106		70-130	2		30
cis-1,2-Dichloroethene	105		102		70-130	3		30
Dibromomethane	100		101		70-130	1		30
1,4-Dichlorobutane	98		98		70-130	0		30
1,2,3-Trichloropropane	98		98		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG749049-1 WG749049-2								
Styrene	107		106		40-160	1		30
Dichlorodifluoromethane	115		107		40-160	7		30
Acetone	95		91		40-160	5		30
Carbon disulfide	117		106		40-160	10		30
2-Butanone	97		96		40-160	1		30
Vinyl acetate	93		94		70-130	1		30
4-Methyl-2-pentanone	73		77		40-160	5		30
2-Hexanone	70		73		40-160	3		30
Ethyl methacrylate	78		78		70-130	0		30
Acrolein	92		90		40-160	2		30
Acrylonitrile	91		93		70-130	3		30
Bromochloromethane	104		105		70-130	1		30
Tetrahydrofuran	92		88		70-130	5		30
2,2-Dichloropropane	109		104		40-160	5		30
1,3-Dichloropropane	102		101		70-130	1		30
1,1,1,2-Tetrachloroethane	103		103		70-130	0		30
Bromobenzene	103		102		70-130	1		30
n-Butylbenzene	116		112		70-130	4		30
sec-Butylbenzene	113		109		70-130	4		30
tert-Butylbenzene	110		107		70-130	3		30
o-Chlorotoluene	107		105		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG749049-1 WG749049-2								
p-Chlorotoluene	108		106		70-130	2		30
Hexachlorobutadiene	110		108		70-130	2		30
Isopropylbenzene	109		106		70-130	3		30
p-Isopropyltoluene	112		109		70-130	3		30
Naphthalene	98		100		40-160	2		30
n-Propylbenzene	109		106		70-130	3		30
1,2,3-Trichlorobenzene	105		106		70-130	1		30
1,2,4-Trichlorobenzene	109		110		70-130	1		30
1,3,5-Trimethylbenzene	110		108		70-130	2		30
1,2,4-Trimethylbenzene	109		107		70-130	2		30
trans-1,4-Dichloro-2-butene	89		89		70-130	0		30
Ethyl ether	99		98		70-130	1		30
Methyl Acetate	93		95		70-130	1		30
Ethyl Acetate	90		93		70-130	3		30
Isopropyl Ether	99		99		70-130	0		30
Cyclohexane	116		109		70-130	6		30
tert-Butyl Alcohol	87		89		40-160	2		30
Ethyl-Tert-Butyl-Ether	98		99		70-130	1		30
Tertiary-Amyl Methyl Ether	96		99		70-130	3		30
Methyl cyclohexane	115		109		70-130	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	120		110		70-130	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG749049-1 WG749049-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	102		100		70-130

SEMIVOLATILES

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	12/14/14 03:07
Analytical Date:	12/15/14 15:07		
Analyst:	RC		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	0.70		mg/kg	0.15	0.038	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.061	1
Fluoranthene	5.6		mg/kg	0.11	0.034	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.056	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.065	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.056	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.12	1
Naphthalene	0.84		mg/kg	0.19	0.062	1
Bis(2-Ethylhexyl)phthalate	ND		mg/kg	0.19	0.049	1
Butyl benzyl phthalate	0.34		mg/kg	0.19	0.036	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.036	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.046	1
Diethyl phthalate	ND		mg/kg	0.19	0.039	1
Dimethyl phthalate	ND		mg/kg	0.19	0.047	1
Chrysene	2.1		mg/kg	0.11	0.036	1
Acenaphthylene	0.18		mg/kg	0.15	0.035	1
Anthracene	1.3		mg/kg	0.11	0.031	1
Benzo(ghi)perylene	1.0		mg/kg	0.15	0.039	1
Fluorene	0.72		mg/kg	0.19	0.053	1
Phenanthrene	6.0		mg/kg	0.11	0.036	1
Pyrene	4.7		mg/kg	0.11	0.036	1
4-Chloroaniline	ND		mg/kg	0.19	0.049	1
2-Nitroaniline	ND		mg/kg	0.19	0.052	1
3-Nitroaniline	ND		mg/kg	0.19	0.051	1
4-Nitroaniline	ND		mg/kg	0.19	0.050	1
Dibenzofuran	0.49		mg/kg	0.19	0.062	1
2-Methylnaphthalene	0.29		mg/kg	0.22	0.059	1
P-Chloro-M-Cresol	ND		mg/kg	0.19	0.054	1
2-Nitrophenol	ND		mg/kg	0.40	0.058	1
Phenol	ND		mg/kg	0.19	0.055	1

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID: L1429729-01 Date Collected: 12/10/14 10:55

Client ID: S-1 Date Received: 12/10/14

Sample Location: 566 CARROLL STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Methylphenol	ND		mg/kg	0.19	0.060	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.061	1
Carbazole	0.67		mg/kg	0.19	0.040	1
4-Nitrophenol	ND		mg/kg	0.26	0.060	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.043	1
Benzaldehyde	ND		mg/kg	0.24	0.075	1
Caprolactam	ND		mg/kg	0.19	0.051	1
Acetophenone	ND		mg/kg	0.19	0.058	1
Biphenyl	0.082	J	mg/kg	0.42	0.061	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.058	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.050	1

Tentatively Identified Compounds				
Total TIC Compounds	6.9	J	mg/kg	1
Unknown PAH	0.78	J	mg/kg	1
Unknown PAH	0.85	J	mg/kg	1
Unknown	1.4	J	mg/kg	1
Unknown PAH	1.6	J	mg/kg	1
Unknown PAH	0.50	J	mg/kg	1
Unknown PAH	0.22	J	mg/kg	1
Unknown PAH	0.23	J	mg/kg	1
Unknown	0.30	J	mg/kg	1
Unknown	0.25	J	mg/kg	1
Unknown PAH	0.26	J	mg/kg	1
Unknown	0.21	J	mg/kg	1
Unknown	0.32	J	mg/kg	1

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		30-130
Phenol-d6	72		30-130
Nitrobenzene-d5	73		30-130
2-Fluorobiphenyl	85		30-130
2,4,6-Tribromophenol	93		30-130
4-Terphenyl-d14	86		30-130

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D-SIM	Extraction Date:	12/14/14 03:10
Analytical Date:	12/15/14 21:49		
Analyst:	KV		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.048	0.010	1
2-Chlorophenol	ND		mg/kg	0.12	0.010	1
Benzo(a)anthracene	2.3		mg/kg	0.12	0.019	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.048	0.0097	1
Isophorone	ND		mg/kg	0.048	0.012	1
Nitrobenzene	ND		mg/kg	0.048	0.0099	1
2,4-Dichlorophenol	ND		mg/kg	0.048	0.0090	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.024	1
2,4,6-Trichlorophenol	ND		mg/kg	0.048	0.010	1
2,4,5-Trichlorophenol	ND		mg/kg	0.048	0.011	1
2,6-Dinitrotoluene	ND		mg/kg	0.048	0.012	1
2,4-Dinitrophenol	ND		mg/kg	0.071	0.023	1
2,4-Dinitrotoluene	ND		mg/kg	0.048	0.011	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.071	0.016	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		mg/kg	0.048	0.013	1
Atrazine	ND		mg/kg	0.048	0.014	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.048	0.011	1
Benzo(a)pyrene	1.7		mg/kg	0.048	0.015	1
Benzo(b)fluoranthene	1.6		mg/kg	0.048	0.016	1
Benzo(k)fluoranthene	1.4		mg/kg	0.048	0.016	1
Dibenzo(a,h)anthracene	0.18		mg/kg	0.048	0.016	1
Indeno(1,2,3-cd)Pyrene	0.88		mg/kg	0.14	0.021	1
Hexachlorobenzene	ND		mg/kg	0.048	0.011	1
Pentachlorophenol	ND		mg/kg	0.071	0.014	1
Hexachlorobutadiene	ND		mg/kg	0.14	0.010	1
Hexachloroethane	ND		mg/kg	0.048	0.010	1

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		30-130
Phenol-d6	82		30-130
Nitrobenzene-d5	88		30-130
2-Fluorobiphenyl	81		30-130
2,4,6-Tribromophenol	83		30-130
4-Terphenyl-d14	83		30-130

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-02	Date Collected:	12/10/14 11:15
Client ID:	S-2	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	12/14/14 03:07
Analytical Date:	12/15/14 15:32		
Analyst:	RC		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	0.090	J	mg/kg	0.14	0.038	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.059	1
Fluoranthene	1.2		mg/kg	0.11	0.033	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.055	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.064	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.055	1
Hexachlorocyclopentadiene	ND		mg/kg	0.52	0.12	1
Naphthalene	0.078	J	mg/kg	0.18	0.060	1
Bis(2-Ethylhexyl)phthalate	ND		mg/kg	0.18	0.048	1
Butyl benzyl phthalate	0.12	J	mg/kg	0.18	0.036	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.035	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.045	1
Diethyl phthalate	ND		mg/kg	0.18	0.038	1
Dimethyl phthalate	ND		mg/kg	0.18	0.046	1
Chrysene	0.49		mg/kg	0.11	0.036	1
Acenaphthylene	0.042	J	mg/kg	0.14	0.034	1
Anthracene	0.23		mg/kg	0.11	0.030	1
Benzo(ghi)perylene	0.25		mg/kg	0.14	0.038	1
Fluorene	0.097	J	mg/kg	0.18	0.052	1
Phenanthrene	0.96		mg/kg	0.11	0.036	1
Pyrene	1.0		mg/kg	0.11	0.035	1
4-Chloroaniline	ND		mg/kg	0.18	0.048	1
2-Nitroaniline	ND		mg/kg	0.18	0.051	1
3-Nitroaniline	ND		mg/kg	0.18	0.050	1
4-Nitroaniline	ND		mg/kg	0.18	0.049	1
Dibenzofuran	ND		mg/kg	0.18	0.061	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.058	1
P-Chloro-M-Cresol	ND		mg/kg	0.18	0.053	1
2-Nitrophenol	ND		mg/kg	0.39	0.057	1
Phenol	ND		mg/kg	0.18	0.054	1

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID: L1429729-02 Date Collected: 12/10/14 11:15

Client ID: S-2 Date Received: 12/10/14

Sample Location: 566 CARROLL STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Methylphenol	ND		mg/kg	0.18	0.059	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.060	1
Carbazole	0.10	J	mg/kg	0.18	0.039	1
4-Nitrophenol	ND		mg/kg	0.26	0.059	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.042	1
Benzaldehyde	ND		mg/kg	0.24	0.074	1
Caprolactam	ND		mg/kg	0.18	0.050	1
Acetophenone	0.086	J	mg/kg	0.18	0.056	1
Biphenyl	ND		mg/kg	0.42	0.060	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.056	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.049	1

Tentatively Identified Compounds				
Total TIC Compounds	0.38	J	mg/kg	1
Unknown	0.23	J	mg/kg	1
Unknown PAH	0.15	J	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		30-130
Phenol-d6	68		30-130
Nitrobenzene-d5	68		30-130
2-Fluorobiphenyl	78		30-130
2,4,6-Tribromophenol	90		30-130
4-Terphenyl-d14	85		30-130

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-02	Date Collected:	12/10/14 11:15
Client ID:	S-2	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D-SIM	Extraction Date:	12/14/14 03:10
Analytical Date:	12/15/14 22:15		
Analyst:	KV		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.047	0.010	1
2-Chlorophenol	ND		mg/kg	0.12	0.010	1
Benzo(a)anthracene	0.60		mg/kg	0.12	0.019	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.047	0.0096	1
Isophorone	ND		mg/kg	0.047	0.012	1
Nitrobenzene	ND		mg/kg	0.047	0.0097	1
2,4-Dichlorophenol	ND		mg/kg	0.047	0.0088	1
2,4-Dimethylphenol	ND		mg/kg	0.16	0.024	1
2,4,6-Trichlorophenol	ND		mg/kg	0.047	0.0098	1
2,4,5-Trichlorophenol	ND		mg/kg	0.047	0.011	1
2,6-Dinitrotoluene	ND		mg/kg	0.047	0.012	1
2,4-Dinitrophenol	ND		mg/kg	0.070	0.022	1
2,4-Dinitrotoluene	ND		mg/kg	0.047	0.010	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.070	0.016	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		mg/kg	0.047	0.013	1
Atrazine	ND		mg/kg	0.047	0.014	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.047	0.010	1
Benzo(a)pyrene	0.47		mg/kg	0.047	0.015	1
Benzo(b)fluoranthene	0.53		mg/kg	0.047	0.016	1
Benzo(k)fluoranthene	0.41		mg/kg	0.047	0.015	1
Dibenzo(a,h)anthracene	0.066		mg/kg	0.047	0.015	1
Indeno(1,2,3-cd)Pyrene	0.26		mg/kg	0.14	0.020	1
Hexachlorobenzene	ND		mg/kg	0.047	0.011	1
Pentachlorophenol	ND		mg/kg	0.070	0.014	1
Hexachlorobutadiene	ND		mg/kg	0.14	0.0098	1
Hexachloroethane	ND		mg/kg	0.047	0.0098	1

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-02	Date Collected:	12/10/14 11:15
Client ID:	S-2	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		30-130
Phenol-d6	86		30-130
Nitrobenzene-d5	90		30-130
2-Fluorobiphenyl	84		30-130
2,4,6-Tribromophenol	91		30-130
4-Terphenyl-d14	88		30-130

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/15/14 14:43
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 12/14/14 03:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG748479-1					
Acenaphthene	ND		mg/kg	0.13	0.033
Benzidine	ND		mg/kg	0.53	0.13
Azobenzene	ND		mg/kg	0.16	0.043
2-Chloronaphthalene	ND		mg/kg	0.16	0.053
Fluoranthene	ND		mg/kg	0.097	0.030
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.049
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.057
Bis(2-chloroethoxy)methane	ND		mg/kg	0.17	0.049
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.10
Naphthalene	ND		mg/kg	0.16	0.054
Bis(2-Ethylhexyl)phthalate	ND		mg/kg	0.16	0.042
Butyl benzyl phthalate	ND		mg/kg	0.16	0.032
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Di-n-octylphthalate	ND		mg/kg	0.16	0.040
Diethyl phthalate	ND		mg/kg	0.16	0.034
Dimethyl phthalate	ND		mg/kg	0.16	0.041
Chrysene	ND		mg/kg	0.097	0.032
Acenaphthylene	ND		mg/kg	0.13	0.030
Anthracene	ND		mg/kg	0.097	0.027
Benzo(ghi)perylene	ND		mg/kg	0.13	0.034
Fluorene	ND		mg/kg	0.16	0.046
Phenanthrene	ND		mg/kg	0.097	0.032
Pyrene	ND		mg/kg	0.097	0.031
4-Chloroaniline	ND		mg/kg	0.16	0.043
2-Nitroaniline	ND		mg/kg	0.16	0.046
3-Nitroaniline	ND		mg/kg	0.16	0.045
4-Nitroaniline	ND		mg/kg	0.16	0.044
Dibenzofuran	ND		mg/kg	0.16	0.054
2-Methylnaphthalene	ND		mg/kg	0.19	0.052

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/15/14 14:43
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 12/14/14 03:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG748479-1					
P-Chloro-M-Cresol	ND		mg/kg	0.16	0.047
2-Nitrophenol	ND		mg/kg	0.35	0.050
Phenol	ND		mg/kg	0.16	0.048
2-Methylphenol	ND		mg/kg	0.16	0.052
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.053
Carbazole	ND		mg/kg	0.16	0.035
4-Nitrophenol	ND		mg/kg	0.23	0.052
n-Nitrosodimethylamine	ND		mg/kg	0.32	0.052
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.037
Benzaldehyde	ND		mg/kg	0.21	0.065
Caprolactam	ND		mg/kg	0.16	0.045
Acetophenone	ND		mg/kg	0.16	0.050
Biphenyl	ND		mg/kg	0.37	0.053
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.050
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.043

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	mg/kg

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/15/14 14:43
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 12/14/14 03:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG748479-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		30-130
Phenol-d6	62		30-130
Nitrobenzene-d5	57		30-130
2-Fluorobiphenyl	68		30-130
2,4,6-Tribromophenol	76		30-130
4-Terphenyl-d14	84		30-130

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/15/14 15:29
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 12/14/14 03:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG748480-1					
Bis(2-chloroethyl)ether	ND		mg/kg	0.042	0.0090
2-Chlorophenol	ND		mg/kg	0.10	0.0090
Benzo(a)anthracene	ND		mg/kg	0.10	0.016
n-Nitrosodi-n-propylamine	ND		mg/kg	0.042	0.0085
Isophorone	ND		mg/kg	0.042	0.010
Nitrobenzene	ND		mg/kg	0.042	0.0086
2,4-Dichlorophenol	ND		mg/kg	0.042	0.0078
2,4-Dimethylphenol	ND		mg/kg	0.14	0.021
2,4,6-Trichlorophenol	ND		mg/kg	0.042	0.0087
2,4,5-Trichlorophenol	ND		mg/kg	0.042	0.0096
2,6-Dinitrotoluene	ND		mg/kg	0.042	0.010
2,4-Dinitrophenol	ND		mg/kg	0.062	0.020
2,4-Dinitrotoluene	ND		mg/kg	0.042	0.0092
4,6-Dinitro-o-cresol	ND		mg/kg	0.062	0.014
NitrosoDiPhenylAmine(NDPA)/DPA	ND		mg/kg	0.042	0.011
Atrazine	ND		mg/kg	0.042	0.012
3,3'-Dichlorobenzidine	ND		mg/kg	0.042	0.0093
Benzo(a)pyrene	ND		mg/kg	0.042	0.013
Benzo(b)fluoranthene	ND		mg/kg	0.042	0.014
Benzo(k)fluoranthene	ND		mg/kg	0.042	0.014
Dibenzo(a,h)anthracene	ND		mg/kg	0.042	0.014
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.12	0.018
Hexachlorobenzene	ND		mg/kg	0.042	0.0095
Pentachlorophenol	ND		mg/kg	0.062	0.012
Hexachlorobutadiene	ND		mg/kg	0.12	0.0087
Hexachloroethane	ND		mg/kg	0.042	0.0087

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/15/14 15:29
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 12/14/14 03:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG748480-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		30-130
Phenol-d6	72		30-130
Nitrobenzene-d5	69		30-130
2-Fluorobiphenyl	70		30-130
2,4,6-Tribromophenol	82		30-130
4-Terphenyl-d14	95		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG748479-2 WG748479-3								
Acenaphthene	**69**	Q	83		70-130	18		30
Benzidine	**12**	Q	**16**	Q	20-160	29		30
Azobenzene	76		92		70-130	19		30
2-Chloronaphthalene	72		87		70-130	19		30
Fluoranthene	78		95		70-130	20		30
4-Chlorophenyl phenyl ether	71		86		70-130	19		30
Bis(2-chloroisopropyl)ether	**69**	Q	85		70-130	21		30
Bis(2-chloroethoxy)methane	72		86		70-130	18		30
Hexachlorocyclopentadiene	70		87		20-160	22		30
Naphthalene	**66**	Q	81		70-130	20		30
Bis(2-Ethylhexyl)phthalate	78		97		70-130	22		30
Butyl benzyl phthalate	77		98		70-130	24		30
Di-n-butylphthalate	78		99		70-130	24		30
Di-n-octylphthalate	76		94		70-130	21		30
Diethyl phthalate	72		90		70-130	22		30
Dimethyl phthalate	72		87		70-130	19		30
Chrysene	73		87		70-130	18		30
Acenaphthylene	72		87		70-130	19		30
Anthracene	75		92		70-130	20		30
Benzo(ghi)perylene	**67**	Q	83		70-130	21		30
Fluorene	72		86		70-130	18		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG748479-2 WG748479-3								
Phenanthrene	76		92		70-130	19		30
Pyrene	75		93		70-130	21		30
4-Chloroaniline	74		88		20-160	17		30
2-Nitroaniline	81		97		70-130	18		30
3-Nitroaniline	**61**	Q	72		70-130	17		30
4-Nitroaniline	75		94		70-130	22		30
Dibenzofuran	74		89		70-130	18		30
2-Methylnaphthalene	75		91		70-130	19		30
P-Chloro-M-Cresol	83		100		70-130	19		30
2-Nitrophenol	80		98		70-130	20		30
Phenol	73		87		20-160	18		30
2-Methylphenol	79		95		70-130	18		30
3-Methylphenol/4-Methylphenol	82		95		20-160	15		30
Carbazole	81		99		70-130	20		30
4-Nitrophenol	84		104		20-160	21		30
n-Nitrosodimethylamine	66		82		20-160	22		30
4-Bromophenyl phenyl ether	73		88		70-130	19		30
Benzaldehyde	82		99		20-160	19		30
Caprolactam	74		92		20-160	22		30
Acetophenone	79		93		70-130	16		30
Biphenyl	75		92		70-130	20		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG748479-2 WG748479-3								
1,2,4,5-Tetrachlorobenzene	73		89		70-130	20		30
2,3,4,6-Tetrachlorophenol	78		94		70-130	19		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		83		30-130
Phenol-d6	71		85		30-130
Nitrobenzene-d5	70		84		30-130
2-Fluorobiphenyl	71		86		30-130
2,4,6-Tribromophenol	80		100		30-130
4-Terphenyl-d14	73		93		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG748480-2 WG748480-3								
Bis(2-chloroethyl)ether	**53**	Q	**52**	Q	70-130	2		30
2-Chlorophenol	**60**	Q	**62**	Q	70-130	3		30
Benzo(a)anthracene	87		94		70-130	8		30
n-Nitrosodi-n-propylamine	**65**	Q	**68**	Q	70-130	5		30
Isophorone	**64**	Q	**66**	Q	70-130	3		30
Nitrobenzene	**62**	Q	**63**	Q	70-130	2		30
2,4-Dichlorophenol	**64**	Q	**68**	Q	70-130	6		30
2,4-Dimethylphenol	**64**	Q	**69**	Q	70-130	8		30
2,4,6-Trichlorophenol	71		74		70-130	4		30
2,4,5-Trichlorophenol	72		76		70-130	5		30
2,6-Dinitrotoluene	84		86		70-130	2		30
2,4-Dinitrophenol	36		39		20-160	8		30
2,4-Dinitrotoluene	84		89		70-130	6		30
4,6-Dinitro-o-cresol	78		85		70-130	9		30
NitrosoDiPhenylAmine(NDPA)/DPA	78		82		70-130	5		30
Atrazine	108		116		70-130	7		30
3,3'-Dichlorobenzidine	76		80		70-130	5		30
Benzo(a)pyrene	81		87		70-130	7		30
Benzo(b)fluoranthene	84		91		70-130	8		30
Benzo(k)fluoranthene	77		77		70-130	0		30
Dibenzo(a,h)anthracene	**65**	Q	74		70-130	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG748480-2 WG748480-3								
Indeno(1,2,3-cd)Pyrene	**67**	Q	76		70-130	13		30
Hexachlorobenzene	80		86		70-130	7		30
Pentachlorophenol	75		83		20-160	10		30
Hexachlorobutadiene	**56**	Q	**57**	Q	70-130	2		30
Hexachloroethane	46		44		20-160	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		63		30-130
Phenol-d6	69		73		30-130
Nitrobenzene-d5	66		68		30-130
2-Fluorobiphenyl	67		71		30-130
2,4,6-Tribromophenol	85		91		30-130
4-Terphenyl-d14	93		101		30-130

PETROLEUM HYDROCARBONS

Project Name: VACANT LOT
Project Number: 13-0933D
Lab Number: L1429729
Report Date: 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015C(M)	Extraction Date:	12/13/14 16:07
Analytical Date:	12/16/14 19:09		
Analyst:	AR		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	72000		ug/kg	36000	1900	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	103,NJDEP EPH	Extraction Date:	12/16/14 17:16
Analytical Date:	12/17/14 11:41		
Analyst:	AR		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	90.1		mg/kg	25.7	25.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	70		40-140
o-Terphenyl	70		40-140

Project Name: VACANT LOT
Project Number: 13-0933D
Lab Number: L1429729
Report Date: 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-02	Date Collected:	12/10/14 11:15
Client ID:	S-2	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015C(M)	Extraction Date:	12/13/14 16:07
Analytical Date:	12/16/14 17:30		
Analyst:	AR		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	58000		ug/kg	35000	1800	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		40-140

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-02	Date Collected:	12/10/14 11:15
Client ID:	S-2	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	103,NJDEP EPH	Extraction Date:	12/16/14 17:16
Analytical Date:	12/17/14 12:10		
Analyst:	AR		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	80.8		mg/kg	26.4	26.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	76		40-140
o-Terphenyl	76		40-140

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-03	Date Collected:	12/10/14 11:15
Client ID:	S-3	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015C(M)	Extraction Date:	12/13/14 16:07
Analytical Date:	12/16/14 16:20		
Analyst:	AR		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	97000		ug/kg	37000	1900	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		40-140

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-03	Date Collected:	12/10/14 11:15
Client ID:	S-3	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	103,NJDEP EPH	Extraction Date:	12/16/14 17:16
Analytical Date:	12/17/14 12:21		
Analyst:	AR		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	308		mg/kg	27.1	27.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	128		40-140
o-Terphenyl	126		40-140

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 12/15/14 19:57
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 12/13/14 16:07

Parameter	Result	Qualifier	Units	RL	MDL
Diesel Range Organics - Westborough Lab for sample(s): 01-03 Batch: WG748405-1					
DRO (C10-C28)	1800	J	ug/kg	32000	1700

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		40-140

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 103,NJDEP EPH
Analytical Date: 12/17/14 10:44
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 12/16/14 17:16

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 01-03 Batch: WG749149-1					
Total EPH	ND		mg/kg	23.3	23.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	69		40-140
o-Terphenyl	73		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: VACANT LOT

Project Number: 13-0933D

Lab Number: L1429729

Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG748405-2								
DRO (C10-C28)	112		-		60-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	102				40-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-03 Batch: WG749149-2 WG749149-3								
Total EPH	87		74		40-140	16		25
Nonane (C9)	74		58		40-140	24		25
Decane (C10)	78		61		40-140	24		25
Dodecane (C12)	77		61		40-140	23		25
Tetradecane (C14)	79		63		40-140	23		25
Hexadecane (C16)	82		68		40-140	19		25
Octadecane (C18)	84		73		40-140	14		25
Eicosane (C20)	84		73		40-140	14		25
Heneicosane (C21)	85		73		40-140	15		25
Docosane (C22)	84		72		40-140	15		25
Tetracosane (C24)	84		73		40-140	14		25
Hexacosane (C26)	83		72		40-140	14		25
Octacosane (C28)	81		70		40-140	15		25
Triacontane (C30)	81		70		40-140	15		25
Dotriacontane (C32)	80		70		40-140	13		25
Tetratriacontane (C34)	77		68		40-140	12		25
Hexatriacontane (C36)	76		70		40-140	8		25
Octatriacontane (C38)	74		69		40-140	7		25
Tetracontane (C40)	71		68		40-140	4		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-03 Batch: WG749149-2 WG749149-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	77		69		40-140
o-Terphenyl	79		69		40-140

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG749149-4 QC Sample: L1429834-01 Client ID: MS Sample												
Total EPH	41.9	248	227	75		-	-		40-140	-		50
Nonane (C9)	ND	6.88	4.73	69		-	-		40-140	-		50
Decane (C10)	ND	6.88	5.12	74		-	-		40-140	-		50
Dodecane (C12)	ND	6.88	4.88	71		-	-		40-140	-		50
Tetradecane (C14)	ND	6.88	5.09	74		-	-		40-140	-		50
Hexadecane (C16)	ND	6.88	5.28	77		-	-		40-140	-		50
Octadecane (C18)	ND	6.88	5.44	79		-	-		40-140	-		50
Eicosane (C20)	ND	6.88	5.56	81		-	-		40-140	-		50
Heneicosane (C21)	ND	6.88	5.56	81		-	-		40-140	-		50
Docosane (C22)	ND	6.88	5.59	81		-	-		40-140	-		50
Tetracosane (C24)	ND	6.88	5.63	82		-	-		40-140	-		50
Hexacosane (C26)	ND	6.88	5.58	81		-	-		40-140	-		50
Octacosane (C28)	ND	6.88	5.43	79		-	-		40-140	-		50
Triacontane (C30)	ND	6.88	5.45	79		-	-		40-140	-		50
Dotriacontane (C32)	ND	6.88	5.38	78		-	-		40-140	-		50
Tetratriacontane (C34)	ND	6.88	5.06	74		-	-		40-140	-		50
Hexatriacontane (C36)	ND	6.88	5.06	74		-	-		40-140	-		50
Octatriacontane (C38)	ND	6.88	4.71	68		-	-		40-140	-		50
Tetracontane (C40)	ND	6.88	4.64	67		-	-		40-140	-		50

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG749149-4 QC Sample: L1429834-01 Client ID: MS Sample												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Chloro-Octadecane	74				40-140
o-Terphenyl	74				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG748405-3 QC Sample: L1429729-03 Client ID: S-3						
DRO (C10-C28)	97000	260000	ug/kg	**91**	Q	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		88		40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG749149-5 QC Sample: L1429834-01 Client ID: DUP Sample					
Total EPH	41.9	33.0	mg/kg	24	50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	74		69		40-140
o-Terphenyl	74		68		40-140

PCBS

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	12/14/14 05:01
Analytical Date:	12/16/14 16:52	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	12/15/14
Percent Solids:	88%	Cleanup Method:	EPA 3660B
		Cleanup Date:	12/15/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0373	0.00295	1	A
Aroclor 1221	ND		mg/kg	0.0373	0.00344	1	A
Aroclor 1232	ND		mg/kg	0.0373	0.00438	1	A
Aroclor 1242	ND		mg/kg	0.0373	0.00457	1	A
Aroclor 1248	ND		mg/kg	0.0373	0.00315	1	A
Aroclor 1254	ND		mg/kg	0.0373	0.00307	1	A
Aroclor 1260	ND		mg/kg	0.0373	0.00284	1	A
Aroclor 1262	ND		mg/kg	0.0373	0.00185	1	A
Aroclor 1268	ND		mg/kg	0.0373	0.00541	1	A
PCBs, Total	ND		mg/kg	0.0373	0.00185	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-02	Date Collected:	12/10/14 11:15
Client ID:	S-2	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	12/14/14 05:01
Analytical Date:	12/16/14 17:05	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	12/15/14
Percent Solids:	89%	Cleanup Method:	EPA 3660B
		Cleanup Date:	12/15/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0360	0.00284	1	A
Aroclor 1221	ND		mg/kg	0.0360	0.00332	1	A
Aroclor 1232	ND		mg/kg	0.0360	0.00422	1	A
Aroclor 1242	ND		mg/kg	0.0360	0.00440	1	A
Aroclor 1248	ND		mg/kg	0.0360	0.00304	1	A
Aroclor 1254	ND		mg/kg	0.0360	0.00296	1	A
Aroclor 1260	ND		mg/kg	0.0360	0.00274	1	A
Aroclor 1262	ND		mg/kg	0.0360	0.00178	1	A
Aroclor 1268	ND		mg/kg	0.0360	0.00522	1	A
PCBs, Total	ND		mg/kg	0.0360	0.00178	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: VACANT LOT

Project Number: 13-0933D

Lab Number: L1429729

Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/16/14 17:17
Analyst: JT

Extraction Method: EPA 3546
Extraction Date: 12/14/14 05:01
Cleanup Method: EPA 3665A
Cleanup Date: 12/15/14
Cleanup Method: EPA 3660B
Cleanup Date: 12/15/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG748483-1						
Aroclor 1016	ND		mg/kg	0.0315	0.00249	A
Aroclor 1221	ND		mg/kg	0.0315	0.00290	A
Aroclor 1232	ND		mg/kg	0.0315	0.00369	A
Aroclor 1242	ND		mg/kg	0.0315	0.00386	A
Aroclor 1248	ND		mg/kg	0.0315	0.00266	A
Aroclor 1254	ND		mg/kg	0.0315	0.00259	A
Aroclor 1260	ND		mg/kg	0.0315	0.00240	A
Aroclor 1262	ND		mg/kg	0.0315	0.00156	A
Aroclor 1268	ND		mg/kg	0.0315	0.00457	A
PCBs, Total	ND		mg/kg	0.0315	0.00156	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	63		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: VACANT LOT

Project Number: 13-0933D

Lab Number: L1429729

Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG748483-2 WG748483-3									
Aroclor 1016	70		80		40-140	13		30	A
Aroclor 1260	67		68		40-140	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		72		30-150	A
Decachlorobiphenyl	70		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		78		30-150	B
Decachlorobiphenyl	73		77		30-150	B

PESTICIDES

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	12/13/14 01:12
Analytical Date:	12/16/14 00:15	Cleanup Method:	EPA 3620B
Analyst:	TQ	Cleanup Date:	12/13/14
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00173	0.00033	1	A
Lindane	ND		mg/kg	0.00072	0.00032	1	A
Alpha-BHC	ND		mg/kg	0.00072	0.00020	1	A
Beta-BHC	ND		mg/kg	0.00173	0.00065	1	A
Heptachlor	ND		mg/kg	0.00086	0.00038	1	A
Aldrin	0.00126	J	mg/kg	0.00173	0.00061	1	A
Heptachlor epoxide	0.00129	J	mg/kg	0.00325	0.00097	1	A
Endrin	ND		mg/kg	0.00072	0.00029	1	A
Endrin aldehyde	ND		mg/kg	0.00216	0.00075	1	A
Endrin ketone	ND		mg/kg	0.00173	0.00044	1	A
Dieldrin	ND		mg/kg	0.00108	0.00054	1	A
4,4'-DDE	0.0153		mg/kg	0.00173	0.00040	1	A
4,4'-DDD	0.0117	P	mg/kg	0.00173	0.00061	1	B
4,4'-DDT	0.0854		mg/kg	0.00325	0.00139	1	B
Endosulfan I	ND		mg/kg	0.00173	0.00040	1	A
Endosulfan II	ND		mg/kg	0.00173	0.00057	1	A
Endosulfan sulfate	ND		mg/kg	0.00072	0.00034	1	A
Methoxychlor	ND		mg/kg	0.00325	0.00101	1	A
Toxaphene	ND		mg/kg	0.0325	0.00909	1	A
Chlordane	0.0420	PI	mg/kg	0.0141	0.00574	1	A
cis-Chlordane	0.0140		mg/kg	0.00216	0.00060	1	A
trans-Chlordane	0.00845	PI	mg/kg	0.00216	0.00057	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-02	Date Collected:	12/10/14 11:15
Client ID:	S-2	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	12/13/14 01:12
Analytical Date:	12/16/14 00:32	Cleanup Method:	EPA 3620B
Analyst:	TQ	Cleanup Date:	12/13/14
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00176	0.00034	1	A
Lindane	ND		mg/kg	0.00073	0.00032	1	A
Alpha-BHC	ND		mg/kg	0.00073	0.00020	1	A
Beta-BHC	ND		mg/kg	0.00176	0.00066	1	A
Heptachlor	0.00163		mg/kg	0.00087	0.00039	1	A
Aldrin	ND		mg/kg	0.00176	0.00061	1	A
Heptachlor epoxide	ND		mg/kg	0.00329	0.00098	1	A
Endrin	ND		mg/kg	0.00073	0.00030	1	A
Endrin aldehyde	ND		mg/kg	0.00219	0.00076	1	A
Endrin ketone	ND		mg/kg	0.00176	0.00045	1	A
Dieldrin	ND		mg/kg	0.00110	0.00054	1	A
4,4'-DDE	0.00542		mg/kg	0.00176	0.00040	1	A
4,4'-DDD	0.00380		mg/kg	0.00176	0.00062	1	B
4,4'-DDT	0.0218		mg/kg	0.00329	0.00141	1	B
Endosulfan I	ND		mg/kg	0.00176	0.00041	1	A
Endosulfan II	ND		mg/kg	0.00176	0.00058	1	A
Endosulfan sulfate	ND		mg/kg	0.00073	0.00034	1	A
Methoxychlor	ND		mg/kg	0.00329	0.00102	1	A
Toxaphene	ND		mg/kg	0.0329	0.00922	1	A
Chlordane	0.0226	PI	mg/kg	0.0143	0.00582	1	A
cis-Chlordane	0.00506		mg/kg	0.00219	0.00061	1	A
trans-Chlordane	0.00397	PI	mg/kg	0.00219	0.00057	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/13/14 22:46
Analyst: TQ

Extraction Method: EPA 3546
Extraction Date: 12/13/14 01:12
Cleanup Method: EPA 3620B
Cleanup Date: 12/13/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG748291-1						
Delta-BHC	ND		mg/kg	0.00155	0.00030	A
Lindane	ND		mg/kg	0.00064	0.00028	A
Alpha-BHC	ND		mg/kg	0.00064	0.00018	A
Beta-BHC	ND		mg/kg	0.00155	0.00058	A
Heptachlor	ND		mg/kg	0.00077	0.00034	A
Aldrin	ND		mg/kg	0.00155	0.00054	A
Heptachlor epoxide	ND		mg/kg	0.00290	0.00087	A
Endrin	ND		mg/kg	0.00064	0.00026	A
Endrin aldehyde	ND		mg/kg	0.00194	0.00067	A
Endrin ketone	ND		mg/kg	0.00155	0.00039	A
Dieldrin	ND		mg/kg	0.00096	0.00048	A
4,4'-DDE	ND		mg/kg	0.00155	0.00035	A
4,4'-DDD	ND		mg/kg	0.00155	0.00055	A
4,4'-DDT	ND		mg/kg	0.00290	0.00124	A
Endosulfan I	ND		mg/kg	0.00155	0.00036	A
Endosulfan II	ND		mg/kg	0.00155	0.00051	A
Endosulfan sulfate	ND		mg/kg	0.00064	0.00030	A
Methoxychlor	ND		mg/kg	0.00290	0.00090	A
Toxaphene	ND		mg/kg	0.0290	0.00813	A
Chlordane	ND		mg/kg	0.0126	0.00513	A
cis-Chlordane	ND		mg/kg	0.00194	0.00053	A
trans-Chlordane	ND		mg/kg	0.00194	0.00051	A

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/13/14 22:46
Analyst: TQ

Extraction Method: EPA 3546
Extraction Date: 12/13/14 01:12
Cleanup Method: EPA 3620B
Cleanup Date: 12/13/14

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG748291-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	69		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG748291-2 WG748291-3									
Delta-BHC	68		65		40-140	5		30	A
Lindane	83		80		40-140	4		30	A
Alpha-BHC	94		90		40-140	4		30	A
Beta-BHC	101		89		40-140	13		30	A
Heptachlor	78		75		40-140	4		30	A
Aldrin	86		83		40-140	4		30	A
Heptachlor epoxide	82		79		40-140	4		30	A
Endrin	93		89		40-140	4		30	A
Endrin aldehyde	60		66		40-140	10		30	A
Endrin ketone	73		73		40-140	0		30	A
Dieldrin	89		86		40-140	3		30	A
4,4'-DDE	87		83		40-140	5		30	A
4,4'-DDD	82		78		40-140	5		30	A
4,4'-DDT	75		73		40-140	3		30	A
Endosulfan I	81		78		40-140	4		30	A
Endosulfan II	77		75		40-140	3		30	A
Endosulfan sulfate	76		76		40-140	0		30	A
Methoxychlor	83		80		40-140	4		30	A
cis-Chlordane	83		80		40-140	4		30	A
trans-Chlordane	86		83		40-140	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: VACANT LOT

Project Number: 13-0933D

Lab Number: L1429729

Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG748291-2 WG748291-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		77		30-150	A
Decachlorobiphenyl	71		54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		77		30-150	B
Decachlorobiphenyl	73		81		30-150	B

METALS

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID: L1429729-01 Date Collected: 12/10/14 10:55

Client ID: S-1 Date Received: 12/10/14

Sample Location: 566 CARROLL STREET, BROOKLYN, Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6700		mg/kg	8.8	1.8	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Antimony, Total	1.1	J	mg/kg	4.4	0.70	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Arsenic, Total	2.3		mg/kg	0.88	0.18	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Barium, Total	140		mg/kg	0.88	0.26	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Beryllium, Total	0.53		mg/kg	0.44	0.09	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.88	0.06	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Calcium, Total	11000		mg/kg	8.8	2.6	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Chromium, Total	16		mg/kg	0.88	0.18	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Cobalt, Total	6.4		mg/kg	1.8	0.44	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Copper, Total	40		mg/kg	0.88	0.18	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Iron, Total	12000		mg/kg	4.4	1.8	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Lead, Total	180		mg/kg	4.4	0.18	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Magnesium, Total	4400		mg/kg	8.8	0.88	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Manganese, Total	270		mg/kg	0.88	0.18	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Mercury, Total	0.27		mg/kg	0.08	0.02	1	12/13/14 14:05	12/15/14 11:59	EPA 7471B	1,7471B	MC
Nickel, Total	14		mg/kg	2.2	0.35	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Potassium, Total	1000		mg/kg	220	35.	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.8	0.26	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.88	0.18	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Sodium, Total	120	J	mg/kg	180	26.	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.35	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Vanadium, Total	22		mg/kg	0.88	0.09	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH
Zinc, Total	280		mg/kg	4.4	0.61	2	12/16/14 16:14	12/16/14 21:03	EPA 3050B	1,6010C	JH

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

SAMPLE RESULTS

Lab ID: L1429729-02 Date Collected: 12/10/14 11:15

Client ID: S-2 Date Received: 12/10/14

Sample Location: 566 CARROLL STREET, BROOKLYN, Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5600		mg/kg	8.7	1.7	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.4	0.70	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Arsenic, Total	2.5		mg/kg	0.87	0.17	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Barium, Total	80		mg/kg	0.87	0.26	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Beryllium, Total	0.29	J	mg/kg	0.44	0.09	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.87	0.06	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Calcium, Total	9700		mg/kg	8.7	2.6	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Chromium, Total	13		mg/kg	0.87	0.17	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Cobalt, Total	4.6		mg/kg	1.7	0.44	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Copper, Total	20		mg/kg	0.87	0.17	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Iron, Total	11000		mg/kg	4.4	1.7	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Lead, Total	57		mg/kg	4.4	0.17	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Magnesium, Total	2900		mg/kg	8.7	0.87	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Manganese, Total	220		mg/kg	0.87	0.17	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Mercury, Total	0.24		mg/kg	0.07	0.02	1	12/13/14 14:05	12/15/14 12:01	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	2.2	0.35	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Potassium, Total	1000		mg/kg	220	35.	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	1.7	0.26	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.87	0.17	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Sodium, Total	130	J	mg/kg	170	26.	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.7	0.35	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Vanadium, Total	21		mg/kg	0.87	0.09	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH
Zinc, Total	83		mg/kg	4.4	0.61	2	12/16/14 16:14	12/16/14 21:07	EPA 3050B	1,6010C	JH

Project Name:	VACANT LOT	**Lab Number:**	L1429729
Project Number:	13-0933D	**Report Date:**	12/17/14

SAMPLE RESULTS

Lab ID:	L1429729-04	Date Collected:	12/10/14 11:20
Client ID:	S-4	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN,	Field Prep:	Not Specified
Matrix:	Soil	TCLP/SPLP Ext. Date:	12/11/14 10:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab											
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	12/12/14 09:04	12/12/14 14:03	EPA 3015	1,6010C	MG
Barium, TCLP	0.51		mg/l	0.50	0.03	1	12/12/14 09:04	12/12/14 14:03	EPA 3015	1,6010C	MG
Cadmium, TCLP	0.01	J	mg/l	0.10	0.01	1	12/12/14 09:04	12/12/14 14:03	EPA 3015	1,6010C	MG
Chromium, TCLP	ND		mg/l	0.20	0.02	1	12/12/14 09:04	12/12/14 14:03	EPA 3015	1,6010C	MG
Lead, TCLP	0.14	J	mg/l	0.50	0.02	1	12/12/14 09:04	12/12/14 14:03	EPA 3015	1,6010C	MG
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	12/16/14 12:55	12/16/14 19:45	EPA 7470A	1,7470A	AK
Selenium, TCLP	0.04	J	mg/l	0.50	0.03	1	12/12/14 09:04	12/12/14 14:03	EPA 3015	1,6010C	MG
Silver, TCLP	ND		mg/l	0.10	0.02	1	12/12/14 09:04	12/12/14 14:03	EPA 3015	1,6010C	MG

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 04 Batch: WG747976-1										
Arsenic, TCLP	0.07	J	mg/l	1.0	0.02	1	12/12/14 09:04	12/12/14 10:45	1,6010C	MG
Barium, TCLP	ND		mg/l	0.50	0.03	1	12/12/14 09:04	12/12/14 10:45	1,6010C	MG
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	12/12/14 09:04	12/12/14 10:45	1,6010C	MG
Chromium, TCLP	ND		mg/l	0.20	0.02	1	12/12/14 09:04	12/12/14 10:45	1,6010C	MG
Lead, TCLP	ND		mg/l	0.50	0.02	1	12/12/14 09:04	12/12/14 10:45	1,6010C	MG
Selenium, TCLP	0.08	J	mg/l	0.50	0.03	1	12/12/14 09:04	12/12/14 10:45	1,6010C	MG
Silver, TCLP	ND		mg/l	0.10	0.02	1	12/12/14 09:04	12/12/14 10:45	1,6010C	MG

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 12/11/14 10:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG748311-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	12/13/14 14:05	12/15/14 11:46	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 04 Batch: WG749032-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	12/16/14 12:55	12/16/14 19:41	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 12/11/14 10:21

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG749113-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Antimony, Total	ND		mg/kg	2.0	0.32	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Arsenic, Total	0.15	J	mg/kg	0.40	0.08	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Calcium, Total	ND		mg/kg	4.0	1.2	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Cobalt, Total	ND		mg/kg	0.80	0.20	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Iron, Total	ND		mg/kg	2.0	0.80	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Magnesium, Total	ND		mg/kg	4.0	0.40	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Potassium, Total	ND		mg/kg	100	16.	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Sodium, Total	ND		mg/kg	80	12.	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Thallium, Total	ND		mg/kg	0.80	0.16	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	0.04	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	12/16/14 16:14	12/16/14 20:06	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 04 Batch: WG747976-2								
Arsenic, TCLP	100		-		75-125	-		20
Barium, TCLP	95		-		75-125	-		20
Cadmium, TCLP	104		-		75-125	-		20
Chromium, TCLP	95		-		75-125	-		20
Lead, TCLP	98		-		75-125	-		20
Selenium, TCLP	108		-		75-125	-		20
Silver, TCLP	108		-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG748311-2 SRM Lot Number: D083-540								
Mercury, Total	108		-		75-126	-		
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 04 Batch: WG749032-2								
Mercury, TCLP	109		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG749113-2 SRM Lot Number: D083-540					
Aluminum, Total	81	-	51-148	-	
Antimony, Total	164	-	1-210	-	
Arsenic, Total	98	-	78-122	-	
Barium, Total	96	-	82-117	-	
Beryllium, Total	101	-	82-118	-	
Cadmium, Total	95	-	82-118	-	
Calcium, Total	88	-	82-118	-	
Chromium, Total	93	-	79-121	-	
Cobalt, Total	92	-	83-117	-	
Copper, Total	97	-	80-120	-	
Iron, Total	93	-	47-153	-	
Lead, Total	85	-	81-119	-	
Magnesium, Total	79	-	75-124	-	
Manganese, Total	97	-	81-119	-	
Nickel, Total	89	-	82-118	-	
Potassium, Total	96	-	70-130	-	
Selenium, Total	102	-	78-123	-	
Silver, Total	96	-	74-125	-	
Sodium, Total	93	-	70-130	-	
Thallium, Total	86	-	78-122	-	
Vanadium, Total	94	-	65-135	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG749113-2 SRM Lot Number: D083-540					
Zinc, Total	92	-	80-121	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 04 QC Batch ID: WG747976-4 QC Sample: L1429612-01 Client ID: MS Sample												
Arsenic, TCLP	0.03J	1.2	1.2	100		-	-		75-125	-		20
Barium, TCLP	0.42J	20	19	95		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.52	102		-	-		75-125	-		20
Chromium, TCLP	ND	2	1.9	95		-	-		75-125	-		20
Lead, TCLP	ND	5.1	4.9	96		-	-		75-125	-		20
Selenium, TCLP	0.04J	1.2	1.3	108		-	-		75-125	-		20
Silver, TCLP	0.04J	0.5	0.55	110		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG748311-3 WG748311-4 QC Sample: L1429841-104 Client ID: MS Sample												
Mercury, Total	0.11	0.154	0.26	97		0.25	90		80-120	4		20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 04 QC Batch ID: WG749032-4 QC Sample: L1429729-04 Client ID: S-4												
Mercury, TCLP	ND	0.025	0.0253	101		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG749113-4 QC Sample: L1429846-01 Client ID: MS Sample										
Aluminum, Total	10000	177	8100	**0**	Q	-	-	75-125	-	20
Antimony, Total	0.72J	44.3	36	81		-	-	75-125	-	20
Arsenic, Total	6.6	10.6	14	**70**	Q	-	-	75-125	-	20
Barium, Total	75.	177	200	**70**	Q	-	-	75-125	-	20
Beryllium, Total	1.4	4.43	5.1	83		-	-	75-125	-	20
Cadmium, Total	ND	4.52	2.6	**57**	Q	-	-	75-125	-	20
Calcium, Total	9500	887	20000	**1180**	Q	-	-	75-125	-	20
Chromium, Total	22.	17.7	34	**68**	Q	-	-	75-125	-	20
Cobalt, Total	24.	44.3	50	**59**	Q	-	-	75-125	-	20
Copper, Total	190	22.2	260	**316**	Q	-	-	75-125	-	20
Iron, Total	24000	88.7	21000	**0**	Q	-	-	75-125	-	20
Lead, Total	150	45.2	170	**44**	Q	-	-	75-125	-	20
Magnesium, Total	6800	887	5900	**0**	Q	-	-	75-125	-	20
Manganese, Total	570	44.3	450	**0**	Q	-	-	75-125	-	20
Nickel, Total	130	44.3	180	113		-	-	75-125	-	20
Potassium, Total	810	887	1300	**55**	Q	-	-	75-125	-	20
Selenium, Total	1.3J	10.6	11	103		-	-	75-125	-	20
Silver, Total	0.19J	26.6	22	83		-	-	75-125	-	20
Sodium, Total	120J	887	900	101		-	-	75-125	-	20
Thallium, Total	ND	10.6	6.5	**61**	Q	-	-	75-125	-	20
Vanadium, Total	16.	44.3	47	**70**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG749113-4 QC Sample: L1429846-01 Client ID: MS Sample										
Zinc, Total	790	44.3	790	**0**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 04 QC Batch ID: WG747976-3 QC Sample: L1429612-01 Client ID: DUP Sample						
Lead, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 04 QC Batch ID: WG749032-3 QC Sample: L1429729-04 Client ID: S-4						
Mercury, TCLP	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG749113-3 QC Sample: L1429846-01 Client ID: DUP Sample						
Aluminum, Total	10000	8400	mg/kg	17		20
Antimony, Total	0.72J	0.74J	mg/kg	NC		20
Arsenic, Total	6.6	4.5	mg/kg	**38**	Q	20
Barium, Total	75.	88	mg/kg	16		20
Beryllium, Total	1.4	1.7	mg/kg	19		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	9500	11000	mg/kg	15		20
Chromium, Total	22.	23	mg/kg	4		20
Cobalt, Total	24.	23	mg/kg	4		20
Copper, Total	190	260	mg/kg	**31**	Q	20
Iron, Total	24000	22000	mg/kg	9		20
Lead, Total	150	170	mg/kg	13		20
Magnesium, Total	6800	5700	mg/kg	18		20
Manganese, Total	570	500	mg/kg	13		20
Nickel, Total	130	170	mg/kg	**27**	Q	20
Potassium, Total	810	700	mg/kg	15		20
Selenium, Total	1.3J	1.5J	mg/kg	NC		20
Silver, Total	0.19J	0.26J	mg/kg	NC		20
Sodium, Total	120J	150J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG749113-3 QC Sample: L1429846-01 Client ID: DUP Sample						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	16.	14	mg/kg	13		20
Zinc, Total	790	1100	mg/kg	**33**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

SAMPLE RESULTS

Lab ID: L1429729-01
Client ID: S-1
Sample Location: 566 CARROLL STREET, BROOKLYN,
Matrix: Soil

Date Collected: 12/10/14 10:55
Date Received: 12/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	12/11/14 14:47	30,2540G	SG

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

SAMPLE RESULTS

Lab ID: L1429729-02
Client ID: S-2
Sample Location: 566 CARROLL STREET, BROOKLYN,
Matrix: Soil

Date Collected: 12/10/14 11:15
Date Received: 12/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	12/11/14 14:47	30,2540G	SG

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

SAMPLE RESULTS

Lab ID: L1429729-03
Client ID: S-3
Sample Location: 566 CARROLL STREET, BROOKLYN,
Matrix: Soil

Date Collected: 12/10/14 11:15
Date Received: 12/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	12/11/14 14:47	30,2540G	SG

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

SAMPLE RESULTS

Lab ID: L1429729-05
Client ID: S-5
Sample Location: 566 CARROLL STREET, BROOKLYN,
Matrix: Soil

Date Collected: 12/10/14 11:20
Date Received: 12/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Paint Filter Liquid	NEGATIVE		-	0	NA	1	-	12/15/14 18:03	1,9095A	AS

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG747766-1 QC Sample: L1429728-04 Client ID: DUP Sample						
Solids, Total	91.7	92.1	%	0		20

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1429729-01A	5 gram Encore Sampler	A	N/A	3.2	Y	Absent	NJ-8260HLW(2)
L1429729-01B	5 gram Encore Sampler	A	N/A	3.2	Y	Absent	NJ-8260HLW(2)
L1429729-01C	5 gram Encore Sampler	A	N/A	3.2	Y	Absent	NJ-8260HLW(2)
L1429729-01D	Plastic 2oz unpreserved for TS	A	N/A	3.2	Y	Absent	TS(7)
L1429729-01E	Glass 120ml/4oz unpreserved	A	N/A	3.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NJ-8082(14),NJ-8270(14),NJEPH-TPH-CAT1(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TPH-DRO(14),CU-TI(180),NJ-8270SIM-TECH(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1429729-01F	Glass 250ml/8oz unpreserved	A	N/A	3.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NJ-8082(14),NJ-8270(14),NJEPH-TPH-CAT1(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TPH-DRO(14),CU-TI(180),NJ-8270SIM-TECH(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1429729-01G	Glass 250ml/8oz unpreserved	A	N/A	3.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NJ-8082(14),NJ-8270(14),NJEPH-TPH-CAT1(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TPH-DRO(14),CU-TI(180),NJ-8270SIM-TECH(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1429729-01X	Vial MeOH preserved split	A	N/A	3.2	Y	Absent	NJ-8260HLW(14)
L1429729-01Y	Vial Water preserved split	A	N/A	3.2	Y	Absent	NJ-8260HLW(14)
L1429729-01Z	Vial Water preserved split	A	N/A	3.2	Y	Absent	NJ-8260HLW(14)
L1429729-02A	5 gram Encore Sampler	A	N/A	3.2	Y	Absent	NJ-8260HLW(2)
L1429729-02B	5 gram Encore Sampler	A	N/A	3.2	Y	Absent	NJ-8260HLW(2)
L1429729-02C	5 gram Encore Sampler	A	N/A	3.2	Y	Absent	NJ-8260HLW(2)
L1429729-02D	Plastic 2oz unpreserved for TS	A	N/A	3.2	Y	Absent	TS(7)
L1429729-02E	Glass 120ml/4oz unpreserved	A	N/A	3.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NJ-8082(14),NJ-8270(14),NJEPH-TPH-CAT1(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TPH-DRO(14),CU-TI(180),NJ-8270SIM-TECH(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1429729-02F	Glass 250ml/8oz unpreserved	A	N/A	3.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NJ-8082(14),NJ-8270(14),NJEPH-TPH-CAT1(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TPH-DRO(14),CU-TI(180),NJ-8270SIM-TECH(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1429729
Report Date: 12/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1429729-02G	Glass 250ml/8oz unpreserved	A	N/A	3.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NJ-8082(14),NJ-8270(14),NJEPH-TPH-CAT1(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TPH-DRO(14),CU-TI(180),NJ-8270SIM-TECH(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NJ-8081(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1429729-02X	Vial MeOH preserved split	A	N/A	3.2	Y	Absent	NJ-8260HLW(14)
L1429729-02Y	Vial Water preserved split	A	N/A	3.2	Y	Absent	NJ-8260HLW(14)
L1429729-02Z	Vial Water preserved split	A	N/A	3.2	Y	Absent	NJ-8260HLW(14)
L1429729-03A	Glass 250ml/8oz unpreserved	A	N/A	3.2	Y	Absent	NJEPH-TPH-CAT1(14),TPH-DRO(14),TS(7)
L1429729-04A	Glass 120ml/4oz unpreserved	A	N/A	3.2	Y	Absent	-
L1429729-04X	Plastic 120ml HNO3 preserved spl	A	<2	3.2	Y	Absent	CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1429729-04X9	Tumble Vessel	A	N/A	3.2	Y	Absent	-
L1429729-05A	Glass 100ml unpreserved	A	N/A	3.2	Y	Absent	PAINTF()

Container Comments

L1429729-04X

*Values in parentheses indicate holding time in days

Project Name:	VACANT LOT	**Lab Number:**	L1429729
Project Number:	13-0933D	**Report Date:**	12/17/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers

Project Name: VACANT LOT **Lab Number:** L1429729

Project Number: 13-0933D **Report Date:** 12/17/14

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: VACANT LOT **Lab Number:** L1429729
Project Number: 13-0933D **Report Date:** 12/17/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd In Lab: 12-11-14

ALPHA Job #: L1429729

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Airtek Environmental Corp.
Address: 39-37 29th Street
Long Island City, NY 11101
Phone: (718) 937-3720 Ext. 28
Fax: (718) 937-3721
Email: cchen@airtekenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Vacant Lot
Project Location: 566 Carroll Street, Brooklyn, NY
Project #: 13-0933D
Project Manager: Christine Chen
ALPHA Quote #: 2011060

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 12-17-14 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Please also analyze TCLP for any parameter in the samples that exceeds the RCRA 20X Rule.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs with MTBE (by Method 8260B)	SVOCs (by Method 8270C)	Pesticides (by Method 8081A)	PCBs (by Method 8082)	TAL Metals + PP Metals (by Method 6010B)*	~~EPH (by Fractionated Method)~~	TCLP Metals (by Method 6010B)	Paint Filter (by Method 9095)	EPH (by SW-846 Method)	EPH (by NJEPH Cat A)			Sample Specific Comments	TOTAL # BOTTLES
29729-01	S-1	12/10/14	1055	S	MR	X	X	X	X	X	X			X	X				6
02	S-2	12/10/14	1115	S		X	X	X	X	X	X			X	X			CC 12/12/14	6
03	S-3	12/10/14	1115	S							X			X	X				1
04	S-4	12/10.14	1120	S								X							1
05	S-5	12/10/14	1120	S									X						1

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	E	G	G	G	G	G	G	G				
Preservative												

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	12/10/14 14:10	[signature]	12/10/14 1400
[signature]	12/10/14 20:10	Tom Toth	12-10-14 20:10
Tom Toth	~~12-10-14~~ 12-11-14 0052	[signature]	12-11-14 0052

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd In Lab: 12-11-14

ALPHA Job #: L1429729

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Airtek Environmental Corp.
Address: 39-37 29th Street
Long Island City, NY 11101
Phone: (718) 937-3720 Ext. 28
Fax: (718) 937-3721
Email: cchen@airtekenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Vacant Lot
Project Location: 566 Carroll Street, Brooklyn, NY
Project #: 13-0933D
Project Manager: Christine Chen
ALPHA Quote #: 2011060

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 12-17-14 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING
Filtration ☐ Done ☐ Not needed ☐ Lab to do
Preservation ☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs with MTBE (by Method 8260B)	SVOCs (by Method 8270C)	Pesticides (by Method 8081A)	PCBs (by Method 8082)	TAL Metals + PP Metals (by Method 6010B)*	EPH (by Fractionated Method)	TCLP Metals (by Method 6010B)	Paint Filter (by Method 9095)	Sample Specific Comments	TOTAL # BOTTLES
29729-01	S-1	12/10/14	1055	S	MR	X	X	X	X	X	X				6
02	S-2	12/10/14	1115	S		X	X	X	X	X	X				6
03	S-3	12/10/14	1115	S							X				1
04	S-4	12/10.14	1120	S								X			1
05	S-5	12/10/14	1120	S									X		1

Container Type	E	G	G	G	G	G	G	G
Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	12/10/14 14:10	[signature]	12/10/14 1400
[signature]	12/10/14 20:10	Tom Toth	12-10-14 20:10
Tom Toth	~~12-10-14~~ 12-11-14 0052	[signature]	12-11-14 0052

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1430314
Client:	Airtek Environmental Corp. 39-37 29th Street Long Island City, NY 11101
ATTN:	Christine Chen
Phone:	(718) 937-3720
Project Name:	VACANT LOT
Project Number:	13-0933D
Report Date:	12/23/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1430314
Report Date: 12/23/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1430314-01	S-1	SOIL	566 CARROLL STREET, BROOKLYN, NY	12/10/14 10:55	12/10/14

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1430314
Report Date: 12/23/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: VACANT LOT **Lab Number:** L1430314
Project Number: 13-0933D **Report Date:** 12/23/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 12/23/14

ORGANICS

PESTICIDES

Project Name: VACANT LOT **Lab Number:** L1430314

Project Number: 13-0933D **Report Date:** 12/23/14

SAMPLE RESULTS

Lab ID:	L1430314-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	12/23/14 08:27
Analytical Date:	12/23/14 12:00	Cleanup Method:	EPA 3620B
Analyst:	SS	Cleanup Date:	12/23/14

TCLP/SPLP Ext. Date: 12/22/14 11:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1430314
Report Date: 12/23/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/23/14 11:14
Analyst: SS
TCLP Extraction Date: 12/22/14 11:04

Extraction Method: EPA 3510C
Extraction Date: 12/23/14 08:27
Cleanup Method: EPA 3620B
Cleanup Date: 12/23/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG751292-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	100		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1430314
Report Date: 12/23/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG751292-2 WG751292-3									
Lindane	92		119		30-150	**26**	Q	20	A
Heptachlor	92		116		30-150	**24**	Q	20	A
Heptachlor epoxide	93		118		30-150	**23**	Q	20	A
Endrin	104		134		30-150	**25**	Q	20	A
Methoxychlor	103		132		30-150	**25**	Q	20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		108		30-150	A
Decachlorobiphenyl	87		111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		104		30-150	B
Decachlorobiphenyl	80		104		30-150	B

METALS

Project Name:	VACANT LOT	**Lab Number:**	L1430314
Project Number:	13-0933D	**Report Date:**	12/23/14

SAMPLE RESULTS

Lab ID:	L1430314-01	Date Collected:	12/10/14 10:55
Client ID:	S-1	Date Received:	12/10/14
Sample Location:	566 CARROLL STREET, BROOKLYN,	Field Prep:	Not Specified
Matrix:	Soil	TCLP/SPLP Ext. Date:	12/19/14 16:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab											
Lead, TCLP	0.047	J	mg/l	0.050	0.002	1	12/22/14 11:28	12/22/14 15:04	EPA 3015	1,6010C	MG

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1430314
Report Date: 12/23/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG750842-1										
Lead, TCLP	0.03	J	mg/l	0.50	0.02	1	12/22/14 11:28	12/22/14 14:57	1,6010C	MG

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 12/19/14 16:20

Lab Control Sample Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1430314
Report Date: 12/23/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG750842-2								
Lead, TCLP	98		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1430314
Report Date: 12/23/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01 QC Batch ID: WG750842-4 QC Sample: L1430572-06 Client ID: MS Sample												
Lead, TCLP	0.06J	5.1	5.1	100		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1430314
Report Date: 12/23/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01 QC Batch ID: WG750842-3 QC Sample: L1430572-06 Client ID: DUP Sample						
Lead, TCLP	0.06J	0.10J	mg/l	NC		20

Project Name: VACANT LOT
Project Number: 13-0933D

Lab Number: L1430314
Report Date: 12/23/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1430314-01A	Amber 250ml unpreserved	A	N/A	3.2	Y	Absent	-
L1430314-01W	Amber 1000ml unpreserved split	A	N/A	3.2	Y	Absent	PEST-TCLP*(14)
L1430314-01X	Plastic 120ml HNO3 preserved spl	A	<2	3.2	Y	Absent	PB-CI(180)
L1430314-01X9	Tumble Vessel	A	N/A	3.2	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name: VACANT LOT **Lab Number:** L1430314

Project Number: 13-0933D **Report Date:** 12/23/14

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers

Project Name: VACANT LOT **Lab Number:** L1430314

Project Number: 13-0933D **Report Date:** 12/23/14

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: VACANT LOT **Lab Number:** L1430314
Project Number: 13-0933D **Report Date:** 12/23/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

kb 12/19/14 Serial_No:12191415:12

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd In Lab: 12-11-14

ALPHA Job #: L1429729

Client Information

Client: Airtek Environmental Corp.

Address: 39-37 29th Street

Long Island City, NY 11101

Phone: (718) 937-3720 Ext. 28

Fax: (718) 937-3721

Email: cchen@airtekenv.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Vacant Lot

Project Location: 566 Carroll Street, Brooklyn, NY

Project #: 13-0933D

Project Manager: Christine Chen

ALPHA Quote #: 2011060

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 12-17-14 Time: 12/29

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Please also analyze TCLP for any parameter in the samples that exceeds the RCRA 20X Rule.

TCLP Lead and Pesticides

30314

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	~~VOCs with MTBE (by Method 8260B)~~	SVOCs (by Method 8270C)	Pesticides (by Method 8081A)	PCBs (by Method 8082)	~~TAL Metals + PB Metals (by Method 6010B)*~~	~~EPH (by Fractionated Method)~~	TCLP Metals (by Method 6010B)	Paint Filter (by Method 9095)	~~TPH (by SW 846 Method)~~	~~EPH (by NJEPH Cat A)~~			Sample Specific Comments	TOTAL # BOTTLES
29729-01	S-1	12/10/14	1055	S	MR	X	X	X	X	X	X			X	X		X		6
02	S-2	12/10/14	1115	S		X	X	X	X	X	X			X	X			CC 12/12/14	6
03	S-3	12/10/14	1115	S							X			X	X				1
04	S-4	12/10.14	1120	S								X							1
05	S-5	12/10/14	1120	S									X						1
Container Type						E	G	G	G	G	G	G	G						
Preservative																			

SAMPLE HANDLING

Filtration

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	12/10/14 14:10	[signature] ALL	12/10/14 1400
[signature]	12/10/14 20:10	Tom Toth	12-10-14 20:10
Tom Toth	~~12-10-14~~ 12-11-14 0052	[signature]	12-11-14 0052

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

APPENDIX 9

IMPORTED BACKFILL LABORATORY ANALYTICAL DATA REPORTS

Restoration & Conservation *LLC*
& Stonycreek Services

Dr. James M. Cervino
College Point New York
e-mail: jamescervino@gmail.com
Phone: 917-620-5287
HAZMAT OSHA Certified #1805221
OSHA SWPP Certified

Prepared For
NYCC Construction
106-07 Northern Blvd.
Corona Queens NY

566 Carroll Street, Brooklyn NY: NYC VCP
Site Number: 13EHAZ454K

Chemical Characterization Prepared by:
Dr. James M. Cervino
Marine & Environmental Monitor
Restoration LLC
Monitor for:
Stonycreek Services
4001 Daly Blvd.,Oceanside NY January 6th 2014.

Soil Chemical Characterization Report Submittal
Stonycreek DEC Transfer Station Permit Number #1-2820-01606/00001

I have reviewed and analyzed the York Laboratories Client Project ID: Stonycreek Services,York Project (SDG) No.: 14L0368 analytical report of the stock-piles amounting to 5,000 cubic yards from a measured SP. Concrete has been added to the stock-pile as a beneficial reuse recycling & compaction method. These data support and pass the SCOs for VOCs, PCBs, RCRA Metals, Herbicides, and Pesticides cited in Subpart 375 soil criteria (GW, a & b for Residential, and Groundwater Criteria).

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
14L0368-01	S-1 Comp + VOC	Soil	12/09/2014	12/10/2014
14L0368-02	S-2 Comp + VOC	Soil	12/09/2014	12/10/2014
14L0368-03	S-3 Comp + VOC	Soil	12/09/2014	12/10/2014
14L0368-04	S-4 Comp + VOC	Soil	12/09/2014	12/10/2014

Analysis for the identification of petrol contamination, SLAGG, FLY ASH, and Coal Tar

No Fly-ash or petrol contamination was found in the stockpiles at the Stonycreek Services 5,000 yards stockpile. The stockpile material was also free of metal pipes, plastic pipes, and wood and other RUCARBS. We confirm that this material meets the New York State Department of Environmental Conservation Region#1 specification under Sub-Part 375 (b) as common fill or BUD reuse.

Sample Methods

Total N= 5,000 yards

Stockpile 5,000cy measured yards from the original source of First 5,000 yards consisted of 4 random VOC grabs at different depths using an excavator and shovel. VOC grabs consisted of taking a glass jar, which was submerged into a 3 ft test pit of soil (no head space). The 4 composite samples consisted of 10 grabs from this first measured 5,000 yards stockpile section. We will continue to follow the NYSDEC-DER-10 protocols moving forward for good quality control during sample events.

Results: Data suggest that all samples meet the SCOs of the RWP and DER-10 criteria set fourth in NYSDEC Subpart 375 for Residential SCOs, protection of ecological resources, and protection of GW. All results show no exceedances from the first 5,000 yard stock-pile.

Dr. James M. Cervino of Restoration LLC;

If there are any questions feel free to call; (917) 620-5287

Technical Report

prepared for:

Restoration & Conservation Advisement Group
9-22 119th Street
College Point NY, 11356
Attention: Dr. James M. Cervino

Report Date: 12/18/2014
Client Project ID: Stonycreek Services 4001 Daly Blvd Oceanside LI-NY
York Project (SDG) No.: 14L0368

Report Date: 12/18/2014
Client Project ID: Stonycreek Services 4001 Daly Blvd Oceanside LI-NY
York Project (SDG) No.: 14L0368

Restoration & Conservation Advisement Group
9-22 119th Street
College Point NY, 11356
Attention: Dr. James M. Cervino

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 10, 2014 and listed below. The project was identified as your project: **Stonycreek Services 4001 Daly Blvd Oceanside LI-NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
14L0368-01	S-1 Comp + VOC	Soil	12/09/2014	12/10/2014
14L0368-02	S-2 Comp + VOC	Soil	12/09/2014	12/10/2014
14L0368-03	S-3 Comp + VOC	Soil	12/09/2014	12/10/2014
14L0368-04	S-4 Comp + VOC	Soil	12/09/2014	12/10/2014

General Notes for York Project (SDG) No.: 14L0368

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 12/18/2014

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **S-1 Comp + VOC** **York Sample ID:** **14L0368-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Volatile Organics, NYSDEC Part 375 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	230	450	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
78-93-3	2-Butanone	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
67-64-1	Acetone	ND		ug/kg dry	11	23	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
71-43-2	Benzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
67-66-3	Chloroform	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
75-09-2	Methylene chloride	ND		ug/kg dry	11	23	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
95-47-6	o-Xylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	11	23	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
108-88-3	Toluene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	17	34	1	EPA 8260C	12/15/2014 08:19	12/15/2014 18:38	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*108 %*	*76-130*

Sample Information

Client Sample ID: **S-1 Comp + VOC** **York Sample ID:** **14L0368-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Volatile Organics, NYSDEC Part 375 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*108 %*			*85-120*						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
120-12-7	Anthracene	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
56-55-3	**Benzo(a)anthracene**	**336**		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
205-99-2	**Benzo(b)fluoranthene**	**212**	J	ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
207-08-9	**Benzo(k)fluoranthene**	**216**	J	ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
218-01-9	**Chrysene**	**548**		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
206-44-0	**Fluoranthene**	**1240**		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
86-73-7	Fluorene	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
91-20-3	Naphthalene	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
85-01-8	**Phenanthrene**	**926**		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
108-95-2	Phenol	ND		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR
129-00-0	**Pyrene**	**1030**		ug/kg dry	119	236	5	EPA 8270D	12/11/2014 06:51	12/12/2014 20:44	SR

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*68.7 %*		*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*106 %*		*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*99.8 %*		*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*119 %*	S-06	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*9.71 %*	S-06	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*105 %*		*10-123*

Sample Information

Client Sample ID: **S-1 Comp + VOC** **York Sample ID:** **14L0368-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Pesticides, NYSDEC Part 375 Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
72-55-9	**4,4'-DDE**	**9.52**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
50-29-3	**4,4'-DDT**	**12.1**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
309-00-2	Aldrin	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
60-57-1	**Dieldrin**	**14.5**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
72-20-8	Endrin	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
76-44-8	**Heptachlor**	**7.22**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW
5103-71-9	**alpha-Chlordane**	**25.1**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:08	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.5 %*	*30-140*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*60.0 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A	12/11/2014 13:54	12/12/2014 16:45	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A	12/11/2014 13:54	12/12/2014 16:45	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A	12/11/2014 13:54	12/12/2014 16:45	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A	12/11/2014 13:54	12/12/2014 16:45	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A	12/11/2014 13:54	12/12/2014 16:45	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A	12/11/2014 13:54	12/12/2014 16:45	AMC
11096-82-5	**Aroclor 1260**	**0.0818**		mg/kg dry	0.0189	0.0189	1	EPA 8082A	12/11/2014 13:54	12/12/2014 16:45	AMC
1336-36-3	*** Total PCBs**	**0.0818**		mg/kg dry	0.0189	0.0189	1	EPA 8082A	12/11/2014 13:54	12/12/2014 16:45	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.2 %*	*30-140*

Sample Information

Client Sample ID: **S-1 Comp + VOC** **York Sample ID:** **14L0368-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Herbicides, NYSDEC Part 375 Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.7	22.7	1	EPA 8151A m	12/18/2014 13:11	12/18/2014 14:27	JW

	Surrogate Recoveries	Result		Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (D*	*22.0 %*	S-DUP	*30-150*

Metals, RCRA

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**3.59**		mg/kg dry	1.13	1.13	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:25	MW
7440-39-3	**Barium**	**37.6**		mg/kg dry	1.13	1.13	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:25	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.340	0.340	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:25	MW
7440-47-3	**Chromium**	**13.6**		mg/kg dry	0.567	0.567	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:25	MW
7439-92-1	**Lead**	**36.3**		mg/kg dry	0.340	0.340	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:25	MW
7782-49-2	**Selenium**	**1.69**		mg/kg dry	1.13	1.13	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:25	MW
7440-22-4	Silver	ND		mg/kg dry	0.567	0.567	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:25	MW

Mercury by 7473

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0952**		mg/kg dry	0.0340	0.0340	1	EPA 7473	12/12/2014 07:04	12/12/2014 08:57	ALD

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.2**		%	0.100	0.100	1	SM 2540G	12/13/2014 08:09	12/13/2014 11:20	ALD

Sample Information

Client Sample ID: **S-2 Comp + VOC** **York Sample ID:** **14L0368-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Volatile Organics, NYSDEC Part 375 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Information

Client Sample ID: **S-2 Comp + VOC** **York Sample ID:** **14L0368-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	230	450	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
78-93-3	2-Butanone	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
67-64-1	Acetone	ND		ug/kg dry	11	23	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
71-43-2	Benzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
67-66-3	Chloroform	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
75-09-2	Methylene chloride	ND		ug/kg dry	11	23	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
95-47-6	o-Xylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	11	23	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
108-88-3	Toluene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	17	34	1	EPA 8260C	12/15/2014 08:19	12/15/2014 16:25	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*109 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*110 %*	*85-120*

Sample Information

Client Sample ID: **S-2 Comp + VOC** **York Sample ID:** **14L0368-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Semi-Volatiles, NYSDEC Part 375 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**371**		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
120-12-7	**Anthracene**	**356**		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
56-55-3	**Benzo(a)anthracene**	**420**		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
50-32-8	**Benzo(a)pyrene**	**166**	J	ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
205-99-2	**Benzo(b)fluoranthene**	**181**	J	ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
207-08-9	**Benzo(k)fluoranthene**	**205**	J	ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
218-01-9	**Chrysene**	**758**		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
206-44-0	**Fluoranthene**	**2180**		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
86-73-7	**Fluorene**	**282**		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
91-20-3	Naphthalene	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
85-01-8	**Phenanthrene**	**2230**		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
108-95-2	Phenol	ND		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR
129-00-0	**Pyrene**	**1760**		ug/kg dry	118	235	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:16	SR

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*32.5 %*		*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*80.2 %*		*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*81.1 %*		*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*102 %*		*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*%*	S-06	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*82.6 %*		*10-123*

Sample Information

Client Sample ID: **S-2 Comp + VOC** **York Sample ID:** **14L0368-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Pesticides, NYSDEC Part 375 Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
72-55-9	**4,4'-DDE**	**11.2**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
50-29-3	**4,4'-DDT**	**8.81**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
309-00-2	Aldrin	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
60-57-1	**Dieldrin**	**11.7**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
72-20-8	Endrin	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
76-44-8	**Heptachlor**	**8.08**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW
5103-71-9	**alpha-Chlordane**	**26.2**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:23	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.2 %*	*30-140*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*50.5 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0188	0.0188	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:14	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0188	0.0188	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:14	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0188	0.0188	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:14	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0188	0.0188	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:14	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0188	0.0188	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:14	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0188	0.0188	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:14	AMC
11096-82-5	**Aroclor 1260**	**0.0444**		mg/kg dry	0.0188	0.0188	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:14	AMC
1336-36-3	*** Total PCBs**	**0.0444**		mg/kg dry	0.0188	0.0188	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:14	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.3 %*	*30-140*

Sample Information

Client Sample ID: **S-2 Comp + VOC** **York Sample ID:** **14L0368-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Herbicides, NYSDEC Part 375 Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.6	22.6	1	EPA 8151A m	12/18/2014 13:11	12/18/2014 14:40	JW

	Surrogate Recoveries	Result		Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (D*	*16.8 %*	S-DUP	*30-150*

Metals, RCRA

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**4.68**		mg/kg dry	1.13	1.13	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:56	MW
7440-39-3	**Barium**	**52.6**		mg/kg dry	1.13	1.13	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:56	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.339	0.339	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:56	MW
7440-47-3	**Chromium**	**23.2**		mg/kg dry	0.565	0.565	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:56	MW
7439-92-1	**Lead**	**64.7**		mg/kg dry	0.339	0.339	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:56	MW
7782-49-2	**Selenium**	**1.43**		mg/kg dry	1.13	1.13	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:56	MW
7440-22-4	Silver	ND		mg/kg dry	0.565	0.565	1	EPA 6010C	12/11/2014 13:34	12/11/2014 17:56	MW

Mercury by 7473

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0697**		mg/kg dry	0.0339	0.0339	1	EPA 7473	12/12/2014 07:04	12/12/2014 09:06	ALD

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.6**		%	0.100	0.100	1	SM 2540G	12/13/2014 08:09	12/13/2014 11:20	ALD

Sample Information

Client Sample ID: **S-3 Comp + VOC** **York Sample ID:** **14L0368-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Volatile Organics, NYSDEC Part 375 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Information

Client Sample ID: **S-3 Comp + VOC** **York Sample ID:** **14L0368-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	220	450	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
78-93-3	2-Butanone	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
67-64-1	Acetone	ND		ug/kg dry	11	22	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
71-43-2	Benzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
67-66-3	Chloroform	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
75-09-2	Methylene chloride	ND		ug/kg dry	11	22	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
95-47-6	o-Xylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	11	22	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
108-88-3	Toluene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.6	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	17	34	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:10	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*109 %*	*85-120*

Sample Information

Client Sample ID: **S-3 Comp + VOC** **York Sample ID:** **14L0368-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Semi-Volatiles, NYSDEC Part 375 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
120-12-7	**Anthracene**	**241**		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
56-55-3	**Benzo(a)anthracene**	**311**		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
205-99-2	**Benzo(b)fluoranthene**	**170**	J	ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
207-08-9	**Benzo(k)fluoranthene**	**174**	J	ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
218-01-9	**Chrysene**	**599**		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
206-44-0	**Fluoranthene**	**1470**		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
86-73-7	Fluorene	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
91-20-3	Naphthalene	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
85-01-8	**Phenanthrene**	**1000**		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
108-95-2	Phenol	ND		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR
129-00-0	**Pyrene**	**1160**		ug/kg dry	117	234	5	EPA 8270D	12/11/2014 06:51	12/12/2014 21:47	SR

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*35.7 %*		*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*73.7 %*		*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*72.2 %*		*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*89.5 %*		*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*%*	S-06	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*73.9 %*		*10-123*

Sample Information

Client Sample ID: **S-3 Comp + VOC** **York Sample ID:** **14L0368-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Pesticides, NYSDEC Part 375 Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
72-55-9	**4,4'-DDE**	**9.20**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
50-29-3	**4,4'-DDT**	**22.4**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
309-00-2	Aldrin	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
60-57-1	**Dieldrin**	**16.8**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
72-20-8	Endrin	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
76-44-8	**Heptachlor**	**4.31**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW
5103-71-9	**alpha-Chlordane**	**18.7**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:39	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.9 %*	*30-140*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.3 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:43	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:43	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:43	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:43	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:43	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:43	AMC
11096-82-5	**Aroclor 1260**	**0.158**		mg/kg dry	0.0187	0.0187	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:43	AMC
1336-36-3	*** Total PCBs**	**0.158**		mg/kg dry	0.0187	0.0187	1	EPA 8082A	12/11/2014 13:54	12/12/2014 17:43	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.3 %*	*30-140*

Sample Information

Client Sample ID: **S-3 Comp + VOC** **York Sample ID:** **14L0368-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Herbicides, NYSDEC Part 375 Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.4	22.4	1	EPA 8151A m	12/18/2014 13:11	12/18/2014 14:55	JW

	Surrogate Recoveries	Result		Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (D*	*24.4 %*	S-DUP	*30-150*

Metals, RCRA

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**4.64**		mg/kg dry	1.12	1.12	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:01	MW
7440-39-3	**Barium**	**43.5**		mg/kg dry	1.12	1.12	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:01	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.337	0.337	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:01	MW
7440-47-3	**Chromium**	**14.1**		mg/kg dry	0.561	0.561	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:01	MW
7439-92-1	**Lead**	**47.6**		mg/kg dry	0.337	0.337	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:01	MW
7782-49-2	**Selenium**	**1.56**		mg/kg dry	1.12	1.12	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:01	MW
7440-22-4	Silver	ND		mg/kg dry	0.561	0.561	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:01	MW

Mercury by 7473

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.121**		mg/kg dry	0.0337	0.0337	1	EPA 7473	12/12/2014 07:04	12/12/2014 09:15	ALD

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.1**		%	0.100	0.100	1	SM 2540G	12/13/2014 08:09	12/13/2014 11:20	ALD

Sample Information

Client Sample ID: **S-4 Comp + VOC** **York Sample ID:** **14L0368-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Volatile Organics, NYSDEC Part 375 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Information

Client Sample ID: **S-4 Comp + VOC** **York Sample ID:** **14L0368-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	230	460	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
78-93-3	2-Butanone	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
67-64-1	Acetone	ND		ug/kg dry	11	23	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
71-43-2	Benzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
67-66-3	Chloroform	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
75-09-2	Methylene chloride	ND		ug/kg dry	11	23	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
95-47-6	o-Xylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	11	23	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
108-88-3	Toluene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.7	11	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	17	34	1	EPA 8260C	12/15/2014 08:19	12/15/2014 17:54	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*107 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*109 %*	*85-120*

Sample Information

Client Sample ID: **S-4 Comp + VOC** **York Sample ID:** **14L0368-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
120-12-7	Anthracene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
218-01-9	**Chrysene**	**345**		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
206-44-0	**Fluoranthene**	**816**		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
86-73-7	Fluorene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
91-20-3	Naphthalene	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
85-01-8	**Phenanthrene**	**757**		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
108-95-2	Phenol	ND		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR
129-00-0	**Pyrene**	**653**		ug/kg dry	119	237	5	EPA 8270D	12/11/2014 06:51	12/12/2014 22:19	SR

	Surrogate Recoveries	Result	Flag	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*28.1 %*		*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*80.6 %*		*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*84.7 %*		*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*108 %*		*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*%*	S-06	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*85.3 %*		*10-123*

Sample Information

Client Sample ID: **S-4 Comp + VOC** **York Sample ID:** **14L0368-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Pesticides, NYSDEC Part 375 Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
72-55-9	**4,4'-DDE**	**7.99**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
50-29-3	**4,4'-DDT**	**15.0**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
309-00-2	Aldrin	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
60-57-1	**Dieldrin**	**14.8**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
72-20-8	Endrin	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
76-44-8	**Heptachlor**	**2.39**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW
5103-71-9	**alpha-Chlordane**	**21.3**		ug/kg dry	1.65	1.65	5	EPA 8081B	12/11/2014 13:54	12/16/2014 09:54	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.4 %*	*30-140*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*48.6 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A	12/11/2014 13:54	12/12/2014 18:13	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A	12/11/2014 13:54	12/12/2014 18:13	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A	12/11/2014 13:54	12/12/2014 18:13	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A	12/11/2014 13:54	12/12/2014 18:13	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A	12/11/2014 13:54	12/12/2014 18:13	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A	12/11/2014 13:54	12/12/2014 18:13	AMC
11096-82-5	**Aroclor 1260**	**0.103**		mg/kg dry	0.0190	0.0190	1	EPA 8082A	12/11/2014 13:54	12/12/2014 18:13	AMC
1336-36-3	*** Total PCBs**	**0.103**		mg/kg dry	0.0190	0.0190	1	EPA 8082A	12/11/2014 13:54	12/12/2014 18:13	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.1 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*36.3 %*	*30-140*

Sample Information

Client Sample ID: **S-4 Comp + VOC** **York Sample ID:** **14L0368-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
14L0368	Stonycreek Services 4001 Daly Blvd Oceanside LI-NY	Soil	December 9, 2014 3:00 pm	12/10/2014

Herbicides, NYSDEC Part 375 Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.8	22.8	1	EPA 8151A m	12/18/2014 13:11	12/18/2014 15:10	JW

	Surrogate Recoveries	Result		Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (D*	*16.4 %*	S-DUP	*30-150*

Metals, RCRA

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**4.01**		mg/kg dry	1.14	1.14	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:05	MW
7440-39-3	**Barium**	**37.9**		mg/kg dry	1.14	1.14	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:05	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.341	0.341	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:05	MW
7440-47-3	**Chromium**	**13.3**		mg/kg dry	0.569	0.569	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:05	MW
7439-92-1	**Lead**	**31.9**		mg/kg dry	0.341	0.341	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:05	MW
7782-49-2	Selenium	ND		mg/kg dry	1.14	1.14	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:05	MW
7440-22-4	Silver	ND		mg/kg dry	0.569	0.569	1	EPA 6010C	12/11/2014 13:34	12/11/2014 18:05	MW

Mercury by 7473

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0846**		mg/kg dry	0.0341	0.0341	1	EPA 7473	12/12/2014 07:04	12/12/2014 09:24	ALD

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.9**		%	0.100	0.100	1	SM 2540G	12/13/2014 08:09	12/13/2014 11:20	ALD

Analytical Batch Summary

Batch ID: BL40590 **Preparation Method:** EPA 3550C **Prepared By:** TB

YORK Sample ID	Client Sample ID	Preparation Date
14L0368-01	S-1 Comp + VOC	12/11/14
14L0368-02	S-2 Comp + VOC	12/11/14
14L0368-03	S-3 Comp + VOC	12/11/14
14L0368-04	S-4 Comp + VOC	12/11/14
BL40590-BS1	LCS	12/11/14
BL40590-BSD1	LCS Dup	12/11/14

Batch ID: BL40616 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
14L0368-01	S-1 Comp + VOC	12/11/14
14L0368-02	S-2 Comp + VOC	12/11/14
14L0368-03	S-3 Comp + VOC	12/11/14
14L0368-04	S-4 Comp + VOC	12/11/14
BL40616-BLK1	Blank	12/11/14
BL40616-DUP1	Duplicate	12/11/14
BL40616-MS1	Matrix Spike	12/11/14
BL40616-SRM1	Reference	12/11/14

Batch ID: BL40623 **Preparation Method:** EPA 3550C **Prepared By:** SA

YORK Sample ID	Client Sample ID	Preparation Date
14L0368-01	S-1 Comp + VOC	12/11/14
14L0368-01	S-1 Comp + VOC	12/11/14
14L0368-02	S-2 Comp + VOC	12/11/14
14L0368-02	S-2 Comp + VOC	12/11/14
14L0368-03	S-3 Comp + VOC	12/11/14
14L0368-03	S-3 Comp + VOC	12/11/14
14L0368-04	S-4 Comp + VOC	12/11/14
14L0368-04	S-4 Comp + VOC	12/11/14
BL40623-BLK1	Blank	12/11/14
BL40623-BLK1	Blank	12/11/14
BL40623-BS1	LCS	12/11/14
BL40623-BS2	LCS	12/11/14
BL40623-BSD1	LCS Dup	12/11/14
BL40623-BSD2	LCS Dup	12/11/14

Batch ID: BL40650 **Preparation Method:** EPA 7473 soil **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
14L0368-01	S-1 Comp + VOC	12/12/14
14L0368-02	S-2 Comp + VOC	12/12/14
14L0368-03	S-3 Comp + VOC	12/12/14
14L0368-04	S-4 Comp + VOC	12/12/14

BL40650-BLK1	Blank	12/12/14
BL40650-SRM1	Reference	12/12/14

Batch ID: BL40720 **Preparation Method:** % Solids Prep **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
14L0368-01	S-1 Comp + VOC	12/13/14
14L0368-02	S-2 Comp + VOC	12/13/14
14L0368-03	S-3 Comp + VOC	12/13/14
14L0368-04	S-4 Comp + VOC	12/13/14

Batch ID: BL40777 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
14L0368-01	S-1 Comp + VOC	12/15/14
14L0368-02	S-2 Comp + VOC	12/15/14
14L0368-03	S-3 Comp + VOC	12/15/14
14L0368-04	S-4 Comp + VOC	12/15/14
BL40777-BLK1	Blank	12/15/14
BL40777-BS1	LCS	12/15/14
BL40777-BSD1	LCS Dup	12/15/14
BL40777-DUP1	Duplicate	12/15/14
BL40777-MS1	Matrix Spike	12/15/14

Batch ID: BL40961 **Preparation Method:** EPA 3550B/8151A **Prepared By:** CM

YORK Sample ID	Client Sample ID	Preparation Date
14L0368-01	S-1 Comp + VOC	12/18/14
14L0368-02	S-2 Comp + VOC	12/18/14
14L0368-03	S-3 Comp + VOC	12/18/14
14L0368-04	S-4 Comp + VOC	12/18/14
BL40961-BLK1	Blank	12/18/14
BL40961-BS1	LCS	12/18/14
BL40961-BSD1	LCS Dup	12/18/14

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40777 - EPA 5035A											
Blank (BL40777-BLK1)								Prepared & Analyzed: 12/15/2014			
1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: 1,2-Dichloroethane-d4	*52.0*		*ug/L*	*50.0*		*104*	*77-125*				
Surrogate: p-Bromofluorobenzene	*47.7*		*"*	*50.0*		*95.3*	*76-130*				
Surrogate: Toluene-d8	*53.1*		*"*	*50.0*		*106*	*85-120*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40777 - EPA 5035A											
LCS (BL40777-BS1)							Prepared & Analyzed: 12/15/2014				
1,1,1-Trichloroethane	51		ug/L	50.0		103	71-137				
1,1-Dichloroethane	49		"	50.0		98.3	75-130				
1,1-Dichloroethylene	48		"	50.0		96.9	64-137				
1,2,4-Trimethylbenzene	58		"	50.0		117	84-125				
1,2-Dichlorobenzene	59		"	50.0		118	85-122				
1,2-Dichloroethane	51		"	50.0		103	71-133				
1,3,5-Trimethylbenzene	58		"	50.0		115	82-126				
1,3-Dichlorobenzene	58		"	50.0		117	84-124				
1,4-Dichlorobenzene	58		"	50.0		116	84-124				
1,4-Dioxane	1300		"	1000		129	10-228				
2-Butanone	85		"	50.0		170	58-147	High Bias			
Acetone	62		"	50.0		124	36-155				
Benzene	48		"	50.0		95.1	77-127				
Carbon tetrachloride	50		"	50.0		101	66-143				
Chlorobenzene	56		"	50.0		112	86-120				
Chloroform	50		"	50.0		99.5	76-131				
cis-1,2-Dichloroethylene	46		"	50.0		91.3	74-132				
Ethyl Benzene	54		"	50.0		108	84-125				
Methyl tert-butyl ether (MTBE)	51		"	50.0		102	74-131				
Methylene chloride	48		"	50.0		95.5	57-141				
n-Butylbenzene	57		"	50.0		114	80-130				
n-Propylbenzene	58		"	50.0		116	74-136				
o-Xylene	57		"	50.0		114	83-123				
p- & m- Xylenes	110		"	100		109	82-128				
sec-Butylbenzene	58		"	50.0		115	83-125				
tert-Butylbenzene	58		"	50.0		115	80-127				
Tetrachloroethylene	56		"	50.0		112	80-129				
Toluene	57		"	50.0		113	85-121				
trans-1,2-Dichloroethylene	48		"	50.0		96.3	72-132				
Trichloroethylene	56		"	50.0		112	84-123				
Vinyl Chloride	46		"	50.0		91.3	52-130				
Surrogate: 1,2-Dichloroethane-d4	*51.2*		*"*	*50.0*		*102*	*77-125*				
Surrogate: p-Bromofluorobenzene	*51.2*		*"*	*50.0*		*102*	*76-130*				
Surrogate: Toluene-d8	*53.2*		*"*	*50.0*		*106*	*85-120*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40777 - EPA 5035A											
LCS Dup (BL40777-BSD1)							Prepared & Analyzed: 12/15/2014				
1,1,1-Trichloroethane	50		ug/L	50.0		99.8	71-137		2.77	30	
1,1-Dichloroethane	47		"	50.0		94.9	75-130		3.46	30	
1,1-Dichloroethylene	48		"	50.0		96.0	64-137		1.02	30	
1,2,4-Trimethylbenzene	60		"	50.0		120	84-125		3.08	30	
1,2-Dichlorobenzene	59		"	50.0		118	85-122		0.559	30	
1,2-Dichloroethane	49		"	50.0		98.9	71-133		3.85	30	
1,3,5-Trimethylbenzene	55		"	50.0		110	82-126		4.30	30	
1,3-Dichlorobenzene	59		"	50.0		119	84-124		1.97	30	
1,4-Dichlorobenzene	59		"	50.0		118	84-124		1.88	30	
1,4-Dioxane	1200		"	1000		118	10-228		8.58	30	
2-Butanone	68		"	50.0		137	58-147		21.6	30	
Acetone	49		"	50.0		98.1	36-155		23.2	30	
Benzene	47		"	50.0		93.3	77-127		1.87	30	
Carbon tetrachloride	50		"	50.0		100	66-143		0.995	30	
Chlorobenzene	55		"	50.0		109	86-120		2.48	30	
Chloroform	47		"	50.0		93.7	76-131		5.99	30	
cis-1,2-Dichloroethylene	44		"	50.0		87.0	74-132		4.82	30	
Ethyl Benzene	55		"	50.0		109	84-125		0.809	30	
Methyl tert-butyl ether (MTBE)	48		"	50.0		96.7	74-131		5.69	30	
Methylene chloride	47		"	50.0		93.4	57-141		2.22	30	
n-Butylbenzene	58		"	50.0		117	80-130		2.70	30	
n-Propylbenzene	60		"	50.0		121	74-136		4.00	30	
o-Xylene	54		"	50.0		108	83-123		5.14	30	
p- & m- Xylenes	110		"	100		106	82-128		2.39	30	
sec-Butylbenzene	59		"	50.0		119	83-125		3.04	30	
tert-Butylbenzene	58		"	50.0		115	80-127		0.226	30	
Tetrachloroethylene	55		"	50.0		111	80-129		0.898	30	
Toluene	54		"	50.0		109	85-121		3.94	30	
trans-1,2-Dichloroethylene	48		"	50.0		95.0	72-132		1.38	30	
Trichloroethylene	55		"	50.0		111	84-123		1.60	30	
Vinyl Chloride	44		"	50.0		88.3	52-130		3.39	30	
Surrogate: 1,2-Dichloroethane-d4	*48.9*		*"*	*50.0*		*97.9*	*77-125*				
Surrogate: p-Bromofluorobenzene	*51.0*		*"*	*50.0*		*102*	*76-130*				
Surrogate: Toluene-d8	*52.4*		*"*	*50.0*		*105*	*85-120*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40777 - EPA 5035A											
Duplicate (BL40777-DUP1)	*Source sample: 14L0368-01 (S-1 Comp + VOC)							Prepared & Analyzed: 12/15/2014			
1,1,1-Trichloroethane	ND	11	ug/kg dry		ND					200	
1,1-Dichloroethane	ND	11	"		ND					200	
1,1-Dichloroethylene	ND	11	"		ND					200	
1,2,4-Trimethylbenzene	ND	11	"		ND					200	
1,2-Dichlorobenzene	ND	11	"		ND					200	
1,2-Dichloroethane	ND	11	"		ND					200	
1,3,5-Trimethylbenzene	ND	11	"		ND					200	
1,3-Dichlorobenzene	ND	11	"		ND					200	
1,4-Dichlorobenzene	ND	11	"		ND					200	
1,4-Dioxane	ND	230	"		ND					200	
2-Butanone	ND	11	"		ND					200	
Acetone	ND	23	"		ND					200	
Benzene	ND	11	"		ND					200	
Carbon tetrachloride	ND	11	"		ND					200	
Chlorobenzene	ND	11	"		ND					200	
Chloroform	ND	11	"		ND					200	
cis-1,2-Dichloroethylene	ND	11	"		ND					200	
Ethyl Benzene	ND	11	"		ND					200	
Methyl tert-butyl ether (MTBE)	ND	11	"		ND					200	
Methylene chloride	ND	23	"		ND					200	
n-Butylbenzene	ND	11	"		ND					200	
n-Propylbenzene	ND	11	"		ND					200	
o-Xylene	ND	11	"		ND					200	
p- & m- Xylenes	ND	23	"		ND					200	
sec-Butylbenzene	ND	11	"		ND					200	
tert-Butylbenzene	ND	11	"		ND					200	
Tetrachloroethylene	ND	11	"		ND					200	
Toluene	ND	11	"		ND					200	
trans-1,2-Dichloroethylene	ND	11	"		ND					200	
Trichloroethylene	ND	11	"		ND					200	
Vinyl Chloride	ND	11	"		ND					200	
Xylenes, Total	ND	34	"		ND					200	
Surrogate: 1,2-Dichloroethane-d4	*48.7*		*ug/L*	*50.0*		*97.3*	*77-125*				
Surrogate: p-Bromofluorobenzene	*50.8*		*"*	*50.0*		*102*	*76-130*				
Surrogate: Toluene-d8	*60.6*		*"*	*50.0*		*121*	*85-120*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40777 - EPA 5035A											
Matrix Spike (BL40777-MS1)	*Source sample: 14L0368-01 (S-1 Comp + VOC)						Prepared & Analyzed: 12/15/2014				
1,1,1-Trichloroethane	45		ug/L	50.0	ND	89.3	42-145				
1,1-Dichloroethane	45		"	50.0	ND	89.7	46-142				
1,1-Dichloroethylene	46		"	50.0	ND	92.6	30-153				
1,2,4-Trimethylbenzene	45		"	50.0	ND	89.2	10-170				
1,2-Dichlorobenzene	42		"	50.0	ND	84.0	10-147				
1,2-Dichloroethane	44		"	50.0	ND	88.3	48-133				
1,3,5-Trimethylbenzene	43		"	50.0	ND	86.9	10-150				
1,3-Dichlorobenzene	42		"	50.0	ND	83.3	10-144				
1,4-Dichlorobenzene	41		"	50.0	ND	82.9	10-160				
1,4-Dioxane	1200		"	1000	ND	116	10-191				
2-Butanone	91		"	50.0	ND	181	10-189				
Acetone	71		"	50.0	ND	142	10-196				
Benzene	42		"	50.0	ND	83.9	43-139				
Carbon tetrachloride	42		"	50.0	ND	83.9	35-145				
Chlorobenzene	46		"	50.0	ND	91.2	21-154				
Chloroform	45		"	50.0	ND	90.7	47-142				
cis-1,2-Dichloroethylene	41		"	50.0	ND	82.2	42-144				
Ethyl Benzene	43		"	50.0	ND	86.2	11-158				
Methyl tert-butyl ether (MTBE)	47		"	50.0	ND	94.8	42-152				
Methylene chloride	45		"	50.0	1.4	87.3	28-151				
n-Butylbenzene	34		"	50.0	ND	67.8	10-162				
n-Propylbenzene	45		"	50.0	ND	90.3	10-155				
o-Xylene	43		"	50.0	ND	85.8	10-158				
p- & m- Xylenes	84		"	100	ND	83.9	10-156				
sec-Butylbenzene	39		"	50.0	ND	77.3	10-157				
tert-Butylbenzene	42		"	50.0	ND	83.7	10-160				
Tetrachloroethylene	72		"	50.0	ND	143	30-167				
Toluene	47		"	50.0	ND	93.5	21-160				
trans-1,2-Dichloroethylene	43		"	50.0	ND	85.7	29-153				
Trichloroethylene	80		"	50.0	ND	160	24-169				
Vinyl Chloride	42		"	50.0	ND	83.5	12-160				
Surrogate: 1,2-Dichloroethane-d4	*52.4*		*"*	*50.0*		*105*	*77-125*				
Surrogate: p-Bromofluorobenzene	*55.9*		*"*	*50.0*		*112*	*70-130*				
Surrogate: Toluene-d8	*55.0*		*"*	*50.0*		*110*	*85-120*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40590 - EPA 3550C											
LCS (BL40590-BS1)							Prepared & Analyzed: 12/11/2014				
Acenaphthene	932	41.7	ug/kg wet	1670		55.9	17-124				
Acenaphthylene	926	41.7	"	1670		55.6	16-124				
Anthracene	1010	41.7	"	1670		60.8	24-124				
Benzo(a)anthracene	1280	41.7	"	1670		76.6	25-134				
Benzo(a)pyrene	1150	41.7	"	1670		69.0	29-144				
Benzo(b)fluoranthene	1280	41.7	"	1670		76.9	20-151				
Benzo(g,h,i)perylene	1550	41.7	"	1670		92.8	10-153				
Benzo(k)fluoranthene	924	41.7	"	1670		55.4	10-148				
Chrysene	1060	41.7	"	1670		63.8	24-116				
Dibenzo(a,h)anthracene	1450	41.7	"	1670		87.0	17-147				
Dibenzofuran	970	41.7	"	1670		58.2	23-123				
Fluoranthene	1060	41.7	"	1670		63.3	36-125				
Fluorene	979	41.7	"	1670		58.7	16-130				
Hexachlorobenzene	958	41.7	"	1670		57.5	10-129				
Indeno(1,2,3-cd)pyrene	1370	41.7	"	1670		82.4	10-155				
2-Methylphenol	765	41.7	"	1670		45.9	10-146				
3- & 4-Methylphenols	763	41.7	"	1670		45.8	20-109				
Naphthalene	749	41.7	"	1670		44.9	20-121				
Pentachlorophenol	991	41.7	"	1670		59.5	10-143				
Phenanthrene	1110	41.7	"	1670		66.7	24-123				
Phenol	760	41.7	"	1670		45.6	15-123				
Pyrene	1050	41.7	"	1670		63.0	24-132				
Surrogate: 2-Fluorophenol	*1650*		*"*	*2500*		*66.1*	*10-99*				
Surrogate: Phenol-d5	*1720*		*"*	*2510*		*68.6*	*10-108*				
Surrogate: Nitrobenzene-d5	*1170*		*"*	*1670*		*70.0*	*10-119*				
Surrogate: 2-Fluorobiphenyl	*1110*		*"*	*1670*		*66.7*	*10-114*				
Surrogate: 2,4,6-Tribromophenol	*2170*		*"*	*2510*		*86.7*	*30-130*				
Surrogate: Terphenyl-d14	*1420*		*"*	*1670*		*85.2*	*10-123*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40590 - EPA 3550C											
LCS Dup (BL40590-BSD1)							Prepared & Analyzed: 12/11/2014				
Acenaphthene	1060	41.7	ug/kg wet	1670		63.8	17-124		13.1	30	
Acenaphthylene	1030	41.7	"	1670		61.6	16-124		10.2	30	
Anthracene	1040	41.7	"	1670		62.5	24-124		2.79	30	
Benzo(a)anthracene	1310	41.7	"	1670		78.6	25-134		2.58	30	
Benzo(a)pyrene	1180	41.7	"	1670		70.7	29-144		2.49	30	
Benzo(b)fluoranthene	1240	41.7	"	1670		74.2	20-151		3.49	30	
Benzo(g,h,i)perylene	1550	41.7	"	1670		93.3	10-153		0.473	30	
Benzo(k)fluoranthene	1050	41.7	"	1670		62.8	10-148		12.5	30	
Chrysene	1120	41.7	"	1670		67.1	24-116		4.92	30	
Dibenzo(a,h)anthracene	1530	41.7	"	1670		91.7	17-147		5.26	30	
Dibenzofuran	1050	41.7	"	1670		63.1	23-123		8.08	30	
Fluoranthene	1080	41.7	"	1670		64.6	36-125		1.97	30	
Fluorene	1050	41.7	"	1670		63.2	16-130		7.41	30	
Hexachlorobenzene	1000	41.7	"	1670		60.3	10-129		4.76	30	
Indeno(1,2,3-cd)pyrene	1450	41.7	"	1670		86.9	10-155		5.39	30	
2-Methylphenol	899	41.7	"	1670		54.0	10-146		16.2	30	
3- & 4-Methylphenols	882	41.7	"	1670		52.9	20-109		14.4	30	
Naphthalene	888	41.7	"	1670		53.3	20-121		17.0	30	
Pentachlorophenol	1060	41.7	"	1670		63.4	10-143		6.38	30	
Phenanthrene	1130	41.7	"	1670		67.6	24-123		1.40	30	
Phenol	876	41.7	"	1670		52.6	15-123		14.1	30	
Pyrene	1100	41.7	"	1670		65.7	24-132		4.16	30	
Surrogate: 2-Fluorophenol	*1800*		*"*	*2500*		*72.1*	*10-99*				
Surrogate: Phenol-d5	*2000*		*"*	*2510*		*79.9*	*10-108*				
Surrogate: Nitrobenzene-d5	*1280*		*"*	*1670*		*76.8*	*10-119*				
Surrogate: 2-Fluorobiphenyl	*1260*		*"*	*1670*		*75.7*	*10-114*				
Surrogate: 2,4,6-Tribromophenol	*2110*		*"*	*2510*		*84.1*	*30-130*				
Surrogate: Terphenyl-d14	*1470*		*"*	*1670*		*88.0*	*10-123*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40623 - EPA 3550C											
Blank (BL40623-BLK1)								Prepared: 12/11/2014 Analyzed: 12/12/2014			
4,4'-DDD	ND	0.330	ug/kg wet								
4,4'-DDE	ND	0.330	"								
4,4'-DDT	ND	0.330	"								
Aldrin	ND	0.330	"								
alpha-BHC	ND	0.330	"								
beta-BHC	ND	0.330	"								
delta-BHC	ND	0.330	"								
Dieldrin	ND	0.330	"								
Endosulfan I	ND	0.330	"								
Endosulfan II	ND	0.330	"								
Endosulfan sulfate	ND	0.330	"								
Endrin	ND	0.330	"								
gamma-BHC (Lindane)	ND	0.330	"								
Heptachlor	ND	0.330	"								
alpha-Chlordane	ND	0.330	"								
Surrogate: Decachlorobiphenyl	*57.7*		*"*	*67.0*		*86.1*	*30-140*				
Surrogate: Tetrachloro-m-xylene	*52.0*		*"*	*67.7*		*76.9*	*30-140*				
LCS (BL40623-BS1)								Prepared: 12/11/2014 Analyzed: 12/12/2014			
4,4'-DDD	34.0	0.330	ug/kg wet	33.3		102	40-140				
4,4'-DDE	32.1	0.330	"	33.3		96.2	40-140				
4,4'-DDT	33.0	0.330	"	33.3		98.9	40-140				
Aldrin	28.5	0.330	"	33.3		85.4	40-140				
alpha-BHC	28.4	0.330	"	33.3		85.1	40-140				
beta-BHC	29.0	0.330	"	33.3		87.0	40-140				
delta-BHC	29.8	0.330	"	33.3		89.5	40-140				
Dieldrin	29.1	0.330	"	33.3		87.4	40-140				
Endosulfan I	30.4	0.330	"	33.3		91.3	40-140				
Endosulfan II	29.5	0.330	"	33.3		88.4	40-140				
Endosulfan sulfate	29.1	0.330	"	33.3		87.3	40-140				
Endrin	31.1	0.330	"	33.3		93.2	40-140				
gamma-BHC (Lindane)	28.3	0.330	"	33.3		84.9	40-140				
Heptachlor	24.4	0.330	"	33.3		73.2	40-140				
alpha-Chlordane	28.4	0.330	"	33.3		85.1	40-140				
Surrogate: Decachlorobiphenyl	*65.6*		*"*	*67.0*		*97.9*	*30-140*				
Surrogate: Tetrachloro-m-xylene	*57.7*		*"*	*67.7*		*85.3*	*30-140*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40623 - EPA 3550C											
LCS Dup (BL40623-BSD1)								Prepared: 12/11/2014 Analyzed: 12/12/2014			
4,4'-DDD	31.9	0.330	ug/kg wet	33.3		95.6	40-140		6.37	30	
4,4'-DDE	30.3	0.330	"	33.3		91.0	40-140		5.49	30	
4,4'-DDT	31.0	0.330	"	33.3		93.0	40-140		6.17	30	
Aldrin	27.6	0.330	"	33.3		82.7	40-140		3.26	30	
alpha-BHC	28.0	0.330	"	33.3		84.0	40-140		1.31	30	
beta-BHC	28.1	0.330	"	33.3		84.4	40-140		3.09	30	
delta-BHC	28.6	0.330	"	33.3		85.7	40-140		4.43	30	
Dieldrin	27.8	0.330	"	33.3		83.4	40-140		4.73	30	
Endosulfan I	28.9	0.330	"	33.3		86.8	40-140		5.06	30	
Endosulfan II	27.7	0.330	"	33.3		83.2	40-140		6.08	30	
Endosulfan sulfate	27.0	0.330	"	33.3		80.9	40-140		7.59	30	
Endrin	29.4	0.330	"	33.3		88.2	40-140		5.44	30	
gamma-BHC (Lindane)	27.8	0.330	"	33.3		83.4	40-140		1.80	30	
Heptachlor	24.3	0.330	"	33.3		72.9	40-140		0.445	30	
alpha-Chlordane	27.0	0.330	"	33.3		81.1	40-140		4.80	30	
Surrogate: Decachlorobiphenyl	*59.8*		*"*	*67.0*		*89.3*	*30-140*				
Surrogate: Tetrachloro-m-xylene	*55.8*		*"*	*67.7*		*82.4*	*30-140*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40623 - EPA 3550C											
Blank (BL40623-BLK1)								Prepared: 12/11/2014 Analyzed: 12/12/2014			
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0553*		*"*	*0.0677*		*81.8*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0417*		*"*	*0.0670*		*62.2*	*30-140*				
LCS (BL40623-BS2)								Prepared: 12/11/2014 Analyzed: 12/12/2014			
Aroclor 1016	0.295	0.0167	mg/kg wet	0.333		88.4	40-130				
Aroclor 1260	0.290	0.0167	"	0.333		87.1	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0513*		*"*	*0.0677*		*75.9*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0420*		*"*	*0.0670*		*62.7*	*30-140*				
LCS Dup (BL40623-BSD2)								Prepared: 12/11/2014 Analyzed: 12/12/2014			
Aroclor 1016	0.288	0.0167	mg/kg wet	0.333		86.4	40-130		2.22	25	
Aroclor 1260	0.274	0.0167	"	0.333		82.2	40-130		5.84	25	
Surrogate: Tetrachloro-m-xylene	*0.0510*		*"*	*0.0677*		*75.4*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0397*		*"*	*0.0670*		*59.2*	*30-140*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40961 - EPA 3550B/8151A											
Blank (BL40961-BLK1)							Prepared & Analyzed: 12/18/2014				
2,4,5-TP (Silvex)	ND	20.0	ug/kg wet								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*536*		*"*	*500*		*107*	*30-150*				
LCS (BL40961-BS1)							Prepared & Analyzed: 12/18/2014				
2,4,5-TP (Silvex)	152	20.0	ug/kg wet	160		95.0	40-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*492*		*"*	*500*		*98.4*	*30-150*				
LCS Dup (BL40961-BSD1)							Prepared & Analyzed: 12/18/2014				
2,4,5-TP (Silvex)	149	20.0	ug/kg wet	160		93.1	40-140		1.99	30	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*482*		*"*	*500*		*96.4*	*30-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40616 - EPA 3050B											
Blank (BL40616-BLK1)								Prepared & Analyzed: 12/11/2014			
Arsenic	ND	1.00	mg/kg wet								
Barium	ND	1.00	"								
Cadmium	ND	0.300	"								
Chromium	ND	0.500	"								
Lead	ND	0.300	"								
Selenium	ND	1.00	"								
Silver	ND	0.500	"								
Duplicate (BL40616-DUP1)	*Source sample: 14L0368-01 (S-1 Comp + VOC)							Prepared & Analyzed: 12/11/2014			
Arsenic	4.00	1.13	mg/kg dry		3.59				10.8	35	
Barium	37.9	1.13	"		37.6				0.716	35	
Cadmium	ND	0.340	"		ND					35	
Chromium	13.7	0.567	"		13.6				1.26	35	
Lead	36.8	0.340	"		36.3				1.22	35	
Selenium	1.38	1.13	"		1.69				19.9	35	
Silver	ND	0.567	"		ND					35	
Matrix Spike (BL40616-MS1)	*Source sample: 14L0368-01 (S-1 Comp + VOC)							Prepared & Analyzed: 12/11/2014			
Arsenic	237	1.13	mg/kg dry	227	3.59	103	75-125				
Barium	274	1.13	"	227	37.6	104	75-125				
Cadmium	5.53	0.340	"	5.67	ND	97.6	75-125				
Chromium	36.2	0.567	"	22.7	13.6	99.7	75-125				
Lead	90.4	0.340	"	56.7	36.3	95.4	75-125				
Selenium	238	1.13	"	227	1.69	104	75-125				
Silver	4.16	0.567	"	5.67	ND	73.4	75-125	Low Bias			
Reference (BL40616-SRM1)								Prepared & Analyzed: 12/11/2014			
Arsenic	150	1.00	mg/kg wet	151		99.4	70.9-130				
Barium	269	1.00	"	262		103	73.7-126				
Cadmium	147	0.300	"	152		96.6	73-126				
Chromium	116	0.500	"	117		99.0	69.7-130				
Lead	243	0.300	"	254		95.6	75.6-125				
Selenium	167	1.00	"	162		103	67.3-132				
Silver	43.1	0.500	"	44.3		97.2	66.4-124				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL40650 - EPA 7473 soil											
Blank (BL40650-BLK1)								Prepared & Analyzed: 12/12/2014			
Mercury	ND	0.0300	mg/kg wet								
Reference (BL40650-SRM1)								Prepared & Analyzed: 12/12/2014			
Mercury	2.8722		mg/kg	3.73		77.0	68.6-131				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
14L0368-01	S-1 Comp + VOC	40mL 01_Clear Vial Cool to 4° C
14L0368-02	S-2 Comp + VOC	40mL 01_Clear Vial Cool to 4° C
14L0368-03	S-3 Comp + VOC	40mL 01_Clear Vial Cool to 4° C
14L0368-04	S-4 Comp + VOC	40mL 01_Clear Vial Cool to 4° C

Notes and Definitions

VOA-CONT NON-COMPLIANT- the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A requirements.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

M-MISpk The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The SRM was within acceptance limits, therefore data are acceptable.

J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

---

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

14L0368

YORK ANALYTICAL LABORATORIES INC

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

Page____ of ____

York Project No. 14L0368

YOUR Information		Report to:		Invoice To:		Your Project ID	Turn-Around Time		Report/Deliverable Type	
Company:	Restoration LLC	SAME ☐	Restoration LLC	SAME ☐		Stonycreek Services	RUSH-Same Day		Summary Report	Yes
Address:	9-22 119st College Pt	Name:	Stonycreek Services	Name:	Dr. JM Cervin		RUSH-Next Day		QA Report	Yes
	New York	Company:	Attention:	Company:	Restoration LLC	Oceanside LI-NY	RUSH-Two Day		CT RCP	
Phone.:	917-620-5287	Address:	Sean Caroll	Address:	College Point NY		RUSH-Three Day		CT RCP DQA/DUE Pkg	
Contact:	Dr James Cervino		Facility Owner			4001 Daly Blvd	RUSH-Four Day		NY ASP A Package	
E-mail:	jamescervino@gmail.com	E-mail:		E-mail		Samples from CT__NYX_NJ__	Standard (5-7day)	5 Days	NY ASP B Package	
									NJDEP Reduced Deliv	
									Excel	
									NYSDEC EQuIS	
									NJDEP SRP HazSite	
									EQuIS	
									GIS/KEY (std)	
									YORK Regulatory Comp Excel compared to:	
									NYSDEC 375 Restricted	
									NYSDEC 375 Unrestricted	
									OTHER:	

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Expanded No Dioxins/Furans
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Expanded Full List
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
	12/9/2014	1,200 cy Soil	NYSDEC Subpart 375 Comparitive List	
S-1 Comp+VOC	300 cy			
			RCRA-Metals, SVOCs, PCBs,	Widemouth Glass 1 Litre
S-2 Comp+VOC	300 cy		Herbicides Pesticides VOC	Glass
S-3 Comp+VOC	300 cy			Glass
S-4 Comp+VOC	300 cy			Glass
			SAMPLES COLLECTED Decemner 9th 2014 at 7AM	

Comments:

1,200 Yard Stockpile
5 Grab per 300 cy
No Odor, No Petrol, No Slagg, No ASH
Sive Screen Test Dry and Wet=ND

Preservation (check all appliciable): 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO_3 ____ H_2SO_4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By: [signature] 12/10/14 1030 AM — Date/Time

Samples Received By: K Baker 12/10/14 1030 AM — Date/Time

Samples Received in LAB by: [signature] 12-10-14 1800 — Date/Time

Temperature on Receipt: 4.4 °C

APPENDIX 10
PHOTOGRAPHS OF INSTALLATION OF THE VAPOR BARRIER SYSTEM

Photographs of Installation of the Vapor Barrier System

Preprufe®
160R
Waterproofing Membrane
Preprufe®160R
SAFETY INSTRUCTIONS
Read Before Use. Refer to MSDS for additional in
CAUTION! Contact with residue from adhesive ca
irritation.
• Contents: Benzene, ethenyl-, polymer with 2-me
CAS # 025038-32-8, Distillates, petroleum, hydr
naphthenic CAS # 064742-52-5, Naphtha, petro
cracked arom., piperylene co CAS # 068478-07
CAS# N/A, Polyester Film CAS# N/A
• Release liners are slippery. Remove from work
membrane application.
PRECAUTIONARY MEASURES
• Avoid contact with eyes, skin and clothing.
• Wash clothing before reuse.
• To avoid skin contact, use gloves or barrier crea
• Promptly cleanse hands with waterless hand cl
and wash with soap and water after handling.
FOR PROFESSIONAL USE ONLY. KEEP OUT OF C
FIRST AID
Skin Contact: Clean skin as directed above. If re
with waterless handcream or abrasive soap. Neve
discomfort or irritation persists, consult a physicia
Eye Contact: Flush eyes with water for at least 1
eyelids open.
If discomfort or irritation persists, consult a physic

FOAMULAR
R-5.0

APPENDIX 11
SUPPLEMENTAL INFORMATION
ON THE VAPOR BARRIER SYSTEM

New!

Substructure Waterproofing

GRACE

Preprufe® Plus

New generation Preprufe® membranes with unique Preprufe® ZipLap™ for fast and secure applications in all seasons and climates.

For waterproofing and protection of slabs and confined walls below ground, Preprufe® Plus membranes develop an integral watertight adhesive bond to poured concrete to prevent water migration.

Advantages

- **Seals adhesively to concrete** - the only technology proven to resist water migration at the highest pressures.
- **Micro-compartments** – integral adhesive bond eliminates the need for complex welded compartments used with unbonded membranes.
- New! **Excellent waste management** — No release Liner - expedites installation and reduces construction site waste **(99% recyclable).**
- New! **Preprufe® ZipLap™ Dual adhesive watertight laps** - easy to execute year round even in harsh conditions.
- New! **Faster installation** – liner free, kick out roll reduces installation time, labour and cost.
- **20 Year Track Record** – Preprufe® membranes have been used on major projects around the world for more than 20 years.
- **Remains sealed to structure** - even if ground settles. Essential for piled foundations.
- **Excellent chemical resistance** - protects structure from salts and sulphate attack.
- **Lightweight, flexible** - easy to handle and install without special corner pieces.
- **Inert** - unaffected by groundwater contaminants, ponded water or wet/dry cycling.
- **No protection layers** – screed or protective layers are eliminated saving days or weeks on programme time.
- **Cold applied, simple to install** – no primer, fillets or specialist equipment or hot works.
- **Unaffected by weather conditions** – cannot be activated prematurely and unaffected by freeze/thaw, wet/dry cycle.
- **Smooth surface membrane** – site contamination easily removed before concreting.
- **Total Grace system** - Full range of Grace hydrophilic and PVC waterstops available for concrete joint protection. Can be used in combination with Grace post-applied self-adhesive membrane range.

Description

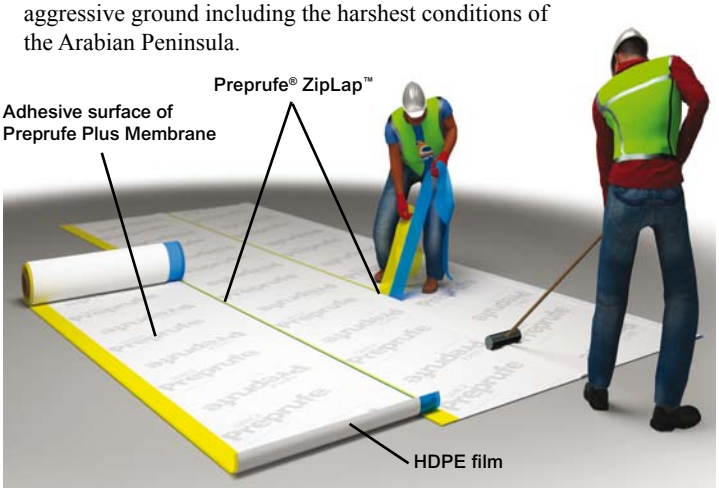
Preprufe® Plus waterproof membranes are composite sheets comprising a robust HPDE backing, a pressure sensitive adhesive and a trafficable weather resistant coating with dual adhesive Preprufe® ZipLap™ for added security. Grace has combined its proven Advanced Bond Technology™ together with more than 20 years of major project experience to produce its highest performing waterproofing membrane with even more practical and economic benefits.

The membranes develop a continuous adhesive bond to concrete poured against it. This forms micro-compartments to prevent water migration between the structure and the membrane, substantially reducing the risk of leaks.

New Preprufe® Plus kick out function has been engineered to reduce significantly environmental footprint and accelerate installation times with reduced labour. Unique Preprufe® ZipLap™ allow instant lap forming even in adverse conditions.

Applications

- Water and vapour proofing to all basement grades to BS 8102:2009.
- Waterproofing civil engineering sub - structures.
- Methane, carbon dioxide and radon gas protection in excess of the standard membrane requirements in BRE Reports 211 (Radon) and 212 (Methane and Carbon Dioxide).
- Protection of reinforced concrete structures in aggressive ground including the harshest conditions of the Arabian Peninsula.



BBA BRITISH BOARD OF AGREMENT CERTIFICATE No. 97/3325

nssPlus

CE 0836

System Components

- Preprufe® 300R Plus - used typically with concrete slab sections greater than 350 mm thickness. Superior damage resistance.
- Preprufe® 160R Plus - used typically with concrete slab sections up to 350 mm thickness. Superior damage resistance.
- Preprufe® Tape - incorporating Preprufe® coating for continuous concrete adhesion at taped edges and details.
- Bituthene® LM - high performance liquid membrane for detailing terminations at pile caps and pipe penetrations.
- Adcor® 500S/ 500T - hydro-expansive waterstop for concrete construction joints.
- Adcor® 550MI/ 550 T-MI - hydro-expansive injectable waterstop for added security of concrete construction joints.

Application

Material Storage

Sequence deliveries to avoid delays, but minimize on-site storage. Select a safe, covered secure location for material storage. Store materials for each day's use in a location that won't require mwovement a second time. Do not double-stack pallets of waterproofing on the job site. Store protection boards flat and off the ground. Provide cover on top and all sides.

Substrate Preparation

Suitable substrates include:

- concrete blinding
- well compacted sand on rolled crushed stone
- rigid insulation
- clay heave boards
- permanent formwork
- removable formwork
- 19 mm plywood
- Hydroduct drainage sheets
- Adjacent sub-structures

Substrates should be uniform with no gaps or voids greater than 12mm. Where these exist fill with a material of sufficient strength to support the membrane. All substrates must be free of loose aggregate and sharp protrusions. Where possible, avoid sloping or rounded concrete blinding. The surface does not need to be dry, but standing water must be removed. Substrates must have sufficient rigidity not to move during the concrete pour. Boarded substrates must be close butted to provide support and not more than 12 mm out of alignment.

Installation - General

Tools /materials required:
Heavy duty lap roller
Stanley /Utility knives
Tape measure
Cotton cleaning cloths
Plywood or similar cutting board
Thin metal straight edge
Chalk line
Broom
2 metre long pipe or heavy broom handle
Sprial mixing paddle for Bituthene LM
Round nose trowel or spatula
Required protection and/or drainage boards and other ancillary products

Preprufe® ZipLap™ - Preprufe® Plus membranes are supplied in rolls 1.2 m wide with colored zip strips at the top and bottom of the seam area on the edge of the roll to enable fully bonded laps between adjacent rolls. Both zip strips cover an aggressive adhesive. Once the yellow zip strip on the top of the membrane and the blue zip strip on the bottom of the membrane are removed, a strong adhesive to adhesive bond is achieved in the overlap area. All other laps must be taped with Preprufe® Tape. Minimum application temperature -5ºC. When installing Preprufe® in temperatures below 0°C the use of Preprufe® Tape LT is recommended. Preprufe® Tape LT should be applied to clean dry surfaces and the release liner must be removed immediately after application.

Installation - Horizontal

Place the membrane with the yellow zip strip facing towards the concrete pour. Kick out or roll out the membrane with HDPE film side to the substrate. End laps should be staggered to avoid a build up of layers. Leave yellow and blue zip strips on the membrane until overlap procedure is completed. Accurately position succeeding sheets to overlap the previous sheet 3 in. (75 mm) along the marked selvedge. Peel back and remove both the yellow and blue zip strips in the overlap area to achieve an adhesive to adhesive bond at the overlap. Ensure a continuous bond is achieved without creases and roll firmly with a heavy roller. On completion of the installation, **ensure complete removal of the plastic zip strips from all overlaps and Tape.**

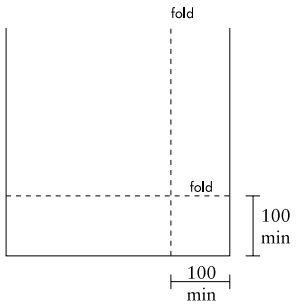
Internal & External Corners

Internal & external corners should be formed as shown in the diagrams below. Ensure that all laps are 100 mm minimum, taped with Preprufe® Tape and well rolled. Crease and fold the membrane to ensure a close fit to the substrate profile.

Corners

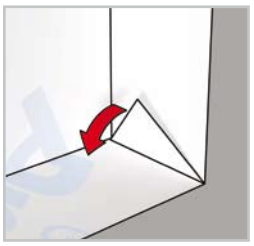
Internal and external corners should be formed as shown in the diagrams returning the membrane a minimum of 100 mm and sealing with Preprufe Tape. Ensure that the apex of the corner is covered and sealed with Tape and roll firmly. Crease and fold the membrane to ensure a close fit to the substrate profile and avoid hollows.

1

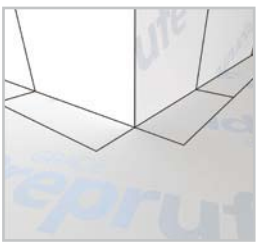


Internal **External**

2

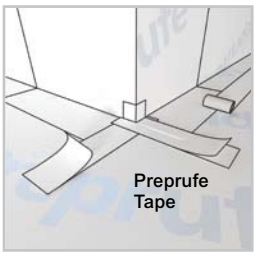


2



3

3



4

End Laps and Cut Edges

Overlap all roll ends and cut edges by a minimum 75 mm and ensure the area is clean and free from contamination, wiping with a damp cloth if necessary. Allow to dry and apply Preprufe® Tape centred over the lap and roll firmly. Refer also to Preprufe® Plus Standard Details.

Penetrations

To seal around penetrations such as service pipes, pile heads, lightning conductors, etc. mark and cut membrane tight to the penetration. If the membrane is not aligned within 12mm of the penetration, apply Preprufe® Tape lapped onto the membrane and butted tight to the penetration. For pipe penetrations, wrap the pipe with Preprufe® Tape. Mix and apply Bituthene LM around the penetrations using a fillet to provide a watertight seal between the Preprufe® Plus membrane and Tape. Refer also to Preprufe® Plus Standard Details.

Membrane Repair

Inspect the membrane for damage before installation of reinforcement steel, shuttering and final placement of concrete. Clean by jet washing if required.

Wipe the area with a damp cloth to ensure the area is clean and free from dust, and allow to dry. For minor repairs, apply Preprufe® Tape centrally over the damaged area and roll firmly. For larger repairs use a patch of Preprufe® Plus and tape all edges with Preprufe® Tape. Remove plastic release liner from Tape.

Installation - Vertical

Apply the membrane with the yellow zip strip facing towards the concrete pour. Mechanically fasten the membrane vertically using flat headed fixings appropriate to the substrate. The membrane may be installed in any convenient length. Secure the top of the membrane using a batten or fixing 50 mm below the top edge. Use fixings at typically 600 mm centres to secure the membrane flat against the substrate. Fixings can be made through the selvedge, this allows firmly rolled overlaps, which are covered by the subsequent strip of Preprufe® Plus. Any exposed fixings should be patched with Preprufe® Tape.

Peel back and remove both the yellow and blue zip strips in the overlap area to achieve an adhesive to adhesive bond at the overlap. Ensure a continuous bond is achieved without creases and roll firmly. On completion of the installation, **completely remove the plastic zip strips from all overlaps and Tape.**

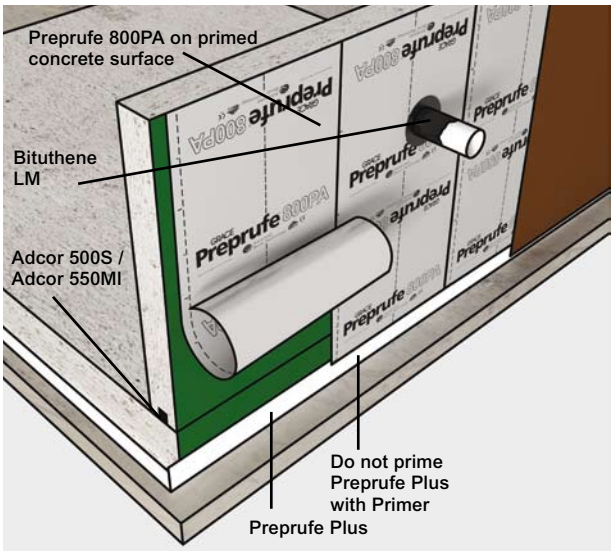
Removal of Formwork

Preprufe® Plus membranes can be applied to removable single and double sided formwork, slab perimeter formwork, pile caps, etc.

Once concrete is poured the formwork must remain in place until the concrete has gained sufficient compressive strength to develop the surface bond with Preprufe® Plus. A minimum concrete compressive strength of 10 N/mm^2 is recommended prior to stripping formwork supporting Preprufe® Plus membranes. Premature stripping may result in loss of adhesion between the membrane and concrete.

Wall Waterproofing Options

Grace also offers alternatives to pre-applying Preprufe® Plus to vertical formwork. For conventional application to walls after formwork removal use Preprufe® 800PA - self adhesive sheet waterproofing membrane. See separate data sheet for further information.



Preprufe 800PA post-applied to walls in conjunction with Preprufe Plus below slabs

Preprufe® Plus Preparation When Preprufe® 800PA Is Used on Walls

Inspect the Preprufe® Plus around the perimeter edge of the concrete slab. Identify any exposed non-selvedge overlaps in Preprufe® Plus. To ensure continuity of the fully bonded system, carefully cut and remove a 75 mm triangular piece of the top flap of Preprufe® Plus only, as shown shaded in the standard detail, Slab Perimeter Detail - non selvedge lap.

Ancillary Products

Adcor® 500S / T – Hydrophilic waterstop for construction joints and pipe entries.
Adcor® 550MI / T - hydro-expansive injectable waterstop for added security of concrete construction joints.
AT System – Co-extruded PVC waterstops for movement joints.
Bituthene® LM - Two component elastomeric liquid applied detailing compound.

Limitations of Use

- Do not use Preprufe® Plus between concrete infilled hollow block walls.
- It is recommended that concrete be poured within 56 days (42 days in hot climates) of application of the membrane.

NBS Specification Clause

Refer to clause J40 297.

Health and Safety

There is no requirement for a Material Safety Data Sheet for Preprufe Plus. For health and safety questions on this product please contact Grace. For Bituthene LM, read the product label and Material Safety Data Sheet (MSDS) before use. Users must comply with all risk and safety phrases. MSDS's can be obtained from Grace Construction Products.

Supply

Preprufe®	300R Plus	160R Plus	Tape LT* or HC*
Thickness (nominal) (mm)	1.2	0.8	0.7
Roll size (m)	1.17 x 31.0	1.17 x 36.5	100 x 15
Roll area (m^2)	36	42	
Roll weight (kg)	50	42	2
Minimum edge/end laps (mm)	75	75	75

*LT denotes for temperature between -4°C and +30°C
*HC denotes for temperature between +10°C and +40°C

Ancillary Products
Adcor® 500S 6 x 5m rolls
Adcor® 550MI 8 x 5m rolls
Bituthene® LM 5.7 litre pack

Typical Properties

	300R Plus	160R Plus
Adhesion to concrete (N/mm) *EN 1372*	2.88	2.88
Shear strength of joints (N/mm) *EN 12317-2*	14.5	14.5
Hydrostatic head resistance (m) *ASTM D 5385 mod.*	> 70	> 70
Puncture resistance (N)	990	445
Water vapour transmission rate (g/m^2/24 hrs)	0	0
Methane permeability (mls/m^2.day.atm) Note 1	44.31	60.81
Radon Diffusion Coefficient (m^2/s)	2.6×10^{-12}	5.6×10^{-12}

Note 1: Typical value for BRE recommended minimum standard (BRE Report 212) is 360 ml/m^2/day.

Declared values according to EN 13967

Property	Declared Value		Test Method	Property	Declared Value		Test Method
Preprufe®	160R Plus	300R Plus		Preprufe®	160R Plus	300R Plus	
Visible defects - MDV	No	No	EN 1850-2	**Straightness** - MDV	Pass	Pass	EN 1848-2
Length *(m)* - MDV	36.5 ± 0.15	31 ± 0.15	EN 1848-2	**Thickness** *(mm)* - MDV	0.8 ± 0.005	1.2 ± 0.005	EN 1849-2
Width Carrier Sheet *(m)* - MDV	1.17 ± 0.05	1.17 ± 0.05	EN 1848-2	**Mass per unit area** *(g/m^2)* - MDV	810 ± 50	1150 ± 70	EN 1849-2
Width Overall (roll) *(m)* - MDV	1.17 ± 0.05	1.17 ± 0.05	EN 1848-2	**Durability of water tightness against ageing/degradation** (at 60 kPa)	Pass	Pass	EN 1296 EN 1928 Method B
Water tightness to liquid water (at 60 kPa)	Pass	Pass	EN 1928	**Durability of water tightness against chemicals** (at 60 kPa)	Pass	Pass	EN 1847 Method B EN 1928 Method B
Resistance to impact *(Al-board) (mm)* - MLV	250 - Pass	400 - Pass	EN 12691	**Compatibility with bitumen**	Pass	Pass	EN 1548
Resistance to impact *(base EPS) (mm)* - MLV	500 - Pass	1400 - Pass	EN 12691	**Resistance to static loading**	Pass	Pass	EN 12730
Resistance to tearing (Nail Shank) *- unreinforced sheets (N)* - MLV	Long[1] 300 Trans[2] 450	Long[1] 450 Trans[2] 600	EN 12310-1	**Tensile properties** - unreinforced sheets *(N/6mm)* - MLV	Long[1] 60 Trans[2] 60	Long[1] 110 Trans[2] 120	EN 12311-2 Method B
Joint strength *(N/50mm)* - MLV	480	850	EN 12317-2	**Tensile properties - unreinforced sheets** *(Elongation %)* - MLV	Long[1] 4.5 Trans[2] 4	Long[1] 4.5 Trans[2] 4	EN 12311-2 Method B
Water vapour transmission *(μ= sD/d)* - MDV	700.000 ± 30%	700.000 ± 30%	EN 1931 Method B	**Resistance to deformation under load**	Not Applicable	Not Applicable	EN 13967 Annex B
Water vapour transmission *(sD in m)* - MDV	581 ± 30%	840 ± 30%	EN 1931 Method B	**Reaction to fire** *(Class; test conditions)*	E	E	EN 13501-1

Footnotes: 1. Longitudinal - related to the roll direction 2. Transversal - related to the roll direction
3. MDV: Manufacturer Declared Value 4. MLV: Manufactured Limiting Value

All declared values shown in this data sheet are based on test results determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact Grace Technical Services

CE 0836

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United Kingdom
13 **09/F017**

EN 13967
Preprufe® 160R Plus and 300R Plus Flexible Sheets for Waterproofing,
Type T Reaction to fire: E Watertightness: Pass at 60 kPa

www.graceconstruction.com

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GRACE

FOAMULAR® 250
Extruded Polystyrene (XPS) Rigid Foam Insulation

Product Data Sheet

Energy-Saving[1], Moisture Resistant XPS Insulation

ASTM C578 Type IV, 25 psi minimum

Description

Owens Corning™ FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation is a closed cell, moisture-resistant rigid foam board well suited to meet the needs for a wide variety of building applications. FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation is great for many residential and commercial construction applications such as wall furring, perimeter/foundation, cavity wall, pre-cast concrete, under slab, crawl spaces, sheathing and other applications.[2] FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation is classified as a Type IV product when tested in accordance with ASTM C578 and provides a long-term thermal performance of R-5 per inch.

Like all FOAMULAR® XPS Insulation products, FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation is made with Owens Corning's patented Hydrovac® process technology under strict quality control measures, which makes it highly resistant to moisture and permits the product to retain its high R-value year after year even after exposure to moisture and freeze/thaw cycling.

Key Features

- Excellent long-term stable insulating performance at R-5 per inch[3]
- Exceptional moisture resistance, long-term durability
- Limited lifetime warranty[4]—maintains 90% of R-value and covers all ASTM C578 properties
- The only XPS foam to have achieved GREENGUARD Gold Certification
- The only XPS foam with certified recycled content—certified by Scientific Certification Systems (SCS) to contain a minimum 20% recycled content
- Will not corrode, rot or support mold growth
- Zero ozone depletion potential with 70% less global warming potential than our previous formula
- Reusable
- Lightweight, durable rigid foam panels are easy to handle and install
- Easy to saw, cut or score
- Versatile applications: sheathing, foundation walls, masonry cavity walls[1]
- Not for use in roofing. For roofing applications, use FOAMULAR® THERMAPINK® Extruded Polystyrene (XPS) Insulation.

Product type

- Minimum compressive strength of 25 psi
- Wide selection of sizes and thicknesses
- Available in straight, tongue and groove, or scored square edge
- Compliant with building codes and standards

Product Applications

High-performance FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation:

- Retards the transmission of water vapor and moisture in masonry walls
- Provides continuous insulation over steel stud framing, in insulated concrete sandwich panel walls, in masonry unit cavity walls, or when used with non-penetrating, surface mounted furring systems over masonry or concrete walls
- Insulates and retains its properties in below grade perimeter and foundation applications, or directly beneath the concrete slab to complement the insulating sheathing envelope around the building framing
- FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation is great for below

1 Savings vary. Find out why in the seller's fact sheet on R-values. Higher R-values mean greater insulating power.
2 Not for use in roofing. For roofing applications, use FOAMULAR® THERMAPINK® Extruded Polystyrene (XPS) Rigid Foam Insulation.
3 R means the resistance to heat flow; the higher the R-value, the greater the insulating power.
4 See actual warranty for complete details, limitations and requirements.

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grade applications. Extruded polystyrene (XPS) insulation is resistant to degradation from the components of common soils and will retain its insulating performance characteristics even after prolonged exposure to moisture

- Provides a weather resistant barrier (when joints are sealed) to enhance the building's resistance to air and moisture penetration

Technical Information

This product is combustible. A protective barrier or thermal barrier is required as specified in the appropriate building code. For additional information, consult MSDS or contact Owens Corning World Headquarters at 1-800-GET-PINK®.

All construction should be evaluated for the necessity to provide vapor retarders. See current ASHRAE Handbook of Fundamentals.

FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation is a non-structural material and must be installed on framing which is independently braced and structurally adequate to meet required construction and service loading conditions.

FOAMULAR® XPS Insulation can be exposed to the exterior during normal construction cycles. During that time some fading of color may begin due to UV exposure, and, if exposed for extended periods of time, some degradation or "dusting" of the polystyrene surface may begin. It is best if the product is covered within 60 days to minimize degradation. Once covered, the deterioration stops, and damage is limited to the thin top surface layers of cells. Cells below are generally unharmed and still useful insulation.

Typical Physical Properties[1]

FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation

Property	Test Method[2]	Value
Thermal Resistance[3], R-Value (180 day) minimum, hr•ft²•°F/Btu (RSI, °C•m²/W)		
@ 75°F (24°C) mean temperature	ASTM C518	
¾" Thickness		4.0 (0.70)
1" Thickness		5.0 (0.88)
1½" Thickness		7.5 (1.32
2" Thickness		10 (1.76)
2½" Thickness		12.5 (2.20)
3" Thickness		15 (2.64)
4" Thickness		20 (3.52)
@ 40°F (4.4°C) mean temperature		
¾" Thickness		4.3 (0.76)
1" Thickness		5.4 (0.95)
1½" Thickness		8.1 (1.43)
2" Thickness		10.8 (1.90)
2½" Thickness		13.5 (2.38)
3" Thickness		16.2 (2.85)
4" Thickness		21.6 (3.80)
Long Term Thermal Resistance, LTTR-Value[3.] minimum hr•ft²•°F/Btu (RSI, °C•m²/W)		
@ 75°F (24°C) mean temperature	CAN/ULC S770-03	
¾" Thickness		N/A
1" Thickness		5.0 (0.88)
1½" Thickness		7.8 (1.37)
2" Thickness		10.6 (1.87)
2½" Thickness		13.4 (2.36)
3" Thickness		16.2 (2.85)
4" Thickness		22.0 (3.87)
Compressive Strength[4], minimum psi (kPa)	ASTM D1621	25 (172)
Flexural Strength[5], minimum psi (kPa)	ASTM C203	75 (517)
Water Absorption[6], maximum % by volume	ASTM C272	0.10
Water Vapor Permeance[7], maximum perm (ng/Pa•s•m²)	ASTM E96	1.5 (86)
Dimensional Stability, maximum % linear change	ASTM D2126	2.0
Flame Spread[8, 9]	ASTM E84	5
Smoke Developed[8, 9, 10]	ASTM E84	45-175
Oxygen Index[8], minimum % by volume	ASTM D2863	24
Service Temperature, maximum °F (°C)	—	165 (74)
Linear Coefficient of Thermal Expansion, in/in/°F (m/m°C)	ASTM E228	3.5×10^{-5} (6.3×10^{-5})

1. Properties shown are representative values for 1" thick material, unless otherwise specified.
2. Modified as required to meet ASTM C578
3. R means the resistance to heat flow; the higher the value, the greater the insulation power. This insulation must be installed properly to get the marked R-value. Follow the manufacturer's instructions carefully. If a manufacturer's fact sheet is not provided with the material shipment, request this and review it carefully. R-values vary depending on many factors including the mean temperature at which the test is conducted, and the age of the sample at the time of testing. Because rigid foam plastic insulation products are not all aged in accordance with the same standards, it is useful to publish comparison R-value data. The R-value for FOAMULAR® XPS Insulation is provided from testing at two mean temperatures, 40°F and 75°F, and from two aging (conditioning) techniques, 180 day real-time aged (as mandated by ASTM C578) and a method of accelerated aging sometimes called "Long Term Thermal Resistance" (LTTR) per CAN/ULC S770-03. The R-value at 180 day real-time age and 75°F mean temperature is commonly used to compare products and is the value printed on the product.
4. Values at yield or 10% deflection, whichever occurs first.
5. Value at yield or 5%, whichever occurs first.
6. Data ranges from 0.00 to value shown due to the level of precision of the test method.
7. Water vapor permeance decreases as thickness increases.
8. These laboratory tests are not intended to describe the hazards presented by this material under actual fire conditions.
9. Data from Underwriters Laboratories Inc.® classified. See Classification Certificate U-197.
10. ASTM E84 is thickness-dependent, therefore a range of values is given.

FOAMULAR® 250
Extruded Polystyrene (XPS) Rigid Foam Insulation

Product Data Sheet

Product and Packaging Data

FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation

Material	Packaging
Extruded polystyrene closed-cell foam, ASTM C 578 Type IV, 25 psi minimum	Shipped in poly-wrapped units with individually wrapped or banded bundles.

Thickness (in)	Product Dimensions Thickness (in) x Width (in) x Length (in)	Pallet (Unit) Dimensions (typical) Width (ft) x Length (ft) x Height (ft)	Square feet per Pallet	Board feet per Pallet	Bundles per Pallet	Pieces per Bundle	Pieces per Pallet	Edges
¾	¾ x 24 x 96	4 x 8 x 8	4,096	3,072	8	32	256	Square Edge, Scored Square Edge, Tongue & Groove
	¾ x 24 x 96 (Half unit)	4 x 8 x 4	2,048	1,536	4	32	128	
	¾ x 48 x 96	4 x 8 x 8	4,096	3,072	8	16	128	
	¾ x 48 x 96 (Half unit)	4 x 8 x 4	2,048	1,536	4	16	64	
	¾ x 48 x 108	4 x 9 x 8	4,608	3,456	8	16	128	
	¾ x 48 x 120	4 x 10 x 8	5,120	3,840	8	16	128	
1	1 x 24 x 96	4 x 8 x 8	3,072	3,072	8	24	192	
	1 x 24 x 96 (Half unit)	4 x 8 x 4	1,536	1,536	4	24	96	
	1 x 48 x 96	4 x 8 x 8	3,072	3,072	8	12	96	
	1 x 48 x 96 (Half unit)	4 x 8 x 4	1,536	1,536	4	12	48	
	1 x 48 x 108	4 x 9 x 8	3,456	3,456	8	12	96	
1½	1.5 x 24 x 96	4 x 8 x 8	2,048	3,072	8	16	128	
	1.5 x 48 x 96	4 x 8 x 8	2,048	3,072	8	8	64	
2	2 x 24 x 96	4 x 8 x 8	1,536	3,072	8	12	96	
	2 x 24 x 96 (Half unit)	4 x 8 x 4	768	1,536	4	12	48	
	2 x 24 x 108	4 x 9 x 8	1,728	3,456	8	12	96	
	2 x 48 x 96	4 x 8 x 8	1,536	3,072	8	6	48	
2½	2.5 x 24 x 96	4 x 8 x 8	1,152	2,880	8	9	72	
	2.5 x 48 x 96	4 x 8 x 8	1,152	2,880	4	9	36	
3	3 x 24 x 96	4 x 8 x 8	1,024	3,072	8	8	64	
	3 x 48 x 96	4 x 8 x 8	1,024	3,072	8	4	32	
4	4 x 24 x 96	4 x 8 x 8	768	3,072	8	6	48	
	4 x 48 x 96	4 x 8 x 8	768	3,072	8	3	24	

1. Available lengths and edge configurations vary by thickness. See www.foamular.com for current offerings. Other sizes may be available upon request. Consult your local Owens Corning representative for availability.

FOAMULAR® Extruded Polystyrene (XPS) Insulation has a maximum service temperature of 165°F. Taking simple precautions during construction can minimize the potential for heat related damage. Install only as much FOAMULAR® XPS Insulation as can be covered in the same day. For horizontal applications, always turn the print side down so the black print does not show to the sun which may at times act as a solar collector, raising the temperature of the foam under the print to an unacceptable level. Provide a final finish covering or temporary white opaque covering to avoid possible damage when dark (non-white) surfaces are used over FOAMULAR® XPS Insulation. Do not cover FOAMULAR® XPS Insulation either stored (factory wrapped or unwrapped), or partially installed, with dark colored (non-white), or clear (non-opaque) coverings and leave it exposed to the sun. Examples of such coverings include but are not limited to filter fabrics, membranes, temporary tarps, clear polyethylene, etc. If improperly covered, and exposed to the right combination of sun, time and temperature, FOAMULAR® XPS Insulation deformation damage may occur rapidly. See Owens Corning publication number 10015704, "Heat Build Up Due to Solar Exposure" for more information.

Standards, Codes Compliance

- Meets ASTM C578 Type IV
- UL Classified. A copy of UL Classification Certificate U-197 is available at www.owenscorning.com
- See ICC-ES ESR-1061 at www.icc-es.org
- ASTM E119 Fire Resistance Rated Wall Assemblies. See www.owenscorning.com for details.
- Meets California Quality Standards; HUD UM #71A
- Compliance verification by RADCO (AA-650)

FOAMULAR® 250
Extruded Polystyrene (XPS) Rigid Foam Insulation

Product Data Sheet

Certifications and Sustainable Features of FOAMULAR® XPS Insulation

- FOAMULAR® XPS Insulation is reusable
- FOAMULAR® XPS Insulation is made with a zero ozone depletion formula
- Certified by Scientific Certification Systems to contain a minimum of 20% pre-consumer recycled polystyrene
- Certified to meet indoor air quality standards under the stringent GREENGUARD Certification Program and GREENGUARD Gold Certification Program
- Qualified as an ENERGY STAR® product, under the U.S. Environmental Protection Agency and the U.S. Department of Energy
- Approved under the Home Innovation Research Labs NGBS Green Certification Program
- Utilizing FOAMULAR® XPS Insulation can help builders achieve green building certifications including the Environmental Protection Agency's ENERGY STAR®, the National Association of Home Builders' National Green Building certification, and the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED®) certification

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at http://sustainability.owenscorning.com.

Warranty

FOAMULAR® XPS Insulation limited lifetime warranty maintains 90% of its R-value for the lifetime of the building and covers all ASTM C578 properties. See actual warranty for complete details, limitations and requirements at www.owenscorning.com.

All products described here may not be available in all geographic markets. Consult your local sales offi ce representative for more information.

For more information on the Owens Corning family of building products, contact your Owens Corning dealer, call 1-800-GET-PINK®, or access www.owenscorning.com.

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GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.

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This Home Innovation Research Labs Green Approved mark is your assurance that a product is eligible for points toward National Green Building Certification. Visit www.GreenApprovedProducts.com for details.

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VAPORBLOCK® PLUS™ VBP20

Under-Slab Vapor / Gas Barrier

Product Description

VaporBlock® Plus™ 20 is a seven-layer co-extruded barrier made from state-of-the-art polyethylene and EVOH resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission. VaporBlock® Plus™ 20 is a highly resilient underslab / vertical wall barrier designed to restrict naturally occurring gases such as radon and/or methane from migrating through the ground and concrete slab. VaporBlock® Plus™ 20 is more than 100 times less permeable than typical high-performance polyethylene vapor retarders against Methane, Radon and other harmful VOCs.

VaporBlock® Plus™ 20 is one of the most effective underslab gas barriers in the building industry today far exceeding ASTM E-1745 (Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs) Class A, B and C requirements. Available in a 20 (Class A) mil thicknesses designed to meet the most stringent requirements. VaporBlock® Plus™ 20 is produced within the strict guidelines of our ISO 9001:2008 Certified Management System.

Product Use

VaporBlock® Plus™ 20 resists gas and moisture migration into the building envelop when properly installed to provide protection from toxic/harmful chemicals. It can be installed as part of a passive or active control system extending across the entire building including floors, walls and crawl spaces. When installed as a passive system it is recommended to also include a ventilated system with sump(s) that could be converted to an active control system with properly designed ventilation fans.

VaporBlock® Plus™ 20 works to protect your flooring and other moisture-sensitive furnishings in the building's interior from moisture and water vapor migration, greatly reducing condensation, mold and degradation.

Size and Packaging

VaporBlock® Plus™ 20 is available in 10' x 150' rolls to maximize coverage. All rolls are folded on heavy-duty cores for ease in handling and installation. Other custom sizes with factory welded seams are available based on minimum volume requirements. Installation instructions and ASTM E-1745 classifications accompany each roll.

Applications

- ✓ Radon Barrier
- ✓ Methane Barrier
- ✓ VOC Barrier
- ✓ Under-Slab Vapor Retarder
- ✓ Foundation Wall Vapor Retarder

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VAPORBLOCK® PLUS™ VBP20

Under-Slab Vapor / Gas Barrier

Manufactured In:

ISO 9001:2008
CERTIFIED MANAGEMENT SYSTEM

PROPERTIES	TEST METHOD	VAPORBLOCK® PLUS™ 20 Imperial	VAPORBLOCK® PLUS™ 20 Metric
APPEARANCE		White/Gold	
THICKNESS, NOMINAL		20 mil	0.51 mm
WEIGHT		102 lbs/MSF	498 g/m²
CLASSIFICATION	ASTM E 1745	CLASS A, B & C	
TENSILE STRENGTH LBF/IN (N/cm) AVERAGE MD & TD (NEW MATERIAL)	ASTM E 154 Section 9 (D-882)	58 lbf	102 N
IMPACT RESISTANCE	ASTM D 1709	2600 g	
MAXIMUM USE TEMPERATURE		180°F	82°C
MINIMUM USE TEMPERATURE		-70°F	-57°C
PERMEANCE (NEW MATERIAL)	ASTM E 154 Section 7 ASTM E 96 Procedure B	0.0098 Perms grain/(ft²•hr•in•Hg)	0.0064 Perms g/(24hr•m²•mm Hg)
(AFTER CONDITIONING) PERMS (SAME MEASUREMENT AS ABOVE PERMEANCE)	ASTM E 154 Section 8, E96 Section 11, E96 Section 12, E96 Section 13, E96	0.0079 0.0079 0.0097 0.0113	0.0052 0.0052 0.0064 0.0074
WVTR	ASTM E 96 Procedure B	0.0040 grains/hr-ft²	0.0028 gm/hr-m²
RADON DIFFUSION COEFFICIENT	K124/02/95	$< 1.1 \times 10^{-13}$ m²/s	
METHANE PERMEANCE	ASTM D 1434	$< 1.7 \times 10^{-10}$ m²/d•atm 0.32 GTR (Gas Transmission Rate) ml/m²•D•ATM	

VaporBlock® Plus™ Placement

All instructions on architectural or structural drawings should be reviewed and followed.
ASTM E-1643 also provides general installation information for vapor retarders.

VaporBlock® Plus™ is a seven-layer co-extruded barrier made using high quality virgin-grade polyethylene and EVOH resins to provide unmatched impact strengths as well as resistance to gas and moisture transmission.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. GLOBAL PLASTIC SHEETING MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

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