

**APPENDIX F**

**HAZARDOUS MATERIALS**

## **APPENDIX F.1**

### **ENVIRONMENTAL ISSUES IN PROJECT AREA**

**Table F-1**  
**Environmental Issues in Project Area**

Block	Lot	Address	Phase I	Current Use	Historical Uses	Site Reconnaissance Notes	Database Review	Environmental Issues
1986	1	3260 Broadway	X	Mobil Gas Station	Developed as a gas station.	One gasoline vent pipe and three other vent pipes observed; four monitoring wells; a waste oil UST is located in front of the building.	Several petroleum spills listed; Gasoline USTs closed and removed and 3 in-service gasoline USTs: Large Quantity Generator of hazardous waste	Gas station; Large Quantity Generator of hazardous waste; gasoline USTs; Known soil, and groundwater contamination;
1986	6	573-577 W. 131st	X	Warehouse; parking	Garage with gasoline USTs; chemical manufacturing company with chemical ASTs.	Potential vent pipe associated with former gasoline USTs; petroleum ASTs.	Two gasoline USTs closed; chemical manufacturing listed as RCRA Hazardous Waste generator; fuel oil ASTs.	Former auto garage with gasoline USTs; former chemical manufacturing with ASTs.
1986	10	555 W. 131st	X	Auto-repair garage	Former auto garage with gasoline USTs.	No evidence of gasoline tanks noted; hydraulic lifts noted.	Baseline UST closed in place.	Former and current auto garage; gasoline USTs; hydraulic lifts.
1986	30	3270 Broadway	X	U'Haul	Former service station.	Three gasoline vent pipes.	No listings.	Former service station; gasoline USTs closed in place.
1986	65	3280-3290 Broadway	X	Office building	Former service station; gasoline UST; Radiological research.	10,000 Fuel Oil AST; one fuel oil vent noted.	Hazardous waste generator but RCRA information for this facility was not reported.	Former service station; gasoline UST; 10,000 fuel oil AST.
1987	1	3300-3318 Broadway		Department store; parking	Chevrolet Motor Car Co. Service Station; College of the City of New York.; commercial use since then.	No evidence of storage tanks noted during the reconnaissance.	No listings.	Service station.
1987	7	553-559 W. 133rd	X	Parking garage; auto repair	Gasoline station, auto repair, auto laundry, lubritroleum, and parking garage; gasoline USTs.	Waste oil AST; vent pipes (three gasoline; two fuel oil); two suspect fuel oil fill pipes; three former hydraulic lifts.	No listings	Historical gas station with gasoline USTs; two unknown status fuel oil tanks; hydraulic lifts.
1987	9	547-551 West 133rd	X	Two auto repair garages	Auto repair; gasoline USTs.	Waste oil ASTs; six gasoline vent pipes.	Petroleum spills.	Waste oil ASTs, Gasoline vent pipes; one former 500-gallon fuel oil tank.
1995	31	3205-3219 Broadway / 601-611 W. 125th / 600-602 W. 129th	X	Restaurant; Community Center; Paint company	Residential structures; commercial use.	AST in basement; fill pipes; storage of chemicals, paints, varnishes, lacquers.	Petroleum release reported.	Fuel oil ASTs.
1995	35	613-629 W. 125th / 616-620 W. 129th		BP Gas Station	Gas station.	Three pump islands; monitoring wells were noted; gasoline vents.	Gasoline USTs; lube oil UST.	Has been a gas station since at least 1951.
1996	1	658-668 W. 125th		The Cotton Club	3-story residences with first-floor store fronts; filling station.	Structure and asphalt-paved parking. No evidence of storage tanks.	No listings.	Gasoline station.
1996	14	637-647 W. 125th / 634-642 W. 130th	X	Columbia University office	1909 - Railroad car repair; 1912 - Factory; 1951 - Auto sales; 1976 - Factory.	Two hydraulic oil tanks containing submerged elevator motors.	1989 - Petroleum (#2 fuel oil) spill - "will excavate, isolate, and retest." Closed 1993.	Historic auto sales; potential vent pipe noted on southern side of building.
1996	15	635 West 125th	X	Warehouse; beauty salon.	Commercial uses.	Fuel oil AST, motor oil AST, waste oil AST; vent pipe for potential gasoline UST.	No listings.	Fuel oil AST; lube and waste oil ASTs; potential USTs; auto-related use.
1996	16	631-633 W. 129th / 628-630 W. 130th	X	Office; parking garage	Historically a condensed milk factory; parking garage.	Suspect vent pipes.	No listings.	Historical use as a parking garage; possible historic gasoline USTs; possible fuel oil tank.
1996	18	627-629 W. 129th / 624-626 W. 130th	X	Parking garage; auto repair	Auto garage with gasoline UST; fuel oil burner and gasoline USTs installation plans were filed; fuel oil tank AST.	Potential fuel oil tank; vent pipes; auto repair use; potential petroleum storage tanks; possible oil-water separator (suspect floor plates).	No listings.	Historical and current auto repair use. Possible fuel oil tank; likely gasoline USTs beneath the building; suspect floor plates on sidewalk.
1996	20	623 W. 129th	X	Dry cleaner; welding shop; locksmith	Historical store-fronted dwelling, a factory, and an ink and supply warehouse. Dry cleaner.	Dry cleaning chemicals stored on-site.	Conditionally Exempt Small Generator of hazardous waste.	Dry cleaners; oil burner applications; fuel oil UST.
1996	21	613-615 W. 129th / 618 - 620 W. 130th	X	Vacant building	Auto-repair related uses; gasoline UST.	Petroleum AST; fuel oil fill cap and vent pipe; hydraulic lifts; motor oil AST; waste oil AST and drums.	No listings.	Historic and present use as auto repair shop; waste oil ASTs; potential historic gasoline UST.
1996	23	603 W. 129th		Parking lot	Factory; ink manufacturing plant; parking lot; fuel oil burner applications.	Asphalt-paved parking lot.	Petroleum release.	Historic use as an unknown factory; an ink factory; potential fuel oil tanks; Current use as parking lot.

**Table F-1  
Environmental Issues in Project Area**

Block	Lot	Address	Phase I	Current Use	Historical Uses	Site Reconnaissance Notes	Database Review	Environmental Issues
1996	29	3221 Broadway/ 601 W. 129th	X	Auto repair and gasoline station	Coal yard; underground parking garage; gasoline station and auto repair.	Active gasoline USTs and waste oil AST; Six monitoring wells.	Gasoline USTs; Leaking Underground Storage Tank (LUST) reported; tank test failures; active spills; Small Quantity Generator of hazardous waste.	Gas station with USTs; Small Quantity Generator of hazardous waste; soil, groundwater and bedrock contaminated by gasoline.
1996	34	3229-3231 Broadway		Hudson Moving and Storage	Dairy company; warehouse.	No evidence of storage tanks noted during the reconnaissance.	No listings.	Warehouse use.
1996	36	3233-3235 Broadway/ 600 W.130th	X	Vehicle storage	Filling station and auto painting and repair facility.	Hydraulic lifts; cut vent pipes and potential fill caps for former gasoline USTs. In-ground waste oil receptacles.	The Amoco Service Station; fuel oil and unspecified storage tanks; in-service unleaded gasoline USTs and used oil tank.	Former Amoco gas station. Closed-in-place gasoline USTs. Hydraulic lifts.
1996	50	632 W. 130th	X	Construction contracting office	Feed storage; iron works; Boiler repair shop	Fill port noted; Minor welding done at the site.	US EPA RCRA transporter.	Iron works. Acetylene tanks.
1996	56	651-661 W. 125th/ 644-652 W. 130th		Tuck-It-Away storage company	Fuel oil permit; auto sales/repair.	No evidence of storage tanks noted during the reconnaissance.	No listings.	Auto sales and repair circa 1951, maps indicated a gasoline UST.
1996	61	663 W. 125th		Car wash and BP Gas Station	Filling station/service station; gasoline and diesel tanks.	Three pump islands; office and car wash.	Several petroleum spills.	Gas station
1997	1	647-651 W. 130th /2283-2289 12th Ave	X	Auto repair and meat wholesale	Garage; gasoline USTs; Fuel Oil tanks; spray booth with paint storage.	Fuel oil and gasoline fills; 275-gallon waste oil AST, hydraulic car lifts and associated 5-gallon oil canisters, suspect pipes, sidewalk access to potential tank noted.	No listings.	Former and current garage with paint booth; former and current gasoline USTs and fuel oil tanks.
1997	6	641-645 W. 130th / 640-644 W.131st		MTA-NYCT Department of Buses	Coach company; garage.	Fuel oil and gasoline fills; old fuel oil vents.	Fuel oil UST; fuel oil released on land.	Former and current garage; fuel oil UST; tank test failure.
1997	9	631 W. 130th	X	Plumbing and Heating Company	Paint shed; used auto sales; gasoline UST; parking; garages and auto repairs facilities.	No evidence of tanks or other environmental concerns during site inspection.	No listings.	Former painting, former auto sales (possible repair), former gasoline USTs.
1997	14	625-629 W. 130th	X	Skyline windows	Rag & bottle company; car storage; gasoline USTs; garage & repair; fuel oil permit; garage.	Gasoline fill cap.	Unknown petroleum product release to groundwater in 2003.	Factory; former garage with auto repair; gasoline and fuel oil tanks; gasoline fill port and vents.
1997	17	623 W. 130th	X	Parking	Residential; parking and loading dock.	Unpaved parking area.	No listings.	Unpaved parking area.
1997	18	619 W. 130th	X	Vacant building	Auto house; gasoline USTs; factory.	Fuel oil AST; Numerous 55-gallon drums; chemical lab; fuel oil fill caps and vent pipe.	1,500-gallon fuel oil AST	Former gasoline UST, in-service fuel oil AST; chemical storage; chemical lab.
1997	21	615 W. 130th	X	Vacant warehouse	fuel oil permit; Asbestos in cellar boiler room	Cut off vent pipe and fill; 55-gallon drum; closed fuel oil AST	No listings.	Warehouse, former fuel oil storage.
1997	27	603-607 W. 130th	X	Verizon	Sheet metal factory; gasoline USTs; electronics; manufacturing; warehouse of unknown use.	Transformer vaults along West 130th Street; fuel oil USTs, gasoline USTs, waste oil AST.	Reported petroleum releases; gasoline USTs; used oil AST; Small-Quantity Generator.	Former factory and garage; gasoline USTs and waste oil and fuel oil ASTs; petroleum spills, RCRA SQG.
1997	29	601 W.130th/ 3241 Broadway	X	Church	Auto sales; fuel oil permit	2 fuel oil ASTs	No listings.	Former auto sales (possible repair), former and current fuel oil storage, fill and vent lines noted.
1997	30	3243-3247 Broadway	X	Moving and storage	Auto sales; storage tanks.	Inactive fuel oil ASTs	No listings.	Historic garage use; gasoline UST; fuel oil tank.
1997	33	3247 Broadway	X	Auto repair	Welding and auto repair shop.	Auto-related chemical storage; hydraulic lifts.	Open spill.	Current and former garage with auto repair, reported spill, hydraulic lifts.
1997	34	602 W. 131st	X	Auto repair	Garage; auto sales; gasoline UST	Waste oil 275-gallon AST, three 55-gallon waste oil drums, suspect vent pipe, hydraulic lifts, numerous discarded batteries, antifreeze, heavy petroleum staining throughout.	No listings.	Garage; gasoline UST; RCRA LQG

**Table F-1  
Environmental Issues in Project Area**

Block	Lot	Address	Phase I	Current Use	Historical Uses	Site Reconnaissance Notes	Database Review	Environmental Issues
1997	40	604-612 W.131st / 609-613 W. 130th	X	Pearlgreen hardware store	Gasoline USTs; fuel oil permit; garage; warehouse.	No evidence of storage tanks noted during the reconnaissance.	No listings.	Former garage, former gasoline USTs and fuel oil storage.
1997	44	614-618 W. 131st		Moving and storage	Garage; gasoline USTs; parking; fuel oil application.	No evidence of storage tanks noted during the reconnaissance.	No listings.	Current and former garage, former gasoline USTs and fuel oil storage
1997	47	620 W. 131st	X	Auto repair	Auto repair shop; private garage; gasoline USTs.	Waste oil AST; hydraulic lifts.	No listings.	Current and former garage and repair shop, gasoline UST.
1997	48	622 W. 131st		Church	Garage; gasoline UST.	Fill cap and vent pipe.	No listings.	Former auto repair with one gasoline UST, fill and vent pipes noted.
1997	49	624-628 W. 131st	X	Construction contracting company	Refrigeration plant; auto parking; gas tank permit; garage, weighing facility.	A fill pipe and tank filling gauge; Three large weighing scales.	No listings.	AKRF attempted to locate and remove UST in March 2003; no tank was found.
1997	52	630-634 W. 131st	X	Auto repair	Fuel oil permit; gas tank permit; auto service; parking	One fuel oil fill cap and vent pipe noted.	No listings.	Fuel oil burner application; gas tank applications; fuel oil tank.
1997	55	636 W. 131st	X	Auto repair	Garage; gasoline USTs, fuel oil tanks; spray booth with paint storage.	Fuel oil vent, two 55-gallon drums, hydraulic car lifts and associated 5-gallon oil canisters, sidewalk access to potential tank noted.	Two active DOB boiler violations.	Former and current auto repair. Potential tank.
1997	56	638 W. 131st	X	Contractor's storage; commercial	Residential dwelling; contractor and an auto repair; bologna factory; garage.	No evidence of tanks or other environmental concerns during site inspection.	No listings.	Former garage.
1997	61	2293-2297 12th Ave / 646-648 W. 131st Street		Commercial office and restaurant	Refrigeration plant; storage.	No evidence of storage tanks.	No listings.	Former refrigeration plant, unlabeled factory.
1997	64	2291 12th Ave	X	Vacant	Residential dwelling; factory; commercial.	No evidence of storage tanks noted during reconnaissance.	No listings.	Former factory, current warehouse
1998	1	659 W.131st / 2301 12th Ave	X	Vacant (former diner)	Residential dwelling; junk yard.	No evidence of tanks or other environmental concerns during site inspection.	No listings.	Former junk yard in the vacant lot east of the project building.
1998	3	2305-2307 12th Ave	X	Fish, meat, warehouse	Refrigeration plant and offices.	No evidence of tanks was noted during the site reconnaissance.	No listings.	Fish/Meat warehouse.
1998	6	653-655 W. 131st	X	Storage area for Midway Electric	Lumber shed; paper storage warehouse; garage with gasoline UST.	No evidence of tanks was noted during the site reconnaissance.	No listings.	Former auto repair use, historic gasoline UST.
1998	10	641-651 W. 131st	X	Midway Electrical Supply	Garage and a cement works; commercial buildings; gasoline USTs; fuel oil permit.	Vent pipes and fill cap;	Reported spills; fuel oil UST.	Former garage; historic gasoline USTs; fuel oil UST.
1998	13	635-639 W.131st	X	Parking garage	Residential; garage; gasoline USTs	Fill caps and vent pipes; waste oil AST.	No listings.	Present and former use as a garage. gasoline USTs; waste oil AST.
1998	16	633 W. 131st		Columbia University office.	Residential	No evidence of tanks was noted during the site reconnaissance.	No listings.	No on-site issues.
1998	17	611-631 W. 131st / 610-624 W.132nd	X	Columbia University office	Gas tanks; fuel oil permit; paint room, solvent storage room, spray booths; fuel oil tank	Several toxic and/or hazardous materials; fuel oil AST.	Fuel oil AST, Small Quantity Generator;	Factory; fuel oil AST; gasoline USTs, RCRA SQG. FORMER MGP GAS HOLDER.
1998	24	607-609 W. 131st / 606-608 W. 132nd	X	Chemical Company	Fuel oil permit; auto service w/ gasoline tanks; garage; chemical company.	Storage of chemicals; monitoring wells.	Large Quantity Generator of hazardous waste	Chemical company on-site, former garage and auto service, gasoline USTs, RCRA LQG

**Table F-1  
Environmental Issues in Project Area**

Block	Lot	Address	Phase I	Current Use	Historical Uses	Site Reconnaissance Notes	Database Review	Environmental Issues
1998	26	603-605 West 131st	X	Chemical Company	Fuel oil permit; auto service w/ gasoline tanks; garage; chemical company.	Storage of chemicals.	Leaking Underground Storage Tank (LUST)	Current and former use as a garage, former gasoline USTs and potential former fuel oil storage
1998	29	600 W.132nd / 3259-3275 Broadway / 601 W.131st Street		Moving and Storage company	Auto sales & service; fuel oil permit; oil tank and grease trap.	Evidence of former tank; potential old vent pipe.	No listings.	Current use for auto parking, former auto repair, former fuel oil storage.
1998	38	602-604 W. 132nd		Residential	Fuel Oil tank	Fuel oil fill pipe and vent; evidence of significant spill.	Fuel oil UST in service.	Fuel oil storage, severe staining at fill pipe.
1998	49	626 W. 132nd		Con Ed Cooling Plant	Standard Gas & Light Company (associated with manufactured gas holders); transformer yard	Paved and stones beneath the transformers; some of the stones appeared stained.	Reported spills; Conditionally Exempt Small Quantity Generator.	Transformer yard, multiple reported spills; - RCRA CESQG
1998	57	638-644 W. 13th	X	Verizon parking and maintenance garage	Lime shed and stable; garage; Bordens Milk Company; gasoline USTs; diesel UST; waste oil and motor oil ASTs.	Former pump islands; a gasoline/water separator.	Gasoline USTs; diesel USTs.	Former garage; former gasoline USTs, former waste oil and motor oil ASTs.
1998	61	2311-2317 12th Ave / 646-652 West 132nd	X	Auto repair and parking	Lime shed and stable; garage; Bordens Milk Company; gasoline USTs; auto repair; waste oil and motor oil ASTs.	Waste oil AST; hydraulic lifts; auto painting.	No listings.	Auto and auto body repair (painting); waste oil AST; historic gasoline USTs.
1999	1	604-670 W.133rd / 2319-2329 12th Ave / 605-663 W. 132nd		Bus Depot, Bus Parking	Manufactured gas holder; auto trucking; gasoline USTs; garage; bus depot, bus parking.	Monitoring wells; transmission fluid UST fill ports; lube oil UST fill ports.	Reported spills, gasoline and other petroleum USTs; petroleum ASTs, Large Quantity Generator of hazardous waste.	Parking lot and garage; petroleum USTs; multiple spills and leaks of diesel and gasoline; MGP site.
1999	29	3281 Broadway / 601 W.132nd		Residential	Residential dwelling with a store front.	No evidence of storage tanks noted during reconnaissance.	No listings.	No on-site issues.
1999	30	3283 Broadway		Residential	Residential dwelling with a store front.	No evidence of storage tanks noted during reconnaissance.	No listings.	No on-site issues.
1999	31	3285 Broadway		Residential	Residential dwellings; fuel oil tank.	Vent pipes and fill port.	Gasoline tank	Vent pipe and fill port; gasoline tank.
1999	32	3287 Broadway	Residential	No listings.				
1999	33	3289 Broadway	Residential	No listings.				
1999	36	600 W. 133rd / 3291-3299 Broadway	X	Residential and retail	Residential dwelling with a store front; fuel oil tank.	Residential with stores; fill and vent.	Fuel oil tank	Fill port and vent pipe: fuel oil tank.
2001	100	2331-2333 12th Ave / 697-699 W. 133rd		Beer and Soda distributor	Vermont Marble Company; Cleantex Cleaners; grocery warehouse; oil burner application	One fill cap and vent pipe.	No listings.	Large scale cleaning company (using solvents); fuel oil storage tank.
2001	110	2335-2339 12th Ave		Cleantex Industrial Cleaners	Vermont Marble Company; CleanTex Cleaners, which contained a solvent tank.	No evidence of storage tanks noted during reconnaissance.	Fuel oil released.	Large scale cleaning company; fuel oil storage tank and reported spill.
2001	120	2341-2347 12th Ave / 640 W.134th		Cleantex Industrial Cleaners	Residential structure and a stable; gasoline USTs; oil burner applications.	One fill cap and vent pipe.	No listings.	Historic garage with gasoline USTs.

**Table F-1  
Environmental Issues in Project Area**

Block	Lot	Address	Phase I	Current Use	Historical Uses	Site Reconnaissance Notes	Database Review	Environmental Issues
1988	1	3320-3332 Broadway / 535-539 W. 134th / 536-54 W. 135th		Supermarket, moving and storage	Auto auction; gasoline UST; auto sales and service.	One fill cap and vent pipe.	No listings.	Historic auto-related uses - sales and service; gasoline UST; fuel oil tank.
1988	8	527 W. 134th		Residential	Residential structure.	Suspect vent pipes.	No listings.	Suspect vent pipes - potential fuel oil tanks.
1988	53	520-532 W. 135th		Hamilton Job Center	Garage with gasoline USTs.	Transformers on West 135th Street.	No listings.	Former garage with gasoline USTs.
1988	60	534 W. 135th / 529-533 W. 134th		Community Health Center; Hair Salon	Garage with gasoline USTs.	No evidence of storage tanks noted during reconnaissance.	Reported petroleum spill.	Former garage gasoline USTs; reported spill.
2004	8	712-718 W. 125th		Store; storage; parking lot	"Manhattanville Station" - N.Y. Central and Hudson River Railroad; auto repair shop.	Hydraulic car lifts on parking lot.	No listings.	Former auto repair; Hydraulic lifts in parking lot.
2004	12	700-710 W. 125th		Meat packing; tire store; electrical co. and wood shop	"Manhattanville Station"; Wilson and Company Cold Storage; auto repairs.	Sidewalk access to potential tank noted; black staining at side door.	Reported mercury spill.	Mercury spill; former auto repair; black staining.
2004	40	2282 12th Ave		Warehouse, storage	Hotel; cold storage; meat warehouse; café.	No evidence of storage tanks noted during reconnaissance.	No listings.	Potential former fuel oil tanks; Unknown warehouse use.
2004	42	2286-2288 12th Ave / 711 W. 125th		Warehouse, storage	Cold beef storage.	No evidence of storage tanks noted during reconnaissance.	No listings.	Unknown warehouse use.
2004	46	2290-2296 12th Ave / 713-719 W. 125th		Parking Lot	Cold beef storage with an independent electrical plant.	Demolished.	Reported petroleum release.	Historic "Independent Electrical Plant" associated with cold storage facility. Former garage or parking, reported release.
2004	50	Address Unknown		Parking Lot	The site contained West 131st Street from prior to 1909 to at least 1978.	Parking lot.	No listings.	No on-site issues.
2004	65	Address Unknown		Parking Lot	N.Y. Central and Hudson River Railroad; coal pockets (Interboro Coal).	Parking lot.	No listings.	Site has been vacant except for historic railroad tracks; Coal pockets.
2004	68	2300 12th Ave		Parking Lot	Cold beef storage and a stable storing hay and grain; provisions storage; garage and parking.	Parking lot.	No listings.	Garage and parking since sometime between 1951 and 1976. Historic warehouse use.
2004	71	2302-2306 12th Ave		Parking Lot	Cold beef storage; warehouse.	Parking lot.	No listings.	Historic unknown warehouse use.
2004	72	2314 12th Ave		Harlem Bait & Tackle and Fairway storage	Cold beef storage and hay and grain storage; chemical manufacturer.	Cold storage.	No listings.	Chemical manufacturer; Fairway cold storage.
2004	102	2328-2330 12th Ave / 701 W.132nd		Fairway	Freight station and cold beef storage; train tracks; coal yard; fuel oil ASTs; gas tank permit.	No evidence of tanks noted during the reconnaissance; transformer vaults on sidewalk.	No listings.	Past use as freight station and parking lot; former fuel oil and gasoline storage.
2004	106	2338 12th Ave		Fairway			No listings.	
2005	8			Parking lot and storage for Fairway.	The site has remained vacant except for historical railroad tracks.	Parking lot for Fairway; loading and storage for Fairway.	No listings.	Fairway cold storage.
2005	9	2350-2362 12th Ave		Parking lot.	The site has remained vacant except for historical railroad tracks.	Parking lot.	No listings.	Railroad tracks; parking lot.

**Table F-1**  
**Environmental Issues in Project Area**

Block	Lot	Address	Phase I	Current Use	Historical Uses	Site Reconnaissance Notes	Database Review	Environmental Issues
2005	12	2344-2348 12th Ave / 701 W. 133rd		Restaurant under construction	Wagon shed and a stone house; gas tank permit.	Auto repair, detailing, and car wash. No evidence of tanks was noted during site reconnaissance.	No listings.	Current auto repair use; gas tank permit.
2005	27	702 West 135 <sup>th</sup>		Vacant building; parking lot	Coal pockets; police station.	No evidence of tanks was noted during the site reconnaissance.	No listings.	No on-site issues.
2005	32	2368 12th Ave		Tommy Hilfiger storage	Railroad tracks.	No evidence of gasoline tanks noted during reconnaissance.	No listings.	Historic railroad tracks ran through the eastern half of the site.



## **APPENDIX F.2**

### **SUBSURFACE (PHASE 2) INVESTIGATION**

# **Columbia Manhattanville**

**TAX BLOCKS 1986, 1987, 1995-1999**

**NEW YORK, NEW YORK**

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## **Subsurface (Phase II) Investigation**

**AKRF Project Number: 10470**

**Prepared for:**

Kramer Levin Naftalis & Frankel LLP  
1177 Avenue of the Americas  
New York, NY 10036

**Prepared by:**



**AKRF, Inc.**  
440 Park Avenue South, 7th Floor  
New York, New York 10016  
646-388-9500

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**APRIL 2006**

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## 1.0 INTRODUCTION

AKRF, Inc. (AKRF) conducted a Subsurface (Phase II) Investigation at the Columbia-Manhattanville properties located in Harlem, New York, as shown on Figure 1 (Project Area). The objective of the subsurface investigation was to characterize the subsurface conditions and determine whether past or present on-site and/or off-site potential sources of contamination have adversely affected the Project Area. Results of the Phase II study were also intended to be used to evaluate any potential environmental risks and/or the need for remedial action at the site prior to future development.

The 35-acre rezoning area has a long history of industrial and manufacturing uses and, therefore, there is potential for residual contaminants, including soil and/or groundwater contamination associated with buried storage tanks and the remnants of two manufactured gas plants. Development within the Project Area would involve excavation and disturbance of the existing soil, dewatering of groundwater, and renovation or demolition of existing structures. Consequently, construction activities could temporarily increase exposure pathways for the surrounding community and construction workers to these potential contaminants.

Subsurface (Phase II) activities were conducted in accordance with AKRF's New York City Department of Environmental Protection (NYCDEP)-approved Sampling Protocol and site-specific Health and Safety Plan (HASP) dated February 2005. The Phase II study included the advancement of twenty-two soil borings, nineteen of which were retrofitted with groundwater monitor wells, and the collection of soil and groundwater samples for laboratory analysis. This report describes methods and results of the Phase II investigation conducted by AKRF. All of the soil and groundwater samples were collected from properties within the Project Area owned or controlled by Columbia University, which comprised properties within the Academic Mixed-Use Area only (Figures 1 and 2). Properties outside the Academic Mixed-Use Area (i.e., not controlled by Columbia University) were evaluated for potential assignment of "e-designations" by the NYCDEP, as discussed further in the following section.

## 2.0 BACKGROUND

### 2.1 Preliminary Environmental Site Assessment (PESA)

A Preliminary Environmental Site Assessment (PESA) was prepared for the entire Project Area, including the Academic Mixed-Use Area, to assess the potential for hazardous or contaminated materials in buildings or the soil and groundwater from past or present uses. The PESA incorporated: street-level site inspections; a review of historic maps, regulatory records and existing environmental studies; and 27 individual Phase I Environmental Site Assessments (Phase I ESAs) conducted for properties within the Academic Mixed-Use Area in accordance with American Society for Testing and Materials (ASTM) Standard E1527-00.

Each lot in the Project Area was studied to determine whether current or historical, known or potential, hazardous materials conditions may have affected the lot or adjacent lots. Factors that were considered when making this determination included the severity and probability of the potential hazardous materials condition, as well as physical, geological, or hydrogeological (groundwater) conditions that may have affected the migration of hazardous materials.

For the 35-acre Project Area the following research was conducted:

- A visual inspection of each property from sidewalks and public rights-of-way to identify current uses and assess existing conditions.

- An evaluation of land use history using available historical maps.
- A review of federal and state databases regarding hazardous materials for sites within the Project Area and for the surrounding area.
- A review of available geologic, hydrologic, hydrogeologic, and topographic information from existing data sources.
- A review of available Phase I ESAs and environmental and geotechnical reports previously conducted by AKRF and others, including historic mapping and boring logs.
- Interior inspections of the 27 sites where individual Phase I ESAs were performed.

At the time of this study, the majority of the Project Area was occupied by commercial, manufacturing, and light industrial uses, including gas stations and auto repair shops, and the Manhattanville Bus Depot (Discussed further in Section 2.2). The PESA identified numerous properties as having past or current auto-related uses. Two large manufactured gas holders were identified in the Project Area that were originally developed as manufactured gas plant (MGP) sites before 1909 and were operated as such until sometime before 1939. The areas occupied by these two MGP sites includes the current Manhattanville Bus Depot property located at 2319–2329 Twelfth Avenue (605–663 West 132nd Street) and the Columbia University property located at 611–631 West 131st (610–624 West 132nd Street). Based on the results of the PESA, the following potential classes/sources of contaminated materials at various sites in the Project Area were identified:

- Volatile organic compounds (VOCs). There are two main kinds of VOCs: aromatic compounds and chlorinated compounds. Aromatic compounds include benzene, toluene, ethylbenzene, xylene (BTEX), and methyl tertiary butyl ether (MTBE), which are found in petroleum products, especially gasoline. Chlorinated compounds include tetrachloroethene (also known as perchloroethylene or “perc”) and trichloroethene, which are common ingredients in solvents, degreasers, and cleansers, and in chemicals commonly used in dry cleaning. VOCs present the greatest potential for contamination since they can generate vapors, as well as contaminate soil and groundwater. Former or current gasoline tanks are the most likely sources for VOC contamination in the Project Area.
- Semivolatile organic compounds (SVOCs). The most common SVOCs in urban areas are polycyclic aromatic hydrocarbons (PAHs), which are constituents of partially combusted coal or petroleum-derived products, such as coal ash and fuel oil. PAHs are commonly found in New York City urban fill material, which likely underlies most of the Project Area. In addition, petroleum-related SVOCs could be associated with the numerous tanks currently or formerly located in the Project Area.
- Polychlorinated biphenyls (PCBs). Commonly used as a dielectric fluid in transformers, some underground high-voltage electric pipelines, and hydraulically operated machinery (e.g., hydraulic lifts). PCBs were also used in manufacturing and industrial applications (e.g., plastic manufacturing).
- Metals (including lead, arsenic, cadmium, chromium, and mercury). Metals contamination is frequently associated with smelters, platers, foundries, and metalworks and are found as components in paint, ink, petroleum products, and coal ash. These metals tend not to migrate far in soil and, therefore, they are of greatest concern at the site where they are generated. Metals at levels above natural background levels are frequently present in fill material throughout the New York metropolitan area.

- Pesticides, herbicides, and rodenticides. These are commonly used to control pests/rodents and/or insects and vegetation. They can be used both inside of buildings and outdoors.
- Fuel oil and gasoline storage tanks. Numerous residences and businesses within the Project Area currently have, or once had, aboveground storage tanks (ASTs) or underground storage tanks (USTs) for fuels, including heating oil and gasoline. Some of these tanks may have been removed, and others, although no longer in use, may remain buried in place or within basements. Some of the tanks are known to have leaked, and others may have leaked, though the leaks have not been discovered or documented. Some spills have been cleaned up in accordance with State regulations, but others have not because cleanup, which can take several years, is ongoing.
- Historic manufactured gas plant (MGP) gas holders. The two primary byproducts of MGPs are coal tar and purifier bed wastes. As freshly manufactured gas was cooled, less volatile chemicals condensed from the gas to an oily mixture to create coal tar. Coal tar is relatively viscous so it can migrate to adjacent properties, and it contains VOCs (including BTEX) and SVOCs (including PAHs). After the gas cooled, impurities were removed from the gas by sending it through purifier beds, which usually consisted of lime or wood chips impregnated with iron filings.
- Fill materials of unknown origin. In the past, waste materials, including coal and incinerator ash, demolition debris, and industrial wastes, were commonly used as fill in urban areas. Even fill material consisting primarily of soil may exhibit elevated levels of PAHs, metals, PCBs, and other contaminants. Such materials are potentially present throughout the Project Area.
- Asbestos. Asbestos is a common component of building materials, especially insulation, fireproofing, tile flooring, plaster, sheetrock, tile ceiling, mastic, and roofing materials. In addition to materials within existing structures, subsurface utility lines may be coated with asbestos or encased in “transite,” an asbestos-containing material (ACM). Asbestos was widely used before 1980. Because of the ages of the buildings in the Project Area, ACMs are likely present.
- Lead-based paint. The use of lead-based paint in New York City residential buildings was banned in 1960. Its use in other buildings and outdoors was severely restricted by the Consumer Products Safety Commission in 1977. Lead-based paint that is released (as dust or otherwise) is potentially hazardous, especially to children. Older buildings in the Project Area likely contain lead-based paint.

Based on the results of the PESA, in consultation with the New York City Department of Environmental Protection (NYCDEP), the Phase II Sampling Protocol dated February 2005 was developed by AKRF to evaluate the nature and prevalence of subsurface contamination at locations within the Academic Mixed-Use Area.

## 2.2 Manhattanville Bus Depot

As part of the environmental assessment of the Project Area, a Freedom of Information Law (FOIL) request was sent to the New York State Department of Environmental Conservation (NYSDEC) regarding the ongoing investigation and cleanup of the Metropolitan Transportation Authority (MTA) Manhattanville Bus Depot, which is located in the Academic Mixed-Use Area on the block bounded by West 132nd and 133rd Streets, Twelfth Avenue (Riverside Drive) and Broadway. The current structure was built in 1991 on the site of the former Manhattan and Bronx

Surface Transit Operating Authority Depot, which was built in 1918. Prior to that, portions of the site were used for the production and storage of manufactured gas. The bus depot is listed in the NYSDEC Petroleum Bulk Storage database as having 18 tanks currently in-service and 15 closed and removed tanks. The tanks contain (or formerly contained) diesel, No. 2 fuel oil, lube oil, leaded gasoline, and other products. In August 2002, URS Corporation (URS) completed a Remedial Investigation (RI) Report, which was submitted to the NYSDEC. Soil and groundwater beneath the site was found to have been affected by leaks from the site's tanks and two free product plumes were delineated. According to the report, leaking petroleum products are being recovered (approximately 11,705 gallons of product were removed between August 2001 and June 2002). Product recovery rates have since been reduced. As of May 2004, a total of 14,312 gallons had been recovered, but only 3 gallons were recovered during the final month.

In January 2003, URS completed a fingerprint analysis of petroleum product recovered from on-site monitoring wells. URS concluded that product detected in two of the monitoring wells represent a different release from that related to the product removal described above and may have come from the north-adjacent apartment building (fronting Broadway) or another upgradient facility. URS requested that NYSDEC investigate the potential source and instruct the responsible party to implement remedial action. No additional information regarding additional studies related to this other potential source of contamination was included in the documents received.

Remediation of the Manhattanville Bus Depot property appears to be on-going. Petroleum compounds detected in samples from nearby monitoring wells may indicate petroleum releases from the bus depot, or perhaps from the former MGP operations. It is possible that most of the former MGP structures (i.e., gas holders, etc.) previously located at the site were removed during construction of the on-site building. However, residual contamination from both the Manhattanville Bus Depot and former MGP site are likely present, which will require remediation as part of, or prior to, proposed future development plans for the site.

### **2.3 e-Designated Properties**

Selected lots outside the Academic Mixed-Use Area (i.e., properties not controlled by Columbia University), where the potential for contamination was identified in the PESA, have been recommended to receive an "e-designation" to ensure they are properly investigated and remediated, if necessary. A summary of the potential environmental concerns associated with each of these lots is provided in Table 2.3, and their locations are provided on Figure 2.

Under the e-designation, the lot owner must prepare a Phase I Environmental Site Assessment (ESA) before any redevelopment and, if necessary, implement a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before issuance of a building permit by the New York City Department of Buildings (DOB) (pursuant to Section 11-15 of the Zoning Resolution—Environmental Requirements). The e-designation also requires mandatory Construction Health and Safety Plans (CHASPs), which must be approved by NYCDEP.

**Table 2.3**  
**Proposed e-Designation Lots**

<b>Block</b>	<b>Lot</b>	<b>Environmental Issues</b>
1988	1	Historic auto-related uses - sales and service - one historic 550-gallon gasoline UST. Fuel oil tank.
	8	Suspect vent pipes - potential fuel oil tanks.
	53	Former garage use from circa 1939 through circa 1951 - historically four 550-gallon gasoline USTs and one 1,500-gallon gasoline UST.
	60	Former garage with four historic 550-gallon gasoline USTs.
2001	100	Large scale cleaning company (using solvents) circa 1939. Fuel oil storage tank.
	110	Large scale cleaning company containing a solvent tank circa 1939 through at least 1951. Fuel oil storage tank and spill.
	120	Historic 550-car capacity garage with four 550-gallon gasoline USTs.
2004	8	Former auto repair. Hydraulic car lifts in parking lot.
	12	Former mercury spill, former auto repair, black staining at side door during site reconnaissance.
	40	Potential former fuel oil tanks associated with historic hotel. Unknown warehouse use.
	46	Historic "Independent Electrical Plant" associated with cold storage facility. Former garage or parking, formerly generated "auto waste".
	68	Garage and parking since sometime between 1951 and 1976. Historic warehouse use.
	72	Chemical manufacturer circa 1951. Fairway cold storage.
	102	Past use as freight station and parking lot; former fuel oil and gasoline storage.
106		
2005	8	Potential tanks associated with Fairway cold storage.
	12	Current auto repair use. 1953 gas tank permit.

### 3.0 FIELD ACTIVITIES

#### 3.1 Sampling Protocol

A Phase II Sampling Protocol was developed in consultation with the NYCDEP to evaluate the nature and prevalence of subsurface contamination at locations within the Academic Mixed-Use Area. The Subsurface (Phase II) Investigation consisted of subsurface sampling at 22 locations spread throughout the Academic Mixed-Use Area, but biased towards locations with a higher potential for contamination (based on the PESA), encompassing a variety of types of contamination (e.g., petroleum storage, former manufactured gas facilities and manufacturing facilities). Sample locations are shown on a site plan provided as Figure 2. Photographic documentation is provided in Appendix A.

Several sampling locations within Academic Mixed-Use Area sited in the Sampling Protocol were not accessible by AKRF at the time of this Phase II study. Access to these locations was not granted by the current property owners for various reasons, primarily because the Phase II sampling activities would have hindered the operations of the on-site businesses. As such, sampling at these locations, as noted on Figure 2 will be performed when site access is available.



### 3.2 Soil Borings

Between February 15 and March 4, 2005, Subsurface Drilling Solutions, of Canastota, New York, advanced 22 soil borings (MW/CB-1 through MW/CB-22 and CB-6, CB10 and CB-15) throughout the Academic Mixed-Use Area. A hollow-stem auger rotary rig was used to advance the soil borings into the subsurface. Soil samples were collected on a continuous basis by driving a split-spoon sampler into the subsurface at two-foot intervals. Soil sampling was conducted to approximately five to six feet below the groundwater table at all locations, except boring locations CB-6, CB-10 and CB-15, where bedrock refusal was encountered at 8.0, 14.7 and 18.2 feet respectively. Soil samples were characterized according to the Modified Burmister soil classification system.

Recovered soil at each boring was transferred from the sampler into a sealable plastic bag. The headspace of each sample was screened by placing the probe of a photoionization detector (PID) inside the plastic bag. Up to two soil samples from each of the soil borings were selected for laboratory analysis based on PID response and other indications of contamination. If no evidence of contamination (visual, odor or PID readings) was encountered during field screening, one sample was collected from the interval directly below the asphalt or concrete surface and one sample was collected from the soil/groundwater interface or bottom of the boring. If evidence of contamination was noted, one of the two soil samples was collected from the interval with evidence of the most significant contamination.

Each sample was labeled, sealed, and placed in a chilled cooler for shipment to Alpha Analytical Laboratories, a New York State Department of Health (DOH)-certified laboratory. Soil samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, polychlorinated biphenyls (PCBs) by EPA Method 8082, pesticides by EPA Method 8081, and target analyte list (TAL) metals. Due to limited soil sample recovery and/or fill material (brick, concrete, wood, and asphalt) at soil boring location MW/CB-3, only one soil sample was submitted for laboratory analysis for VOCs, SVOCs, PCBs, pesticides, and TAL metals. For the same reason, only one soil sample was submitted for laboratory analysis from soil boring locations MW/CB-4 and CB-6 and analyzed for VOCs only. No soil samples were able to be submitted from MW/CB-5 due to extremely limited soil sample recovery throughout the entire soil boring.

For quality assurance/quality control purposes, four field blanks and four trip blanks were submitted to the laboratory along with the soil samples collected. The field blanks were analyzed for all the same parameters selected for the soil sample analyses. The trip blanks were analyzed for VOCs by EPA Method 8260 only.

All drill cuttings not used to backfill the soil borings or that exhibited petroleum-like odors, staining or elevated PID readings, were containerized in DOT-approved 55-gallon drums.

### 3.3 Groundwater

At 19 of the 22 soil boring locations, groundwater was encountered prior to bedrock in the soil borings and the soil borings were retrofitted with groundwater monitoring wells. The wells were constructed of two-inch, Schedule 40, threaded, flush-joint PVC well materials, in accordance with EPA RCRA monitor well installation procedures. A locking well cap and flush-mount well cover were installed upon completion of each well. Refusal was encountered on bedrock prior to encountering groundwater at soil boring locations CB-6, CB-10 and CB-15, therefore, these three soil borings were not retrofitted with monitor wells. Following the completion of well construction, each well was developed using a 2-inch submersible pump to remove at least three

well volumes. All well development water was containerized in 55-gallon drums for off-site disposal. Soil boring logs and well installation diagrams are provided in Appendix B.

In accordance with EPA protocols, the monitoring wells were allowed to stabilize for at least one week prior to sampling. Between March 14 and 16, 2005, the groundwater samples were collected using the low-flow methods into laboratory-supplied containers according to EPA protocols, as outlined in the Sampling Protocol dated February 2005. Each sample was labeled, sealed, and placed in a chilled cooler for shipment to Alpha Analytical Laboratories, a New York State Department of Health (DOH)-certified laboratory. Prior to sampling, an electronic interface meter was used to measure water levels and thickness of free product, if any. No free phase product was detected in any of the sampled monitor wells. Temperature, pH, specific conductivity and turbidity were recorded during the low-flow purging of the wells and allowed to stabilize in accordance with the Sampling Protocol prior to sampling. Groundwater samples were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides and PCBs by EPA Methods 8081/8082, and TAL metals (both filtered and unfiltered samples).

### 3.4 Field Analytical Results

Recovered soil at each boring was transferred from the sampler into sealable plastic bags. The headspace of each sample was screened for volatile organic compounds (VOCs) by placing the probe of a Model 580B photoionization detector (PID) inside the plastic bags. Headspace readings ranged from none detected (the majority of the samples) to 27.8 parts per million (ppm) at soil boring location MW/CB-4 (18'-20'). Soil samples collected from the soil boring locations throughout the study site area generally consisted of light brown, fine sand and silt, with fine gravel and fill material (brick, asphalt, wood and/or coal and ash). Petroleum like odors were noted in soil samples MW/CB-2 (12'-14'), MW/CB-4 (18'-20'), MW/CB-5 (12'-14'), MW/CB-19 (8'-10') and MW/CB-20 (20'-24'). Creosote-like odors were noted in soil samples MW/CB-4 (14'-16') and MW/CB-5 (4'-6'), as noted on the boring logs provided in Appendix B.

The depth to water was measured from the top of casing in the monitoring wells during groundwater sampling on March 14 and 15, 2005. The depth to water ranged from approximately 6.4 feet below grade at MW/CB-17 to 25.9 feet below grade at MW/CB-3. No sheens or odors were noted in the groundwater sampled.

## 4.0 SOIL ANALYTICAL RESULTS

Thirty four (34) discrete soil samples were collected from twenty two (22) soil borings for laboratory analysis as part of this investigation. Soil sample analytical results were compared to the Recommended Soil Cleanup Objectives (RSCO) outlined in the New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) 4046. Soil sample analytical results are presented in Tables 1, 2, 3 and 4. Soil descriptions, observations, and photoionization detector (PID) readings were recorded on the soil boring logs provided in Appendix B. The laboratory analytical data sheets are provided in Appendix C.

VOCs were detected in eight of the soil samples analyzed at concentrations below their respective TAGM RSCOs. Fourteen VOCs were detected in sample MW/CB-16 (4'-6'); less than four were detected in the other seven samples. These levels of VOCs may be reflective of poor quality urban fill material and are not necessarily indicative of contamination from past or present on-site operations.

SVOCs were detected in 25 of the soil samples analyzed, primarily below the TAGM RSCOs. Compound concentrations were found to exceed TAGM guidance values in three of the samples. The majority of the SVOCs detected were polycyclic aromatic hydrocarbons (PAHs). The concentrations detected were typical of urban fill material encountered in New York City soils and do not appear to be indicative of environmental contamination from former operations.

Metals were detected in all of the soil samples analyzed. Most of the concentrations were either below the TAGM RSCOs or within normal background levels established for eastern U.S. soils. Some metals were detected above established background levels in seven of the samples analyzed including calcium, chromium, lead, magnesium, mercury, selenium and zinc. The above background metals concentrations in MW/CB-9 (4-6), CB-10 (2-4), CB-10 (7-8) CB-15 (2-4), MW/CB-17 (2-4) are most likely attributable to deposition of urban fill during past development activities and do not appear to be indicative of environmental contamination from historic operations on-site.

The concentrations of calcium, chromium, lead, mercury and selenium were significantly above their respective established background levels in samples MW/CB-13 (2-4) and MW/CB-13 (6-8), which were collected from the same soil boring at depths less than eight feet below grade. The site is currently an auto body and repair shop and the elevated metals in the samples are likely related to the on-site maintenance operations. Chromium is used in the process of chrome plating of automotive body parts. Selenium is used as a component of pigments and may also be related to auto body repair work. Calcium has various uses, including in metallurgy when it is used to harden lead for bearings.

Pesticides were detected in two of the samples collected. The pesticides 4,4'-DDE and 4,4'-DDT were detected in MW/CB-13 (2-4) and CB-15 (2-4), but at concentrations below the TAGM RSCOs. No PCBs were detected in any of the samples collected for laboratory analysis.

Petroleum-like odors noted in the soil samples borings MW/CB-2 (12'-14'), MW/CB-4 (18'-20'), MW/CB-5 (12'-14'), MW/CB-19 (8'-10') and MW/CB-20 (20'-24') during sampling were likely due to residual petroleum products either from past on-site operations or poor quality fill imported to the site during past grading activities. The soil sample analytical data did not indicate significant petroleum contamination.

Creosote-like odors were noted for soil samples MW/CB-4 (14'-16') and MW/CB-5 (4'-6'). Creosote is typically used as a wood preservative in the United States, often in the construction of railroad tracks. Residual creosote has been known to be found in urban fill material. As no current or historic source of creosote could be identified for these sampling locations, the creosote odors are likely attributable to urban fill and not to a specific spill or release.

## 5.0 GROUNDWATER ANALYTICAL RESULTS

Nineteen (19) groundwater samples were collected for laboratory analysis as part of this investigation. Groundwater sample analytical results were compared to the NYSDEC Class GA Ambient Water Quality Standards, the most stringent standards available. Since groundwater is not a source of potable water in the Manhattan, these standards are used for comparison purposes only. The groundwater analytical results are presented in Tables 5, 6, 7, 8 and 9. The laboratory analytical data sheets are provided in Appendix C.

VOCs were detected in 15 of the 19 groundwater samples collected from the project site. VOCs were at concentrations above their respective TAGM RSCOs in nine of these samples. The

majority of the detected levels of VOCs are likely reflective of poor quality urban fill material and are not necessarily indicative of contamination from past on-site operations. However, elevated VOCs potentially reflective of gasoline contamination were detected in samples MW/CB-4 and MW/CB-5. The potential for indication of gasoline-related contamination at these sampling locations is based on the elevated levels of compounds typically associated with gasoline product (i.e., benzene, ethylbenzene, toluene, and xylenes). These groundwater samples were collected downgradient from the gasoline station located at Broadway and West 129th Street, and may be indicative of leaks or spills from the gasoline tanks, though such contaminants were not noted in the soil sample from boring MW/CB-4. Elevated petroleum-related VOCs (i.e., ethylbenzene, toluene, xylenes and naphthelene) were also noted in samples MW/CB-11, MW/CB-18, MW-CB-19, and MW/CB-22 that may reflect impacts from the manufactured gas plant along West 131st Street, which was located in a presumed upgradient groundwater flow direction.

SVOCs were detected in all of the groundwater samples collected, primarily below the TAGM RSCOs. Compound concentrations were found to exceed TAGM guidance values in eight of the samples. Most of the SVOC exceedances were for polycyclic aromatic hydrocarbons (PAHs), which is typical of groundwater encountered in industrial areas of New York City. Such detections are usually the result of impact from poor quality urban fill material and may not be indicative of environmental contamination from former operations. Suspended sediment contained in the samples may have contributed to the elevated concentrations of SVOCs.

Total and dissolved metals were detected in all of the groundwater samples collected. The majority of the concentrations were below the NYSDEC Class GA Ambient Water Quality Standards. However, total metals exceeding the Class GA standards were detected in 18 of the 19 groundwater samples analyzed. These metals included barium, chromium, iron, lead, magnesium, manganese, and sodium. Dissolved metals exceeding the Class GA standards were detected in only nine of the groundwater samples analyzed and included barium, iron, magnesium, manganese, and sodium. The fact that more total metals levels were found to exceed the standards is likely due to the suspended sediments in the collected sample and not indicative of contamination from former on-site operations. Nonetheless, the elevated dissolved metals are also typical of groundwater quality encountered in industrial areas of New York City and are not necessarily reflective of contamination from past operations. The potential presence of brackish water, due to the close proximity of the Hudson River, may have contributed to the presence of certain dissolved metals such as sodium.

No pesticides or PCBs were detected in any of the groundwater samples analyzed.

## **6.0 MANAGEMENT OF INVESTIGATION-DERIVED WASTE**

All investigation-derived waste, including drill cuttings not used to backfill the soil borings or that exhibited evidence of contamination (i.e., petroleum-like odors, staining or elevated PID readings), well development purge water, and decon-pad wash water, were containerized in DOT-approved 55-gallon drums. The drums were sealed at the end of each work day and labeled with the date, the well or boring number(s), the type of waste (i.e., drill cuttings, decontamination water, development water or purge water) and the name of an AKRF point-of-contact. Results from soil and groundwater samples collected during investigation activities were used for waste characterization.

On April 1, 2005, Brookside Environmental of Baldwin, New York, removed all of the Phase II subsurface investigation-derived waste from the study site staging area, located at the intersection of Broadway and West 130th Street. The waste was disposed of at MXI Environmental Services of Abingdon, Virginia. The disposal manifest documentation is included in Appendix D.

## 7.0 CONCLUSIONS AND RECOMMENDATIONS

AKRF, Inc. (AKRF) conducted a Subsurface (Phase II) Investigation at the Columbia-Manhattanville properties located in Harlem, New York. The objective of the subsurface investigation was to characterize the subsurface conditions and determine whether past or present on-site and/or off-site potential sources of contamination have adversely affected the Project Area. Results of the Phase II study were also intended to be used to evaluate any potential environmental risks and/or the need for remedial action at the site prior to future development. The investigation included the collection of thirty four (34) discrete soil samples and nineteen (19) groundwater samples from twenty two (22) sample locations for laboratory analysis.

Most of the soil samples analyzed as part of this Phase II study contained above-background concentrations of polycyclic aromatic hydrocarbons, and in some cases metals and pesticides, that are likely associated with urban fill material rather than specific past or current uses. However, the concentrations of chromium (and other metals) were significantly above background levels in the two soil samples collected in front of the 2311–2317 Twelfth Avenue property, which are likely associated with the site’s automotive body and repair operations. The analyses of the groundwater samples collected did not reveal the presence of significant wide-spread contamination, though trace levels of petroleum-related contaminants were identified in localized areas, which are likely due to the historic automotive and fueling operations in the Project Area. Given that these contaminants are currently isolated, so that human exposure is not occurring, the concentrations found do not currently pose a threat to human health.

Development within the portion of the Academic Mixed-Use Area targeted for 2015 would involve demolition of the existing buildings, followed by excavation of all existing fill and soil (and varying thicknesses of bedrock). Development within the Academic Mixed-Use Area during the 2030 Development phase of the Proposed Actions would involve demolition of the remaining buildings (excluding the former Warren Nash Service Station building at 3261–3275 Broadway and the Studebaker Building at 615 West 131st Street, which are not slated for demolition in any of the proposed development plans). Absent appropriate controls, described below, this could result in increases in exposure for the community and construction workers to contaminants (both known as identified by environmental studies or as yet unknown).

To minimize the potential for impacts to the community and construction workers, all demolition, excavation, and construction work involving soil disturbance would be performed under an environmental CHASP. The CHASP, which would be approved by NYCDEP, would specify appropriate testing and/or monitoring (e.g., real-time dust and organic vapor air monitoring) and detail appropriate measures to be implemented (including notification of regulatory agencies) if underground storage tanks, soil and groundwater contamination, or other unforeseen environmental conditions are encountered. In addition to dust and volatile organic compounds (VOC) monitoring, the CHASP would set out a variety of procedures to prevent the generation and dispersal of dust (which may contain above-background levels of contaminants). Dust control measures would include the use of water for sprinkling/wetting to suppress dust in dry weather, covering haul trucks with tarp covers, and gravel pads at access points to prevent site soils from being tracked onto roads in the surrounding area.

In addition to the CHASP, to assist with any environmental issues encountered during general site development activities (i.e., construction and site excavation), a NYCDEP-approved Remedial Action Plan (RAP) would be developed to present measures for managing on-site urban fill materials or soil and groundwater, removing any known or unforeseen underground petroleum storage tanks, and addressing any other potential environmental issues in accordance with applicable federal, state and local regulations. Since construction and development activities would extend below the water table and dewatering would

be required, the RAP would outline the appropriate sampling that should be performed to determine whether pretreatment would be required (i.e., whether the groundwater contaminant concentration exceeded numerical sewer use limitations) before groundwater is discharged to municipal sewers. Where specific soil contamination is already known, such as at the 2311–2317 Twelfth Avenue auto body and repair shop and the Manhattanville Bus Depot, the RAP would provide the scope of work necessary to delineate, excavate, and properly dispose of contaminated soil prior to or as part of site development.

Remediation of the Manhattanville Bus Depot property appears to be on-going. Petroleum compounds detected in samples from nearby monitoring wells may indicate petroleum releases from the bus depot, or perhaps from the MGP operations formerly conducted at the site. It is possible that most of the historic MGP structures (i.e., gas holders, etc.) previously located at the site were removed during construction of the on-site building. However, residual contamination from both the Manhattanville Bus Depot and former MGP site are likely present, which will require remediation as part of, or prior to, proposed future development plans for the site.

With respect to the two existing MGP properties (located within the 2030 Development phase of the project), these sites are part of an existing multi-property Voluntary Cleanup Program (VCP) agreement in which Con Edison has committed to NYSDEC to investigate and remediate all of its former MGP properties. The timing of the performance of investigation and remediation (whether by Con Edison or others) would be integrated into the Proposed Actions to ensure that contamination associated with these sites is properly addressed. In addition to any necessary soil disposal, it is possible that other measures, such as vapor barriers or groundwater treatment systems, might be required.

For the remainder of the Project Area, not under current control of Columbia University, an e-designation should be placed on those lots where the potential for contamination was found. An e-designation is a New York City Department of Environmental Protection (NYCDEP) and Buildings (DOB) mechanism to ensure that properties are properly investigated and remediated, if necessary, prior to any redevelopment. The lot owner/developer must prepare a Phase I Environmental Site Assessment (Phase I) and, if necessary, implement a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before issuance of a building permit by the DOB (pursuant to Section 11-15 of the Zoning Resolution – Environmental Requirements). The e-designation also requires mandatory construction-related health and safety plans, which must be approved by NYCDEP.

With the implementation of the preventative and remedial measures outlined above, no significant adverse impacts related to hazardous materials would be expected to occur as a result of the proposed development and subsequent site use. However, sampling and testing in the previously inaccessible areas of the Project Area should be conducted to characterize subsurface conditions in these areas prior to commencing with any site development activities. Otherwise, no further testing is recommended at this time.

## 8.0 LIMITATIONS

The findings set forth in this report are strictly limited in scope and time to the date of the evaluation described herein. The conclusions and recommendations presented in the report are based solely on the services and any limitations described in this report.

This report may contain conclusions that are based on the analysis of data collected at the time and locations noted in the report through intrusive or non-intrusive sampling. However, further investigation might reveal additional data or variations of the current data, which may differ from our understanding of the conditions presented in this report and require the enclosed recommendations to be reevaluated or modified.

Chemical analyses may have been performed for specific parameters during the course of this investigation, as summarized in the text and tables. It should be noted that additional chemical constituents, not searched for during this investigation, may be present at the site. Due to the nature of the investigation and the limited data available, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, lead-based paint and asbestos-containing materials was not investigated, unless specified in the report.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

This report may be based solely or partially on data collected, conducted, and provided by, AKRF and/or others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these reports may have been based upon available previous reports, historical records, documentation from federal, state and local government agencies, personal interviews, and geological mapping. This report is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, AKRF has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

This report is intended for the use solely by Kramer Levin Naftalis & Frankel LLP. Reliance by third parties on the information and opinions contained herein is strictly prohibited and requires the written consent of AKRF. AKRF accepts no responsibility for damages incurred by third parties for any decisions or actions taken based on this report. This report must be used, interpreted, and presented in its entirety.



## **9.0 QUALIFICATIONS**

The purpose of this limited study was to investigate the potential presence or absence of contamination, or possible sources of contamination on the property, and to identify existing and/or potential environmental problems associated with the property. The conclusions are based on the results of the sampling and analyses conducted as outlined in this report. The following limitations should be noted:

- Access to certain proposed sample locations was not provided to AKRF.
- Refusal was encountered in some of the borings, which limited the sampling depths at those locations.

## **TABLES**

### Key to Symbols and Terms

NS	No Standard Exists
J	Denotes and estimated value. Compound was detected at a concentration below the detection limit.
ppb	parts per billion
ppm	parts per million
ND	Not detected above method detection limits
NA	Not Applicable
SB	Site Background
TAGM	Technical and Administrative Guidance Memorandum #4046
RSCOs	Recommended Soil Cleanup Objectives
Class GA Groundwater Standards are taken from the ambient water quality standards provided in the Technical and Operational Guidance Series 1.1.1	

**TABLE 1**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	MW/CB-1 (2-4) L0501658-01 2/15/2005 Soil 1.0 ppb	MW/CB-1 (10'-12') L0501658-02 2/15/2005 Soil 1.0 ppb	MW/CB-2 (10'-12') L0501658-03 2/15/2005 Soil 1.0 ppb	MW/CB-2 (12'-14') L0501658-04 2/15/2005 Soil 1.0 ppb	MW/CB-3 (20'-22') L0501658-05 2/15/2005 Soil 1.0 ppb	FIELD BLANK L0501658-06 2/15/2005 Soil 1.0 ppb
<b>COMPOUND</b>							
1,1,1,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	400	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10000	ND	ND	ND	44	ND	ND
1,2-Dibromo-3-chloropropane	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3300	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	300	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND	ND
1,4-Dichlorobutane	NS	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
2-Butanone	300	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1000	ND	ND	ND	ND	ND	ND
Acetone	200	ND	ND	ND	31	ND	ND
Acrolein	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	NS	ND	ND	ND	ND	ND	ND
Benzene	60	ND	3	ND	ND	ND	ND
Bromobenzene	NS	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	2700	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	600	ND	ND	ND	ND	ND	ND
Chlorobenzene	1700	ND	ND	ND	ND	ND	ND
Chloroethane	1900	ND	ND	ND	ND	ND	ND
Chloroform	300	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	NS	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NS	ND	ND	ND	ND	ND	ND
Ethyl ether	NS	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND	ND
Iodomethane	NS	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2300	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	NS	ND	ND	ND	ND	ND	ND
Methylene chloride	100	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND
n-Butylbenzene	10000	ND	ND	ND	82	ND	ND
n-Propylbenzene	3700	ND	ND	ND	ND	ND	ND
o-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
o-Xylene	600	ND	ND	ND	ND	ND	ND
p/m-Xylene	1200	ND	ND	ND	ND	ND	ND
p-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	10000	ND	ND	ND	11	ND	ND
sec-Butylbenzene	10000	ND	ND	ND	86	ND	ND
Styrene	NS	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1400	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	NS	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	300	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	NS	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	200	ND	ND	ND	ND	ND	ND

**TABLE 1**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	TRIP BLANK L0501658-07	MW/CB-4 (14'-16') L0501658-08	CB-6 (5'-6') L0501881-01	MW/CB-7 (6'-8') L0501881-02	MW/CB-8 (12'-14') L0501881-03	MW/CB-9 (4'-6') L0501881-04
Lab Sample Number							
Sampling Date		2/15/2005	2/15/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND							
1,1,1,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	400	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10000	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3300	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	300	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND	ND
1,4-Dichlorobutane	NS	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
2-Butanone	300	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1000	ND	ND	ND	ND	ND	ND
Acetone	200	ND	54	ND	ND	ND	ND
Acrolein	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	NS	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND
Bromobenzene	NS	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	2700	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	600	ND	ND	ND	ND	ND	ND
Chlorobenzene	1700	ND	ND	ND	ND	ND	ND
Chloroethane	1900	ND	ND	ND	ND	ND	ND
Chloroform	300	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	NS	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NS	ND	ND	ND	ND	ND	ND
Ethyl ether	NS	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND	ND
Iodomethane	NS	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2300	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	NS	ND	ND	ND	ND	ND	ND
Methylene chloride	100	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND
n-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3700	ND	ND	ND	ND	ND	ND
o-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
o-Xylene	600	ND	ND	ND	ND	ND	ND
p/m-Xylene	1200	ND	8.5	ND	ND	ND	ND
p-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	10000	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
Styrene	NS	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1400	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	NS	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	300	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	NS	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	200	ND	ND	ND	ND	ND	ND

**TABLE 1**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	MW/CB-9 (14'-16') L0501881-05	CB-10 (2'-4') L0501881-06	CB-10 (7'-8') L0501881-07	FIELD BLANK L0501881-08	TRIP BLANK L0501881-09	MW/CB-11 (2'-4') L0502002-01
Lab Sample Number							
Sampling Date		2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/24/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND							
1,1,1,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	400	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10000	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3300	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	300	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND	ND
1,4-Dichlorobutane	NS	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
2-Butanone	300	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1000	ND	ND	ND	ND	ND	ND
Acetone	200	ND	ND	ND	ND	ND	ND
Acrolein	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	NS	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	13
Bromobenzene	NS	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	2700	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	600	ND	ND	ND	ND	ND	ND
Chlorobenzene	1700	ND	ND	ND	ND	ND	ND
Chloroethane	1900	ND	ND	ND	ND	ND	ND
Chloroform	300	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	NS	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NS	ND	ND	ND	ND	ND	ND
Ethyl ether	NS	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND	ND
Iodomethane	NS	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2300	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	NS	ND	ND	ND	ND	ND	ND
Methylene chloride	100	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND
n-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3700	ND	ND	ND	ND	ND	ND
o-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
o-Xylene	600	ND	ND	ND	ND	ND	ND
p/m-Xylene	1200	ND	ND	ND	ND	ND	ND
p-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	10000	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
Styrene	NS	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1400	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	NS	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	4.5
trans-1,2-Dichloroethene	300	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	NS	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	200	ND	ND	ND	ND	ND	ND

**TABLE 1**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	MW/CB-12 (6'-8')	MW/CB-12 (18.5'-20')	MW/CB-13 (2'-4')	MW/CB-13 (6'-8')	MW/CB-14 (2'-4')	MW/CB-14 (6'-8')
Lab Sample Number		L0502002-03	L0502002-04	L0502002-05	L0502002-06	L0502002-07	L0502002-08
Sampling Date		2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND							
1,1,1,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	400	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10000	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3300	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	300	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND	ND
1,4-Dichlorobutane	NS	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
2-Butanone	300	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1000	ND	ND	ND	ND	ND	ND
Acetone	200	ND	ND	ND	56	ND	ND
Acrolein	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	NS	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND
Bromobenzene	NS	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	2700	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	600	ND	ND	ND	ND	ND	ND
Chlorobenzene	1700	ND	ND	ND	ND	ND	ND
Chloroethane	1900	ND	ND	ND	ND	ND	ND
Chloroform	300	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	NS	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NS	ND	ND	ND	ND	ND	ND
Ethyl ether	NS	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND	ND
Iodomethane	NS	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2300	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	NS	ND	ND	ND	ND	ND	ND
Methylene chloride	100	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND
n-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3700	ND	ND	ND	ND	ND	ND
o-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
o-Xylene	600	ND	ND	ND	ND	ND	ND
p/m-Xylene	1200	ND	ND	ND	ND	ND	ND
p-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	10000	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
Styrene	NS	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1400	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	NS	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	300	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	NS	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	200	ND	ND	ND	ND	ND	ND

**TABLE 1**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	FIELD BLANK L0502002-09	TRIP BLANK L0502002-10	CB-15 (2'-4') L0502261-01	CB-15 (14'-16') L0502261-02	MW/CB-16 (4'-6') L0502261-03	MW/CB-16 (10'-12') L0502261-04
Lab Sample Number							
Sampling Date		2/24/2005	2/24/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ug/l	ug/l	ppb	ppb	ppb	ppb
COMPOUND							
1,1,1,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	400	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10000	ND	ND	ND	ND	580	ND
1,2-Dibromo-3-chloropropane	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3300	ND	ND	ND	ND	300	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	300	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND	ND
1,4-Dichlorobutane	NS	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
2-Butanone	300	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1000	ND	ND	ND	ND	ND	ND
Acetone	200	ND	ND	ND	ND	95	ND
Acrolein	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	NS	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND
Bromobenzene	NS	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	2700	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	600	ND	ND	ND	ND	ND	ND
Chlorobenzene	1700	ND	ND	ND	ND	ND	ND
Chloroethane	1900	ND	ND	ND	ND	ND	ND
Chloroform	300	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	NS	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NS	ND	ND	ND	ND	ND	ND
Ethyl ether	NS	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	31	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND	ND
Iodomethane	NS	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2300	ND	ND	ND	ND	9.6	ND
Methyl tert butyl ether	NS	ND	ND	ND	ND	7	ND
Methylene chloride	100	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	110	ND
n-Butylbenzene	10000	ND	ND	ND	ND	100	ND
n-Propylbenzene	3700	ND	ND	ND	ND	28	ND
o-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
o-Xylene	600	ND	ND	ND	ND	160	ND
p/m-Xylene	1200	ND	ND	ND	ND	210	ND
p-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	10000	ND	ND	ND	ND	10	ND
sec-Butylbenzene	10000	ND	ND	ND	ND	11	ND
Styrene	NS	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1400	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	NS	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	29	ND
trans-1,2-Dichloroethene	300	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	NS	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	200	ND	ND	ND	ND	ND	ND



**TABLE 1**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	MW/CB-17 (1'-2')	MW/CB-17 (2'-4')	MW/CB-18 (4'-6')	MW/CB-19 (1'-2')	MW/CB-19 (8'-10')	MW/CB-20 (1'-2')
Lab Sample Number		L0502261-05	L0502261-06	L0502261-07	L0502261-08	L0502261-09	L0502261-10
Sampling Date		2/28/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND							
1,1,1,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	400	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10000	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3300	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	300	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND	ND
1,4-Dichlorobutane	NS	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND
2-Butanone	300	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1000	ND	ND	ND	ND	ND	ND
Acetone	200	ND	ND	ND	ND	ND	ND
Acrolein	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	NS	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND
Bromobenzene	NS	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	2700	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	600	ND	ND	ND	ND	ND	ND
Chlorobenzene	1700	ND	ND	ND	ND	ND	ND
Chloroethane	1900	ND	ND	ND	ND	ND	ND
Chloroform	300	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	NS	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NS	ND	ND	ND	ND	ND	ND
Ethyl ether	NS	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND	ND
Iodomethane	NS	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2300	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	NS	ND	ND	ND	ND	ND	ND
Methylene chloride	100	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND
n-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3700	ND	ND	ND	ND	ND	ND
o-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
o-Xylene	600	ND	ND	ND	ND	ND	ND
p/m-Xylene	1200	ND	ND	ND	ND	ND	ND
p-Chlorotoluene	NS	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	10000	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
Styrene	NS	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	10000	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1400	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	NS	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	300	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	NS	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	200	ND	ND	ND	ND	ND	ND

**TABLE 1**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Volatile Organic Compounds

Sample ID	TAGM 4046	MW/CB-20 (18'-20')	MW/CB-21 (16'-18')	MW/CB-22 (12'-14')	FIELD BLANK	TRIP BLANK
Lab Sample Number	RSCOs	L0502261-11	L0502261-12	L0502261-13	L0502261-14	L0502261-15
Sampling Date		2/28/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor		1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ug/l	ug/l
COMPOUND						
1,1,1,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND
1,1-Dichloropropene	NS	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	400	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10000	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	NS	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3300	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND
1,3-Dichloropropane	300	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND
1,4-Dichlorobutane	NS	ND	ND	ND	ND	ND
2,2-Dichloropropane	NS	ND	ND	ND	ND	ND
2-Butanone	300	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1000	ND	ND	ND	ND	ND
Acetone	200	ND	ND	ND	12	5.3
Acrolein	NS	ND	ND	ND	ND	ND
Acrylonitrile	NS	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND
Bromobenzene	NS	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND
Carbon disulfide	2700	ND	ND	ND	ND	ND
Carbon tetrachloride	600	ND	ND	ND	ND	ND
Chlorobenzene	1700	ND	ND	ND	ND	ND
Chloroethane	1900	ND	ND	ND	ND	ND
Chloroform	300	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND
Dibromomethane	NS	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NS	ND	ND	ND	ND	ND
Ethyl ether	NS	ND	ND	ND	ND	ND
Ethyl methacrylate	NS	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND
Iodomethane	NS	ND	ND	ND	ND	ND
Isopropylbenzene	2300	ND	ND	ND	ND	ND
Methyl tert butyl ether	NS	ND	ND	ND	ND	ND
Methylene chloride	100	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
n-Butylbenzene	10000	ND	ND	ND	ND	ND
n-Propylbenzene	3700	ND	ND	ND	ND	ND
o-Chlorotoluene	NS	ND	ND	ND	ND	ND
o-Xylene	600	ND	ND	ND	ND	ND
p/m-Xylene	1200	ND	ND	ND	0.91	ND
p-Chlorotoluene	NS	ND	ND	ND	ND	ND
p-Isopropyltoluene	10000	ND	ND	ND	ND	ND
sec-Butylbenzene	10000	ND	ND	ND	ND	ND
Styrene	NS	ND	ND	ND	ND	ND
tert-Butylbenzene	10000	ND	ND	ND	ND	ND
Tetrachloroethene	1400	ND	ND	ND	ND	ND
Tetrahydrofuran	NS	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	2.6	ND
trans-1,2-Dichloroethene	300	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	NS	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND
Vinyl chloride	200	ND	ND	ND	ND	ND

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	MW/CB-1 (2-4)	MW/CB-1 (10'-12')	MW/CB-2 (10'-12')	MW/CB-2 (12'-14')	MW/CB-3 (20'-22')
Lab Sample Number		L0501658-01	L0501658-02	L0501658-03	L0501658-04	L0501658-05
Sampling Date		2/15/2005	2/15/2005	2/15/2005	2/15/2005	2/15/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ppb
COMPOUND						
1,2,4,5-Tetrachlorobenzene	NS	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND
1-Chloronaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene*	NS	ND	ND	ND	120	ND
1-Methylphenanthrene*	NS	14	ND	ND	ND	ND
2,4,5-Trichlorophenol	100	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	400	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	200	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NS	ND	ND	ND	ND	ND
2,6-Dichlorophenol	NS	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene*	NS	ND	ND	ND	260	ND
2,6-Dinitrotoluene	1000	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND
2-Chloronaphthalene*	NS	ND	ND	ND	ND	ND
2-Chlorophenol	800	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
2-Methylnaphthalene*	36400	7.2	ND	ND	190	ND
2-Methylphenol	NS	ND	ND	ND	ND	ND
2-Nitroaniline	430	ND	ND	ND	ND	ND
2-Nitrophenol	330	ND	ND	ND	ND	ND
2-Picoline	NS	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NS	ND	ND	ND	ND	ND
3-Methylcholanthrene	NS	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	NS	ND	ND	ND	ND	ND
3-Nitroaniline	500	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NS	ND	ND	ND	ND	ND
4-Aminobiphenyl	NS	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Chloroaniline	220	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Nitroaniline	NS	ND	ND	ND	ND	ND
4-Nitrophenol	100	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a)anthracene	NS	ND	ND	ND	ND	ND
a,a-Dimethylphenethylamine	NS	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND
Acenaphthene*	50000	18	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Acenaphthylene*	41000	ND	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	ND
a-Naphthylamine	NS	ND	ND	ND	ND	ND
Aniline	100	ND	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND	ND
Anthracene*	50000	35	ND	ND	ND	ND
Azobenzene	NS	ND	ND	ND	ND	ND
Benzidine	NS	ND	ND	ND	ND	ND
Benzo(a)anthracene	224	ND	ND	ND	ND	ND
Benzo(a)anthracene*	224	170	ND	ND	ND	ND
Benzo(a)pyrene	61	ND	ND	ND	ND	ND
Benzo(a)pyrene*	61	140	ND	ND	ND	ND
Benzo(b)fluoranthene	1100	ND	ND	ND	ND	ND
Benzo(b)fluoranthene*	1100	200	ND	ND	ND	ND
Benzo(e)pyrene	NS	ND	ND	ND	ND	ND
Benzo(e)Pyrene*	NS	100	ND	ND	ND	ND
Benzo(ghi)perylene	50000	ND	ND	ND	ND	ND
Benzo(ghi)perylene*	50000	92	ND	ND	ND	ND

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	MW/CB-1 (2-4)	MW/CB-1 (10'-12')	MW/CB-2 (10'-12')	MW/CB-2 (12'-14')	MW/CB-3 (20'-22')
Lab Sample Number		L0501658-01	L0501658-02	L0501658-03	L0501658-04	L0501658-05
Sampling Date		2/15/2005	2/15/2005	2/15/2005	2/15/2005	2/15/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ppb
COMPOUND						
Benzo(k)fluoranthene	1100	ND	ND	ND	ND	ND
Benzo(k)fluoranthene*	1100	100	ND	ND	ND	ND
Benzoic Acid	2700	ND	ND	ND	ND	ND
Benzyl Alcohol	NS	ND	ND	ND	ND	ND
Biphenyl	NS	ND	ND	ND	ND	ND
Biphenyl*	NS	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	NS	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	50000	ND	ND	ND	ND	ND
b-Naphthylamine	NS	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50000	ND	ND	ND	ND	ND
Carbazole	NS	ND	ND	ND	ND	ND
Chlorobenzilate	NS	ND	ND	ND	ND	ND
Chrysene	400	ND	ND	ND	ND	ND
Chrysene*	400	160	ND	ND	ND	ND
Dibenzo(a,h)anthracene	14	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene*	14	31	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Diethyl phthalate	7100	ND	ND	ND	ND	ND
Dimethoate	NS	ND	ND	ND	ND	ND
Dimethyl phthalate	2000	ND	ND	ND	ND	ND
Di-n-butylphthalate	8100	ND	ND	ND	ND	ND
Di-n-octylphthalate	50000	ND	ND	ND	ND	ND
Ethyl Methanesulfonate	NS	ND	ND	ND	ND	ND
Fluoranthene	50000	300	ND	ND	ND	ND
Fluoranthene*	50000	300	ND	ND	ND	ND
Fluorene	50000	ND	ND	ND	ND	ND
Fluorene*	50000	15	ND	ND	21	ND
Hexachlorobenzene	410	ND	ND	ND	ND	ND
Hexachlorobenzene*	410	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND
Hexachlorobutadiene*	NS	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	NS	ND	ND	ND	ND	ND
Hexachloroethane	NS	ND	ND	ND	ND	ND
Hexachloroethane*	NS	ND	ND	ND	ND	ND
Hexachloropropene	NS	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	3200	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene*	3200	89	ND	ND	ND	ND
Isodrin	NS	ND	ND	ND	ND	ND
Isophorone	4400	ND	ND	ND	ND	ND
Methyl methanesulfonate	NS	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
Naphthalene*	13000	39	ND	ND	22	ND
NDPA/DPA	NS	ND	ND	ND	ND	ND
Nitrobenzene	200	ND	ND	ND	ND	ND
Nitrosodi-n-butylamine	NS	ND	ND	ND	ND	ND
Nitrosodipiperidine	NS	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	ND
p-Chloro-m-cresol	NS	ND	ND	ND	ND	ND
p-Dimethylaminoazobenzene	NS	ND	ND	ND	ND	ND
Pentachlorobenzene	NS	ND	ND	ND	ND	ND
Pentachloronitrobenzene	NS	ND	ND	ND	ND	ND
Pentachlorophenol	1000	ND	ND	ND	ND	ND
Pentachlorophenol*	1000	ND	ND	ND	ND	ND
Perylene	NS	ND	ND	ND	ND	ND
Perylene*	NS	35	ND	ND	ND	ND
Phenacetin	NS	ND	ND	ND	ND	ND
Phenanthrene	50000	180	ND	ND	ND	ND
Phenanthrene*	50000	180	ND	ND	ND	ND
Phenol	30	ND	ND	ND	ND	ND
Pronamide	NS	ND	ND	ND	ND	ND
Pyrene	50000	240	ND	ND	ND	ND
Pyrene*	50000	240	ND	ND	ND	ND
Pyridine	NS	ND	ND	ND	ND	ND

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	FIELD BLANK	MW/CB-7 (6'-8')	MW/CB-8 (12'-14')	MW/CB-9 (4'-6')	MW/CB-9 (14'-16')
Lab Sample Number		L0501658-06	L0501881-02	L0501881-03	L0501881-04	L0501881-05
Sampling Date		2/15/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ppb
COMPOUND						
1,2,4,5-Tetrachlorobenzene	NS	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND
1-Chloronaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene*	NS	ND	ND	ND	ND	ND
1-Methylphenanthrene*	NS	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	100	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	400	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	200	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NS	ND	ND	ND	ND	ND
2,6-Dichlorophenol	NS	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene*	NS	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1000	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND
2-Chloronaphthalene*	NS	ND	ND	ND	ND	ND
2-Chlorophenol	800	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
2-Methylnaphthalene*	36400	ND	ND	ND	ND	ND
2-Methylphenol	NS	ND	ND	ND	ND	ND
2-Nitroaniline	430	ND	ND	ND	ND	ND
2-Nitrophenol	330	ND	ND	ND	ND	ND
2-Picoline	NS	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NS	ND	ND	ND	ND	ND
3-Methylcholanthrene	NS	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	NS	ND	ND	ND	ND	ND
3-Nitroaniline	500	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NS	ND	ND	ND	ND	ND
4-Aminobiphenyl	NS	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Chloroaniline	220	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Nitroaniline	NS	ND	ND	ND	ND	ND
4-Nitrophenol	100	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a)anthracene	NS	ND	ND	ND	ND	ND
a,a-Dimethylphenethylamine	NS	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND
Acenaphthene*	50000	ND	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Acenaphthylene*	41000	ND	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	ND
a-Naphthylamine	NS	ND	ND	ND	ND	ND
Aniline	100	ND	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND	ND
Anthracene*	50000	ND	ND	ND	ND	ND
Azobenzene	NS	ND	ND	ND	ND	ND
Benzidine	NS	ND	ND	ND	ND	ND
Benzo(a)anthracene	224	ND	ND	ND	ND	ND
Benzo(a)anthracene*	224	ND	ND	ND	16	ND
Benzo(a)pyrene	61	ND	ND	ND	ND	ND
Benzo(a)pyrene*	61	ND	ND	ND	12	ND
Benzo(b)fluoranthene	1100	ND	ND	ND	ND	ND
Benzo(b)fluoranthene*	1100	ND	ND	ND	15	ND
Benzo(e)pyrene	NS	ND	ND	ND	ND	ND
Benzo(e)Pyrene*	NS	ND	ND	ND	12	ND
Benzo(ghi)perylene	50000	ND	ND	ND	ND	ND
Benzo(ghi)perylene*	50000	ND	ND	ND	9.4	ND

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	FIELD BLANK	MW/CB-7 (6'-8')	MW/CB-8 (12'-14')	MW/CB-9 (4'-6')	MW/CB-9 (14'-16')
Lab Sample Number		L0501658-06	L0501881-02	L0501881-03	L0501881-04	L0501881-05
Sampling Date		2/15/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ppb
COMPOUND						
Benzo(k)fluoranthene	1100	ND	ND	ND	ND	ND
Benzo(k)fluoranthene*	1100	ND	ND	ND	12	ND
Benzoic Acid	2700	ND	ND	ND	ND	ND
Benzyl Alcohol	NS	ND	ND	ND	ND	ND
Biphenyl	NS	ND	ND	ND	ND	ND
Biphenyl*	NS	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	NS	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	50000	ND	ND	ND	ND	ND
b-Naphthylamine	NS	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50000	ND	ND	ND	ND	ND
Carbazole	NS	ND	ND	ND	ND	ND
Chlorobenzilate	NS	ND	ND	ND	ND	ND
Chrysene	400	ND	ND	ND	ND	ND
Chrysene*	400	ND	ND	ND	18	ND
Dibenzo(a,h)anthracene	14	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene*	14	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Diethyl phthalate	7100	ND	ND	ND	ND	ND
Dimethoate	NS	ND	ND	ND	ND	ND
Dimethyl phthalate	2000	ND	ND	ND	ND	ND
Di-n-butylphthalate	8100	ND	ND	ND	ND	ND
Di-n-octylphthalate	50000	ND	ND	ND	ND	ND
Ethyl Methanesulfonate	NS	ND	ND	ND	ND	ND
Fluoranthene	50000	ND	ND	ND	ND	ND
Fluoranthene*	50000	ND	ND	ND	30	ND
Fluorene	50000	ND	ND	ND	ND	ND
Fluorene*	50000	ND	ND	ND	ND	ND
Hexachlorobenzene	410	ND	ND	ND	ND	ND
Hexachlorobenzene*	410	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND
Hexachlorobutadiene*	NS	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	NS	ND	ND	ND	ND	ND
Hexachloroethane	NS	ND	ND	ND	ND	ND
Hexachloroethane*	NS	ND	ND	ND	ND	ND
Hexachloropropene	NS	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	3200	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene*	3200	ND	ND	ND	ND	ND
Isodrin	NS	ND	ND	ND	ND	ND
Isophorone	4400	ND	ND	ND	ND	ND
Methyl methanesulfonate	NS	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
Naphthalene*	13000	ND	ND	ND	ND	ND
NDPA/DPA	NS	ND	ND	ND	ND	ND
Nitrobenzene	200	ND	ND	ND	ND	ND
Nitrosodi-n-butylamine	NS	ND	ND	ND	ND	ND
Nitrosodipiperidine	NS	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	ND
p-Chloro-m-cresol	NS	ND	ND	ND	ND	ND
p-Dimethylaminoazobenzene	NS	ND	ND	ND	ND	ND
Pentachlorobenzene	NS	ND	ND	ND	ND	ND
Pentachloronitrobenzene	NS	ND	ND	ND	ND	ND
Pentachlorophenol	1000	ND	ND	ND	ND	ND
Pentachlorophenol*	1000	ND	ND	ND	ND	ND
Perylene	NS	ND	ND	ND	ND	ND
Perylene*	NS	ND	ND	ND	ND	ND
Phenacetin	NS	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	ND	ND	ND	ND
Phenanthrene*	50000	ND	ND	ND	17	ND
Phenol	30	ND	ND	ND	ND	ND
Pronamide	NS	ND	ND	ND	ND	ND
Pyrene	50000	ND	ND	ND	ND	ND
Pyrene*	50000	ND	ND	ND	32	ND
Pyridine	NS	ND	ND	ND	ND	ND

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	CB-10 (2'-4')	CB-10 (7'-8')	FIELD BLANK	MW/CB-11 14'-16')	MW/CB-12 (6'-8')
Lab Sample Number		L0501881-06	L0501881-07	L0501881-08	L0502002-01	L0502002-03
Sampling Date		2/21/2005	2/21/2005	2/21/2005	2/24/2005	2/24/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ppb
COMPOUND						
1,2,4,5-Tetrachlorobenzene	NS	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND
1-Chloronaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene*	NS	ND	ND	ND	ND	ND
1-Methylphenanthrene*	NS	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	100	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	400	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	200	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NS	ND	ND	ND	ND	ND
2,6-Dichlorophenol	NS	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene*	NS	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1000	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND
2-Chloronaphthalene*	NS	ND	ND	ND	ND	ND
2-Chlorophenol	800	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
2-Methylnaphthalene*	36400	ND	ND	ND	ND	ND
2-Methylphenol	NS	ND	ND	ND	ND	ND
2-Nitroaniline	430	ND	ND	ND	ND	ND
2-Nitrophenol	330	ND	ND	ND	ND	ND
2-Picoline	NS	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NS	ND	ND	ND	ND	ND
3-Methylcholanthrene	NS	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	NS	ND	ND	ND	ND	ND
3-Nitroaniline	500	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NS	ND	ND	ND	ND	ND
4-Aminobiphenyl	NS	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Chloroaniline	220	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Nitroaniline	NS	ND	ND	ND	ND	ND
4-Nitrophenol	100	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a)anthracene	NS	ND	ND	ND	ND	ND
a,a-Dimethylphenethylamine	NS	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND
Acenaphthene*	50000	ND	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Acenaphthylene*	41000	ND	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	ND
a-Naphthylamine	NS	ND	ND	ND	ND	ND
Aniline	100	ND	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND	ND
Anthracene*	50000	ND	ND	ND	ND	ND
Azobenzene	NS	ND	ND	ND	ND	ND
Benzidine	NS	ND	ND	ND	ND	ND
Benzo(a)anthracene	224	ND	ND	ND	ND	ND
Benzo(a)anthracene*	224	22	22	ND	ND	ND
Benzo(a)pyrene	61	ND	ND	ND	ND	ND
Benzo(a)pyrene*	61	17	21	ND	ND	ND
Benzo(b)fluoranthene	1100	ND	ND	ND	ND	ND
Benzo(b)fluoranthene*	1100	22	27	ND	ND	ND
Benzo(e)pyrene	NS	ND	ND	ND	ND	ND
Benzo(e)Pyrene*	NS	16	21	ND	ND	ND
Benzo(ghi)perylene	50000	ND	ND	ND	ND	ND
Benzo(ghi)perylene*	50000	12	17	ND	ND	ND

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	CB-10 (2'-4')	CB-10 (7'-8')	FIELD BLANK	MW/CB-11 14'-16')	MW/CB-12 (6'-8')
Lab Sample Number		L0501881-06	L0501881-07	L0501881-08	L0502002-01	L0502002-03
Sampling Date		2/21/2005	2/21/2005	2/21/2005	2/24/2005	2/24/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ppb
COMPOUND						
Benzo(k)fluoranthene	1100	ND	ND	ND	ND	ND
Benzo(k)fluoranthene*	1100	17	20	ND	ND	ND
Benzoic Acid	2700	ND	ND	ND	ND	ND
Benzyl Alcohol	NS	ND	ND	ND	ND	ND
Biphenyl	NS	ND	ND	ND	ND	ND
Biphenyl*	NS	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	NS	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	50000	ND	ND	ND	ND	ND
b-Naphthylamine	NS	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50000	ND	ND	ND	ND	ND
Carbazole	NS	ND	ND	ND	ND	ND
Chlorobenzilate	NS	ND	ND	ND	ND	ND
Chrysene	400	ND	ND	ND	ND	ND
Chrysene*	400	26	25	ND	ND	ND
Dibenzo(a,h)anthracene	14	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene*	14	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Diethyl phthalate	7100	ND	ND	ND	ND	ND
Dimethoate	NS	ND	ND	ND	ND	ND
Dimethyl phthalate	2000	ND	ND	ND	ND	ND
Di-n-butylphthalate	8100	ND	ND	ND	ND	ND
Di-n-octylphthalate	50000	ND	ND	ND	ND	ND
Ethyl Methanesulfonate	NS	ND	ND	ND	ND	ND
Fluoranthene	50000	ND	ND	ND	ND	ND
Fluoranthene*	50000	39	37	ND	ND	ND
Fluorene	50000	ND	ND	ND	ND	ND
Fluorene*	50000	ND	ND	ND	ND	ND
Hexachlorobenzene	410	ND	ND	ND	ND	ND
Hexachlorobenzene*	410	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND
Hexachlorobutadiene*	NS	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	NS	ND	ND	ND	ND	ND
Hexachloroethane	NS	ND	ND	ND	ND	ND
Hexachloroethane*	NS	ND	ND	ND	ND	ND
Hexachloropropene	NS	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	3200	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene*	3200	10	15	ND	ND	ND
Isodrin	NS	ND	ND	ND	ND	ND
Isophorone	4400	ND	ND	ND	ND	ND
Methyl methanesulfonate	NS	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
Naphthalene*	13000	ND	ND	ND	ND	ND
NDPA/DPA	NS	ND	ND	ND	ND	ND
Nitrobenzene	200	ND	ND	ND	ND	ND
Nitrosodi-n-butylamine	NS	ND	ND	ND	ND	ND
Nitrosodipiperidine	NS	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	ND
p-Chloro-m-cresol	NS	ND	ND	ND	ND	ND
p-Dimethylaminoazobenzene	NS	ND	ND	ND	ND	ND
Pentachlorobenzene	NS	ND	ND	ND	ND	ND
Pentachloronitrobenzene	NS	ND	ND	ND	ND	ND
Pentachlorophenol	1000	ND	ND	ND	ND	ND
Pentachlorophenol*	1000	ND	ND	ND	240	110
Perylene	NS	ND	ND	ND	ND	ND
Perylene*	NS	ND	ND	ND	ND	ND
Phenacetin	NS	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	ND	ND	ND	ND
Phenanthrene*	50000	21	19	ND	ND	ND
Phenol	30	ND	ND	ND	ND	ND
Pronamide	NS	ND	ND	ND	ND	ND
Pyrene	50000	ND	ND	ND	ND	ND
Pyrene*	50000	39	41	ND	ND	ND
Pyridine	NS	ND	ND	ND	ND	ND



**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCos	MW/CB-12 (18.5'-20')	MW/CB-13 (2'-4')	MW/CB-13 (6'-8')	MW/CB-14 (6'-8')	FIELD BLANK
Lab Sample Number		L0502002-04	L0502002-05	L0502002-06	L0502002-08	L0502002-09
Sampling Date		2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ug/l
COMPOUND						
1,2,4,5-Tetrachlorobenzene	NS	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND
1-Chloronaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene*	NS	ND	ND	ND	ND	ND
1-Methylphenanthrene*	NS	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	100	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	400	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	200	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NS	ND	ND	ND	ND	ND
2,6-Dichlorophenol	NS	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene*	NS	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1000	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND
2-Chloronaphthalene*	NS	ND	ND	ND	ND	ND
2-Chlorophenol	800	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
2-Methylnaphthalene*	36400	ND	ND	ND	ND	ND
2-Methylphenol	NS	ND	ND	ND	ND	ND
2-Nitroaniline	430	ND	ND	ND	ND	ND
2-Nitrophenol	330	ND	ND	ND	ND	ND
2-Picoline	NS	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NS	ND	ND	ND	ND	ND
3-Methylcholanthrene	NS	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	NS	ND	ND	ND	ND	ND
3-Nitroaniline	500	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NS	ND	ND	ND	ND	ND
4-Aminobiphenyl	NS	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Chloroaniline	220	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Nitroaniline	NS	ND	ND	ND	ND	ND
4-Nitrophenol	100	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a)anthracene	NS	ND	ND	ND	ND	ND
a,a-Dimethylphenethylamine	NS	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND
Acenaphthene*	50000	ND	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Acenaphthylene*	41000	ND	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	ND
a-Naphthylamine	NS	ND	ND	ND	ND	ND
Aniline	100	ND	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND	ND
Anthracene*	50000	ND	ND	ND	ND	ND
Azobenzene	NS	ND	ND	ND	ND	ND
Benzidine	NS	ND	ND	ND	ND	ND
Benzo(a)anthracene	224	ND	ND	ND	ND	ND
Benzo(a)anthracene*	224	ND	25	ND	ND	ND
Benzo(a)pyrene	61	ND	ND	ND	ND	ND
Benzo(a)pyrene*	61	ND	19	ND	ND	ND
Benzo(b)fluoranthene	1100	ND	ND	ND	ND	ND
Benzo(b)fluoranthene*	1100	ND	15	ND	ND	ND
Benzo(e)pyrene	NS	ND	ND	ND	ND	ND
Benzo(e)Pyrene*	NS	ND	18	ND	ND	ND
Benzo(ghi)perylene	50000	ND	ND	ND	ND	ND
Benzo(ghi)perylene*	50000	ND	14	ND	ND	ND

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	MW/CB-12 (18.5'-20')	MW/CB-13 (2'-4')	MW/CB-13 (6'-8')	MW/CB-14 (6'-8')	FIELD BLANK
Lab Sample Number		L0502002-04	L0502002-05	L0502002-06	L0502002-08	L0502002-09
Sampling Date		2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ug/l
COMPOUND						
Benzo(k)fluoranthene	1100	ND	ND	ND	ND	ND
Benzo(k)fluoranthene*	1100	ND	24	ND	ND	ND
Benzoic Acid	2700	ND	ND	ND	ND	ND
Benzyl Alcohol	NS	ND	ND	ND	ND	ND
Biphenyl	NS	ND	ND	ND	ND	ND
Biphenyl*	NS	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	NS	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	50000	ND	ND	ND	ND	ND
b-Naphthylamine	NS	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50000	ND	ND	ND	ND	ND
Carbazole	NS	ND	ND	ND	ND	ND
Chlorobenzilate	NS	ND	ND	ND	ND	ND
Chrysene	400	ND	ND	ND	ND	ND
Chrysene*	400	ND	28	ND	ND	ND
Dibenzo(a,h)anthracene	14	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene*	14	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Diethyl phthalate	7100	ND	ND	ND	ND	ND
Dimethoate	NS	ND	ND	ND	ND	ND
Dimethyl phthalate	2000	ND	ND	ND	ND	ND
Di-n-butylphthalate	8100	ND	ND	ND	ND	ND
Di-n-octylphthalate	50000	ND	ND	ND	ND	ND
Ethyl Methanesulfonate	NS	ND	ND	ND	ND	ND
Fluoranthene	50000	ND	ND	ND	ND	ND
Fluoranthene*	50000	ND	57	ND	ND	ND
Fluorene	50000	ND	ND	ND	ND	ND
Fluorene*	50000	ND	ND	ND	ND	ND
Hexachlorobenzene	410	ND	ND	ND	ND	ND
Hexachlorobenzene*	410	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND
Hexachlorobutadiene*	NS	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	NS	ND	ND	ND	ND	ND
Hexachloroethane	NS	ND	ND	ND	ND	ND
Hexachloroethane*	NS	ND	ND	ND	ND	ND
Hexachloropropene	NS	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	3200	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene*	3200	ND	12	ND	ND	ND
Isodrin	NS	ND	ND	ND	ND	ND
Isophorone	4400	ND	ND	ND	ND	ND
Methyl methanesulfonate	NS	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
Naphthalene*	13000	ND	ND	ND	ND	ND
NDPA/DPA	NS	ND	ND	ND	ND	ND
Nitrobenzene	200	ND	ND	ND	ND	ND
Nitrosodi-n-butylamine	NS	ND	ND	ND	ND	ND
Nitrosodipiperidine	NS	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	ND
p-Chloro-m-cresol	NS	ND	ND	ND	ND	ND
p-Dimethylaminoazobenzene	NS	ND	ND	ND	ND	ND
Pentachlorobenzene	NS	ND	ND	ND	ND	ND
Pentachloronitrobenzene	NS	ND	ND	ND	ND	ND
Pentachlorophenol	1000	ND	ND	ND	ND	ND
Pentachlorophenol*	1000	ND	ND	760	150	6.5
Perylene	NS	ND	ND	ND	ND	ND
Perylene*	NS	ND	ND	ND	ND	ND
Phenacetin	NS	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	ND	ND	ND	ND
Phenanthrene*	50000	ND	36	17	ND	ND
Phenol	30	ND	ND	ND	ND	ND
Pronamide	NS	ND	ND	ND	ND	ND
Pyrene	50000	ND	ND	ND	ND	ND
Pyrene*	50000	ND	51	22	ND	ND
Pyridine	NS	ND	ND	ND	ND	ND

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	CB-15 (2'-4')	CB-15 (14'-16')	MW/CB-16 (10'-12')	MW/CB-17 (2'-4')	MW/CB-18 (4'-6')
Lab Sample Number		L0502261-01	L0502261-02	L0502261-04	L0502261-06	L0502261-07
Sampling Date		2/28/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ppb
<b>COMPOUND</b>						
1,2,4,5-Tetrachlorobenzene	NS	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND
1-Chloronaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene*	NS	ND	ND	ND	ND	ND
1-Methylphenanthrene*	NS	100	ND	ND	ND	ND
2,4,5-Trichlorophenol	100	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	400	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	200	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NS	ND	ND	ND	ND	ND
2,6-Dichlorophenol	NS	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene*	NS	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1000	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND
2-Chloronaphthalene*	NS	ND	ND	ND	ND	ND
2-Chlorophenol	800	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
2-Methylnaphthalene*	36400	ND	ND	ND	ND	ND
2-Methylphenol	NS	ND	ND	ND	ND	ND
2-Nitroaniline	430	ND	ND	ND	ND	ND
2-Nitrophenol	330	ND	ND	ND	ND	ND
2-Picoline	NS	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NS	ND	ND	ND	ND	ND
3-Methylcholanthrene	NS	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	NS	ND	ND	ND	ND	ND
3-Nitroaniline	500	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NS	ND	ND	ND	ND	ND
4-Aminobiphenyl	NS	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Chloroaniline	220	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Nitroaniline	NS	ND	ND	ND	ND	ND
4-Nitrophenol	100	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a)anthracene	NS	ND	ND	ND	ND	ND
a,a-Dimethylphenethylamine	NS	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND
Acenaphthene*	50000	ND	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Acenaphthylene*	41000	98	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	ND
a-Naphthylamine	NS	ND	ND	ND	ND	ND
Aniline	100	ND	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND	ND
Anthracene*	50000	140	ND	ND	ND	ND
Azobenzene	NS	ND	ND	ND	ND	ND
Benzidine	NS	ND	ND	ND	ND	ND
Benzo(a)anthracene	224	500	ND	ND	ND	ND
Benzo(a)anthracene*	224	600	ND	ND	ND	35
Benzo(a)pyrene	61	510	ND	ND	ND	ND
Benzo(a)pyrene*	61	580	ND	ND	ND	61
Benzo(b)fluoranthene	1100	400	ND	ND	ND	ND
Benzo(b)fluoranthene*	1100	710	ND	ND	ND	47
Benzo(e)pyrene	NS	360	ND	ND	ND	ND
Benzo(e)Pyrene*	NS	450	ND	ND	ND	42
Benzo(ghi)perylene	50000	370	ND	ND	ND	ND
Benzo(ghi)perylene*	50000	410	ND	ND	ND	50

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	CB-15 (2'-4')	CB-15 (14'-16')	MW/CB-16 (10'-12')	MW/CB-17 (2'-4')	MW/CB-18 (4'-6')
Lab Sample Number		L0502261-01	L0502261-02	L0502261-04	L0502261-06	L0502261-07
Sampling Date		2/28/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ppb
<b>COMPOUND</b>						
Benzo(k)fluoranthene	1100	470	ND	ND	ND	ND
Benzo(k)fluoranthene*	1100	480	ND	ND	ND	66
Benzoic Acid	2700	ND	ND	ND	ND	ND
Benzyl Alcohol	NS	ND	ND	ND	ND	ND
Biphenyl	NS	ND	ND	ND	ND	ND
Biphenyl*	NS	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	NS	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	50000	ND	ND	ND	ND	ND
b-Naphthylamine	NS	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50000	ND	ND	ND	ND	ND
Carbazole	NS	ND	ND	ND	ND	ND
Chlorobenzilate	NS	ND	ND	ND	ND	ND
Chrysene	400	540	ND	ND	ND	ND
Chrysene*	400	580	ND	ND	ND	35
Dibenzo(a,h)anthracene	14	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene*	14	79	ND	ND	ND	13
Dibenzofuran	6200	ND	ND	ND	ND	ND
Diethyl phthalate	7100	ND	ND	ND	ND	ND
Dimethoate	NS	ND	ND	ND	ND	ND
Dimethyl phthalate	2000	ND	ND	ND	ND	ND
Di-n-butylphthalate	8100	ND	ND	ND	ND	ND
Di-n-octylphthalate	50000	ND	ND	ND	ND	ND
Ethyl Methanesulfonate	NS	ND	ND	ND	ND	ND
Fluoranthene	50000	970	ND	ND	ND	ND
Fluoranthene*	50000	1200	ND	ND	ND	49
Fluorene	50000	ND	ND	ND	ND	ND
Fluorene*	50000	ND	ND	ND	ND	ND
Hexachlorobenzene	410	ND	ND	ND	ND	ND
Hexachlorobenzene*	410	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND
Hexachlorobutadiene*	NS	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	NS	ND	ND	ND	ND	ND
Hexachloroethane	NS	ND	ND	ND	ND	ND
Hexachloroethane*	NS	ND	ND	ND	ND	ND
Hexachloropropene	NS	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	3200	330	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene*	3200	340	ND	ND	ND	47
Isodrin	NS	ND	ND	ND	ND	ND
Isophorone	4400	ND	ND	ND	ND	ND
Methyl methanesulfonate	NS	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
Naphthalene*	13000	ND	ND	ND	9.3	ND
NDPA/DPA	NS	ND	ND	ND	ND	ND
Nitrobenzene	200	ND	ND	ND	ND	ND
Nitrosodi-n-butylamine	NS	ND	ND	ND	ND	ND
Nitrosodipiperidine	NS	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	ND
p-Chloro-m-cresol	NS	ND	ND	ND	ND	ND
p-Dimethylaminoazobenzene	NS	ND	ND	ND	ND	ND
Pentachlorobenzene	NS	ND	ND	ND	ND	ND
Pentachloronitrobenzene	NS	ND	ND	ND	ND	ND
Pentachlorophenol	1000	ND	ND	ND	ND	ND
Pentachlorophenol*	1000	ND	ND	ND	ND	ND
Perylene	NS	ND	ND	ND	ND	ND
Perylene*	NS	160	ND	ND	ND	19
Phenacetin	NS	ND	ND	ND	ND	ND
Phenanthrene	50000	490	ND	ND	ND	ND
Phenanthrene*	50000	530	ND	ND	12	9.9
Phenol	30	ND	ND	ND	ND	ND
Pronamide	NS	ND	ND	ND	ND	ND
Pyrene	50000	900	ND	ND	ND	ND
Pyrene*	50000	980	ND	ND	ND	49
Pyridine	NS	ND	ND	ND	ND	ND

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	MW/CB-19 (8'-10')	MW/CB-20 (18'-20')	MW/CB-21 (16'-18')	MW/CB-22 (12'-14')	FIELD BLANK
Lab Sample Number		L0502261-08	L0502261-11	L0502261-12	L0502261-13	L0502261-14
Sampling Date		2/28/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ug/l
<b>COMPOUND</b>						
1,2,4,5-Tetrachlorobenzene	NS	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7900	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	ND
1-Chloronaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene*	NS	550	ND	ND	ND	ND
1-Methylphenanthrene*	NS	1100	ND	ND	ND	ND
2,4,5-Trichlorophenol	100	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	400	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	200	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NS	ND	ND	ND	ND	ND
2,6-Dichlorophenol	NS	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene*	NS	3100	ND	ND	ND	ND
2,6-Dinitrotoluene	1000	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND
2-Chloronaphthalene*	NS	ND	ND	ND	ND	ND
2-Chlorophenol	800	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
2-Methylnaphthalene*	36400	ND	ND	ND	ND	ND
2-Methylphenol	NS	ND	ND	ND	ND	ND
2-Nitroaniline	430	ND	ND	ND	ND	ND
2-Nitrophenol	330	ND	ND	ND	ND	ND
2-Picoline	NS	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NS	ND	ND	ND	ND	ND
3-Methylcholanthrene	NS	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	NS	ND	ND	ND	ND	ND
3-Nitroaniline	500	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NS	ND	ND	ND	ND	ND
4-Aminobiphenyl	NS	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Chloroaniline	220	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	ND
4-Nitroaniline	NS	ND	ND	ND	ND	ND
4-Nitrophenol	100	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a)anthracene	NS	ND	ND	ND	ND	ND
a,a-Dimethylphenethylamine	NS	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND
Acenaphthene*	50000	370	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Acenaphthylene*	41000	ND	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	ND
a-Naphthylamine	NS	ND	ND	ND	ND	ND
Aniline	100	ND	ND	ND	ND	ND
Anthracene	50000	220	ND	ND	ND	ND
Anthracene*	50000	ND	ND	ND	ND	ND
Azobenzene	NS	ND	ND	ND	ND	ND
Benzidine	NS	ND	ND	ND	ND	ND
Benzo(a)anthracene	224	ND	ND	ND	ND	ND
Benzo(a)anthracene*	224	ND	ND	ND	ND	ND
Benzo(a)pyrene	61	ND	ND	ND	ND	ND
Benzo(a)pyrene*	61	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	1100	ND	ND	ND	ND	ND
Benzo(b)fluoranthene*	1100	ND	ND	ND	ND	ND
Benzo(e)pyrene	NS	ND	ND	ND	ND	ND
Benzo(e)Pyrene*	NS	ND	ND	ND	ND	ND
Benzo(ghi)perylene	50000	ND	ND	ND	ND	ND
Benzo(ghi)perylene*	50000	ND	ND	ND	ND	ND

**TABLE 2**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Semi-Volatile Organic Compounds

Sample ID	TAGM 4046 RSCOs	MW/CB-19 (8'-10')	MW/CB-20 (18'-20')	MW/CB-21 (16'-18')	MW/CB-22 (12'-14')	FIELD BLANK
Lab Sample Number		L0502261-08	L0502261-11	L0502261-12	L0502261-13	L0502261-14
Sampling Date		2/28/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005
Matrix		Soil	Soil	Soil	Soil	Soil
Dilution Factor	(ppb)	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ug/l
<b>COMPOUND</b>						
Benzo(k)fluoranthene	1100	ND	ND	ND	ND	ND
Benzo(k)fluoranthene*	1100	ND	ND	ND	ND	ND
Benzoic Acid	2700	ND	ND	ND	ND	ND
Benzyl Alcohol	NS	ND	ND	ND	ND	ND
Biphenyl	NS	ND	ND	ND	ND	ND
Biphenyl*	NS	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	NS	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NS	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	50000	ND	ND	ND	ND	ND
b-Naphthylamine	NS	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50000	ND	ND	ND	220	ND
Carbazole	NS	ND	ND	ND	ND	ND
Chlorobenzilate	NS	ND	ND	ND	ND	ND
Chrysene	400	ND	ND	ND	ND	ND
Chrysene*	400	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	14	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene*	14	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Diethyl phthalate	7100	ND	ND	ND	ND	ND
Dimethoate	NS	ND	ND	ND	ND	ND
Dimethyl phthalate	2000	ND	ND	ND	ND	ND
Di-n-butylphthalate	8100	ND	ND	ND	ND	ND
Di-n-octylphthalate	50000	ND	ND	ND	ND	ND
Ethyl Methanesulfonate	NS	ND	ND	ND	ND	ND
Fluoranthene	50000	ND	ND	ND	ND	ND
Fluoranthene*	50000	ND	ND	ND	ND	ND
Fluorene	50000	ND	ND	ND	ND	ND
Fluorene*	50000	860	ND	ND	ND	ND
Hexachlorobenzene	410	ND	ND	ND	ND	ND
Hexachlorobenzene*	410	ND	ND	ND	ND	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND
Hexachlorobutadiene*	NS	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	NS	ND	ND	ND	ND	ND
Hexachloroethane	NS	ND	ND	ND	ND	ND
Hexachloroethane*	NS	ND	ND	ND	ND	ND
Hexachloropropene	NS	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	3200	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene*	3200	ND	ND	ND	ND	ND
Isodrin	NS	ND	ND	ND	ND	ND
Isophorone	4400	ND	ND	ND	ND	ND
Methyl methanesulfonate	NS	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
Naphthalene*	13000	ND	ND	ND	ND	ND
NDPA/DPA	NS	ND	ND	ND	ND	ND
Nitrobenzene	200	ND	ND	ND	ND	ND
Nitrosodi-n-butylamine	NS	ND	ND	ND	ND	ND
Nitrosodipiperidine	NS	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	ND
p-Chloro-m-cresol	NS	ND	ND	ND	ND	ND
p-Dimethylaminoazobenzene	NS	ND	ND	ND	ND	ND
Pentachlorobenzene	NS	ND	ND	ND	ND	ND
Pentachloronitrobenzene	NS	ND	ND	ND	ND	ND
Pentachlorophenol	1000	ND	ND	ND	ND	ND
Pentachlorophenol*	1000	ND	ND	ND	ND	ND
Perylene	NS	ND	ND	ND	ND	ND
Perylene*	NS	ND	ND	ND	ND	ND
Phenacetin	NS	ND	ND	ND	ND	ND
Phenanthrene	50000	1400	ND	ND	ND	ND
Phenanthrene*	50000	1500	ND	ND	ND	ND
Phenol	30	ND	ND	ND	ND	ND
Pronamide	NS	ND	ND	ND	ND	ND
Pyrene	50000	ND	ND	ND	ND	ND
Pyrene*	50000	210	ND	ND	ND	ND
Pyridine	NS	ND	ND	ND	ND	ND

**TABLE 3**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Metals

<b>Sample ID</b>	<b>TAGM 4046 RSCOs</b>	<b>EASTERN US BACKGROUNDS</b>	<b>MW/CB-1 (2-4)</b>	<b>MW/CB-1 (10'-12')</b>	<b>MW/CB-2 (10'-12')</b>	<b>MW/CB-2 (12'-14')</b>	<b>MW/CB-3 (20'-22')</b>	<b>FIELD BLANK</b>
Lab Sample Number			L0501658-01	L0501658-02	L0501658-03	L0501658-04	L0501658-05	L0501658-06
Sampling Date			2/15/2005	2/15/2005	2/15/2005	2/15/2005	2/15/2005	2/15/2005
Matrix			Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor			1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
<b>METAL:</b>								
Aluminum, Total	SB	33000	4900	6300	5900	6400	3200	ND
Antimony, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Arsenic, Total	7500 OR SB	3-13	2.3	2.4	2.5	2	1.4	ND
Barium, Total	300000 OR SB	15-600	21	25	19	22	23	ND
Beryllium, Total	160 OR SB	0-1.75	ND	ND	ND	ND	ND	ND
Cadmium, Total	1000 OR SB	0.1-1	ND	ND	ND	ND	ND	ND
Calcium, Total	SB	130-35000	2200	2500	1400	1000	3300	0.25
Chromium, Total	10000 OR SB	1.5-40	7.9	10	7.6	11	6.4	ND
Cobalt, Total	30000 OR SB	2.5-60	4.2	5.7	4.9	6.2	3.2	ND
Copper, Total	25000 OR SB	1-50	10	12	11	14	9.8	ND
Iron, Total	2000000 OR SB	2000-550000	10000	13000	12000	12000	7500	0.07
Lead, Total	SB	200-500	12	9.7	5.4	5.6	6	ND
Magnesium, Total	SB	100-5000	2300	2900	2400	2700	1900	ND
Manganese, Total	SB	50-5000	240	280	150	110	250	ND
Mercury, Total	100 OR SB	0.001-0.2	ND	ND	ND	ND	ND	ND
Nickel, Total	13000 OR SB	0.5-25	7.8	10	10	12	7.1	ND
Potassium, Total	SB	85000-43000	270	370	350	410	410	ND
Selenium, Total	2000 OR SB	0.1-3.9	ND	ND	ND	ND	ND	ND
Silver, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Sodium, Total	SB	6000-8000	130	190	130	ND	130	ND
Thallium, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Vanadium, Total	150000 OR SB	1-300	9.1	11	9.6	11	6.9	ND
Zinc, Total	20000 OR SB	9-50	27	32	30	36	19	ND

**TABLE 3**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
**Metals**

Sample ID	TAGM 4046 RSCOs	EASTERN US BACKGROUNDS	MW/CB-7 (6'-8')	MW/CB-8 (12'-14')	MW/CB-9 (4'-6')	MW/CB-9 (14'-16')	CB-10 (2'-4')	CB-10 (7'-8')
Lab Sample Number			L0501881-02	L0501881-03	L0501881-04	L0501881-05	L0501881-06	L0501881-07
Sampling Date			2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005
Matrix			Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor			1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
<b>METAL:</b>								
Aluminum, Total	SB	33000	8000	4900	4700	1800	6700	6900
Antimony, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Arsenic, Total	7500 OR SB	3-13	2.3	2.1	2.7	0.9	2.5	2.9
Barium, Total	300000 OR SB	15-600	54	30	46	41	51	35
Beryllium, Total	160 OR SB	0-1.75	ND	0.1709	ND	0.1293	ND	ND
Cadmium, Total	1000 OR SB	0.1-1	ND	ND	ND	ND	ND	ND
Calcium, Total	SB	130-35000	12000	860	4800	3600	2200	2300
Chromium, Total	10000 OR SB	1.5-40	11	7.5	10	7.7	11	9.9
Cobalt, Total	30000 OR SB	2.5-60	6.7	4.6	5.4	2.9	6.1	4.9
Copper, Total	25000 OR SB	1-50	27	10	37	12	20	20
Iron, Total	2000000 OR SB	2000-550000	12000	10000	7800	5100	11000	11000
Lead, Total	SB	200-500	23	8.7	93	4.9	40	67
Magnesium, Total	SB	100-5000	7300	1700	1500	1700	2400	1700
Manganese, Total	SB	50-5000	410	320	120	330	330	280
Mercury, Total	100 OR SB	0.001-0.2	ND	ND	0.21	ND	0.24	0.67
Nickel, Total	13000 OR SB	0.5-25	10.7	8.57	10.1	7.15	10.4	7.94
Potassium, Total	SB	85000-43000	2200	410	320	380	1000	380
Selenium, Total	2000 OR SB	0.1-3.9	ND	0.366	0.558	ND	0.365	0.442
Silver, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Sodium, Total	SB	6000-8000	1200	220	970	ND	180	240
Thallium, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Vanadium, Total	150000 OR SB	1-300	16	8.8	11	6.5	14	13
Zinc, Total	20000 OR SB	9-50	29	24	20	11	30	26



**TABLE 3**  
**Columbia Manhattanville**  
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**Soil Samples**  
**Metals**

Sample ID	TAGM 4046 RSCOs	EASTERN US BACKGROUNDS	FIELD BLANK	MW/CB-11 (14'-16')	MW/CB-12 (6'-8')	MW/CB-12 (18.5'-20')	MW/CB-13 (2'-4')	MW/CB-13 (6'-8')
Lab Sample Number			L0501881-08	L0502002-01	L0502002-03	L0502002-04	L0502002-05	L0502002-06
Sampling Date			2/21/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005
Matrix			Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor			1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
<b>METAL:</b>								
Aluminum, Total	SB	33000	ND	5200	2700	2000	2000	1900
Antimony, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Arsenic, Total	7500 OR SB	3-13	ND	1.8	1.2	0.89	3.4	2
Barium, Total	300000 OR SB	15-600	ND	47	32	24	39	25
Beryllium, Total	160 OR SB	0-1.75	ND	0.2809	0.1212	0.1196	ND	ND
Cadmium, Total	1000 OR SB	0.1-1	ND	ND	ND	ND	0.1222	ND
Calcium, Total	SB	130-35000	ND	7500	5500	740	>10000	>10000
Chromium, Total	10000 OR SB	1.5-40	ND	8.9	5.9	6.4	48000	16000
Cobalt, Total	30000 OR SB	2.5-60	ND	3.9	2.8	2.5	3.7	4.4
Copper, Total	25000 OR SB	1-50	ND	9.3	10	9.4	2.4	2.2
Iron, Total	2000000 OR SB	2000-550000	ND	8500	5400	4300	13	10
Lead, Total	SB	200-500	ND	23	5.7	6.4	3600	4500
Magnesium, Total	SB	100-5000	ND	1500	1400	780	170	11
Manganese, Total	SB	50-5000	ND	260	260	200	2300	1900
Mercury, Total	100 OR SB	0.001-0.2	ND	ND	ND	ND	210	240
Nickel, Total	13000 OR SB	0.5-25	ND	6.6	5.8	5.7	0.28	ND
Potassium, Total	SB	85000-43000	ND	340	320	220	4.9	4.5
Selenium, Total	2000 OR SB	0.1-3.9	ND	ND	ND	ND	650	520
Silver, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Sodium, Total	SB	6000-8000	ND	200	150	110	ND	ND
Thallium, Total	SB	N/A	ND	ND	ND	ND	760	1500
Vanadium, Total	150000 OR SB	1-300	ND	8.9	7.2	6.2	ND	ND
Zinc, Total	20000 OR SB	9-50	ND	19	13	7.7	6.2	7.4

**TABLE 3**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
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**Metals**

Sample ID	TAGM 4046 RSCOs	EASTERN US BACKGROUNDS	MW/CB-14 (6'-8')	FIELD BLANK	CB-15 (2'-4')	CB-15 (14'-16')	MW/CB-16 (10'-12')	MW/CB-17 (2'-4')
Lab Sample Number			L0502002-08	L0502002-09	L0502261-01	L0502261-02	L0502261-04	L0502261-06
Sampling Date			2/24/2005	2/24/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005
Matrix			Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor			1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ug/l	ppb	ppb	ppb	ppb
<b>METAL:</b>								
Aluminum, Total	SB	33000	3200	ND	4800	4300	3600	1300
Antimony, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Arsenic, Total	7500 OR SB	3-13	1.6	ND	4.2	1.4	1.8	3.3
Barium, Total	300000 OR SB	15-600	34	ND	130	22	32	18
Beryllium, Total	160 OR SB	0-1.75	0.1435	ND	ND	0.1691	0.2554	0.1124
Cadmium, Total	1000 OR SB	0.1-1	ND	ND	0.3298	ND	ND	ND
Calcium, Total	SB	130-35000	4100	ND	49000	830	2600	47000
Chromium, Total	10000 OR SB	1.5-40	6.2	ND	9.5	7.3	6.7	4.2
Cobalt, Total	30000 OR SB	2.5-60	4.4	ND	3.2	2.9	4.9	2.3
Copper, Total	25000 OR SB	1-50	10	ND	71	7	17	7
Iron, Total	2000000 OR SB	2000-550000	6900	0.12	7700	6900	8800	3400
Lead, Total	SB	200-500	6.9	ND	210	4.6	6.6	4.7
Magnesium, Total	SB	100-5000	2100	ND	7900	970	1700	2300
Manganese, Total	SB	50-5000	280	ND	200	140	370	180
Mercury, Total	100 OR SB	0.001-0.2	ND	ND	0.38	ND	ND	ND
Nickel, Total	13000 OR SB	0.5-25	7.1	ND	9	4.9	10	8.4
Potassium, Total	SB	85000-43000	540	ND	1000	250	900	290
Selenium, Total	2000 OR SB	0.1-3.9	ND	ND	ND	0.242	ND	ND
Silver, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Sodium, Total	SB	6000-8000	350	ND	660	120	120	440
Thallium, Total	SB	N/A	ND	ND	ND	ND	ND	ND
Vanadium, Total	150000 OR SB	1-300	7.7	ND	8.3	7.4	10	4.9
Zinc, Total	20000 OR SB	9-50	16	ND	160	13	23	9.6

**TABLE 4**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Pesticides and PCBs

Sample ID	TAGM RSCOs	MW/CB-1 (2-4)	MW/CB-1 (10'-12')	MW/CB-2 (10'-12')	MW/CB-2 (12'-14')	MW/CB-3 (20'-22')	FIELD BLANK	MW/CB-7 (6'-8')
Lab Sample Number		L0501658-01	L0501658-02	L0501658-03	L0501658-04	L0501658-05	L0501658-06	L0501881-02
Sampling Date		2/15/2005	2/15/2005	2/15/2005	2/15/2005	2/15/2005	2/15/2005	2/21/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
<b>COMPOUND</b>								
4,4'-DDD	2900	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	2100	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND	ND	ND
Aldrin	41	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	200	ND	ND	ND	ND	ND	ND	ND
Chlordane	540	ND	ND	ND	ND	ND	ND	ND
cis-Chlordane	N/A	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	N/A	ND	ND	ND	ND	ND	ND	ND
Dieldrin	44	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	900	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	900	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	1000	ND	ND	ND	ND	ND	ND	ND
Endrin	100	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	N/A	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	N/A	ND	ND	ND	ND	ND	ND	ND
Heptachlor	100	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	20	ND	ND	ND	ND	ND	ND	ND
Lindane	N/A	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	<10000 TOTAL	ND	ND	ND	ND	ND	ND	ND
Toxaphene	N/A	ND	ND	ND	ND	ND	ND	ND
trans-Chlordane	N/A	ND	ND	ND	ND	ND	ND	ND
<b>PCBs</b>								
Total PCBs	10,000	ND	ND	ND	ND	ND	ND	ND

**TABLE 4**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Pesticides and PCBs

Sample ID	TAGM RSCOs	MW/CB-8 (12'-14')	MW/CB-9 (4'-6')	MW/CB-9 (14'-16')	CB-10 (2'-4')	CB-10 (7'-8')	FIELD BLANK	MW/CB-11 14.5'-16'
Lab Sample Number		L0501881-03	L0501881-04	L0501881-05	L0501881-06	L0501881-07	L0501881-08	L0502002-01
Sampling Date		2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/24/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
<b>COMPOUND</b>								
4,4'-DDD	2900	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	2100	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND	ND	ND
Aldrin	41	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	200	ND	ND	ND	ND	ND	ND	ND
Chlordane	540	ND	ND	ND	ND	ND	ND	ND
cis-Chlordane	N/A	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	N/A	ND	ND	ND	ND	ND	ND	ND
Dieldrin	44	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	900	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	900	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	1000	ND	ND	ND	ND	ND	ND	ND
Endrin	100	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	N/A	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	N/A	ND	ND	ND	ND	ND	ND	ND
Heptachlor	100	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	20	ND	ND	ND	ND	ND	ND	ND
Lindane	N/A	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	<10000 TOTAL	ND	ND	ND	ND	ND	ND	ND
Toxaphene	N/A	ND	ND	ND	ND	ND	ND	ND
trans-Chlordane	N/A	ND	ND	ND	ND	ND	ND	ND
<b>PCBs</b>								
Total PCBs	10,000	ND	ND	ND	ND	ND	ND	ND

**TABLE 4**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Pesticides and PCBs

Sample ID	TAGM RSCOs	MW/CB-12 (6'-8')	MW/CB-12 (18.5'-20')	MW/CB-13 (2'-4')	MW/CB-13 (6'-8')	MW/CB-14 (6'-8')	FIELD BLANK	CB-15 (2'-4')
Lab Sample Number		L0502002-03	L0502002-04	L0502002-05	L0502002-06	L0502002-08	L0502002-09	L0502261-01
Sampling Date		2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/28/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ug/l	ppb
<b>COMPOUND</b>								
4,4'-DDD	2900	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	2100	ND	ND	ND	ND	ND	ND	95.9
4,4'-DDT	2100	ND	ND	7.63	ND	ND	ND	183
Aldrin	41	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	200	ND	ND	ND	ND	ND	ND	ND
Chlordane	540	ND	ND	ND	ND	ND	ND	ND
cis-Chlordane	N/A	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	N/A	ND	ND	ND	ND	ND	ND	ND
Dieldrin	44	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	900	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	900	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	1000	ND	ND	ND	ND	ND	ND	ND
Endrin	100	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	N/A	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	N/A	ND	ND	ND	ND	ND	ND	ND
Heptachlor	100	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	20	ND	ND	ND	ND	ND	ND	ND
Lindane	N/A	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	<10000 TOTAL	ND	ND	ND	ND	ND	ND	ND
Toxaphene	N/A	ND	ND	ND	ND	ND	ND	ND
trans-Chlordane	N/A	ND	ND	ND	ND	ND	ND	ND
<b>PCBs</b>								
Total PCBs	10,000	ND	ND	ND	ND	ND	ND	ND

**TABLE 4**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Pesticides and PCBs

Sample ID	TAGM RSCOs	CB-15 (14'-16')	MW/CB-16 (10'-12')	MW/CB-17 (2'-4')	MW/CB-18 (4'-6')	MW/CB-19 (8'-10')	MW/CB-20 (18'-20')	MW/CB-21 (16'-18')
Lab Sample Number		L0502261-02	L0502261-04	L0502261-06	L0502261-07	L0502261-09	L0502261-11	L0502261-12
Sampling Date		2/28/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005	2/28/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
<b>COMPOUND</b>								
4,4'-DDD	2900	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	2100	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND	ND	ND
Aldrin	41	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	200	ND	ND	ND	ND	ND	ND	ND
Chlordane	540	ND	ND	ND	ND	ND	ND	ND
cis-Chlordane	N/A	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	N/A	ND	ND	ND	ND	ND	ND	ND
Dieldrin	44	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	900	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	900	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	1000	ND	ND	ND	ND	ND	ND	ND
Endrin	100	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	N/A	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	N/A	ND	ND	ND	ND	ND	ND	ND
Heptachlor	100	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	20	ND	ND	ND	ND	ND	ND	ND
Lindane	N/A	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	<10000 TOTAL	ND	ND	ND	ND	ND	ND	ND
Toxaphene	N/A	ND	ND	ND	ND	ND	ND	ND
trans-Chlordane	N/A	ND	ND	ND	ND	ND	ND	ND
<b>PCBs</b>								
Total PCBs	10,000	ND	ND	ND	ND	ND	ND	ND

**TABLE 4**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Soil Samples**  
Pesticides and PCBs

<b>Sample ID</b>	<b>TAGM RSCOs</b>	<b>MW/CB-22 (12'-14')</b>	<b>FIELD BLANK</b>
Lab Sample Number		L0502261-13	L0502261-14
Sampling Date		2/28/2005	2/28/2005
Matrix		Soil	Soil
Dilution Factor		1.0	1.0
Units	ppb	ppb	ug/l
<b>COMPOUND</b>			
4,4'-DDD	2900	ND	ND
4,4'-DDE	2100	ND	ND
4,4'-DDT	2100	ND	ND
Aldrin	41	ND	ND
Alpha-BHC	110	ND	ND
Beta-BHC	200	ND	ND
Chlordane	540	ND	ND
cis-Chlordane	N/A	ND	ND
Delta-BHC	N/A	ND	ND
Dieldrin	44	ND	ND
Endosulfan I	900	ND	ND
Endosulfan II	900	ND	ND
Endosulfan sulfate	1000	ND	ND
Endrin	100	ND	ND
Endrin aldehyde	N/A	ND	ND
Endrin ketone	N/A	ND	ND
Heptachlor	100	ND	ND
Heptachlor epoxide	20	ND	ND
Lindane	N/A	ND	ND
Methoxychlor	<10000 TOTAL	ND	ND
Toxaphene	N/A	ND	ND
trans-Chlordane	N/A	ND	ND

**PCBs**

Total PCBs	10,000	ND	ND
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**TABLE 5**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Volatile Organic Compounds

Sample ID		MW/CB1	MW/CB2	MW/CB3	MW/CB4	MW/CB5	MW/CB7	MW/CB8
Lab Sample Number		L0502589-07	L0502589-08	L0502589-01	L0502589-02	L0502589-03	L0502658-08	L0502658-05
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND								
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.6	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	1100	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	400	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobutane	NS	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NS	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	7.5	ND
Acrolein	5	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	ND	ND	ND	ND	ND	ND	ND
Benzene	0.7	ND	ND	ND	ND	66	0.55	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND
Ethyl ether	NS	ND	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	NS	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	0.59	0.54	ND	270	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND
Iodomethane	NS	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	0.94	0.93	11	410	ND	ND	ND
Methyl tert butyl ether	10	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	160	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	34	ND	ND
n-Propylbenzene	5	0.54	0.51	6.1	160	ND	ND	ND
p-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND
p-Xylene	5	ND	ND	ND	88	120	ND	ND
p/m-Xylene	5	2	1.9	ND	640	120	0.8	ND
p-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	25	ND	ND
sec-Butylbenzene	5	ND	ND	2.5	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	8.4
Tetrahydrofuran	NS	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	130	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	0.69
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND



**TABLE 5**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Volatile Organic Compounds

Sample ID		MW/CB9	MW/CB11	MW/CB12	MW/CB13	MW/CB14	MW/CB16	MW/CB17	MW/CB18
Lab Sample Number		L0502658-03	L0502589-04	L0502658-02	L0502658-09	L0502658-04	L0502658-10	L0502589-09	L0502589-05
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005
Matrix	<b>Class GA</b>	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	<b>Standards</b>	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	<b>ppb</b>	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND									
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.6	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	7.4	ND	ND	ND	ND	3.6	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	0.74	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	2.6	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobutane	NS	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NS	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	5	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.7	ND	1	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	0.64	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	3.8	ND	14	ND	1.1	1.6
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	1.2	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl ether	NS	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	NS	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	3.6	ND	ND	ND	ND	2.2	0.84
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	4.8	5	ND	ND	ND	3.3	1.2
Methyl tert butyl ether	10	ND	ND	ND	4	ND	7.7	ND	36
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	3.2	ND	ND	ND	2.7	ND	ND
n-Butylbenzene	5	ND	ND	7.2	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	1.8	12	ND	ND	ND	1.5	0.58
o-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	2.2	ND	ND	ND	1.4	1.1	ND
p/m-Xylene	5	ND	12	ND	ND	ND	1.2	7.3	3.1
p-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	0.74	2	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	10	ND	ND	1	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	1.5	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	NS	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	5	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND

**TABLE 5**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Volatile Organic Compounds

Sample ID		MW/CB19	MW/CB20	MW/CB21	MW/CB22	TRIP BLANK	FIELD BLANK	FIELD BLANK	TRIP BLANK
Lab Sample Number		L0502589-06	L0502658-01	L0502658-07	L0502658-06	L0502589-10	L0502589-11	L0502658-11	L0502658-12
Sampling Date		3/14/2005	3/16/2005	3/14/2005	3/14/2005	3/14/2005	3/15/2005	3/14/2005	3/11/2005
Matrix	Class GA Standards ppb	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND									
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.6	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	2.5	ND	ND	35	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	28	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobutane	NS	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NS	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	32	ND
Acrolein	5	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	7.7	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl ether	NS	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	NS	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	2.7	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	9.7	ND	ND	31	ND	ND	ND	ND
Methyl tert butyl ether	10	11	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	2.7	ND	ND	22	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	4.8	ND	ND	25	ND	ND	ND	ND
o-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	0.72	ND	ND	4.7	ND	ND	ND	ND
p/m-Xylene	5	6.3	ND	ND	250	ND	ND	ND	ND
p-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	1.3	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	3.9	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	0.94	3.3	ND	ND	ND	ND	ND
Tetrahydrofuran	NS	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	7.8	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	5	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND

**TABLE 6**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Semi-Volatile Organic Compounds

Sample ID		MW/CB1	MW/CB2	MW/CB3	MW/CB4	MW/CB5	MW/CB7	MW/CB8
Lab Sample Number		L0502589-07	L0502589-08	L0502589-01	L0502589-02	L0502589-03	L0502658-08	L0502658-05
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND								
1,2,4,5-Tetrachlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	NS	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	ND	ND	0.35	0.23	4.3	ND	ND
1-Methylphenanthrene	NS	ND	ND	ND	ND	0.2	ND	ND
2,4,5-Trichlorophenol	NS	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	5	ND	ND	ND	ND	12	ND	ND
2,4-Dinitrophenol	1	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND
2,6-Dichlorophenol	1	ND	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	NS	ND	ND	0.22	ND	0.54	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NS	ND	ND	ND	0.24	6.3	ND	ND
2-Methylphenol	NS	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1	ND	ND	ND	ND	ND	ND	ND
2-Picoline	NS	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND
3-Methylcholanthrene	NS	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	NS	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NS	ND	ND	ND	ND	ND	ND	ND
4-Aminobiphenyl	5	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NS	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a)anthracene	NS	ND	ND	ND	ND	ND	ND	ND
a,a-Dimethylphenethylamine	NS	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20	ND	ND	ND	ND	2	ND	ND
Acenaphthylene	NS	ND	ND	ND	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	55	ND	ND
a-Naphthylamine	NS	ND	ND	ND	ND	ND	ND	ND
Aniline	5	ND	ND	ND	ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND	0.79	ND	ND
Azobenzene	5	ND	ND	ND	ND	ND	ND	ND
Benzidine	5	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	ND	ND	ND	ND	0.43	ND	ND
Benzo(a)pyrene	0.002	ND	ND	ND	ND	0.38	ND	0.38
Benzo(b)fluoranthene	0.002	ND	ND	ND	ND	0.25	ND	0.33
Benzo(e)pyrene	NS	0.24	ND	ND	ND	0.26	ND	0.76
Benzo(ghi)perylene	5	0.54	ND	ND	0.34	0.34	ND	2.6
Benzo(k)fluoranthene	0.002	ND	ND	ND	ND	0.3	ND	0.28
Benzoic Acid	NS	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	NS	ND	ND	ND	ND	ND	ND	ND
Biphenyl	5	ND	ND	ND	ND	0.56	ND	ND
Bis(2-chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NS	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	5	ND	ND	ND	ND	ND	ND	ND
b-Naphthylamine	NS	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	NS	ND	ND	ND	ND	ND	ND	ND
Carbazole	NS	ND	ND	ND	ND	ND	ND	ND
Chlorobenzilate	NS	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002	ND	ND	ND	ND	0.43	ND	0.28
Dibenzo(a,h)anthracene	NS	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NS	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NS	ND	ND	ND	ND	ND	ND	ND
Dimethoate	NS	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NS	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	NS	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	NS	ND	ND	ND	ND	ND	ND	ND

**TABLE 6**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Semi-Volatile Organic Compounds

<b>Sample ID</b>		<b>MW/CB1</b>	<b>MW/CB2</b>	<b>MW/CB3</b>	<b>MW/CB4</b>	<b>MW/CB5</b>	<b>MW/CB7</b>	<b>MW/CB8</b>
Lab Sample Number		L0502589-07	L0502589-08	L0502589-01	L0502589-02	L0502589-03	L0502658-08	L0502658-05
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
<b>COMPOUND</b>								
Ethyl Methanesulfonate	NS	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50	ND	0.42	1.5	3.2	1.9	7.7	5.4
Fluorene	50	ND	ND	ND	ND	1.9	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND
Hexachloropropene	5	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	0.002	ND	ND	ND	ND	0.22	ND	0.5
Isodrin	5	ND	ND	ND	ND	ND	ND	ND
Isophorone	NS	ND	ND	ND	ND	ND	ND	ND
Methyl methanesulfonate	NS	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	0.36	0.46	>40	ND	ND
NDPA/DPA	NS	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND
Nitrosodi-n-butylamine	NS	ND	ND	ND	ND	ND	ND	ND
Nitrosodipiperidine	NS	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	NS	ND	ND	ND	ND	ND	ND	ND
p-Dimethylaminoazobenzene	NS	ND	ND	ND	ND	ND	ND	ND
Pentachlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	5	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1	ND	ND	ND	ND	ND	ND	ND
Perylene	NS	ND	ND	ND	ND	ND	ND	0.23
Phenacetin	NS	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50	ND	ND	0.99	1.3	4.1	1.4	0.96
Phenol	1	ND	ND	ND	ND	ND	ND	ND
Pronamide	NS	ND	ND	ND	ND	ND	ND	ND
Pyrene	50	0.3	1.1	2.2	7.4	1.8	14	11
Pyridine	NS	ND	ND	ND	ND	ND	ND	ND

**TABLE 6**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
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Semi-Volatile Organic Compounds

Sample ID		MW/CB9	MW/CB11	MW/CB12	MW/CB13	MW/CB14	MW/CB16	MW/CB17
Lab Sample Number		L0502658-03	L0502589-04	L0502658-02	L0502658-09	L0502658-04	L0502658-10	L0502589-09
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND								
1,2,4,5-Tetrachlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	NS	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	ND	ND	1.8	ND	ND	0.27	ND
1-Methylphenanthrene	NS	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NS	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	5	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND
2,6-Dichlorophenol	1	ND	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	NS	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NS	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	NS	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1	ND	ND	ND	ND	ND	ND	ND
2-Picoline	NS	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND
3-Methylcholanthrene	NS	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	NS	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NS	ND	ND	ND	ND	ND	ND	ND
4-Aminobiphenyl	5	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NS	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a)anthracene	NS	ND	ND	ND	ND	ND	ND	ND
a,a-Dimethylphenethylamine	NS	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NS	ND	0.31	ND	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	ND	ND	ND
a-Naphthylamine	NS	ND	ND	ND	ND	ND	ND	ND
Aniline	5	ND	ND	ND	ND	ND	ND	ND
Anthracene	50	ND	0.24	ND	ND	ND	ND	ND
Azobenzene	5	ND	ND	ND	ND	ND	ND	ND
Benzidine	5	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	ND	0.3	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.002	ND	0.55	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	ND	0.42	ND	ND	ND	ND	ND
Benzo(e)pyrene	NS	0.38	1.2	0.43	ND	ND	ND	ND
Benzo(ghi)perylene	5	1.1	3.3	1.3	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	0.58	ND	ND	ND	ND	ND
Benzoic Acid	NS	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	NS	ND	ND	ND	ND	ND	ND	ND
Biphenyl	5	ND	ND	ND	ND	ND	ND	0.21
Bis(2-chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NS	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	5	ND	ND	ND	ND	ND	ND	21
b-Naphthylamine	NS	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	NS	ND	ND	ND	ND	ND	ND	ND
Carbazole	NS	ND	ND	ND	ND	ND	ND	ND
Chlorobenzilate	NS	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002	ND	0.51	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	NS	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NS	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NS	ND	ND	ND	ND	ND	ND	ND
Dimethoate	NS	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NS	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	NS	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	NS	ND	ND	ND	ND	ND	ND	ND

**TABLE 6**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Semi-Volatile Organic Compounds

Sample ID		MW/CB9	MW/CB11	MW/CB12	MW/CB13	MW/CB14	MW/CB16	MW/CB17
Lab Sample Number		L0502658-03	L0502589-04	L0502658-02	L0502658-09	L0502658-04	L0502658-10	L0502589-09
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND								
Ethyl Methanesulfonate	NS	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50	9.5	15	3.7	4.1	ND	13	1.7
Fluorene	50	ND	0.53	ND	ND	ND	0.49	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND
Hexachloropropene	5	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	0.002	0.23	0.68	0.26	ND	ND	ND	ND
Isodrin	5	ND	ND	ND	ND	ND	ND	ND
Isophorone	NS	ND	ND	ND	ND	ND	ND	ND
Methyl methanesulfonate	NS	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	1.1	1.2	ND	ND	0.41	0.55
NDPA/DPA	NS	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND
Nitrosodi-n-butylamine	NS	ND	ND	ND	ND	ND	ND	ND
Nitrosodipiperidine	NS	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	NS	ND	ND	ND	ND	ND	ND	ND
p-Dimethylaminoazobenzene	NS	ND	ND	ND	ND	ND	ND	ND
Pentachlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	5	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1	ND	ND	ND	ND	ND	ND	ND
Perylene	NS	ND	ND	ND	ND	ND	ND	ND
Phenacetin	NS	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50	2.4	5.9	1.5	0.67	ND	7.1	0.31
Phenol	1	ND	ND	ND	ND	ND	ND	ND
Pronamide	NS	ND	ND	ND	ND	ND	ND	ND
Pyrene	50	19	30	6.7	8.1	1.2	28	3.1
Pyridine	NS	ND	ND	ND	ND	ND	ND	ND

**TABLE 6**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Semi-Volatile Organic Compounds

Sample ID		MW/CB18	MW/CB19	MW/CB20	MW/CB21	MW/CB22	FIELD BLANK	FIELD BLANK
Lab Sample Number		L0502589-05	L0502589-06	L0502658-01	L0502658-07	L0502658-06	L0502589-11	L0502658-11
Sampling Date		3/14/2005	3/14/2005	3/16/2005	3/14/2005	3/14/2005	3/15/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND								
1,2,4,5-Tetrachlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	NS	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	ND	ND	ND	ND	0.45	ND	ND
1-Methylphenanthrene	NS	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NS	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	5	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND
2,6-Dichlorophenol	1	ND	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	NS	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NS	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	NS	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1	ND	ND	ND	ND	ND	ND	ND
2-Picoline	NS	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND
3-Methylcholanthrene	NS	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	NS	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NS	ND	ND	ND	ND	ND	ND	ND
4-Aminobiphenyl	5	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NS	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a)anthracene	NS	ND	ND	ND	ND	ND	ND	ND
a,a-Dimethylphenethylamine	NS	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NS	ND	ND	ND	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	ND	ND	ND
a-Naphthylamine	NS	ND	ND	ND	ND	ND	ND	ND
Aniline	5	ND	ND	ND	ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND	ND	ND	ND
Azobenzene	5	ND	ND	ND	ND	ND	ND	ND
Benzidine	5	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	0.51	0.21	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.002	1.1	0.46	ND	ND	0.23	ND	ND
Benzo(b)fluoranthene	0.002	0.86	0.29	ND	ND	ND	ND	ND
Benzo(e)pyrene	NS	0.84	0.89	ND	ND	0.46	ND	ND
Benzo(ghi)perylene	5	1.5	2.8	ND	ND	1.2	ND	ND
Benzo(k)fluoranthene	0.002	1.3	0.44	ND	ND	ND	ND	ND
Benzoic Acid	NS	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	NS	ND	ND	ND	ND	ND	ND	ND
Biphenyl	5	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NS	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	5	ND	ND	ND	ND	ND	ND	ND
b-Naphthylamine	NS	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	NS	ND	ND	ND	ND	ND	ND	ND
Carbazole	NS	ND	ND	ND	ND	ND	ND	ND
Chlorobenzilate	NS	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002	0.62	0.38	ND	ND	0.23	ND	ND
Dibenzo(a,h)anthracene	NS	0.21	ND	ND	ND	ND	ND	ND
Dibenzofuran	NS	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NS	ND	ND	ND	ND	ND	ND	ND
Dimethoate	NS	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NS	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	NS	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	NS	ND	ND	ND	ND	ND	ND	ND

**TABLE 6**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Semi-Volatile Organic Compounds

Sample ID		MW/CB18	MW/CB19	MW/CB20	MW/CB21	MW/CB22	FIELD BLANK	FIELD BLANK
Lab Sample Number		L0502589-05	L0502589-06	L0502658-01	L0502658-07	L0502658-06	L0502589-11	L0502658-11
Sampling Date		3/14/2005	3/14/2005	3/16/2005	3/14/2005	3/14/2005	3/15/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
COMPOUND								
Ethyl Methanesulfonate	NS	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50	6.6	10	0.56	ND	12	ND	ND
Fluorene	50	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND
Hexachloropropene	5	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	0.002	0.92	0.54	ND	ND	ND	ND	ND
Isodrin	5	ND	ND	ND	ND	ND	ND	ND
Isophorone	NS	ND	ND	ND	ND	ND	ND	ND
Methyl methanesulfonate	NS	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	5.4	ND	ND
NDPA/DPA	NS	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND
Nitrosodi-n-butylamine	NS	ND	ND	ND	ND	ND	ND	ND
Nitrosodipiperidine	NS	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	NS	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	NS	ND	ND	ND	ND	ND	ND	ND
p-Dimethylaminoazobenzene	NS	ND	ND	ND	ND	ND	ND	ND
Pentachlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	5	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1	ND	ND	ND	ND	ND	ND	ND
Perylene	NS	0.36	ND	ND	ND	ND	ND	ND
Phenacetin	NS	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50	1.7	0.79	ND	ND	1.7	ND	ND
Phenol	1	ND	ND	ND	ND	ND	ND	ND
Pronamide	NS	ND	ND	ND	ND	ND	ND	ND
Pyrene	50	12	29	1.6	0.65	23	ND	ND
Pyridine	NS	ND	ND	ND	ND	ND	ND	ND



**TABLE 7**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
**Total Metals**

Sample ID		MW/CB1	MW/CB2	MW/CB3	MW/CB4	MW/CB5	MW/CB7	MW/CB8	MW/CB9	MW/CB11	MW/CB12
Lab Sample Number		L0502589-07	L0502589-08	L0502589-01	L0502589-02	L0502589-03	L0502658-08	L0502658-05	L0502658-03	L0502589-04	L0502658-02
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
COMPOUND											
Aluminum, Total	NS	1.24	0.216	3.43	7.44	0.261	16.2	22.9	2.83	0.05	16.5
Antimony, Total	0.03	ND	ND	ND	0.0019	0.0013	ND	0.0004	0.0005	0.001	0.0004
Arsenic, Total	0.025	0.0024	0.0023	0.001	0.0082	0.001	0.0023	0.0064	0.0035	0.002	0.0074
Barium, Total	1	0.0372	0.0521	0.5426	1.013	0.0526	1.462	0.2038	0.095	0.001	0.5576
Beryllium, Total	0.003	ND	ND	ND	ND	ND	ND	0.0012	ND	0.0025	0.0015
Cadmium, Total	0.005	0.0004	ND	ND	0.0012	ND	ND	ND	ND	0.002	ND
Calcium, Total	NS	54.6	92.8	113	932	49.7	889	120	45	1	114
Chromium, Total	0.05	0.0029	0.0006	0.009	0.0658	0.0014	0.0357	0.0379	0.0054	0.001	0.0492
Cobalt, Total	NS	0.0057	0.0106	0.0041	0.0082	0.0003	0.0163	0.0111	0.0036	0.0005	0.0164
Copper, Total	0.2	0.0073	0.0017	0.0338	0.027	0.0018	0.0396	0.0401	0.0097	0.0025	0.0848
Iron, Total	0.3	3.65	1.14	9.29	29.9	0.534	27.9	21.1	2.23	0.05	23.7
Lead, Total	0.025	0.0037	0.0007	0.0095	0.0372	0.0051	0.0082	0.0276	0.0046	0.001	0.0779
Magnesium, Total	35	13.4	19.5	42.3	51	6.66	28	26.3	13.1	0.05	32.2
Manganese, Total	0.3	1.538	23.66	5.662	1.461	0.0393	0.2738	1.784	0.5582	0.001	8.375
Mercury, Total	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	0.0002	ND
Nickel, Total	0.1	0.0058	0.0056	0.0169	0.0167	0.0016	0.0353	0.0267	0.0055	0.0025	0.0563
Potassium, Total	NS	6.68	8.3	9.01	36	13.6	76.3	18.8	3.72	0.5	11
Selenium, Total	0.01	ND	ND	ND	0.003	0.001	0.005	0.004	ND	0.005	0.002
Silver, Total	0.05	ND	ND	ND	ND	ND	ND	0.0003	ND	0.0005	ND
Sodium, Total	20	44.5	56.3	169	381	42.7	7720	226	30.1	1	195
Thallium, Total	0.0005	ND	ND	ND	ND	ND	ND	0.0002	ND	0.0005	0.0003
Vanadium, Total	NS	0.0027	0.0007	0.0108	0.0204	0.001	0.0573	0.0301	0.0065	0.001	0.0435
Zinc, Total	2	0.0333	0.0325	0.0364	0.7441	0.0414	0.1396	0.0822	0.0331	0.025	0.0773

**TABLE 7**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
**Total Metals**

Sample ID		MW/CB13	MW/CB14	MW/CB16	MW/CB17	MW/CB18	MW/CB19	MW/CB20	MW/CB21	MW/CB22	FIELD BLANK	FIELD BLANK
Lab Sample Number		L0502658-09	L0502658-04	L0502658-10	L0502589-09	L0502589-05	L0502589-06	L0502658-01	L0502658-07	L0502658-06	L0502589-11	L0502658-11
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/16/2005	3/14/2005	3/14/2005	3/15/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
COMPOUND												
Aluminum, Total	NS	10	47.6	18.9	7.48	4.65	27.6	0.211	18	2.85	ND	0.017
Antimony, Total	0.03	ND	0.0007	0.0003	0.0006	0.0004	0.0005	ND	0.0004	0.0003	ND	ND
Arsenic, Total	0.025	0.0046	0.0146	0.0049	0.0034	0.0026	0.0113	ND	0.0063	0.0162	ND	ND
Barium, Total	1	0.575	0.6555	0.34	0.1037	0.1437	0.7092	0.1569	0.8211	0.2156	ND	0.0003
Beryllium, Total	0.003	ND	0.003	0.0015	0.0005	ND	0.002	ND	0.0011	ND	ND	ND
Cadmium, Total	0.005	ND	0.0011	ND	ND	ND	0.0019	ND	0.0006	ND	ND	ND
Calcium, Total	NS	326	72.1	156	58.9	144	264	62.1	584	252	0.295	ND
Chromium, Total	0.05	0.0165	0.058	0.0236	0.0127	0.0087	0.1521	0.0015	0.024	0.007	ND	ND
Cobalt, Total	NS	0.0085	0.022	0.0146	0.0038	0.0041	0.0173	0.0006	0.0109	0.002	ND	ND
Copper, Total	0.2	0.0305	0.074	0.0341	0.0531	0.02	0.0811	0.0024	0.0219	0.009	ND	0.0045
Iron, Total	0.3	14.7	47.3	23.2	10.3	7.16	41.2	0.64	23.8	11.8	0.015	0.027
Lead, Total	0.025	0.0194	0.0554	0.0192	0.0142	0.0427	0.1412	0.0025	0.0236	0.05	0.0004	0.0003
Magnesium, Total	35	35.5	15.6	38.7	8.46	27.6	49.1	16.2	56	39.6	0.013	0.011
Manganese, Total	0.3	1.631	1.709	1.988	0.1094	2.331	3.141	0.234	1.155	4.21	0.0009	0.0006
Mercury, Total	0.0007	ND	ND	ND	ND	ND	0.0003	ND	ND	0.0002	ND	ND
Nickel, Total	0.1	0.0242	0.0532	0.0357	0.0131	0.0085	0.0415	0.0019	0.025	0.005	ND	ND
Potassium, Total	NS	53.2	12.9	15	11.4	29	23.9	9.57	37.6	22	ND	ND
Selenium, Total	0.01	ND	0.008	0.009	0.003	0.001	0.004	0.002	0.008	0.001	ND	ND
Silver, Total	0.05	ND	ND	0.0003	ND	ND	0.0002	ND	ND	ND	ND	ND
Sodium, Total	20	3140	257	19.5	64.7	109	430	114	418	162	ND	ND
Thallium, Total	0.0005	ND	0.0005	0.0004	0.0001	ND	0.0003	ND	0.0002	ND	ND	ND
Vanadium, Total	NS	0.0214	0.0635	0.0308	0.0132	0.01	0.0624	0.001	0.0268	0.0044	ND	ND
Zinc, Total	2	0.0809	0.1519	0.0917	0.0771	0.0816	0.279	0.0061	0.0798	0.0322	ND	0.0127

**TABLE 8**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Dissolved Metals

Sample ID		MW/CB1	MW/CB2	MW/CB3	MW/CB4	MW/CB5	MW/CB7	MW/CB8	MW/CB9	MW/CB11	MW/CB12	MW/CB13
Lab Sample Number		L0502589-07	L0502589-08	L0502589-01	L0502589-02	L0502589-03	L0502658-08	L0502658-05	L0502658-03	L0502589-04	L0502658-02	L0502658-09
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
COMPOUND												
Aluminum, Dissolved	NS	0.014	0.018	0.035	0.018	0.03	0.05	0.1	0.01	0.015	0.01	0.02
Antimony, Dissolved	0.03	0.0015	0.0018	0.0012	0.0059	0.0024	0.001	0.0002	0.0002	0.0019	0.0002	0.0004
Arsenic, Dissolved	0.025	0.0016	0.0013	ND	0.0041	0.001	0.002	0.0004	0.0004	0.0005	0.0004	0.0008
Barium, Dissolved	NS	0.0265	0.0591	0.467	1.16	0.0445	0.001	0.0002	0.0002	0.2053	0.0002	0.0004
Beryllium, Dissolved	0.003	ND	ND	ND	ND	ND	0.0025	0.0005	0.0005	ND	0.0005	0.001
Cadmium, Dissolved	0.005	0.0007	0.0004	ND	ND	0.0009	0.002	0.0004	0.0004	ND	0.0004	0.0008
Calcium, Dissolved	NS	52.6	86.2	115	1260	51.2	2	2	0.2	185	0.2	2
Chromium, Dissolved	0.05	ND	ND	0.0003	0.0007	0.0003	0.001	0.0002	0.0002	0.0002	0.0002	0.0004
Cobalt, Dissolved	NS	0.0043	0.0132	0.0002	0.0069	0.0003	0.0005	0.0001	0.0001	0.0016	0.0001	0.0002
Copper, Dissolved	0.2	0.0124	0.0238	0.003	0.0277	0.0212	0.0025	0.0005	0.0005	0.0168	0.0005	0.001
Iron, Dissolved	0.3	0.521	0.394	3.25	13.2	0.164	0.05	0.01	0.01	0.33	0.01	0.02
Lead, Dissolved	0.025	0.0003	0.0009	0.0005	0.0014	0.0008	0.001	0.0002	0.0002	0.0012	0.0002	0.0004
Magnesium, Dissolved	35	12.4	18.9	43	51.1	6.68	0.05	0.01	0.01	27.7	0.01	0.02
Manganese, Dissolved	0.3	1.465	29.31	4.631	1.431	0.0384	0.001	0.0002	0.0002	1.362	0.0002	0.0004
Mercury, Dissolved	0.0007	ND	ND	ND	ND	ND	0.0002	0.0002	0.0002	ND	0.0002	0.0002
Nickel, Dissolved	0.1	0.0078	0.0122	0.0095	0.0151	0.0057	0.0025	0.0005	0.0005	0.0076	0.0005	0.001
Potassium, Dissolved	NS	6.79	8.4	8.02	41.4	14.2	0.5	0.1	0.1	19.8	0.1	0.2
Selenium, Dissolved	0.01	ND	ND	ND	0.003	ND	0.005	0.001	0.001	0.002	0.001	0.002
Silver, Dissolved	0.05	ND	ND	ND	ND	ND	0.0005	0.0001	0.0001	ND	0.0001	0.0002
Sodium, Dissolved	20	45.4	57.4	159	487	43.6	10	1	0.1	335	1	10
Thallium, Dissolved	0.0005	ND	ND	ND	ND	ND	0.0005	0.0001	0.0001	ND	0.0001	0.0002
Vanadium, Dissolved	NS	ND	0.0004	0.0006	0.0014	0.0008	0.001	0.0002	0.0002	0.0004	0.0002	0.0004
Zinc, Dissolved	2	0.0145	0.0207	0.0119	0.5777	0.0192	0.025	0.005	0.005	0.0099	0.005	0.01

**TABLE 8**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Dissolved Metals

Sample ID		MW/CB14	MW/CB16	MW/CB17	MW/CB18	MW/CB19	MW/CB20	MW/CB21	MW/CB22	FIELD BLANK	FIELD BLANK
Lab Sample Number		L0502658-04	L0502658-10	L0502589-09	L0502589-05	L0502589-06	L0502658-01	L0502658-07	L0502658-06	L0502589-11	L0502658-11
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/16/2005	3/14/2005	3/14/2005	3/15/2005	3/14/2005
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	Standards	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
COMPOUND											
Aluminum, Dissolved	NS	0.01	0.02	0.011	0.013	0.012	0.01	0.01	0.01	ND	0.01
Antimony, Dissolved	0.03	0.0002	0.0004	0.0034	0.0019	0.0023	0.0002	0.0002	0.0002	ND	0.0002
Arsenic, Dissolved	0.025	0.0004	0.0008	0.0005	0.0014	0.0009	0.0004	0.0004	0.0004	ND	0.0004
Barium, Dissolved	NS	0.0002	0.0004	0.0464	0.107	0.4025	0.0002	0.0002	0.0002	ND	0.0002
Beryllium, Dissolved	0.003	0.0005	0.001	ND	ND	ND	0.0005	0.0005	0.0005	ND	0.0005
Cadmium, Dissolved	0.005	0.0004	0.0008	ND	ND	0.0013	0.0004	0.0004	0.0004	ND	0.0004
Calcium, Dissolved	NS	2	2	62.5	156	302	0.2	2	2	0.37	0.2
Chromium, Dissolved	0.05	0.0002	0.0004	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	ND	0.0002
Cobalt, Dissolved	NS	0.0001	0.0002	0.0004	0.0015	0.001	0.0001	0.0001	0.0001	ND	0.0001
Copper, Dissolved	0.2	0.0005	0.001	0.0153	0.0301	0.0091	0.0005	0.0005	0.0005	ND	0.0005
Iron, Dissolved	0.3	0.01	0.02	0.127	0.82	0.951	0.01	0.01	0.01	0.015	0.01
Lead, Dissolved	0.025	0.0002	0.0004	0.0004	0.0009	0.0003	0.0002	0.0002	0.0002	ND	0.0002
Magnesium, Dissolved	35	0.01	0.02	7.86	30	56.4	0.01	0.01	0.01	0.036	0.01
Manganese, Dissolved	0.3	0.0002	0.0004	0.0556	2.62	2.616	0.0002	0.0002	0.0002	0.0004	0.0002
Mercury, Dissolved	0.0007	0.0002	0.0002	ND	ND	ND	0.0002	0.0002	0.0002	ND	0.0002
Nickel, Dissolved	0.1	0.0005	0.001	0.006	0.0075	0.0068	0.0005	0.0005	0.0005	ND	0.0005
Potassium, Dissolved	NS	0.1	0.2	11.4	31	22.5	0.1	0.1	0.1	ND	0.1
Selenium, Dissolved	0.01	0.001	0.002	0.003	ND	0.001	0.001	0.001	0.001	ND	0.001
Silver, Dissolved	0.05	0.0001	0.0002	ND	ND	ND	0.0001	0.0001	0.0001	ND	0.0001
Sodium, Dissolved	20	1	10	67.4	111	592	0.1	1	1	ND	0.1
Thallium, Dissolved	0.0005	0.0001	0.0002	ND	ND	ND	0.0001	0.0001	0.0001	ND	0.0001
Vanadium, Dissolved	NS	0.0002	0.0004	0.001	0.0007	0.0005	0.0002	0.0002	0.0002	ND	0.0002
Zinc, Dissolved	2	0.005	0.01	0.0128	0.0267	0.0213	0.005	0.005	0.005	ND	0.005

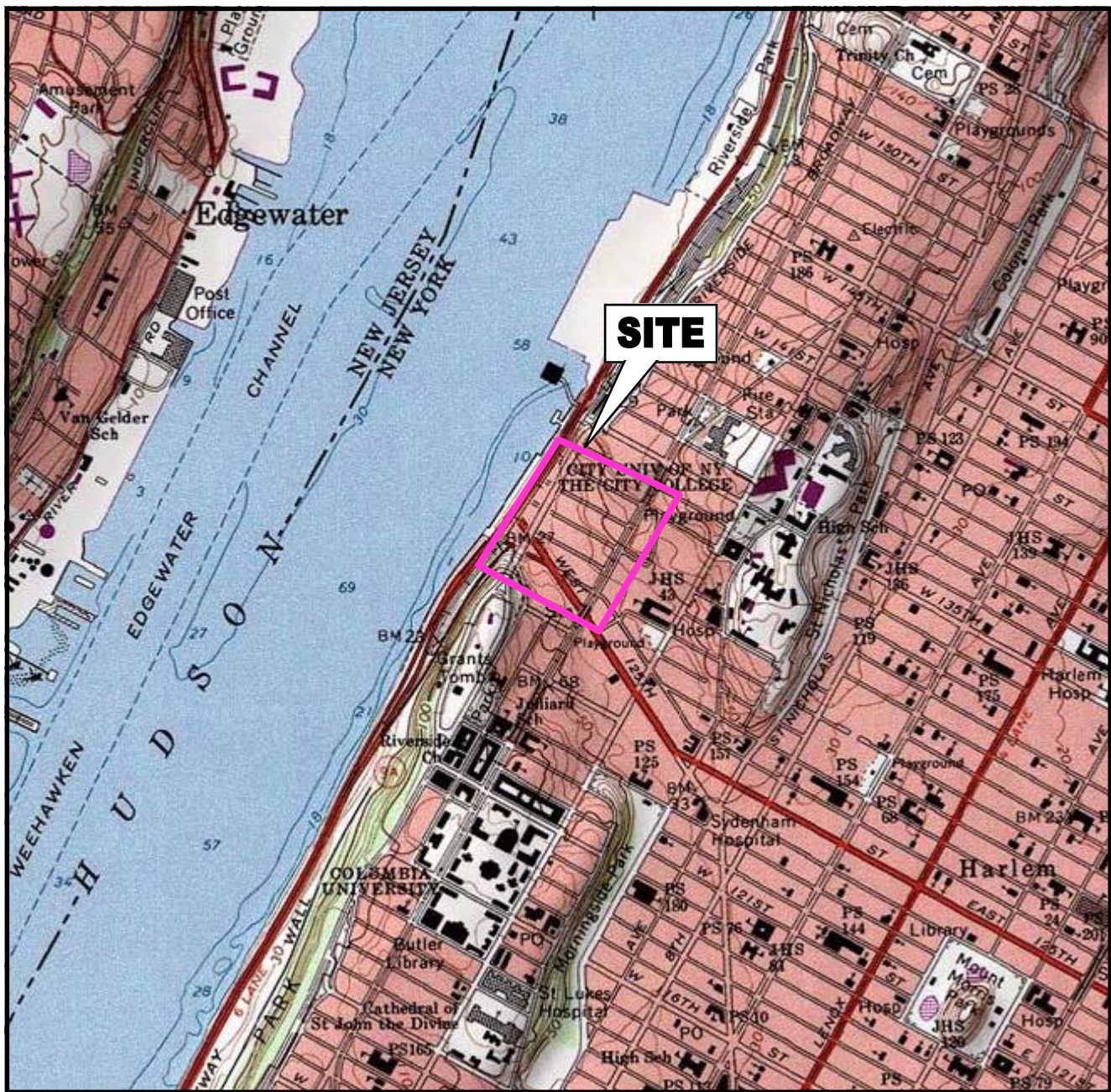
**TABLE 9**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Pesticides and PCBs

<b>Sample ID</b>		<b>MW/CB1</b>	<b>MW/CB2</b>	<b>MW/CB3</b>	<b>MW/CB4</b>	<b>MW/CB5</b>	<b>MW/CB7</b>	<b>MW/CB8</b>	<b>MW/CB9</b>	<b>MW/CB11</b>	<b>MW/CB12</b>
Lab Sample Number		L0502589-07	L0502589-08	L0502589-01	L0502589-02	L0502589-03	L0502658-08	L0502658-05	L0502658-03	L0502589-04	L0502658-02
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005
Matrix	<b>Class GA</b>	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	<b>Standards</b>	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
<b>COMPOUND</b>											
4,4'-DDD	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-Chlordane	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lindane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-Chlordane	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>PCBs</b>											
TOTAL PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

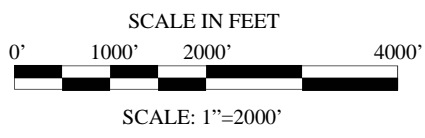
**TABLE 9**  
**Columbia Manhattanville**  
**Subsurface Investigation**  
**Groundwater**  
Pesticides and PCBs

Sample ID		MW/CB13	MW/CB14	MW/CB16	MW/CB17	MW/CB18	MW/CB19	MW/CB20	MW/CB21	MW/CB22	FIELD BLANK	FIELD BLANK
Lab Sample Number		L0502658-09	L0502658-04	L0502658-10	L0502589-09	L0502589-05	L0502589-06	L0502658-01	L0502658-07	L0502658-06	L0502589-11	L0502658-11
Sampling Date		3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/16/2005	3/14/2005	3/14/2005	3/15/2005	3/14/2005
Matrix	<b>Class GA</b>	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dilution Factor	<b>Standards</b>	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
<b>COMPOUND</b>												
4,4'-DDD	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-Chlordane	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lindane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-Chlordane	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>PCBs</b>												
TOTAL PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

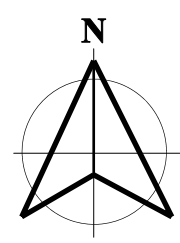
## FIGURES



QUADRANGLE



**SOURCE:**  
 USGS TOPOGRAPHIC MAP - CENTRAL PARK N.J. N.Y.  
 QUADRANGLE - DATED 1953, PHOTOREVISED 1994



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**Columbia Manhattanville**  
 New York, New York

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**PROJECT SITE LOCATION MAP**

**AKRF, Inc.**

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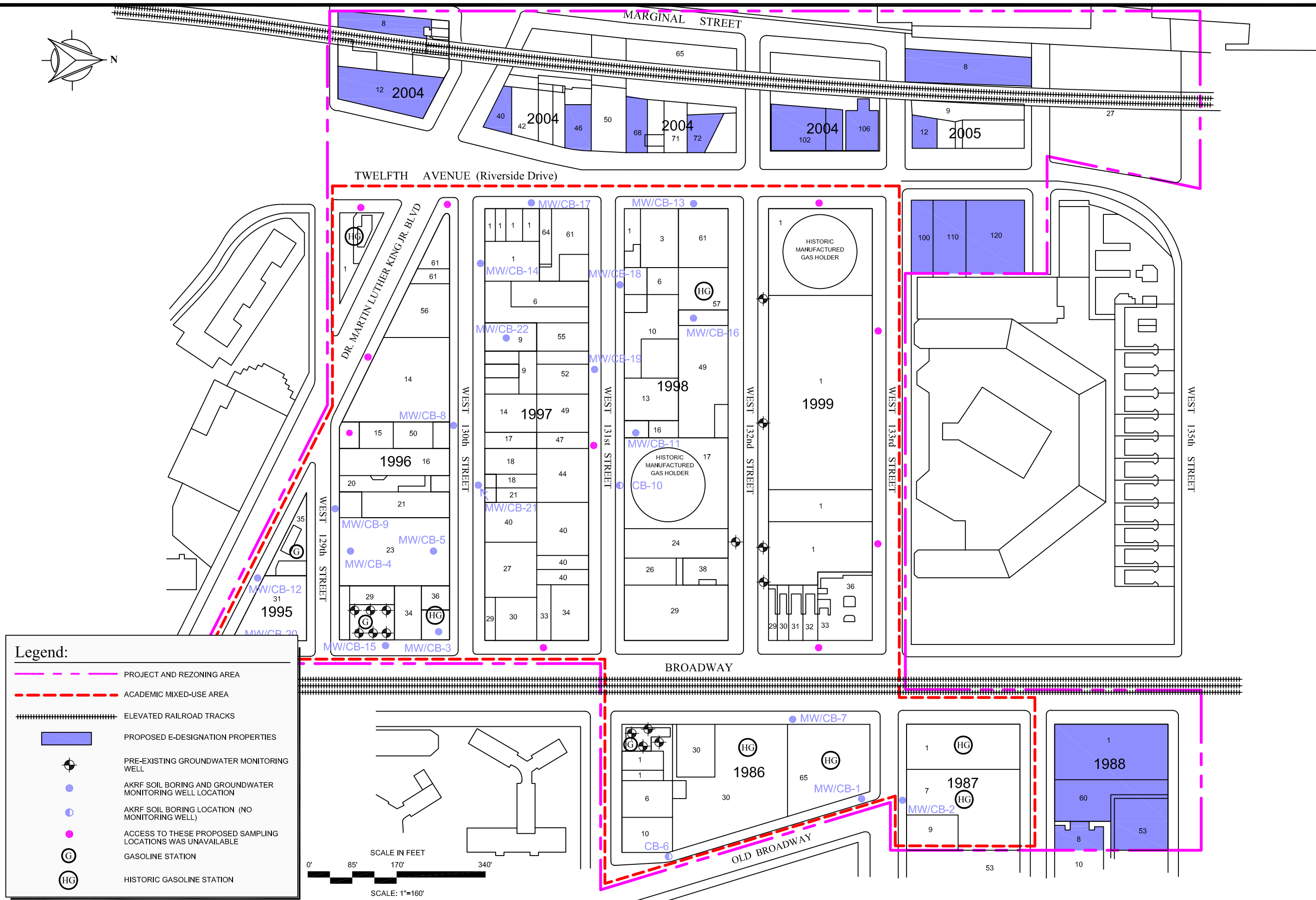
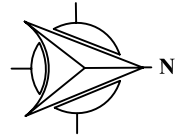
**Environmental Consultants**  
 440 Park Avenue South, New York, N.Y. 10016

DATE  
**04.17.06**

PROJECT No.  
**10470**

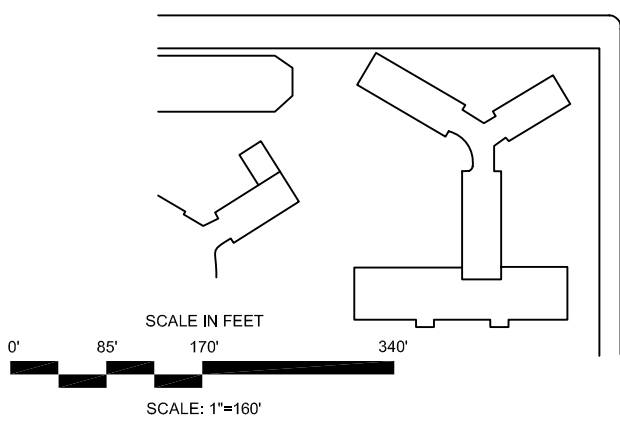
FIGURE No.  
**1**





**Legend:**

- PROJECT AND REZONING AREA
- ACADEMIC MIXED-USE AREA
- ELEVATED RAILROAD TRACKS
- PROPOSED E-DESIGNATION PROPERTIES
- PRE-EXISTING GROUNDWATER MONITORING WELL
- AKRF SOIL BORING AND GROUNDWATER MONITORING WELL LOCATION
- AKRF SOIL BORING LOCATION (NO MONITORING WELL)
- ACCESS TO THESE PROPOSED SAMPLING LOCATIONS WAS UNAVAILABLE
- GASOLINE STATION
- HISTORIC GASOLINE STATION



**AKRF**  
 Environmental Consultants  
 440 Park Avenue South, New York, N.Y. 10016

**MANHATTANVILLE REZONING  
 AND ACADEMIC MIXED-USE DEVELOPMENT  
 PROJECT SITE DETAIL**

DATE  
**04.17.06**

SCALE  
**1"=170'**

PROJECT No.  
**10470**

FIGURE No.  
**2**

**APPENDIX A**  
**PHOTOGRAPHIC DOCUMENTATION**



Photograph 1: Drilling activities at soil boring location MW/CB-20.



Photograph 2: Drilling activities at soil boring location MW/CB-1.



Photograph 3: Water level measurement collected at newly installed MW/CB-2.



Photograph 4: Steam-cleaning the augers between soil boring locations.

**APPENDIX B**  
**SOIL BORING LOGS**

<b>AKRF, Inc.</b>			Manhattanville Rezoning Columbia University - West Harlem, NY  AKRF Project Number : 10470			Boring No. <b>MW/CB-1</b>		
						Sheet 1 of 1		
Environmental Consultants  440 Park Avenue South, New York, NY 10016			Sampling Method: 2' Split Spoon Driller : SDS Weather: 45F, Clear Sampler: AKRF/Steve Grens			Drilling		
						Start		Finish
			Time: 10:15			Time: 12:10		
			Date: 2/15/05			Date: 2/15/05		
Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis	
1			Top 6": CONCRETE. Bottom 6": Gray fine SAND and SILT (removed by hand).					
2	6"	1 2	Gray fine SAND and SILT.	ND	No Odor	Dry		
3	16"	2	Very loose brown fine SAND and SILT.	ND	No Odor	Dry	MW/CB-1 (2'-4')	
4		2						
5	12"	1/12"	Very loose brown fine SAND and SILT.	ND	No Odor	Dry		
6		1/12"						
7	12"	1	Very loose brown fine SAND and SILT.	ND	No Odor	Dry		
8		1						
9	19"	2	Very loose brown fine SAND and SILT.	ND	No Odor	Dry		
10		2						
11	18"	1	Very loose brown fine SAND and SILT. Orange and black vertical banding noted throughout soil in split spoon.	ND	No Odor	Dry	MW/CB-1 (10'-12')	
12		2						
13	17"	1	Very loose brown fine SAND and SILT. Orange and black vertical banding noted throughout soil in split spoon.	ND	No Odor	Dry		
14		2						
15	18"	2	Top 11": Brown fine SAND and SILT. Orange and black vertical banding noted throughout. Bottom 7": Gray fine SAND and SILT.	ND	No Odor	Wet		
16		1						
17			Augered to 20 feet below grade to set well.					
18								
19								
20								
21			End of boring at 20 feet below grade.					
22								
23								
24								
25								
26								
27								
<b>Notes:</b> PID - Photoionization detector ND - Not Detected  Groundwater encountered at 14 feet below grade during drilling.  Soil samples MW/CB-1 (2'-4') and MW/CB-1 (10'-12') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.  MW/CB-1 groundwater samples sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).								

<b>AKRF, Inc.</b>			Manhattanville Rezoning Columbia University - West Harlem, NY  AKRF Project Number : 10470		Boring No. <b>MW/CB-2</b>  Sheet 1 of 1		
Environmental Consultants  440 Park Avenue South, New York, NY 10016			Sampling Method: 2' Split Spoon Driller : SDS Weather: 45F, Clear Sampler: AKRF/Steve Grens		Drilling Start Finish Time: 13:45 Time: 15:30 Date: 2/15/05 Date: 2/15/05		
Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			Top 5": CONCRETE. Bottom 7": Dark brown fine SAND and SILT (removed by hand).				
2	2"	4 3	Loose brown fine SAND and SILT, trace Concrete (Slough).	ND	No Odor	Dry	
3	16"	2 3	Loose brown fine SAND and SILT, trace Concrete (Slough).	0.2	No Odor	Dry	
4		7 8					
5	19"	7 7	Medium dense brown fine SAND and SILT.	ND	No Odor	Dry	
6		8 7					
7	17"	8 9	Medium dense brown fine SAND and SILT. Horizontal gray banding noted on bottom 2".	ND	No Odor	Dry	
8		10 10					
9	24"	7 13	Medium dense brown fine SAND and SILT.	ND	No Odor	Dry	
10		13 12					
11	24"	11 14	Medium dense brown fine SAND and SILT.	ND	No Odor	Dry	MW/CB-2 (10'-12')
12		10 12					
13	24"	9 7	Top 12": Brown fine SAND and SILT. Bottom 12": Gray fine SAND and SILT.	10.9	No Odor Strong petroleum-like odor	Dry Wet	MW/CB-2 (12'-14')
14		5 4					
15			Augered to 19 feet below grade to set well.				
16							
17							
18							
19							
20			End of boring at 19 feet below grade.				
21							
22							
23							
24							
25							
26							
27							
<b>Notes:</b> PID - Photoionization detector ND - Not Detected  Groundwater encountered at 13 feet below grade during drilling.  Soil samples MW/CB-2 (10'-12') and MW/CB-2 (12'-14') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.  MW/CB-2 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).							

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **MW/CB-3**

AKRF Project Number : 10470

Sheet 1 of 2

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 49F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 07:35	Time: 12:00
Date: 2/16/05	Date: 2/16/05

Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Asphalt	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			Top 3": ASPHALT PAVEMENT Bottom 9": Brown fine SAND and GRAVEL (removed by hand).				
2	2"	48 9	Brown fine SAND, SILT and GRAVEL, trace Concrete.	ND	No Odor	Dry	
3	6"	9 7	Top 4": Dark brown SAND and fine GRAVEL, trace Silt, Fill (Brick, Asphalt, Concrete).	ND	No Odor	Dry	
4		3 1	Bottom 2": Gray fine SAND and SILT, trace Concrete (FILL).				
5	2"	1 1	Very loose CONCRETE and fine GRAVEL, trace brown fine Sand, Silt (FILL).	ND	No Odor	Dry	
6		2 1					
7	8"	4 8 8	Medium dense CONCRETE and fine GRAVEL, trace brown fine Sand, Silt (FILL).	ND	No Odor	Dry	
8		3					
9	1"	8 7	Medium dense CONCRETE (FILL).	ND	No Odor	Dry	
10		6 2					
11	1"	6 3	Loose BRICK and CONCRETE, trace brown fine Sand, Silt (FILL).	ND	No Odor	Dry	
12		4 2					
13	14"	11 12	Top 3": BRICK and CONCRETE (FILL). Bottom 11": Brown fine SAND and SILT.	ND	No Odor	Dry	
14		5 4					
15	16"	2 2	Loose brown fine SAND, trace Silt.	ND	No Odor	Dry	
16		2 2					
17	7"	2 3	Medium dense brown fine SAND, trace Silt.	ND	No Odor	Dry	
18		15 50/1"					
19			Augered to 20 feet below grade. Continued split spoon sampling at 20 feet below grade.				
20							
21	17"	16 23	Very dense reddish/brown SAND and fine GRAVEL, trace Silt.	ND	No Odor	Dry	MW/CB-3 (20'-22')
22		35 28					
23	16"	16 23	Top 14": Reddish/brown SAND and fine GRAVEL, trace Silt. Bottom 2": Gray SAND and fine GRAVEL, trace Silt.	ND	No Odor	Dry	
24		44 28					
25	2"	24 47	Very dense gray coarse SAND and fine GRAVEL, trace Silt.	ND	No Odor	Dry	
26		50/1"					

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 26.2 feet below grade during drilling.

Soil sample MW/CB-3 (20'-22') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-3 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **MW/CB-3**

AKRF Project Number : 10470

Sheet 2 of 2

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 49F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 07:35	Time: 12:00
Date: 2/16/05	Date: 2/16/05

Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Asphalt	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
27	14"	21	Medium dense gray SAND and fine GRAVEL, trace Silt.	ND	No Odor	Wet	MW/CB-3 (20'-22')
28		7					
29			Augered to 31 feet below grade to set well.				
30							
31							
32			End of boring at 31 feet below grade.				
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 26 feet below grade during drilling.

Soil sample MW/CB-3 (20'-22') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-3 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).



# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **MW/CB-4**

AKRF Project Number : 10470

Sheet 1 of 1

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 49F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 12:45	Time: 15:35
Date: 2/16/05	Date: 2/16/05

Depth (feet)	Recovery (Inches)	Blower/ Ft.	Surface Condition: Asphalt	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			Top 2": ASPHALT PAVEMENT. Bottom 2": CONCRETE.				
2			Brick, Concrete, Automotive Parts, some fine brown Sand and Silt (FILL) (removed by hand).	ND	No Odor	Dry	
3	4"	5	Loose BRICK, trace fine brown Sand, Silt.	ND	No Odor	Dry	
4		3					
5	4"	5	Medium dense BRICK, CONCRETE, and GRAVEL (FILL).	0.1	No Odor	Dry	
6		2					
7	2"	29	Very dense BRICK, CONCRETE, GRAVEL, and WOOD FRAGMENTS (FILL).	ND	No Odor	Dry	
8		50/2"					
9	2"	5	Loose BRICK (FILL).	ND	No Odor	Dry	
10		4					
11	0	2	No Recovery.				
12		2					
13	0	3	No Recovery. Fill (Brick) visible around augers. Augered to 14 feet below grade to continue split spoon sampling.				
14		50/2"					
15	6"	6	Loose brown/gray SAND and SILT, trace Wood, Brick (FILL).	ND	Slight creosote-like odor	Dry	MW/CB-4 (14'-16')
16		3					
17	0	3	No Recovery.	ND	No Odor	Dry	
18		2					
19	19"	1	Top 12": Gray SILT and fine SAND. Bottom 7": Gray fine to medium SAND, some Silt.	27.8	Slight petroleum/creosote-like odor	Wet	
20		3					
21			Augered to 22 feet below grade to set well.				
22							
23			End of boring at 22 feet below grade.				
24							
25							
26							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 17 feet below grade during drilling.

Soil sample MW/CB-4 (14'-16') sent to the lab to be analyzed for VOCs (8260).

MW/CB-4 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **MW/CB-5**

AKRF Project Number : 10470

Sheet 1 of 1

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 45F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 07:35	Time: 10:10
Date: 2/17/05	Date: 2/17/05

Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis	
1	2"	43	CONCRETE (5").	ND	No Odor	Dry		
2		4	BRICK, ASPHALT, and CONCRETE, trace brown fine Sand, Silt (FILL).					
3	1"	4	Loose BRICK, ASPHALT, and CONCRETE, trace brown fine Sand, Silt (FILL).	ND	No Odor	Dry		
4		4						
5	6"	14	Very dense BRICK, CONCRETE, ASPHALT, and WOOD, trace fine brown/gray Sand, Silt (FILL).	0.2	Slight creosote-like odor	Dry		
6		27						
7		30						
8	2"	16	Dense BRICK, CONCRETE, ASPHALT, and WOOD, trace fine brown/gray Sand, Silt (FILL).	0.2	Slight creosote-like odor	Dry		
9		17						
10		19						
11	1"	50/1"	Very dense BRICK (FILL).	ND	No Odor	Dry		
12								
13	1"	50/2"	Void encountered 10 to 12 feet below grade. Augered to 12 feet below grade.					
14								Very dense gray fine to medium SAND and SILT, some Brick (FILL).
15								
16								
17								
18			End of boring at 17 feet below grade.					
19								
20								
21								
22								
23								
24								
25								
26								
27								

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 12 feet below grade during drilling.

No soil sample submitted for laboratory analysis due to poor sample recovery and fill material.

MW/CB-5 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

AKRF, Inc.			Manhattanville Rezoning Columbia University - West Harlem, NY		Boring No. <b>CB-6</b>		
Environmental Consultants 440 Park Avenue South, New York, NY 10016			AKRF Project Number : 10470		Sheet 1 of 1		
					Drilling		
			Sampling Method: 2' Split Spoon		Start		Finish
			Driller : SDS		Time: 10:30		Time: 12:30
			Weather: 32F, Rain/Snow		Date: 2/21/05		Date: 2/21/05
			Sampler: AKRF/Steve Grens				
Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1	2"	4	CONCRETE (3"), some brown fine Sand and Silt (removed by hand).				
2		5	Brown/gray SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
3	1"	7	Very dense brown/gray SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
4		50/3"					
5	9"	4	Top 2": SLOUGH. Bottom 7": Brown SILT and fine SAND.	ND	No Odor	Dry	CB-6 (5'-6')
6		4					
7	2"	50/4"	Top 1": SLOUGH. Bottom 1": Brown SILT and fine SAND.	ND	No Odor	Dry	
8		4					
9			End of boring at 8 feet below grade due to refusal on possible bedrock.				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater not encountered.

Soil sample CB-6 (5'-6') sent to the lab to be analyzed for VOCs (8260).

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **MW/CB-7**

AKRF Project Number : 10470

Sheet 1 of 1

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 45F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 13:30	Time: 16:00
Date: 2/22/05	Date: 2/22/05

Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			Top 10": CONCRETE. Bottom 2": Brown fine SAND and SILT (removed by hand).				
2	3"	4 6	Top 2": CONCRETE (Slough). Bottom 1": Brown fine SAND and SILT.	ND	No Odor	Dry	
3	2"	5 14 11 6	Medium dense brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
4		9 2 5 6	Loose brown SAND and SILT, trace fine Gravel (Schist).	ND	No Odor	Dry	
5	4"	7 8 8 7	Medium dense brown fine SAND and SILT, trace Rock Fragments (Schist).	ND	No Odor	Dry	MW/CB-7 (6'-8')
6		9 13 6 4	Medium dense micaceous SCHIST, some brown fine Sand, trace Silt.	ND	No Odor	Dry	
7	3.5"	10 50/1"	Very dense BRICK, some brown fine Sand, Silt, trace micaceous Schist (FILL).	ND	No Odor	Wet	
8			Augered to 15 feet below grade to set well.				
9							
10							
11							
12							
13							
14							
15							
16			End of boring at 15 feet below grade.				
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 10 feet below grade during drilling.

Soil sample MW/CB-7 (6'-8') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-7 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **MW/CB-8**

AKRF Project Number : 10470

Sheet 1 of 1

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 45F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 17:30	Time: 20:00
Date: 2/22/05	Date: 2/22/05

Depth (feet)	Recovery (Inches)	Blower/Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			CONCRETE (12").				
2	2"	7 10	CONCRETE and BRICK, trace fine brown Sand, Silt (FILL).	ND	No Odor	Dry	
3	0	17	No Recovery.	ND	No Odor	Dry	
4		19 20					
5	1"	14	Medium dense CONCRETE and GRAVEL, trace fine brown Sand, Silt (FILL).	ND	No Odor	Dry	
6		13 11 11					
7	0	50/1"	No Recovery.	ND	No Odor	Dry	
8							
9	3"	8	Medium dense brown fine SAND and SILT.	0.1	No Odor	Dry	
10		12 12 9					
11	14"	4	Loose brown fine SAND and SILT, trace fine Gravel.	0.1	No Odor	Dry	
12		5 5 9					
13	24"	12	Medium dense brown fine SAND and SILT, trace fine Gravel.	0.5	No Odor	Dry	MW/CB-8 (12'-14')
14		7 6 5					
15	0	50/1"	No Recovery. Rock in tip of split spoon sampler.	ND	No Odor	Dry	
16							
17	1"	4	Loose brown fine SAND and SILT.	ND	No Odor	Dry	
18		3 1 2					
19	24"	2	Loose brown SILT and fine SAND, trace fine Gravel.	ND	No Odor	Wet	
20		1 2 2					
21			Augered to 23 feet below grade to set well.				
22							
23							
24			End of boring at 23 feet below grade				
25							
26							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 18.4 feet below grade during drilling.

Soil sample MW/CB-8 (12'-14') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-8 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **MW/CB-9**

AKRF Project Number : 10470

Sheet 1 of 1

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 35F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 06:00	Time: 08:30
Date: 2/23/05	Date: 2/23/05

Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			CONCRETE (12").				
2	1"	5 6	CONCRETE (Slough).	ND	No Odor	Dry	
3	4"	5	Top 2": CONCRETE (Slough).	ND	No Odor	Dry	
4		4	Bottom 2": Brown fine SAND and SILT, trace fine Gravel.				
5	8"	4	Medium dense brown fine SAND and SILT, some Ash, Asphalt, Concrete, trace fine Gravel (FILL).	ND	No Odor	Dry	MW/CB-9 (4'-6')
6		7					
7		9					
8	3"	10	Medium dense FILL (Ash, Asphalt), some brown fine Sand and Silt, trace fine Gravel.	ND	No Odor	Dry	
9		7					
10	3"	7	Medium dense FILL (Ash, Asphalt), some brown fine Sand and Silt, trace fine Gravel.	ND	No Odor	Dry	
11		6					
12		8					
13	4"	24	Medium dense light brown SILT and fine SAND, trace Schist.	ND	No Odor	Dry	
14		7					
15	16"	7	Medium dense light brown fine SAND and SILT, trace fine Gravel.	0.5	No Odor	Dry	
16		8					
17		9					
18		7					
19	24"	11	Top 22": Light brown fine SAND and SILT, trace fine Gravel. Bottom 2": Light brown SILT, trace fine Sand.	ND	No Odor	Dry	MW/CB-9 (14'-16')
20		17					
21		27					
22		31					
23	1"	17	Medium dense brown fine SAND and SILT, some fine Gravel.	ND	No Odor	Dry	
24		13					
25	18"	9	Top 9": Light brown fine SAND and SILT, trace fine Gravel. Bottom 9": Brown fine SAND and SILT, trace fine Gravel.	ND	No Odor	Wet	
26		8					
27		8					
28			Augered to 23 feet below grade to set well.				
29			End of boring at 23 feet below grade.				

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 16.6 feet below grade during drilling.

Soil samples MW/CB-9 (4'-6') and MW/CB-9 (14'-16') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-9 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **CB-10**

AKRF Project Number : 10470

Sheet 1 of 1

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 32F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 09:30	Time: 12:30
Date: 2/23/05	Date: 2/23/05

Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			CONCRETE (12").				
2	4"	6 7	CONCRETE, ASPHALT, and ASH, some brown fine Sand, Silt (FILL).	ND	No Odor	Dry	
3	18"	9	Top 3": ASPHALT (Slough).	0.1	No Odor	Dry	CB-10 (2'-4')
4		8 10 11	Bottom 15": Brown fine SAND and SILT, trace fine Gravel.				
5	14"	4	Top 2": ASPHALT (Slough).	ND	No Odor	Dry	
6		3 4 3	Bottom 12": Brown fine SAND and SILT, trace fine Gravel.				
7	10"	4	Loose brown SILT and SAND, trace fine Gravel.	ND	No Odor	Dry	CB-10 (7'-8')
8		3 2 4					
9	4"	3	Top 2": ASPHALT (Slough).	ND	No Odor	Dry	
10		2 2 2	Bottom 2": Brown fine SAND and SILT, trace fine Gravel.				
11	2"	5	Medium dense brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
12		6 5 7					
13	2"	7	Medium dense brown SAND and SILT, trace fine Gravel.	ND	No Odor	Wet	
14		6 7 4					
15			End of boring at 14.7 feet below grade due to refusal on bedrock.				
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

**Notes:** PID - Photoionization detector ND - Not Detected

Groundwater not encountered.

Soil samples CB-10 (2'-4') and C-10 (7'-8') sent to the lab to be analyzed for VOCs (8260).

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **MW/CB-11**

AKRF Project Number : 10470

Sheet 1 of 1

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 20F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 09:30	Time: 13:00
Date: 2/24/05	Date: 2/24/05

Depth (feet)	Recovery (Inches)	Blower/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			CONCRETE (12").				
2			Top 6": Brown fine SAND and SILT (removed by hand auger). Bottom 6": CONCRETE SLAB.				
3	2"	10 9 9 4	Medium dense dark brown SAND and SILT, trace fine Gravel, Brick (FILL).	0.1	No Odor	Dry	MW/ CB-11 (2'-3')
4							
5	2"	8 6 50/2"	Top 1": Brown fine SAND and SILT, trace Brick (FILL). Bottom 1": BRICK (FILL).	ND	No Odor	Dry	
6							
7	0	50/1"	No Recovery. Brick noted in tip of split spoon sampler.				
8							
9	3"	18 12 10 10	Medium dense red/brown SAND, SILT, and fine GRAVEL.	ND	No Odor	Dry	
10							
11	17"	5 12 20 28	Dense brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
12							
13	7"	23 28 20 19	Dense red/brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
14							
15	18"	12 4 3 6	Loose dark brown SILT, some fine Sand, trace fine Gravel, Shell Fragements.	ND	No Odor	Dry	MW/ CB-11 (14.5'-16')
16							
17	19"	4 2 3 3	Top 13": Dark brown SILT, some Sand, trace fine Gravel, Shell Fragements. Bottom 6": Red/brown SAND and SILT, trace fine Gravel.	ND	No Odor	Wet	
18							
19							
20			Augered to 23 feet below grade to set well.				
21							
22							
23							
24			End of boring at 23 feet below grade.				
25							
26							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 17.7 feet below grade during drilling.

Soil sample MW/CB-11 (2'-3') sent to lab to be analyzed for VOCs (8260).

Soil sample MW/CB-9 (14'-16') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-9 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).



# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. MW/CB-12

AKRF Project Number : 10470

Sheet 1 of 1

Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2" Split Spoon  
Driller : SDS  
Weather: 20F, Clear  
Sampler: AKRF/Steve Grens

Drilling	
Start	Finish
Time: 14:15	Time: 16:45
Date: 2/24/05	Date: 2/24/05

Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
			CONCRETE (6").				
1	3"	6	CONCRETE and ASPHALT), some brown Sand, Silt, trace fine Gravel.				
2		5					
	3"	4	Top 2": CONCRETE and ASPHALT (FILL). Bottom 1": Brown SAND and SILT and fine GRAVEL.	ND	No Odor	Dry	
3		3					
	0.5"	7	Medium dense COAL and ASH, trace brown fine Sand, Silt (FILL).	ND	No Odor	Dry	
5		7					
	13"	4	Medium dense red/brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	MW/ CB-12 (6'-8')
7		8					
	12"	10	Top 2": Brown fine SAND and SILT. Bottom 10": Red/brown SILT and fine SAND.	ND	No Odor	Dry	
9		4					
	11"	4	Loose red/brown SILT and fine SAND, trace fine Gravel.	ND	No Odor	Dry	
11		2					
	10"	9	Top 2": Brown fine SAND and SILT. Middle 6": Red/brown SILT and fine SAND. Bottom 2": Dark brown SAND and SILT, trace fine Gravel, Shell Fragments.	ND	No Odor	Dry	
13		7					
	1"	9	Medium dense brown fine to medium SAND, some Silt.	ND	No Odor	Dry	
15		12					
	9"	10	Top 3": Red/brown fine SAND, some Silt, fine Gravel. Middle 3": Brown fine SAND, trace Silt. Bottom 3": Brown/gray SAND, some Silt, trace fine Gravel.	ND	No Odor	Dry	
17		8					
	8"	16	Top 2": Red/brown SILT, some fine Sand, fine Gravel. Bottom 6": Light brown medium SAND, trace Silt.	ND	No Odor	Dry	MW/ CB-11 (18.5'-20')
19		18					
	4"	4	Medium dense light brown SAND, trace Silt.	ND	No Odor	Wet	
21		7					
	3"	5	Medium dense brown SAND, some fine Gravel, trace Silt.	ND	No Odor	Dry	
23		7					
			Augered to 26 feet below grade to set well.				
25							
			End of boring at 26 feet below grade.				
27							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 21 feet below grade during drilling.

Soil samples MW/CB-12 (6'-8') and MW/CB-2 (18.5'-20') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-12 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

AKRF, Inc.			Manhattanville Rezoning Columbia University - West Harlem, NY		Boring No. MW/CB-13		
Environmental Consultants 440 Park Avenue South, New York, NY 10016			AKRF Project Number : 10470		Sheet 1 of 1		
					Drilling		
			Sampling Method: 2' Split Spoon		Start		Finish
			Driller : SDS		Time: 06:15		Time: 08:15
			Weather: 20F, Clear		Date: 2/25/05		Date: 2/25/05
			Sampler: AKRF/Steve Grens				
Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			CONCRETE (12").				
2	2"	7 4	CONCRETE (Slough) , trace brown Sand, Silt.				
3	10"	4	Loose red/brown fine SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	MW/ CB-13 (2'-4')
4		4 3 4					
5	12"	3	Medium dense light brown fine SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
6		7 10 14					
7	6"	13	Medium dense light brown fine SAND and SILT, trace fine Gravel, Wood (FILL).	ND	No Odor	Dry	MW/ CB-13 (6'-8')
8		14 6 6					
9	6"	4	Medium dense light brown fine SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
10		5 7 14					
11	13"	4	Loose light brown fine SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
12		3 2 2					
13			Augered to 15 feet below grade to set well.				
14							
15							
16			End of boring at 15 feet below grade.				
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 9.8 feet below grade during drilling.

Soil samples MW/CB-13 (2'-4') and MW/CB-13 (6'-8') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-13 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

AKRF, Inc.		Manhattanville Rezoning Columbia University - West Harlem, NY		Boring No. MW/CB-14			
Environmental Consultants 440 Park Avenue South, New York, NY 10016		Sampling Method: 2" Split Spoon Driller: SDS Weather: 20F, Clear Sampler: AKRF/Steve Grens		Sheet 1 of 1			
				Drilling			
				Start	Finish		
				Time: 09:15	Time: 11:30		
				Date: 2/25/05	Date: 2/25/05		
Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
			CONCRETE (6").				
1	7"	3	Top 5": ASPHALT and GRAVEL (FILL).				
2		3	Bottom 2": Dark brown fine SAND, SILT and fine GRAVEL.				
		4					
3	4"	1	Very loose brown fine SAND and SILT, trace CONCRETE (FILL).	ND	No Odor	Dry	MW/ CB-14 (2'-4')
4		1					
		1					
5	10"	1	Top 3": COAL and ASH (FILL).	ND	No Odor	Dry	
6		2	Bottom 7": Light brown SILT and fine SAND.				
		3					
7	12"	8	Medium dense light brown SILT and fine SAND, trace fine Gravel.	ND	No Odor	Dry	MW/ CB-14 (6'-8')
8		7					
		8					
		9					
9	14"	9	Top 11": Light brown SAND, trace fine Gravel.	5.0	Petroleum-like odor noted on bottom 3"	Dry	
10		12	Bottom 3": Black/gray SAND and SILT, trace fine Gravel.				
		17					
		21		59.1		Moist	
11			Augered to 17 feet below grade to set well.				
12							
13							
14							
15							
16							
17							
18			End of boring at 17 feet below grade.				
19							
20							
21							
22							
23							
24							
25							
26							
27							

Notes: PID - Photoionization detector ND - Not Detected  
 Groundwater encountered at 11.6 feet below grade during drilling.

Soil sample MW/CB-14 (2'-4') sent to lab to be analyzed for VOCs (8260).

Soil sample MW/CB-14 (6'-8') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-14 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **CB-15**

AKRF Project Number : 10470

Sheet 1 of 1

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 30F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 06:10	Time: 08:35
Date: 2/28/05	Date: 2/28/05

Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			CONCRETE (12").				
2	0.5"	50/4"	CONCRETE and BRICK, trace gray/brown fine Sand, Silt (FILL).	ND	No Odor	Dry	
3	10"	10	Medium dense dark brown SAND and SILT, some fine Gravel, trace Brick (FILL).	0.1	No Odor	Dry	CB-15 (2'-4')
4		6					
5	2"	7	Medium dense brown SAND, some Silt, fine Gravel.	ND	No Odor	Dry	
6		6					
7	4"	34	Medium dense dark brown SAND and GRAVEL, some Silt.	ND	No Odor	Dry	
8		15					
9	1"	10	Medium dense dark brown SAND, SILT and trace fine GRAVEL.	ND	No Odor	Dry	
10		9					
11	11"	4	Loose light brown fine SAND and SILT.	ND	No Odor	Dry	
12		3					
13	21"	4	Medium dense light brown fine SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
14		5					
15	11"	11	Dense light brown fine SAND and SILT, some fine Gravel.	ND	No Odor	Dry	CB-15 (14'-16')
16		16					
17	0.5"	16	Dense black/gray fine SAND, SILT, and fine GRAVEL.	ND	No Odor	Dry	
18		22					
	0	50/2"	No Recovery.				
19			End of boring at 18.2 feet below grade due to refusal on possible bedrock.				
20							
21							
22							
23							
24							
25							
26							
27							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater not encountered.

Soil samples MW/CB-15 (2'-4') and MW/CB-15 (14'-16') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **MW/CB-16**

AKRF Project Number : 10470

Sheet 1 of 1

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2" Split Spoon  
Driller : SDS  
Weather: 30F, Overcast  
Sampler: AKRF/Steve Grens

Drilling  
Start Time: 09:10  
Finish Time: 12:30  
Date: 2/28/05

Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			CONCRETE (12').				
2	1"	12 14	BRICK and CONCRETE, some brown Sand, Silt, trace fine Gravel.				
3	0	11 10 50/1"	No Recovery. Concrete slab noted at 3.8 feet below grade. Augered to 4 feet below grade.	ND	No Odor	Dry	
4							
5	10"	1 3 7 50/4"	Top 2": Dark brown SAND, SILT, and fine GRAVEL. Bottom 8": CONCRETE and GRAVEL (FILL).	ND	No Odor	Dry	MW/ CB-16 (4'-6')
6							
7			Augered through fill from 6 to 8 feet below grade. Continued split spoon sampling at 8 feet below grade.				
8							
9	15"	17 9 9 10	Top 5": CONCRETE (Slough). Bottom 10": Light brown SILT and fine SAND.	ND	No Odor	Dry	
10							
11	14"	11 10 10 9	Top 1": CONCRETE (Slough). Bottom 13": Light brown SILT and fine SAND.	ND	No Odor	Dry	MW/ CB-16 (10'-12')
12							
13	3"	11 13 13 15	Top 2": CONCRETE (Slough). Bottom 1": Light brown SILT and fine SAND.	ND	No Odor	Dry	
14							
15	20"	2 2 3 4	Loose light brown SILT and fine SAND.	ND	No Odor	Wet	
16							
17	11"	5 6 5 8	Medium dense loose light brown SILT and fine SAND.	ND	No Odor	Wet	
18							
19							
20			Augered to 22 feet below grade to set well.				
21							
22							
23			End of boring at 22 feet below grade.				
24							
25							
26							
27							

Notes: PID - Photoionization detector ND - Not Detected  
Groundwater encountered at 15 feet below grade during drilling.

Soil sample MW/CB-16 (4'-6') sent to lab to be analyzed for VOCs (8260).

Soil sample MW/CB-16 (10'-12') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-16 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

<h1 style="text-align: center;">AKRF, Inc.</h1>			<b>Manhattanville Rezoning</b> <b>Columbia University - West Harlem, NY</b>			<b>Boring No. MW CB-17</b>		
			<b>AKRF Project Number : 10470</b>			Sheet 1 of 1		
<b>Environmental Consultants</b>  440 Park Avenue South, New York, NY 10016			<b>Sampling Method:</b> 2' Split Spoon <b>Driller :</b> SDS <b>Weather:</b> 30F, Overcast <b>Sampler:</b> AKRF/Steve Grens			<b>Drilling</b>		
						<b>Start</b>		<b>Finish</b>
			<b>Time: 14:00</b>		<b>Time: 14:50</b>			
			<b>Date: 2/28/05</b>		<b>Date: 2/28/05</b>			
Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis	
1			CONCRETE (12").					
2	10"	6 9	Top 2": CONCRETE (Slough). Bottom 8": Brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	MW/CB-17 (1'-2')	
3	11"	7 9	Top 6": Brown SAND and SILT, trace fine Gravel. Bottom 5": Red/brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	MW/CB-17 (2'-4')	
4		6 5						
5	10"	6 4	Loose brown SAND, SILT and fine GRAVEL, trace Wood (FILL).	ND	No Odor	Dry		
6		3 2						
7		1 2						
8	1"	2 2 3	Loose CONCRETE (Slough).	ND	No Odor	Wet		
9		3 5						
10		23 14						
11			Augered to 13 feet below grade to set well.					
12								
13								
14			End of boring at 13 feet below grade.					
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
<b>Notes:</b> PID - Photoionization detector ND - Not Detected Groundwater encountered at 5.5 feet below grade during drilling.  Soil sample MW/CB-17 (1'-2') sent to the lab to be analyzed for VOCs (8260).  Soil sample MW/CB-17 (2'-4') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.  MW/CB-17 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).								

AKRF, Inc.			Manhattanville Rezoning Columbia University - West Harlem, NY		Boring No. MW CB-18		
Environmental Consultants 440 Park Avenue South, New York, NY 10016			AKRF Project Number : 10470		Sheet 1 of 1		
			Sampling Method: 2' Split Spoon Driller : SDS Weather: 30F, Overcast Sampler: AKRF/Steve Grens		Drilling Start Finish Time: 10:25 Time: 12:30 Date: 3/2/05 Date: 3/2/05		
Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			CONCRETE (12").				
2	1"	7 14	ASPHALT and CONCRETE, trace dark brown Sand, Silt (FILL).	ND	No Odor	Dry	
3	12"	7	Top 10": Dark brown fine SAND and SILT, trace fine Gavel. Bottom 2": Brown SILT and fine SAND, trace fine Gravel.	ND	No Odor	Dry	
4		4 14 10					
5	15"	6	Medium dense brown fine SAND and SILT.	ND	No Odor	Dry	MW/ CB-18 (4'-6')
6		7 4 3					
7	4"	5	Dense brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
8		19 27 15					
9	16"	12	Medium dense red/brown SAND and SILT, trace fine Gravel.	ND	No Odor	Wet	
10		8 7 5					
11			Augered to 15 feet below grade to set well.				
12							
13							
14							
15							
16			End of boring at 15 feet below grade.				
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 10 feet below grade during drilling.

Soil sample MW/CB-18 (4'-6') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-18 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

<b>AKRF, Inc.</b>			Manhattanville Rezoning Columbia University - West Harlem, NY  AKRF Project Number : 10470			Boring No. <b>MW CB-19</b>		
						Sheet 1 of 1		
Environmental Consultants  440 Park Avenue South, New York, NY 10016			Sampling Method: 2' Split Spoon Driller : SDS Weather: 30F, Overcast Sampler: AKRF/Steve Grens			Drilling		
						Start		Finish
			Time: 13:20			Time: 15:15		
			Date: 3/2/05			Date: 3/2/05		
Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis	
1			CONCRETE (12").					
2	3"	4 7	Medium dense light brown SAND and SILT, trace fine Gravel, Concrete (Slough)	ND	No Odor	Dry	MW/CB-19 (1'-2')	
3	4"	4	Top 2": Brown SAND and SILT, trace fine Gravel. Bottom 2": BRICK and TILE (FILL).	ND	No Odor	Dry		
4		4 3						
5	13"	4	Loose brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry		
6		2 3 5						
7	8"	1	Top 6": Brown SAND and SILT, trace fine Gravel. Bottom 2": Red/brown SILT and fine SAND.	ND	No Odor	Dry		
8		1 2 3						
9	21"	12	Top 8": Brown SILT and SAND, trace fine Gravel. Middle 12": Red/brown SILT and SAND, trace fine Gravel, Brick (FILL). Bottom 11": Dark brown SILT and fine SAND.	0.8	Slight petroleum-like odor noted	Dry	MW/ CB-19 (8'-10')	
10		11 11						
11	20"	2	Top 6": Brown SILT and fine SAND. Middle 12": Red/brown SILT and fine SAND. Bottom 2": Gray SILT and fine SAND.	ND	Slight petroleum-like odor noted	Wet		
12		2 2 3						
13			Augered to 16 feet below grade to set well.					
14								
15								
16								
17			End of boring at 16 feet below grade.					
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
<b>Notes:</b> PID - Photoionization detector ND - Not Detected Groundwater encountered at 11 feet below grade during drilling.  Soil sample MW/CB-19 (1'-2') sent to the lab to be analyzed for VOCs (8260).  Soil sample MW/CB-19 (8'-10') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.  MW/CB-19 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).								



AKRF, Inc.			Manhattanville Rezoning Columbia University - West Harlem, NY		Boring No. MW/CB-20		
Environmental Consultants 440 Park Avenue South, New York, NY 10016			AKRF Project Number : 10470		Sheet 1 of 1		
					Drilling		
			Sampling Method:	2" Split Spoon	Start	Finish	
			Driller :	SDS	Time: 08:00	Time: 11:30	
			Weather:	25F, Clear	Date: 3/3/05	Date: 3/3/05	
			Sampler:	AKRF/Steve Grens			
Depth (feet)	Recovery (Inches)	Blows Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			CONCRETE (12").				
2	2"	5 6	Dark brown fine SAND and SILT, trace Asphalt, Concrete (FILL).	ND	No Odor	Dry	MW/CB-19 (1'-2')
3	0	5 6	No Recovery.	ND	No Odor	Dry	
4		5 7	Rock noted in tip of split spoon sampler.				
5	14"	7	Top 6": Dark brown SAND and fine GRAVEL, some Silt.	ND	No Odor	Dry	
6		6 5 8	Bottom 8": Red/brown SAND and SILT, trace fine Gravel.				
7		8	Very dense red/brown SILT, SAND, and fine GRAVEL.				
8	1"	50/2"	Rock fragment noted in tip of split spoon sampler.	ND	No Odor	Dry	
9	19"	6	Medium dense brown fine SAND and SILT.	ND	No Odor	Dry	
10		7 11 12					
11	21"	5	Dense red/brown SAND and SILT, some fine Gravel.	ND	No Odor	Dry	
12		10 18 11					
13	17"	5	Top 10": Brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
14		5 5 8	Bottom 7": Dark brown SAND and SILT, some fine Gravel.				
15	9"	8	Top 3": Red/brown SAND and SILT, trace fine Gravel.	ND	No Odor	Dry	
16		10 13 11	Bottom 6": Brown SILT and fine SAND.				
17	18"	8	Top 12": Dark brown SILT and fine SAND.	ND	No Odor	Dry	
18		10 15 11	Bottom 6": Red/brown fine SAND and SILT, trace Brick (FILL).				
19	18"	2	Loose brown SAND and fine GRAVEL, some Silt.	ND	No Odor	Dry	MW/CB-20 (18'-20')
20		3 3 3					
21	10"	2	Top 2": Brown SAND, some fine Gravel, trace Silt.	ND	Slight petroleum-like odor	Wet	
22		3 5 8	Bottom 8": Brown/ light gray SAND, trace Silt.				
23	8"	3	Medium dense brown SAND, some fine Gravel, trace Silt.	ND	Slight petroleum-like odor	Wet	
24		5 6 9					
25			Augered to 27 feet below grade to set well.				
26							
27							
28			End of boring at 27 feet below grade.				
<b>Notes:</b> PID - Photoionization detector ND - Not Detected Groundwater encountered at 21.5 feet below grade during drilling.  Soil sample MW/CB-20 (1'-2') sent to the lab to be analyzed for VOCs (8260).  Soil sample MW/CB-20 (18'-20') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.  MW/CB-20 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).							

AKRF, Inc.			Manhattanville Rezoning Columbia University - West Harlem, NY		Boring No. MW/CB-21		
Environmental Consultants 440 Park Avenue South, New York, NY 10016			AKRF Project Number : 10470		Sheet 1 of 1		
			Sampling Method: 2' Split Spoon		Drilling		
Driller : SDS		Weather: 25F, Clear		Start		Finish	
Sampler: AKRF/Steve Grens				Time: 12:15		Time: 15:00	
				Date: 3/3/05		Date: 3/3/05	
Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Asphalt	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			Top 6": ASPHALT PAVEMENT. Bottom 6": CONCRETE.				
2	1"	2 10	BRICK and ASPHALT, trace brown fine Sand, Silt (FILL).	ND	No Odor	Dry	
3	2"	5	Loose BRICK and ASPHALT, trace brown fine Sand, Silt, fine Gravel (FILL).	ND	No Odor	Dry	
4		5 3					
5	6"	6	Top 4": BRICK, ASPHALT, and CONCRETE (Slough). Bottom 2": Dark brown fine SAND, SILT and fine GRAVEL (FILL).	ND	No Odor	Dry	
6		4 9 21					
7	3"	11	Medium dense BRICK, trace dark brown fine Sand, Silt, and fine Gravel (FILL).	ND	No Odor	Dry	
8		3 21 16					
9			Void encountered 10 to 12 feet below grade due to fill (brick). Augered to 10 feet below grade.				
10							
11	0	50/1"	No Recovery. Brick noted in tip of split spoon sampler. Augered through fill (Brick) to 14 feet below grade.				
12							
13							
14							
15	10"	7	Very loose brown fine SAND and SILT.	ND	No Odor	Dry	
16		2 2 2					
17	18"	4	Medium dense brown fine SAND and SILT.	ND	No Odor	Dry	MW/CB-21 (16'-18')
18		5 11 15					
19	21"	5	Very loose brown fine SAND and SILT.	ND	No Odor	Dry	
20		3 1 1					
21							
22			Augered to 25 feet below grade to set well.				
23							
24							
25							
26			End of boring at 25 feet below grade.				
27							

Notes: PID - Photoionization detector ND - Not Detected

Groundwater encountered at 19.2 feet below grade during drilling.

Soil sample MW/CB-21 (16'-18') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.

MW/CB-21 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

# AKRF, Inc.

Manhattanville Rezoning  
Columbia University - West Harlem, NY

Boring No. **MW/CB-22**

AKRF Project Number : 10470

Sheet 1 of 1

## Environmental Consultants

440 Park Avenue South, New York, NY 10016

Sampling Method: 2' Split Spoon  
Driller : SDS  
Weather: 28F, Clear  
Sampler: AKRF/Steve Grens

### Drilling

Start	Finish
Time: 09:00	Time: 11:00
Date: 3/4/05	Date: 3/4/05

Depth (feet)	Recovery (Inches)	Blows/ Ft.	Surface Condition: Concrete	PID Reading (ppm)	Odor	Moisture	Samples Collected for Lab Analysis
1			CONCRETE (12").				
2	2"	7 50/1"	CONCRETE and ASPHALT, trace dark brown fine SAND, SILT (FILL).	ND	No Odor	Dry	
3	0	5 6	No Recovery. Rock noted in tip of split spoon sampler.				
4		5 8					
5	0.5"	2 1	Very loose brown fine SAND and SILT.	ND	No Odor	Dry	
6		1					
7	0	50/1"	No Recovery.				
8							
9	3"	2 4	Top 2": COAL and ASH (FILL). Bottom 1": Brown fine SAND and SILT (FILL).	ND	No Odor	Dry	
10		8 10					
11	18"	6 7	Medium dense brown SAND and SILT, trace fine Gravel, Brick, Coal, Ash (FILL).	ND	No Odor	Dry	
12		7 5					
13	14"	4 5	Loose brown fine SAND and SILT.	ND	No Odor	Dry	MW/CB-22 (12' 14')
14		4 5					
15	20"	1 1	Very loose brown fine SAND and SILT.	ND	No Odor	Wet	
16		1					
17			Augered to 19 feet below grade to set well.				
18							
19							
20			End of boring at 19 feet below grade.				
21							
22							
23							
24							
25							
26							
27							

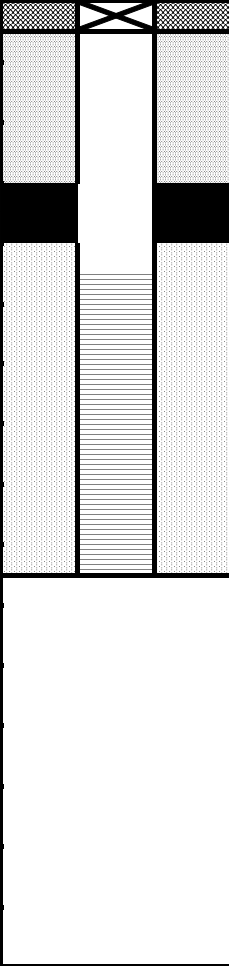
Notes: PID - Photoionization detector ND - Not Detected


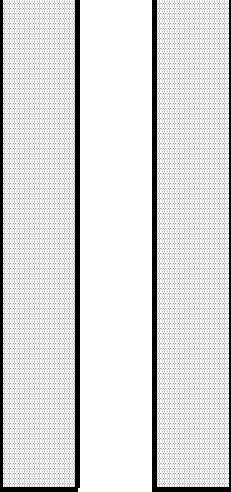

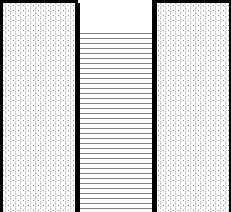
Groundwater encountered at 14 feet below grade during drilling.


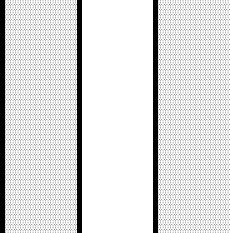


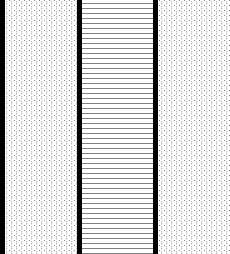

Soil sample MW/CB-22 (12'-14') sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals.





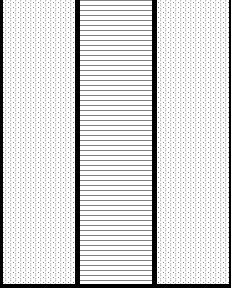
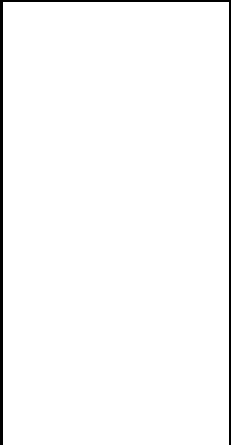
MW/CB-22 groundwater sample sent to the lab to be analyzed for VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081) and TAL Metals (total and dissolved).

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-1</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	Drilling		
		Sampling Method:	See boring MW/CB-1	Start	Finish	
		Driller :	SDS	Time: 10:15	Time: 12:10	
		Weather:	45F Overcast	Date: 2/15/05	Date: 2/15/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Concrete				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Well riser from 0.5' to 10'				
6		Natural backfill 0.5' to 7'				
8		Bentonite seal 7' to 9'				
10		Sand pack filter 9' to 20'				
12						
14						
16						
18		20-Slot well screen 10' to 20'				
20						
22						
24						
26						
28						
30						
32						
Notes:	Stabilized groundwater level measurement of 14.0 feet below grade taken prior to sampling on 3/14/05.					

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-2</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	<b>Drilling</b>		
		Sampling Method:	See boring MW/CB-2	Start	Finish	
		Driller :	SDS	Time: 13:45	Time: 15:30	
		Weather:	45F Overcast	Date: 2/15/05	Date: 2/15/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Concrete				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade Well riser from 0.5' to 9' Natural backfill 0.5' to 6' Bentonite seal 6' to 8' Sand pack filter 8' to 19' 20-Slot well screen 9' to 19'				
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
Notes:	Stabilized groundwater level measurement of 12.7 feet below grade taken prior to sampling on 3/14/05.					





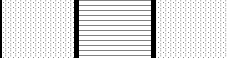

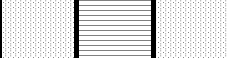









<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-3</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	Drilling		
		Sampling Method:	See boring MW/CB-3	Start	Finish	
		Driller :	SDS	Time: 07:35	Time: 12:00	
		Weather:	49F Overcast	Date: 2/16/05	Date: 2/16/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Asphalt				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Well riser from 0.5' to 21'				
6						
8						
10						
12		Natural backfill 0.5' to 18'				
14						
16						
18						
20		Bentonite seal 18' to 20'				
22		Sand pack filter 20' to 31'				
24						
26						
28		20-Slot well screen 21' to 31'				
30						
32						
Notes:	Stabilized groundwater level measurement of 25.9 feet below grade taken prior to sampling on 3/14/05.					

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-4</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	<b>Drilling</b>		
		Sampling Method:	See boring MW/CB-4	Start	Finish	
		Driller :	SDS	Time: 12:45	Time: 15:35	
		Weather:	49F Overcast	Date: 2/16/05	Date: 2/16/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Asphalt				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Well riser from 0.5' to 12'				
6		Natural backfill 0.5' to 9'				
8		Bentonite seal 9' to 11'				
10		Sand pack filter 11' to 22'				
12		20-Slot well screen 12' to 22'				
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
Notes:	Stabilized groundwater level measurement of 15.2 feet below grade taken prior to sampling on 3/14/05.					

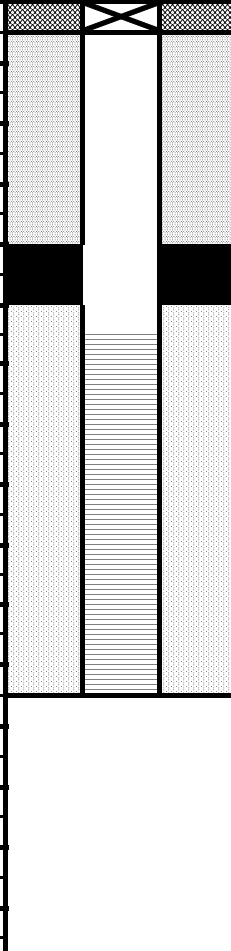
<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-5</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	Drilling		
		Sampling Method:	See boring MW/CB-5	Start	Finish	
		Driller :	SDS	Time: 07:35	Time: 10:10	
		Weather:	45F Overcast	Date: 2/17/05	Date: 2/17/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Concrete				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Well riser from 0.5' to 7'				
6		Natural backfill 0.5' to 4'				
8		Bentonite seal 4' to 6'				
10		Sand pack filter 6' to 17'				
12						
14						
16						
18		20-Slot well screen 7' to 17'				
20						
22						
24						
26						
28						
30						
32						
Notes:	Stabilized groundwater level measurement of 11.3 feet below grade taken prior to sampling on 3/14/05.					




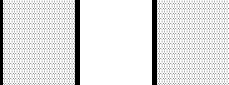
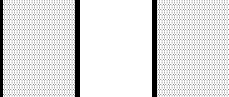

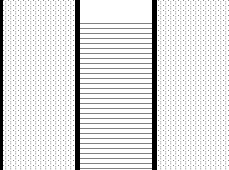
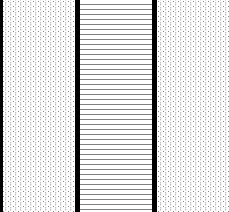



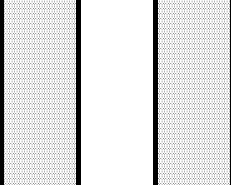
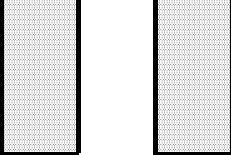
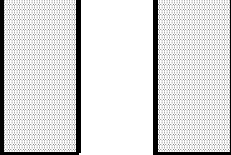
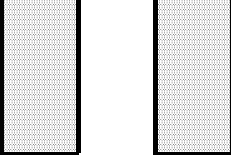
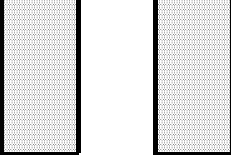


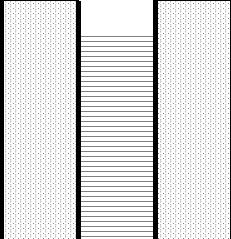
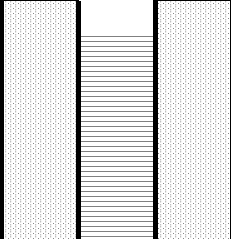
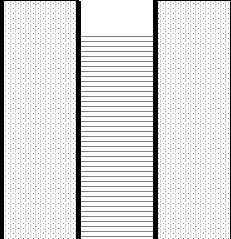
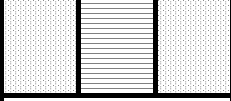
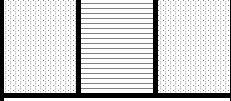
<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-7</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	<b>Drilling</b>		
		Sampling Method:	See boring MW/CB-7	Start	Finish	
		Driller :	SDS	Time: 13:30	Time: 16:00	
		Weather:	45F Overcast	Date: 2/22/05	Date: 2/22/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Concrete				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Natural backfill 0.5' to 2'				
6		Bentonite seal 2' to 4'				
8		Well riser from 0.5' to 5'				
10		Sand pack filter 4' to 15'				
12		20-Slot well screen 5' to 15'				
14						
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Notes:	Stabilized groundwater level measurement of 11.9 feet below grade taken prior to sampling on 3/16/05.					




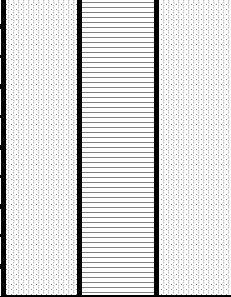




<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-8</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	Drilling		
		Sampling Method:	See boring MW/CB-8	Start	Finish	
		Driller :	SDS	Time: 17:30	Time:20:00	
		Weather:	45F Overcast	Date: 2/22/05	Date: 2/22/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Concrete				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade Well riser from 0.5' to 13'  Natural backfill 0.5' to 10'  Bentonite seal 10' to 12'  Sand pack filter 12' to 23'  20-Slot well screen 13' to 23'				
4						
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32						
Notes:	Stabilized groundwater level measurement of 16.1 feet below grade taken prior to sampling on 3/16/05.					

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY		Well No. <b>MW/CB-9</b>	
		AKRF Project Number : 10470		Sheet 1 of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		<b>Drilling Method:</b> Truck-mounted, HSA		<b>Drilling</b>	
		<b>Sampling Method:</b> See boring MW/CB-9		<b>Start</b>   <b>Finish</b>	
		<b>Driller :</b> SDS		<b>Time:</b> 06:00   <b>Time:</b> 08:30	
		<b>Weather:</b> 35F Clear		<b>Date:</b> 2/23/05   <b>Date:</b> 2/23/05	
		<b>Field Supervisor:</b> AKRF/Steve Grens			
<b>Depth (feet)</b>	<b>Well Construction</b>	<b>Surface Condition: Concrete</b>			
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade			
4		Well riser from 0.5' to 13'			
6		Natural backfill 0.5' to 10'			
8					
10		Bentonite seal 10' to 12'			
12		Sand pack filter 12' to 23'			
14					
16					
18		20-Slot well screen 13' to 23'			
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24					
26					
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32					
<b>Notes:</b>	Stabilized groundwater level measurement of 15.6 feet below grade taken prior to sampling on 3/16/05.				


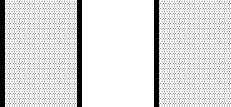
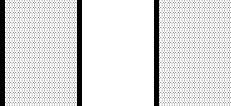
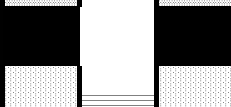
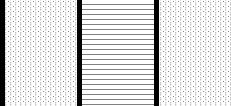
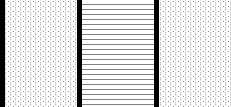
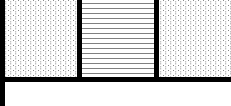


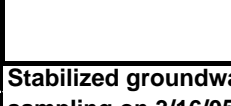
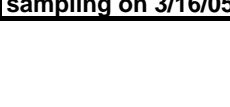



<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-11</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	<b>Drilling</b>		
		Sampling Method:	See boring MW/CB-11	Start	Finish	
		Driller :	SDS	Time: 09:30	Time: 13:00	
		Weather:	20F Clear	Date: 2/24/05	Date: 2/24/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Concrete				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Well riser from 0.5' to 13'				
6		Natural backfill 0.5' to 10'				
8		Bentonite seal 10' to 12'				
10		Sand pack filter 12' to 23'				
12		20-Slot well screen 13' to 23'				
14						
16						
18						
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22						
24						
26						
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32						
Notes:	Stabilized groundwater level measurement of 16.9 feet below grade taken prior to sampling on 3/14/05.					

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-12</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	Drilling		
		Sampling Method:	See boring MW/CB-12	Start	Finish	
		Driller :	SDS	Time: 14:15	Time: 16:45	
		Weather:	20F Clear	Date: 2/24/05	Date: 2/24/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Concrete				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Well riser from 0.5' to 16'				
6		Natural backfill 0.5' to 13'				
8						
10						
12						
14		Bentonite seal 13' to 15'				
16						
18		Sand pack filter 15' to 26'				
20						
22						
24		20-Slot well screen 16' to 26'				
26						
28						
30						
32						
Notes:	Stabilized groundwater level measurement of 20.9 feet below grade taken prior to sampling on 3/16/05.					





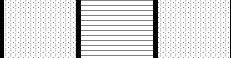

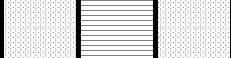









<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY		Well No. <b>MW/CB-13</b>	
		AKRF Project Number : 10470		Sheet 1 of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		<b>Drilling Method:</b> Truck-mounted, HSA		<b>Drilling</b>	
		<b>Sampling Method:</b> See boring MW/CB-13		<b>Start</b>	
		<b>Driller :</b> SDS		<b>Time:</b> 06:15	
		<b>Weather:</b> 20F Clear		<b>Date:</b> 2/25/05	
		<b>Field Supervisor:</b> AKRF/Steve Grens		<b>Time:</b> 08:15	
		<b>Date:</b> 2/25/05			
<b>Depth (feet)</b>	<b>Well Construction</b>	<b>Surface Condition: Concrete</b>			
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade			
4		Natural backfill 0.5' to 2'			
6		Bentonite seal 2' to 4'			
8		Well riser from 0.5' to 5'			
10		Sand pack filter 4' to 15'			
12		20-Slot well screen 5' to 15'			
14					
16					
18					
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<b>Notes:</b>	Stabilized groundwater level measurement of 7.8 feet below grade taken prior to sampling on 3/16/05.				





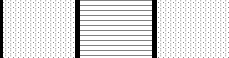

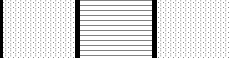












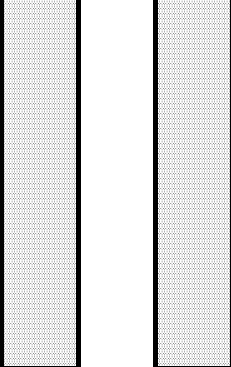
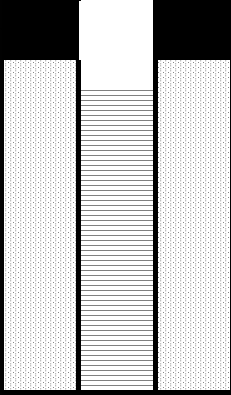
<b>AKRF, Inc.</b>	Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-14</b>	
			Sheet <b>1</b> of <b>1</b>	
Environmental Consultants  440 Park Avenue South New York, NY 10016	<b>Drilling Method:</b>		Truck-mounted, HSA	
	<b>Sampling Method:</b>		See boring MW/CB-14	
	<b>Driller :</b>		SDS	
	<b>Weather:</b>		20F Clear	
	<b>Field Supervisor:</b>		AKRF/Steve Grens	
		<b>Drilling</b>		
		<b>Start</b>		<b>Finish</b>
		<b>Time: 09:15</b>		<b>Time: 11:30</b>
		<b>Date: 2/25/05</b>		<b>Date: 2/25/05</b>
<b>Depth (feet)</b>	<b>Well Construction</b>	<b>Surface Condition: Concrete</b>		
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade		
4		Well riser from 0.5' to 7'		
6		Natural backfill 0.5' to 4'		
8		Bentonite seal 4' to 6'		
10				
12		Sand pack filter 6' to 17'		
14				
16				
18		20-Slot well screen 7' to 17'		
20				
22				
24				
26				
28				
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32				
<b>Notes:</b>	Stabilized groundwater level measurement of 8.2 feet below grade taken prior to sampling on 3/16/05.			

















<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-16</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	Drilling		
		Sampling Method:	See boring MW/CB-16	Start	Finish	
		Driller :	SDS	Time: 09:10	Time: 12:30	
		Weather:	30F Overcast	Date: 2/28/05	Date: 2/28/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Concrete				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Well riser from 0.5' to 12'				
6		Natural backfill 0.5' to 9'				
8						
10		Bentonite seal 9' to 11'				
12		Sand pack filter 11' to 22'				
14						
16						
18		20-Slot well screen 12' to 22'				
20						
22						
24						
26						
28						
30						
32						
Notes:	Stabilized groundwater level measurement of 18.1 feet below grade taken prior to sampling on 3/16/05.					

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-17</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		<b>Drilling Method:</b>	Truck-mounted, HSA	<b>Drilling</b>		
		<b>Sampling Method:</b>	See boring MW/CB-17	<b>Start</b>	<b>Finish</b>	
		<b>Driller :</b>	SDS	<b>Time: 14:00</b>	<b>Time: 14:50</b>	
		<b>Weather:</b>	30F Clear	<b>Date: 2/28/05</b>	<b>Date: 2/28/05</b>	
		<b>Field Supervisor:</b>	AKRF/Steve Grens			
<b>Depth (feet)</b>	<b>Well Construction</b>	<b>Surface Condition: Concrete</b>				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Well riser from 0.5' to 3'				
6		Natural backfill 0.5' to 1'				
8		Bentonite seal 1' to 2'				
10		Sand pack filter 2' to 13'				
12		20-Slot well screen 3' to 13'				
14						
16						
18						
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22						
24						
26						
28						
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32						
<b>Notes:</b>	Stabilized groundwater level measurement of 6.4 feet below grade taken prior to sampling on 3/14/05.					

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-18</b>	
				Sheet 1	of 1
Environmental Consultants  440 Park Avenue South New York, NY 10016		<b>Drilling Method:</b>		Truck-mounted, HSA	
		<b>Sampling Method:</b>		See boring MW/CB-18	
		<b>Driller :</b>		SDS	
		<b>Weather:</b>		30F Overcast	
		<b>Field Supervisor:</b>		AKRF/Steve Grens	
		<b>Drilling</b>		<b>Start</b>	<b>Finish</b>
				<b>Time:10:25</b>	<b>Time:12:30</b>
				<b>Date: 3/2/05</b>	<b>Date: 3/2/05</b>
<b>Depth (feet)</b>	<b>Well Construction</b>	<b>Surface Condition: Concrete</b>			
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade			
4		Natural backfill 0.5' to 2' Bentonite seal 2' to 4'			
6		Well riser from 0.5' to 5'			
8		Sand pack filter 4' to 15'			
10		20-Slot well screen 5' to 15'			
12		20-Slot well screen 5' to 15'			
14		20-Slot well screen 5' to 15'			
16		20-Slot well screen 5' to 15'			
18		20-Slot well screen 5' to 15'			
20		20-Slot well screen 5' to 15'			
22		20-Slot well screen 5' to 15'			
24		20-Slot well screen 5' to 15'			
26		20-Slot well screen 5' to 15'			
28		20-Slot well screen 5' to 15'			
30		20-Slot well screen 5' to 15'			
32		20-Slot well screen 5' to 15'			
<b>Notes:</b>	Stabilized groundwater level measurement of 8.8 feet below grade taken prior to sampling sampling on 3/14/05.				

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-19</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		Drilling Method:	Truck-mounted, HSA	Drilling		
		Sampling Method:	See boring MW/CB-19	Start	Finish	
		Driller :	SDS	Time:13:20	Time:15:15	
		Weather:	30F Overcast	Date: 3/2/05	Date: 3/2/05	
		Field Supervisor:	AKRF/Steve Grens			
Depth (feet)	Well Construction	Surface Condition: Concrete				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Well riser from 0.5 to 6'				
6		Natural backfill 0.5' to 3'				
8		Bentonite seal 3' to 5'				
10		Sand pack filter 5' to 16'				
12		20-Slot well screen 6' to 16'				
14		20-Slot well screen 6' to 16'				
16		20-Slot well screen 6' to 16'				
18		20-Slot well screen 6' to 16'				
20		20-Slot well screen 6' to 16'				
22		20-Slot well screen 6' to 16'				
24		20-Slot well screen 6' to 16'				
26		20-Slot well screen 6' to 16'				
28		20-Slot well screen 6' to 16'				
30		20-Slot well screen 6' to 16'				
32		20-Slot well screen 6' to 16'				
Notes:	Stabilized groundwater level measurement of 10.6 feet below grade taken prior to sampling on					

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-20</b>	
				Sheet 1	of 1
Environmental Consultants  440 Park Avenue South New York, NY 10016		<b>Drilling Method:</b>		Truck-mounted, HSA	
		<b>Sampling Method:</b>		See boring MW/CB-20	
		<b>Driller :</b>		SDS	
		<b>Weather:</b>		25F Overcast	
		<b>Field Supervisor:</b>		AKRF/Steve Grens	
		<b>Drilling</b>		<b>Start</b>	<b>Finish</b>
				<b>Time: 08:00</b>	<b>Time:11:30</b>
				<b>Date: 3/3/05</b>	<b>Date: 3/3/05</b>
<b>Depth (feet)</b>	<b>Well Construction</b>	<b>Surface Condition: Concrete</b>			
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade			
4		Well riser from 0.5' to 17'			
6		Natural backfill 0.5' to 14'			
8					
10					
12		Bentonite seal 14' to 16'			
14					
16		Sand pack filter 16' to 27'			
18		20-Slot well screen 17' to 27'			
20					
22					
24					
26					
28					
30					
32					
<b>Notes:</b>	Stabilized groundwater level measurement of 21.4 feet below grade taken prior to sampling on 3/16/05.				

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-21</b>	
				Sheet 1	of 1
Environmental Consultants  440 Park Avenue South New York, NY 10016		<b>Drilling Method:</b>		Truck-mounted, HSA	
		<b>Sampling Method:</b>		See boring MW/CB-21	
		<b>Driller :</b>		SDS	
		<b>Weather:</b>		25F Clear	
		<b>Field Supervisor:</b>		AKRF/Steve Grens	
		<b>Drilling</b>		<b>Start</b>	<b>Finish</b>
				<b>Time: 12:15</b>	<b>Time: 15:00</b>
				<b>Date: 3/3/05</b>	<b>Date: 3/3/05</b>
<b>Depth (feet)</b>	<b>Well Construction</b>	<b>Surface Condition: Asphalt</b>			
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade			
4		Well riser from 0.5 to 15'			
6		Natural backfill 0.5' to 12'			
8		Natural backfill 0.5' to 12'			
10		Natural backfill 0.5' to 12'			
12		Natural backfill 0.5' to 12'			
14		Bentonite seal 12' to 14'			
16		Sand pack filter 14' to 25'			
18		Sand pack filter 14' to 25'			
20		Sand pack filter 14' to 25'			
22		Sand pack filter 14' to 25'			
24		20-Slot well screen 15' to 25'			
26		20-Slot well screen 15' to 25'			
28		20-Slot well screen 15' to 25'			
30		20-Slot well screen 15' to 25'			
32		20-Slot well screen 15' to 25'			
<b>Notes:</b>		Stabilized groundwater level measurement of 19.0 feet below grade taken prior to sampling on 3/16/05.			

<b>AKRF, Inc.</b>		Manhattanville Rezoning/Columbia University West Harlem, NY AKRF Project Number : 10470		Well No. <b>MW/CB-22</b>		
				Sheet 1	of 1	
Environmental Consultants  440 Park Avenue South New York, NY 10016		<b>Drilling Method:</b>	Truck-mounted, Hollow Stem Au	<b>Drilling</b>		
		<b>Sampling Method:</b>	See boring MW/CB-22	<b>Start</b>	<b>Finish</b>	
		<b>Driller :</b>	SDS	<b>Time: 09:00</b>	<b>Time: 11:00</b>	
		<b>Weather:</b>	28F Clear	<b>Date: 3/4/05</b>	<b>Date: 3/4/05</b>	
		<b>Field Supervisor:</b>	AKRF/Steve Grens			
<b>Depth (feet)</b>	<b>Well Construction</b>	<b>Surface Condition: Concrete</b>				
2		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade				
4		Well riser from 0.5' to 9'				
6		Natural backfill 0.5' to 6'				
8		Bentonite seal 6' to 8'				
10						
12						
14		Sand pack filter 8' to 19'				
16						
18		20-Slot well screen 9' to 19'				
20						
22						
24						
26						
28						
30						
32						
<b>Notes:</b>		Stabilized groundwater level measurement of 14.3 feet below grade taken prior to sampling on 3/16/05.				



**APPENDIX C**  
**SOIL AND GROUNDWATER ANALYTICAL DATA SHEETS**

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

**Client:** AKRF, Inc. **Laboratory Job Number:** L0501658  
**Address:** 116 E. 27th Street  
7th Floor  
New York, NY 10016 **Date Received:** 17-FEB-2005  
**Attn:** Mr. Axel Schwendt **Date Reported:** 24-FEB-2005  
**Project Number:** 10470-0213 **Delivery Method:** Alpha  
**Site:** COLUMBIA-MANHATTANVILLE REZONI

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0501658-01	MW/CB-1 (2'-4')	HARLEM, NY
L0501658-02	MW/CB-1 (10'-12')	HARLEM, NY
L0501658-03	MW/CB-2 (10'-12')	HARLEM, NY
L0501658-04	MW/CB-2 (12'-14')	HARLEM, NY
L0501658-05	MW/CB-3 (20'-22')	HARLEM, NY
L0501658-06	FIELD BLANK	HARLEM, NY
L0501658-07	TRIP BLANK	HARLEM, NY
L0501658-08	MW/CB-4 (14'-16')	HARLEM, NY

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

---

Authorized by: James Todaro  
This document electronically signed

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0501658

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Metals

The wg194621-1 Duplicate % RPD for Ca is outside of the acceptance criteria for the method. The elevated RPD has been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

The wg194621-2 MS % recoveries for Al, Ca, Fe, and Mg are invalid because the sample concentrations are greater than four times the spike amount added.

Pesticides

he project-required reporting limits were not achieved on L0501658-01 through -05

Semi-Volatile Organics

The LCS has a low % recovery for 2,4-Dinitrophenol.



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-01  
 MW/CB-1 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0219 21:28		BT
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.4				
Vinyl chloride	ND	ug/kg	5.4				
Chloroethane	ND	ug/kg	5.4				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.4				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	68.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	54.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-01  
MW/CB-1 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0219	21:28 BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	101.	%					
Toluene-d8	97.0	%					
4-Bromofluorobenzene	109.	%					
Dibromofluoromethane	94.0	%					
SVOC's by GC/MS 8270				1	8270C	0218	12:45 0221 20:42 HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	300	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	360				
Hexachlorocyclopentadiene	ND	ug/kg	360				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	540				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-01  
 MW/CB-1 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0218 12:45	0221 20:42	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	360				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	180	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	240	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	360				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	250				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	360				
Nitrosodi-n-butylamine	ND	ug/kg	360				
2-Methylnaphthalene	ND	ug/kg	290				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	720				
Pentachlorobenzene	ND	ug/kg	720				
a-Naphthylamine	ND	ug/kg	720				
b-Naphthylamine	ND	ug/kg	720				
Phenacetin	ND	ug/kg	360				
Dimethoate	ND	ug/kg	720				
4-Aminobiphenyl	ND	ug/kg	360				
Pentachloronitrobenzene	ND	ug/kg	360				
Isodrin	ND	ug/kg	360				
p-Dimethylaminoazobenzene	ND	ug/kg	360				
Chlorobenzilate	ND	ug/kg	720				
3-Methylcholanthrene	ND	ug/kg	720				
Ethyl Methanesulfonate	ND	ug/kg	540				
Acetophenone	ND	ug/kg	720				
Nitrosodipiperidine	ND	ug/kg	720				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-01  
 MW/CB-1 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0218 12:45	0221 20:42 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	360				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	360				
2,4-Dimethylphenol	ND	ug/kg	360				
2-Nitrophenol	ND	ug/kg	720				
4-Nitrophenol	ND	ug/kg	360				
2,4-Dinitrophenol	ND	ug/kg	720				
4,6-Dinitro-o-cresol	ND	ug/kg	720				
Pentachlorophenol	ND	ug/kg	720				
Phenol	ND	ug/kg	250				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	360				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	360				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	720				
Pronamide	ND	ug/kg	720				
Methyl methanesulfonate	ND	ug/kg	720				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	57.0	%	25-120				
Phenol-d6	67.0	%	10-120				
Nitrobenzene-d5	59.0	%	23-120				
2-Fluorobiphenyl	54.0	%	30-120				
2,4,6-Tribromophenol	63.0	%	19-120				
4-Terphenyl-d14	82.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0218 12:45	0221 19:27 RL
Acenaphthene	18.	ug/kg	7.2				
2-Chloronaphthalene	ND	ug/kg	7.2				
Fluoranthene	300	ug/kg	7.2				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	39.	ug/kg	7.2				
Benzo(a)anthracene	170	ug/kg	7.2				
Benzo(a)pyrene	140	ug/kg	7.2				
Benzo(b)fluoranthene	200	ug/kg	7.2				
Benzo(k)fluoranthene	100	ug/kg	7.2				
Chrysene	160	ug/kg	7.2				
Acenaphthylene	ND	ug/kg	7.2				
Anthracene	35.	ug/kg	7.2				
Benzo(ghi)perylene	92.	ug/kg	7.2				
Fluorene	15.	ug/kg	7.2				
Phenanthrene	180	ug/kg	7.2				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-01  
 MW/CB-1 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0218 12:45	0221 19:27 RL
Dibenzo(a,h)anthracene	31.	ug/kg	7.2				
Indeno(1,2,3-cd)Pyrene	89.	ug/kg	7.2				
Pyrene	240	ug/kg	7.2				
1-Methylnaphthalene	ND	ug/kg	7.2				
2-Methylnaphthalene	7.2	ug/kg	7.2				
Pentachlorophenol	ND	ug/kg	29.				
Hexachlorobenzene	ND	ug/kg	29.				
Perylene	35.	ug/kg	7.2				
Biphenyl	ND	ug/kg	7.2				
2,6-Dimethylnaphthalene	ND	ug/kg	7.2				
1-Methylphenanthrene	14.	ug/kg	7.2				
Benzo(e)Pyrene	100	ug/kg	7.2				
Hexachloroethane	ND	ug/kg	29.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	50.0	%	25-120				
Phenol-d6	68.0	%	10-120				
Nitrobenzene-d5	52.0	%	23-120				
2-Fluorobiphenyl	51.0	%	30-120				
2,4,6-Tribromophenol	76.0	%	19-120				
4-Terphenyl-d14	75.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0218 10:30	0222 20:27 JB
Aroclor 1221	ND	ug/kg	36.2				
Aroclor 1232	ND	ug/kg	36.2				
Aroclor 1242/1016	ND	ug/kg	36.2				
Aroclor 1248	ND	ug/kg	36.2				
Aroclor 1254	ND	ug/kg	36.2				
Aroclor 1260	ND	ug/kg	36.2				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	64.0	%	30-150				
Decachlorobiphenyl	65.0	%	30-150				
Organochlorine Pesticides				1	8081	0218 10:15	0224 00:23 BW
Delta-BHC	ND	ug/kg	3.62				
Lindane	ND	ug/kg	3.62				
Alpha-BHC	ND	ug/kg	3.62				
Beta-BHC	ND	ug/kg	3.62				
Heptachlor	ND	ug/kg	3.62				
Aldrin	ND	ug/kg	3.62				
Heptachlor epoxide	ND	ug/kg	3.62				
Endrin	ND	ug/kg	3.62				
Endrin aldehyde	ND	ug/kg	3.62				
Endrin ketone	ND	ug/kg	3.62				
Dieldrin	ND	ug/kg	3.62				
4,4'-DDE	ND	ug/kg	3.62				
4,4'-DDD	ND	ug/kg	3.62				
4,4'-DDT	ND	ug/kg	3.62				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-01  
MW/CB-1 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0218 10:15	0224 00:23	BW
Endosulfan I	ND	ug/kg	3.62				
Endosulfan II	ND	ug/kg	3.62				
Endosulfan sulfate	ND	ug/kg	3.62				
Methoxychlor	ND	ug/kg	3.62				
Toxaphene	ND	ug/kg	14.5				
Chlordane	ND	ug/kg	14.5				
cis-Chlordane	ND	ug/kg	3.62				
trans-Chlordane	ND	ug/kg	3.62				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	50.0	%		30-150			
Decachlorobiphenyl	54.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0501658-02 Date Collected: 15-FEB-2005 11:30  
MW/CB-1 (10'-12') Date Received : 17-FEB-2005  
Sample Matrix: SOIL Date Reported : 24-FEB-2005  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	90.	%	0.10	30 2540G	0218	11:27	LC
Total Metals				1 3051			
Aluminum, Total	6300	mg/kg	4.4	1 6010B	0218	14:00	0221 11:48 RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0218	14:00	0221 11:48 RW
Arsenic, Total	2.4	mg/kg	0.44	1 6010B	0218	14:00	0221 11:48 RW
Barium, Total	25.	mg/kg	0.44	1 6010B	0218	14:00	0221 11:48 RW
Beryllium, Total	ND	mg/kg	0.22	1 6010B	0218	14:00	0221 11:48 RW
Cadmium, Total	ND	mg/kg	0.44	1 6010B	0218	14:00	0221 11:48 RW
Calcium, Total	2500	mg/kg	4.4	1 6010B	0218	14:00	0221 11:48 RW
Chromium, Total	10.	mg/kg	0.44	1 6010B	0218	14:00	0221 11:48 RW
Cobalt, Total	5.7	mg/kg	0.87	1 6010B	0218	14:00	0221 11:48 RW
Copper, Total	12.	mg/kg	0.44	1 6010B	0218	14:00	0221 11:48 RW
Iron, Total	13000	mg/kg	2.2	1 6010B	0218	14:00	0221 11:48 RW
Lead, Total	9.7	mg/kg	2.2	1 6010B	0218	14:00	0221 11:48 RW
Magnesium, Total	2900	mg/kg	4.4	1 6010B	0218	14:00	0221 11:48 RW
Manganese, Total	280	mg/kg	0.44	1 6010B	0218	14:00	0221 11:48 RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0222	19:50	0223 14:36 DM
Nickel, Total	10.	mg/kg	1.1	1 6010B	0218	14:00	0221 11:48 RW
Potassium, Total	370	mg/kg	110	1 6010B	0218	14:00	0221 11:48 RW
Selenium, Total	ND	mg/kg	0.87	1 6010B	0218	14:00	0221 11:48 RW
Silver, Total	ND	mg/kg	0.44	1 6010B	0218	14:00	0221 11:48 RW
Sodium, Total	190	mg/kg	87.	1 6010B	0218	14:00	0221 11:48 RW
Thallium, Total	ND	mg/kg	0.44	1 6010B	0218	14:00	0221 11:48 RW
Vanadium, Total	11.	mg/kg	0.44	1 6010B	0218	14:00	0221 11:48 RW
Zinc, Total	32.	mg/kg	2.2	1 6010B	0218	14:00	0221 11:48 RW
Volatile Organics by GC/MS 8260				1 8260B	0220	13:36	BT
Methylene chloride	ND	ug/kg	28.				
1,1-Dichloroethane	ND	ug/kg	4.3				
Chloroform	ND	ug/kg	4.3				
Carbon tetrachloride	ND	ug/kg	2.8				
1,2-Dichloropropane	ND	ug/kg	10.				
Dibromochloromethane	ND	ug/kg	2.8				
1,1,2-Trichloroethane	ND	ug/kg	4.3				
Tetrachloroethene	ND	ug/kg	2.8				
Chlorobenzene	ND	ug/kg	2.8				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-02  
 MW/CB-1 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0220 13:36 BT	
1,2-Dichloroethane	ND	ug/kg	2.8				
1,1,1-Trichloroethane	ND	ug/kg	2.8				
Bromodichloromethane	ND	ug/kg	2.8				
trans-1,3-Dichloropropene	ND	ug/kg	2.8				
cis-1,3-Dichloropropene	ND	ug/kg	2.8				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8				
Benzene	3.0	ug/kg	2.8				
Toluene	ND	ug/kg	4.3				
Ethylbenzene	ND	ug/kg	2.8				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.7				
Vinyl chloride	ND	ug/kg	5.7				
Chloroethane	ND	ug/kg	5.7				
1,1-Dichloroethene	ND	ug/kg	2.8				
trans-1,2-Dichloroethene	ND	ug/kg	4.3				
Trichloroethene	ND	ug/kg	2.8				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.7				
p/m-Xylene	ND	ug/kg	2.8				
o-Xylene	ND	ug/kg	2.8				
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				
1,4-Dichlorobutane	ND	ug/kg	28.				
Iodomethane	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
Styrene	ND	ug/kg	2.8				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Ethyl methacrylate	ND	ug/kg	28.				
Acrolein	ND	ug/kg	71.				
Acrylonitrile	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	57.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-02  
 MW/CB-1 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0220 13:36		BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	97.0	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	120.	%					
Dibromofluoromethane	90.0	%					
SVOC's by GC/MS 8270				1 8270C	0218 12:45		0221 21:07 HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	560				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-02  
MW/CB-1 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0218 12:45	0221 21:07	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	300				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	740				
Pentachlorobenzene	ND	ug/kg	740				
a-Naphthylamine	ND	ug/kg	740				
b-Naphthylamine	ND	ug/kg	740				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	740				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	740				
3-Methylcholanthrene	ND	ug/kg	740				
Ethyl Methanesulfonate	ND	ug/kg	560				
Acetophenone	ND	ug/kg	740				
Nitrosodipiperidine	ND	ug/kg	740				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-02  
 MW/CB-1 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0218 12:45	0221 21:07 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	740				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	740				
4,6-Dinitro-o-cresol	ND	ug/kg	740				
Pentachlorophenol	ND	ug/kg	740				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	740				
Pronamide	ND	ug/kg	740				
Methyl methanesulfonate	ND	ug/kg	740				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	62.0	%	25-120				
Phenol-d6	73.0	%	10-120				
Nitrobenzene-d5	65.0	%	23-120				
2-Fluorobiphenyl	59.0	%	30-120				
2,4,6-Tribromophenol	47.0	%	19-120				
4-Terphenyl-d14	72.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0218 12:45	0221 20:13 RL
Acenaphthene	ND	ug/kg	7.4				
2-Chloronaphthalene	ND	ug/kg	7.4				
Fluoranthene	ND	ug/kg	7.4				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.4				
Benzo(a)anthracene	ND	ug/kg	7.4				
Benzo(a)pyrene	ND	ug/kg	7.4				
Benzo(b)fluoranthene	ND	ug/kg	7.4				
Benzo(k)fluoranthene	ND	ug/kg	7.4				
Chrysene	ND	ug/kg	7.4				
Acenaphthylene	ND	ug/kg	7.4				
Anthracene	ND	ug/kg	7.4				
Benzo(ghi)perylene	ND	ug/kg	7.4				
Fluorene	ND	ug/kg	7.4				
Phenanthrene	ND	ug/kg	7.4				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-02  
 MW/CB-1 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0218 12:45	0221 20:13 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.4				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.4				
Pyrene	ND	ug/kg	7.4				
1-Methylnaphthalene	ND	ug/kg	7.4				
2-Methylnaphthalene	ND	ug/kg	7.4				
Pentachlorophenol	ND	ug/kg	30.				
Hexachlorobenzene	ND	ug/kg	30.				
Perylene	ND	ug/kg	7.4				
Biphenyl	ND	ug/kg	7.4				
2,6-Dimethylnaphthalene	ND	ug/kg	7.4				
1-Methylphenanthrene	ND	ug/kg	7.4				
Benzo(e)Pyrene	ND	ug/kg	7.4				
Hexachloroethane	ND	ug/kg	30.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	53.0	%	25-120				
Phenol-d6	72.0	%	10-120				
Nitrobenzene-d5	56.0	%	23-120				
2-Fluorobiphenyl	54.0	%	30-120				
2,4,6-Tribromophenol	59.0	%	19-120				
4-Terphenyl-d14	59.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0218 10:30	0222 20:55 JB
Aroclor 1221	ND	ug/kg	37.0				
Aroclor 1232	ND	ug/kg	37.0				
Aroclor 1242/1016	ND	ug/kg	37.0				
Aroclor 1248	ND	ug/kg	37.0				
Aroclor 1254	ND	ug/kg	37.0				
Aroclor 1260	ND	ug/kg	37.0				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	58.0	%	30-150				
Decachlorobiphenyl	58.0	%	30-150				
Organochlorine Pesticides				1	8081	0218 10:15	0224 03:15 BW
Delta-BHC	ND	ug/kg	3.70				
Lindane	ND	ug/kg	3.70				
Alpha-BHC	ND	ug/kg	3.70				
Beta-BHC	ND	ug/kg	3.70				
Heptachlor	ND	ug/kg	3.70				
Aldrin	ND	ug/kg	3.70				
Heptachlor epoxide	ND	ug/kg	3.70				
Endrin	ND	ug/kg	3.70				
Endrin aldehyde	ND	ug/kg	3.70				
Endrin ketone	ND	ug/kg	3.70				
Dieldrin	ND	ug/kg	3.70				
4,4'-DDE	ND	ug/kg	3.70				
4,4'-DDD	ND	ug/kg	3.70				
4,4'-DDT	ND	ug/kg	3.70				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-02  
MW/CB-1 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0218 10:15	0224 03:15	BW
Endosulfan I	ND	ug/kg	3.70				
Endosulfan II	ND	ug/kg	3.70				
Endosulfan sulfate	ND	ug/kg	3.70				
Methoxychlor	ND	ug/kg	3.70				
Toxaphene	ND	ug/kg	14.8				
Chlordane	ND	ug/kg	14.8				
cis-Chlordane	ND	ug/kg	3.70				
trans-Chlordane	ND	ug/kg	3.70				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	49.0	%		30-150			
Decachlorobiphenyl	53.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0501658-03 Date Collected: 15-FEB-2005 14:25  
 MW/CB-2 (10'-12') Date Received : 17-FEB-2005  
 Sample Matrix: SOIL Date Reported : 24-FEB-2005  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	88.	%	0.10	30 2540G			0218 11:27 LC
Total Metals				1 3051			
Aluminum, Total	5900	mg/kg	4.5	1 6010B	0218 14:00	0221 11:50	RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0218 14:00	0221 11:50	RW
Arsenic, Total	2.5	mg/kg	0.45	1 6010B	0218 14:00	0221 11:50	RW
Barium, Total	19.	mg/kg	0.45	1 6010B	0218 14:00	0221 11:50	RW
Beryllium, Total	ND	mg/kg	0.22	1 6010B	0218 14:00	0221 11:50	RW
Cadmium, Total	ND	mg/kg	0.45	1 6010B	0218 14:00	0221 11:50	RW
Calcium, Total	1400	mg/kg	4.5	1 6010B	0218 14:00	0221 11:50	RW
Chromium, Total	7.6	mg/kg	0.45	1 6010B	0218 14:00	0221 11:50	RW
Cobalt, Total	4.9	mg/kg	0.90	1 6010B	0218 14:00	0221 11:50	RW
Copper, Total	11.	mg/kg	0.45	1 6010B	0218 14:00	0221 11:50	RW
Iron, Total	12000	mg/kg	2.2	1 6010B	0218 14:00	0221 11:50	RW
Lead, Total	5.4	mg/kg	2.2	1 6010B	0218 14:00	0221 11:50	RW
Magnesium, Total	2400	mg/kg	4.5	1 6010B	0218 14:00	0221 11:50	RW
Manganese, Total	150	mg/kg	0.45	1 6010B	0218 14:00	0221 11:50	RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0222 19:50	0223 14:44	DM
Nickel, Total	10.	mg/kg	1.1	1 6010B	0218 14:00	0221 11:50	RW
Potassium, Total	350	mg/kg	110	1 6010B	0218 14:00	0221 11:50	RW
Selenium, Total	ND	mg/kg	0.90	1 6010B	0218 14:00	0221 11:50	RW
Silver, Total	ND	mg/kg	0.45	1 6010B	0218 14:00	0221 11:50	RW
Sodium, Total	130	mg/kg	90.	1 6010B	0218 14:00	0221 11:50	RW
Thallium, Total	ND	mg/kg	0.45	1 6010B	0218 14:00	0221 11:50	RW
Vanadium, Total	9.6	mg/kg	0.45	1 6010B	0218 14:00	0221 11:50	RW
Zinc, Total	30.	mg/kg	2.2	1 6010B	0218 14:00	0221 11:50	RW
Volatile Organics by GC/MS 8260				1 8260B			0219 23:24 BT
Methylene chloride	ND	ug/kg	28.				
1,1-Dichloroethane	ND	ug/kg	4.3				
Chloroform	ND	ug/kg	4.3				
Carbon tetrachloride	ND	ug/kg	2.8				
1,2-Dichloropropane	ND	ug/kg	9.9				
Dibromochloromethane	ND	ug/kg	2.8				
1,1,2-Trichloroethane	ND	ug/kg	4.3				
Tetrachloroethene	ND	ug/kg	2.8				
Chlorobenzene	ND	ug/kg	2.8				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-03  
 MW/CB-2 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0219	23:24 BT
1,2-Dichloroethane	ND	ug/kg	2.8				
1,1,1-Trichloroethane	ND	ug/kg	2.8				
Bromodichloromethane	ND	ug/kg	2.8				
trans-1,3-Dichloropropene	ND	ug/kg	2.8				
cis-1,3-Dichloropropene	ND	ug/kg	2.8				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8				
Benzene	ND	ug/kg	2.8				
Toluene	ND	ug/kg	4.3				
Ethylbenzene	ND	ug/kg	2.8				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.7				
Vinyl chloride	ND	ug/kg	5.7				
Chloroethane	ND	ug/kg	5.7				
1,1-Dichloroethene	ND	ug/kg	2.8				
trans-1,2-Dichloroethene	ND	ug/kg	4.3				
Trichloroethene	ND	ug/kg	2.8				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.7				
p/m-Xylene	ND	ug/kg	2.8				
o-Xylene	ND	ug/kg	2.8				
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				
1,4-Dichlorobutane	ND	ug/kg	28.				
Iodomethane	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
Styrene	ND	ug/kg	2.8				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Ethyl methacrylate	ND	ug/kg	28.				
Acrolein	ND	ug/kg	71.				
Acrylonitrile	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	57.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-03  
MW/CB-2 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0219	23:24 BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	101.	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	110.	%					
Dibromofluoromethane	94.0	%					
SVOC's by GC/MS 8270				1	8270C	0218	12:45 0221 20:17 HL
Acenaphthene	ND	ug/kg	190				
Benzidine	ND	ug/kg	1900				
1,2,4-Trichlorobenzene	ND	ug/kg	190				
Hexachlorobenzene	ND	ug/kg	190				
Bis(2-chloroethyl)ether	ND	ug/kg	190				
1-Chloronaphthalene	ND	ug/kg	190				
2-Chloronaphthalene	ND	ug/kg	230				
1,2-Dichlorobenzene	ND	ug/kg	190				
1,3-Dichlorobenzene	ND	ug/kg	190				
1,4-Dichlorobenzene	ND	ug/kg	190				
3,3'-Dichlorobenzidine	ND	ug/kg	1900				
2,4-Dinitrotoluene	ND	ug/kg	230				
2,6-Dinitrotoluene	ND	ug/kg	190				
Azobenzene	ND	ug/kg	190				
Fluoranthene	ND	ug/kg	190				
4-Chlorophenyl phenyl ether	ND	ug/kg	190				
4-Bromophenyl phenyl ether	ND	ug/kg	190				
Bis(2-chloroisopropyl)ether	ND	ug/kg	190				
Bis(2-chloroethoxy)methane	ND	ug/kg	190				
Hexachlorobutadiene	ND	ug/kg	380				
Hexachlorocyclopentadiene	ND	ug/kg	380				
Hexachloroethane	ND	ug/kg	190				
Isophorone	ND	ug/kg	190				
Naphthalene	ND	ug/kg	190				
Nitrobenzene	ND	ug/kg	190				
NDPA/DPA	ND	ug/kg	570				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-03  
MW/CB-2 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0218 12:45	0221 20:17 HL
n-Nitrosodi-n-propylamine	ND	ug/kg	190				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	380				
Butyl benzyl phthalate	ND	ug/kg	190				
Di-n-butylphthalate	ND	ug/kg	190				
Di-n-octylphthalate	ND	ug/kg	190				
Diethyl phthalate	ND	ug/kg	190				
Dimethyl phthalate	ND	ug/kg	190				
Benzo(a)anthracene	ND	ug/kg	190				
Benzo(a)pyrene	ND	ug/kg	190				
Benzo(b)fluoranthene	ND	ug/kg	190				
Benzo(k)fluoranthene	ND	ug/kg	190				
Chrysene	ND	ug/kg	190				
Acenaphthylene	ND	ug/kg	190				
Anthracene	ND	ug/kg	190				
Benzo(ghi)perylene	ND	ug/kg	190				
Fluorene	ND	ug/kg	190				
Phenanthrene	ND	ug/kg	190				
Dibenzo(a,h)anthracene	ND	ug/kg	190				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	190				
Pyrene	ND	ug/kg	190				
Benzo(e)pyrene	ND	ug/kg	190				
Biphenyl	ND	ug/kg	190				
Perylene	ND	ug/kg	190				
Aniline	ND	ug/kg	380				
4-Chloroaniline	ND	ug/kg	190				
1-Methylnaphthalene	ND	ug/kg	190				
2-Nitroaniline	ND	ug/kg	190				
3-Nitroaniline	ND	ug/kg	190				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	190				
a,a-Dimethylphenethylamine	ND	ug/kg	1900				
Hexachloropropene	ND	ug/kg	380				
Nitrosodi-n-butylamine	ND	ug/kg	380				
2-Methylnaphthalene	ND	ug/kg	300				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	760				
Pentachlorobenzene	ND	ug/kg	760				
a-Naphthylamine	ND	ug/kg	760				
b-Naphthylamine	ND	ug/kg	760				
Phenacetin	ND	ug/kg	380				
Dimethoate	ND	ug/kg	760				
4-Aminobiphenyl	ND	ug/kg	380				
Pentachloronitrobenzene	ND	ug/kg	380				
Isodrin	ND	ug/kg	380				
p-Dimethylaminoazobenzene	ND	ug/kg	380				
Chlorobenzilate	ND	ug/kg	760				
3-Methylcholanthrene	ND	ug/kg	760				
Ethyl Methanesulfonate	ND	ug/kg	570				
Acetophenone	ND	ug/kg	760				
Nitrosodipiperidine	ND	ug/kg	760				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-03  
 MW/CB-2 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0218 12:45	0221 20:17 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	380				
n-Nitrosodimethylamine	ND	ug/kg	1900				
2,4,6-Trichlorophenol	ND	ug/kg	190				
p-Chloro-m-cresol	ND	ug/kg	190				
2-Chlorophenol	ND	ug/kg	230				
2,4-Dichlorophenol	ND	ug/kg	380				
2,4-Dimethylphenol	ND	ug/kg	380				
2-Nitrophenol	ND	ug/kg	760				
4-Nitrophenol	ND	ug/kg	380				
2,4-Dinitrophenol	ND	ug/kg	760				
4,6-Dinitro-o-cresol	ND	ug/kg	760				
Pentachlorophenol	ND	ug/kg	760				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	230				
3-Methylphenol/4-Methylphenol	ND	ug/kg	230				
2,4,5-Trichlorophenol	ND	ug/kg	190				
2,6-Dichlorophenol	ND	ug/kg	380				
Benzoic Acid	ND	ug/kg	1900				
Benzyl Alcohol	ND	ug/kg	380				
Carbazole	ND	ug/kg	190				
Pyridine	ND	ug/kg	1900				
2-Picoline	ND	ug/kg	760				
Pronamide	ND	ug/kg	760				
Methyl methanesulfonate	ND	ug/kg	760				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	72.0	%	25-120				
Phenol-d6	85.0	%	10-120				
Nitrobenzene-d5	77.0	%	23-120				
2-Fluorobiphenyl	68.0	%	30-120				
2,4,6-Tribromophenol	49.0	%	19-120				
4-Terphenyl-d14	79.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0218 12:45	0222 15:14 RL
Acenaphthene	ND	ug/kg	7.6				
2-Chloronaphthalene	ND	ug/kg	7.6				
Fluoranthene	ND	ug/kg	7.6				
Hexachlorobutadiene	ND	ug/kg	19.				
Naphthalene	ND	ug/kg	7.6				
Benzo(a)anthracene	ND	ug/kg	7.6				
Benzo(a)pyrene	ND	ug/kg	7.6				
Benzo(b)fluoranthene	ND	ug/kg	7.6				
Benzo(k)fluoranthene	ND	ug/kg	7.6				
Chrysene	ND	ug/kg	7.6				
Acenaphthylene	ND	ug/kg	7.6				
Anthracene	ND	ug/kg	7.6				
Benzo(ghi)perylene	ND	ug/kg	7.6				
Fluorene	ND	ug/kg	7.6				
Phenanthrene	ND	ug/kg	7.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-03  
 MW/CB-2 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0218 12:45	0222 15:14 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.6				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.6				
Pyrene	ND	ug/kg	7.6				
1-Methylnaphthalene	ND	ug/kg	7.6				
2-Methylnaphthalene	ND	ug/kg	7.6				
Pentachlorophenol	ND	ug/kg	30.				
Hexachlorobenzene	ND	ug/kg	30.				
Perylene	ND	ug/kg	7.6				
Biphenyl	ND	ug/kg	7.6				
2,6-Dimethylnaphthalene	ND	ug/kg	7.6				
1-Methylphenanthrene	ND	ug/kg	7.6				
Benzo(e)Pyrene	ND	ug/kg	7.6				
Hexachloroethane	ND	ug/kg	30.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	65.0	%	25-120				
Phenol-d6	84.0	%	10-120				
Nitrobenzene-d5	68.0	%	23-120				
2-Fluorobiphenyl	65.0	%	30-120				
2,4,6-Tribromophenol	66.0	%	19-120				
4-Terphenyl-d14	77.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0218 10:30	0222 21:24 JB
Aroclor 1221	ND	ug/kg	37.9				
Aroclor 1232	ND	ug/kg	37.9				
Aroclor 1242/1016	ND	ug/kg	37.9				
Aroclor 1248	ND	ug/kg	37.9				
Aroclor 1254	ND	ug/kg	37.9				
Aroclor 1260	ND	ug/kg	37.9				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	56.0	%	30-150				
Decachlorobiphenyl	55.0	%	30-150				
Organochlorine Pesticides				1	8081	0218 10:15	0224 03:43 BW
Delta-BHC	ND	ug/kg	3.79				
Lindane	ND	ug/kg	3.79				
Alpha-BHC	ND	ug/kg	3.79				
Beta-BHC	ND	ug/kg	3.79				
Heptachlor	ND	ug/kg	3.79				
Aldrin	ND	ug/kg	3.79				
Heptachlor epoxide	ND	ug/kg	3.79				
Endrin	ND	ug/kg	3.79				
Endrin aldehyde	ND	ug/kg	3.79				
Endrin ketone	ND	ug/kg	3.79				
Dieldrin	ND	ug/kg	3.79				
4,4'-DDE	ND	ug/kg	3.79				
4,4'-DDD	ND	ug/kg	3.79				
4,4'-DDT	ND	ug/kg	3.79				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-03  
MW/CB-2 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0218 10:15	0224 03:43	BW
Endosulfan I	ND	ug/kg	3.79				
Endosulfan II	ND	ug/kg	3.79				
Endosulfan sulfate	ND	ug/kg	3.79				
Methoxychlor	ND	ug/kg	3.79				
Toxaphene	ND	ug/kg	15.2				
Chlordane	ND	ug/kg	15.2				
cis-Chlordane	ND	ug/kg	3.79				
trans-Chlordane	ND	ug/kg	3.79				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	52.0	%		30-150			
Decachlorobiphenyl	57.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0501658-04 Date Collected: 15-FEB-2005 14:30  
 MW/CB-2 (12'-14') Date Received : 17-FEB-2005  
 Sample Matrix: SOIL Date Reported : 24-FEB-2005  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	80.	%	0.10	30 2540G			0218 11:27 LC
Total Metals				1 3051			
Aluminum, Total	6400	mg/kg	5.0	1 6010B	0218 14:00	0221 11:53	RW
Antimony, Total	ND	mg/kg	2.5	1 6010B	0218 14:00	0221 11:53	RW
Arsenic, Total	2.0	mg/kg	0.50	1 6010B	0218 14:00	0221 11:53	RW
Barium, Total	22.	mg/kg	0.50	1 6010B	0218 14:00	0221 11:53	RW
Beryllium, Total	ND	mg/kg	0.25	1 6010B	0218 14:00	0221 11:53	RW
Cadmium, Total	ND	mg/kg	0.50	1 6010B	0218 14:00	0221 11:53	RW
Calcium, Total	1000	mg/kg	5.0	1 6010B	0218 14:00	0221 11:53	RW
Chromium, Total	11.	mg/kg	0.50	1 6010B	0218 14:00	0221 11:53	RW
Cobalt, Total	6.2	mg/kg	0.99	1 6010B	0218 14:00	0221 11:53	RW
Copper, Total	14.	mg/kg	0.50	1 6010B	0218 14:00	0221 11:53	RW
Iron, Total	12000	mg/kg	2.5	1 6010B	0218 14:00	0221 11:53	RW
Lead, Total	5.6	mg/kg	2.5	1 6010B	0218 14:00	0221 11:53	RW
Magnesium, Total	2700	mg/kg	5.0	1 6010B	0218 14:00	0221 11:53	RW
Manganese, Total	110	mg/kg	0.50	1 6010B	0218 14:00	0221 11:53	RW
Mercury, Total	ND	mg/kg	0.10	1 7471A	0222 19:50	0223 14:45	DM
Nickel, Total	12.	mg/kg	1.2	1 6010B	0218 14:00	0221 11:53	RW
Potassium, Total	410	mg/kg	120	1 6010B	0218 14:00	0221 11:53	RW
Selenium, Total	ND	mg/kg	0.99	1 6010B	0218 14:00	0221 11:53	RW
Silver, Total	ND	mg/kg	0.50	1 6010B	0218 14:00	0221 11:53	RW
Sodium, Total	ND	mg/kg	99.	1 6010B	0218 14:00	0221 11:53	RW
Thallium, Total	ND	mg/kg	0.50	1 6010B	0218 14:00	0221 11:53	RW
Vanadium, Total	11.	mg/kg	0.50	1 6010B	0218 14:00	0221 11:53	RW
Zinc, Total	36.	mg/kg	2.5	1 6010B	0218 14:00	0221 11:53	RW
Volatile Organics by GC/MS 8260				1 8260B	0220 00:40		BT
Methylene chloride	ND	ug/kg	31.				
1,1-Dichloroethane	ND	ug/kg	4.7				
Chloroform	ND	ug/kg	4.7				
Carbon tetrachloride	ND	ug/kg	3.1				
1,2-Dichloropropane	ND	ug/kg	11.				
Dibromochloromethane	ND	ug/kg	3.1				
1,1,2-Trichloroethane	ND	ug/kg	4.7				
Tetrachloroethene	ND	ug/kg	3.1				
Chlorobenzene	ND	ug/kg	3.1				
Trichlorofluoromethane	ND	ug/kg	16.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-04  
 MW/CB-2 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0220 00:40 BT	
1,2-Dichloroethane	ND	ug/kg	3.1				
1,1,1-Trichloroethane	ND	ug/kg	3.1				
Bromodichloromethane	ND	ug/kg	3.1				
trans-1,3-Dichloropropene	ND	ug/kg	3.1				
cis-1,3-Dichloropropene	ND	ug/kg	3.1				
1,1-Dichloropropene	ND	ug/kg	16.				
Bromoform	ND	ug/kg	12.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.1				
Benzene	ND	ug/kg	3.1				
Toluene	ND	ug/kg	4.7				
Ethylbenzene	ND	ug/kg	3.1				
Chloromethane	ND	ug/kg	16.				
Bromomethane	ND	ug/kg	6.2				
Vinyl chloride	ND	ug/kg	6.2				
Chloroethane	ND	ug/kg	6.2				
1,1-Dichloroethene	ND	ug/kg	3.1				
trans-1,2-Dichloroethene	ND	ug/kg	4.7				
Trichloroethene	ND	ug/kg	3.1				
1,2-Dichlorobenzene	ND	ug/kg	16.				
1,3-Dichlorobenzene	ND	ug/kg	16.				
1,4-Dichlorobenzene	ND	ug/kg	16.				
Methyl tert butyl ether	ND	ug/kg	6.2				
p/m-Xylene	ND	ug/kg	3.1				
o-Xylene	ND	ug/kg	3.1				
cis-1,2-Dichloroethene	ND	ug/kg	3.1				
Dibromomethane	ND	ug/kg	31.				
1,4-Dichlorobutane	ND	ug/kg	31.				
Iodomethane	ND	ug/kg	31.				
1,2,3-Trichloropropane	ND	ug/kg	31.				
Styrene	ND	ug/kg	3.1				
Dichlorodifluoromethane	ND	ug/kg	31.				
Acetone	31.	ug/kg	31.				
Carbon disulfide	ND	ug/kg	31.				
2-Butanone	ND	ug/kg	31.				
Vinyl acetate	ND	ug/kg	31.				
4-Methyl-2-pentanone	ND	ug/kg	31.				
2-Hexanone	ND	ug/kg	31.				
Ethyl methacrylate	ND	ug/kg	31.				
Acrolein	ND	ug/kg	78.				
Acrylonitrile	ND	ug/kg	31.				
Bromochloromethane	ND	ug/kg	16.				
Tetrahydrofuran	ND	ug/kg	62.				
2,2-Dichloropropane	ND	ug/kg	16.				
1,2-Dibromoethane	ND	ug/kg	12.				
1,3-Dichloropropane	ND	ug/kg	16.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.1				
Bromobenzene	ND	ug/kg	16.				
n-Butylbenzene	82.	ug/kg	3.1				
sec-Butylbenzene	86.	ug/kg	3.1				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-04  
MW/CB-2 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0220	00:40 BT
tert-Butylbenzene	ND	ug/kg	16.				
o-Chlorotoluene	ND	ug/kg	16.				
p-Chlorotoluene	ND	ug/kg	16.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	16.				
Hexachlorobutadiene	ND	ug/kg	16.				
Isopropylbenzene	ND	ug/kg	3.1				
p-Isopropyltoluene	11.	ug/kg	3.1				
Naphthalene	ND	ug/kg	16.				
n-Propylbenzene	ND	ug/kg	3.1				
1,2,3-Trichlorobenzene	ND	ug/kg	16.				
1,2,4-Trichlorobenzene	ND	ug/kg	16.				
1,3,5-Trimethylbenzene	ND	ug/kg	16.				
1,2,4-Trimethylbenzene	44.	ug/kg	16.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	16.				
Ethyl ether	ND	ug/kg	16.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	99.0	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	127.	%					
Dibromofluoromethane	93.0	%					
SVOC's by GC/MS 8270				1	8270C	0218	12:45 0221 21:32 HL
Acenaphthene	ND	ug/kg	210				
Benzidine	ND	ug/kg	2100				
1,2,4-Trichlorobenzene	ND	ug/kg	210				
Hexachlorobenzene	ND	ug/kg	210				
Bis(2-chloroethyl)ether	ND	ug/kg	210				
1-Chloronaphthalene	ND	ug/kg	210				
2-Chloronaphthalene	ND	ug/kg	250				
1,2-Dichlorobenzene	ND	ug/kg	210				
1,3-Dichlorobenzene	ND	ug/kg	210				
1,4-Dichlorobenzene	ND	ug/kg	210				
3,3'-Dichlorobenzidine	ND	ug/kg	2100				
2,4-Dinitrotoluene	ND	ug/kg	250				
2,6-Dinitrotoluene	ND	ug/kg	210				
Azobenzene	ND	ug/kg	210				
Fluoranthene	ND	ug/kg	210				
4-Chlorophenyl phenyl ether	ND	ug/kg	210				
4-Bromophenyl phenyl ether	ND	ug/kg	210				
Bis(2-chloroisopropyl)ether	ND	ug/kg	210				
Bis(2-chloroethoxy)methane	ND	ug/kg	210				
Hexachlorobutadiene	ND	ug/kg	420				
Hexachlorocyclopentadiene	ND	ug/kg	420				
Hexachloroethane	ND	ug/kg	210				
Isophorone	ND	ug/kg	210				
Naphthalene	ND	ug/kg	210				
Nitrobenzene	ND	ug/kg	210				
NDPA/DPA	ND	ug/kg	620				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-04  
MW/CB-2 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0218 12:45	0221 21:32	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	210				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	420				
Butyl benzyl phthalate	ND	ug/kg	210				
Di-n-butylphthalate	ND	ug/kg	210				
Di-n-octylphthalate	ND	ug/kg	210				
Diethyl phthalate	ND	ug/kg	210				
Dimethyl phthalate	ND	ug/kg	210				
Benzo(a)anthracene	ND	ug/kg	210				
Benzo(a)pyrene	ND	ug/kg	210				
Benzo(b)fluoranthene	ND	ug/kg	210				
Benzo(k)fluoranthene	ND	ug/kg	210				
Chrysene	ND	ug/kg	210				
Acenaphthylene	ND	ug/kg	210				
Anthracene	ND	ug/kg	210				
Benzo(ghi)perylene	ND	ug/kg	210				
Fluorene	ND	ug/kg	210				
Phenanthrene	ND	ug/kg	210				
Dibenzo(a,h)anthracene	ND	ug/kg	210				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	210				
Pyrene	ND	ug/kg	210				
Benzo(e)pyrene	ND	ug/kg	210				
Biphenyl	ND	ug/kg	210				
Perylene	ND	ug/kg	210				
Aniline	ND	ug/kg	420				
4-Chloroaniline	ND	ug/kg	210				
1-Methylnaphthalene	ND	ug/kg	210				
2-Nitroaniline	ND	ug/kg	210				
3-Nitroaniline	ND	ug/kg	210				
4-Nitroaniline	ND	ug/kg	290				
Dibenzofuran	ND	ug/kg	210				
a,a-Dimethylphenethylamine	ND	ug/kg	2100				
Hexachloropropene	ND	ug/kg	420				
Nitrosodi-n-butylamine	ND	ug/kg	420				
2-Methylnaphthalene	ND	ug/kg	330				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	830				
Pentachlorobenzene	ND	ug/kg	830				
a-Naphthylamine	ND	ug/kg	830				
b-Naphthylamine	ND	ug/kg	830				
Phenacetin	ND	ug/kg	420				
Dimethoate	ND	ug/kg	830				
4-Aminobiphenyl	ND	ug/kg	420				
Pentachloronitrobenzene	ND	ug/kg	420				
Isodrin	ND	ug/kg	420				
p-Dimethylaminoazobenzene	ND	ug/kg	420				
Chlorobenzilate	ND	ug/kg	830				
3-Methylcholanthrene	ND	ug/kg	830				
Ethyl Methanesulfonate	ND	ug/kg	620				
Acetophenone	ND	ug/kg	830				
Nitrosodipiperidine	ND	ug/kg	830				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-04  
 MW/CB-2 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0218 12:45	0221 21:32 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	420				
n-Nitrosodimethylamine	ND	ug/kg	2100				
2,4,6-Trichlorophenol	ND	ug/kg	210				
p-Chloro-m-cresol	ND	ug/kg	210				
2-Chlorophenol	ND	ug/kg	250				
2,4-Dichlorophenol	ND	ug/kg	420				
2,4-Dimethylphenol	ND	ug/kg	420				
2-Nitrophenol	ND	ug/kg	830				
4-Nitrophenol	ND	ug/kg	420				
2,4-Dinitrophenol	ND	ug/kg	830				
4,6-Dinitro-o-cresol	ND	ug/kg	830				
Pentachlorophenol	ND	ug/kg	830				
Phenol	ND	ug/kg	290				
2-Methylphenol	ND	ug/kg	250				
3-Methylphenol/4-Methylphenol	ND	ug/kg	250				
2,4,5-Trichlorophenol	ND	ug/kg	210				
2,6-Dichlorophenol	ND	ug/kg	420				
Benzoic Acid	ND	ug/kg	2100				
Benzyl Alcohol	ND	ug/kg	420				
Carbazole	ND	ug/kg	210				
Pyridine	ND	ug/kg	2100				
2-Picoline	ND	ug/kg	830				
Pronamide	ND	ug/kg	830				
Methyl methanesulfonate	ND	ug/kg	830				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	81.0	%	25-120				
Phenol-d6	95.0	%	10-120				
Nitrobenzene-d5	85.0	%	23-120				
2-Fluorobiphenyl	75.0	%	30-120				
2,4,6-Tribromophenol	69.0	%	19-120				
4-Terphenyl-d14	75.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0218 12:45	0221 20:56 RL
Acenaphthene	ND	ug/kg	8.3				
2-Chloronaphthalene	ND	ug/kg	8.3				
Fluoranthene	ND	ug/kg	8.3				
Hexachlorobutadiene	ND	ug/kg	21.				
Naphthalene	22.	ug/kg	8.3				
Benzo(a)anthracene	ND	ug/kg	8.3				
Benzo(a)pyrene	ND	ug/kg	8.3				
Benzo(b)fluoranthene	ND	ug/kg	8.3				
Benzo(k)fluoranthene	ND	ug/kg	8.3				
Chrysene	ND	ug/kg	8.3				
Acenaphthylene	ND	ug/kg	8.3				
Anthracene	ND	ug/kg	8.3				
Benzo(ghi)perylene	ND	ug/kg	8.3				
Fluorene	21.	ug/kg	8.3				
Phenanthrene	ND	ug/kg	8.3				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-04  
 MW/CB-2 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0218 12:45	0221 20:56 RL
Dibenzo(a,h)anthracene	ND	ug/kg	8.3				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	8.3				
Pyrene	ND	ug/kg	8.3				
1-Methylnaphthalene	120	ug/kg	8.3				
2-Methylnaphthalene	190	ug/kg	8.3				
Pentachlorophenol	ND	ug/kg	33.				
Hexachlorobenzene	ND	ug/kg	33.				
Perylene	ND	ug/kg	8.3				
Biphenyl	ND	ug/kg	8.3				
2,6-Dimethylnaphthalene	260	ug/kg	8.3				
1-Methylphenanthrene	ND	ug/kg	8.3				
Benzo(e)Pyrene	ND	ug/kg	8.3				
Hexachloroethane	ND	ug/kg	33.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	72.0	%	25-120				
Phenol-d6	91.0	%	10-120				
Nitrobenzene-d5	75.0	%	23-120				
2-Fluorobiphenyl	62.0	%	30-120				
2,4,6-Tribromophenol	80.0	%	19-120				
4-Terphenyl-d14	78.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0218 10:30	0222 21:53 JB
Aroclor 1221	ND	ug/kg	41.7				
Aroclor 1232	ND	ug/kg	41.7				
Aroclor 1242/1016	ND	ug/kg	41.7				
Aroclor 1248	ND	ug/kg	41.7				
Aroclor 1254	ND	ug/kg	41.7				
Aroclor 1260	ND	ug/kg	41.7				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	75.0	%	30-150				
Decachlorobiphenyl	70.0	%	30-150				
Organochlorine Pesticides				1	8081	0218 10:15	0224 05:38 BW
Delta-BHC	ND	ug/kg	4.17				
Lindane	ND	ug/kg	4.17				
Alpha-BHC	ND	ug/kg	4.17				
Beta-BHC	ND	ug/kg	4.17				
Heptachlor	ND	ug/kg	4.17				
Aldrin	ND	ug/kg	4.17				
Heptachlor epoxide	ND	ug/kg	4.17				
Endrin	ND	ug/kg	4.17				
Endrin aldehyde	ND	ug/kg	4.17				
Endrin ketone	ND	ug/kg	4.17				
Dieldrin	ND	ug/kg	4.17				
4,4'-DDE	ND	ug/kg	4.17				
4,4'-DDD	ND	ug/kg	4.17				
4,4'-DDT	ND	ug/kg	4.17				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-04  
MW/CB-2 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0218 10:15	0224 05:38	BW
Endosulfan I	ND	ug/kg	4.17				
Endosulfan II	ND	ug/kg	4.17				
Endosulfan sulfate	ND	ug/kg	4.17				
Methoxychlor	ND	ug/kg	4.17				
Toxaphene	ND	ug/kg	16.7				
Chlordane	ND	ug/kg	16.7				
cis-Chlordane	ND	ug/kg	4.17				
trans-Chlordane	ND	ug/kg	4.17				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	59.0	%		30-150			
Decachlorobiphenyl	52.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0501658-05	Date Collected: 16-FEB-2005 11:00
MW/CB-3 (20'-22')	Date Received : 17-FEB-2005
Sample Matrix: SOIL	Date Reported : 24-FEB-2005
Condition of Sample: Satisfactory	Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	93.	%	0.10	30 2540G		0218 14:17	LC
Total Metals				1 3051			
Aluminum, Total	3200	mg/kg	4.3	1 6010B	0218 14:00	0221 12:08	RW
Antimony, Total	ND	mg/kg	2.1	1 6010B	0218 14:00	0221 12:08	RW
Arsenic, Total	1.4	mg/kg	0.43	1 6010B	0218 14:00	0221 12:08	RW
Barium, Total	23.	mg/kg	0.43	1 6010B	0218 14:00	0221 12:08	RW
Beryllium, Total	ND	mg/kg	0.21	1 6010B	0218 14:00	0221 12:08	RW
Cadmium, Total	ND	mg/kg	0.43	1 6010B	0218 14:00	0221 12:08	RW
Calcium, Total	3300	mg/kg	4.3	1 6010B	0218 14:00	0221 12:08	RW
Chromium, Total	6.4	mg/kg	0.43	1 6010B	0218 14:00	0221 12:08	RW
Cobalt, Total	3.2	mg/kg	0.86	1 6010B	0218 14:00	0221 12:08	RW
Copper, Total	9.8	mg/kg	0.43	1 6010B	0218 14:00	0221 12:08	RW
Iron, Total	7500	mg/kg	2.1	1 6010B	0218 14:00	0221 12:08	RW
Lead, Total	6.0	mg/kg	2.1	1 6010B	0218 14:00	0221 12:08	RW
Magnesium, Total	1900	mg/kg	4.3	1 6010B	0218 14:00	0221 12:08	RW
Manganese, Total	250	mg/kg	0.43	1 6010B	0218 14:00	0221 12:08	RW
Mercury, Total	ND	mg/kg	0.08	1 7471A	0222 19:50	0223 14:47	DM
Nickel, Total	7.1	mg/kg	1.1	1 6010B	0218 14:00	0221 12:08	RW
Potassium, Total	410	mg/kg	110	1 6010B	0218 14:00	0221 12:08	RW
Selenium, Total	ND	mg/kg	0.86	1 6010B	0218 14:00	0221 12:08	RW
Silver, Total	ND	mg/kg	0.43	1 6010B	0218 14:00	0221 12:08	RW
Sodium, Total	130	mg/kg	86.	1 6010B	0218 14:00	0221 12:08	RW
Thallium, Total	ND	mg/kg	0.43	1 6010B	0218 14:00	0221 12:08	RW
Vanadium, Total	6.9	mg/kg	0.43	1 6010B	0218 14:00	0221 12:08	RW
Zinc, Total	19.	mg/kg	2.1	1 6010B	0218 14:00	0221 12:08	RW
Volatile Organics by GC/MS 8260				1 8260B		0220 01:18	BT
Methylene chloride	ND	ug/kg	27.				
1,1-Dichloroethane	ND	ug/kg	4.0				
Chloroform	ND	ug/kg	4.0				
Carbon tetrachloride	ND	ug/kg	2.7				
1,2-Dichloropropane	ND	ug/kg	9.4				
Dibromochloromethane	ND	ug/kg	2.7				
1,1,2-Trichloroethane	ND	ug/kg	4.0				
Tetrachloroethene	ND	ug/kg	2.7				
Chlorobenzene	ND	ug/kg	2.7				
Trichlorofluoromethane	ND	ug/kg	13.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-05  
 MW/CB-3 (20'-22')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0220	01:18 BT
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	13.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.0				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	13.				
Bromomethane	ND	ug/kg	5.4				
Vinyl chloride	ND	ug/kg	5.4				
Chloroethane	ND	ug/kg	5.4				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.0				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	13.				
1,3-Dichlorobenzene	ND	ug/kg	13.				
1,4-Dichlorobenzene	ND	ug/kg	13.				
Methyl tert butyl ether	ND	ug/kg	5.4				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	67.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	13.				
Tetrahydrofuran	ND	ug/kg	54.				
2,2-Dichloropropane	ND	ug/kg	13.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	13.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	13.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-05  
MW/CB-3 (20'-22')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0220	01:18 BT
tert-Butylbenzene	ND	ug/kg	13.				
o-Chlorotoluene	ND	ug/kg	13.				
p-Chlorotoluene	ND	ug/kg	13.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	13.				
Hexachlorobutadiene	ND	ug/kg	13.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	13.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	13.				
1,2,4-Trichlorobenzene	ND	ug/kg	13.				
1,3,5-Trimethylbenzene	ND	ug/kg	13.				
1,2,4-Trimethylbenzene	ND	ug/kg	13.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	13.				
Ethyl ether	ND	ug/kg	13.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	95.0	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	101.	%					
Dibromofluoromethane	88.0	%					
SVOC's by GC/MS 8270				1	8270C	0218	12:45 0221 21:57 HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	360				
Hexachlorocyclopentadiene	ND	ug/kg	360				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	540				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-05  
 MW/CB-3 (20'-22')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0218 12:45	0221 21:57	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	360				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	360				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	250				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	360				
Nitrosodi-n-butylamine	ND	ug/kg	360				
2-Methylnaphthalene	ND	ug/kg	290				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	720				
Pentachlorobenzene	ND	ug/kg	720				
a-Naphthylamine	ND	ug/kg	720				
b-Naphthylamine	ND	ug/kg	720				
Phenacetin	ND	ug/kg	360				
Dimethoate	ND	ug/kg	720				
4-Aminobiphenyl	ND	ug/kg	360				
Pentachloronitrobenzene	ND	ug/kg	360				
Isodrin	ND	ug/kg	360				
p-Dimethylaminoazobenzene	ND	ug/kg	360				
Chlorobenzilate	ND	ug/kg	720				
3-Methylcholanthrene	ND	ug/kg	720				
Ethyl Methanesulfonate	ND	ug/kg	540				
Acetophenone	ND	ug/kg	720				
Nitrosodipiperidine	ND	ug/kg	720				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-05  
 MW/CB-3 (20'-22')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0218 12:45	0221 21:57 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	360				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	360				
2,4-Dimethylphenol	ND	ug/kg	360				
2-Nitrophenol	ND	ug/kg	720				
4-Nitrophenol	ND	ug/kg	360				
2,4-Dinitrophenol	ND	ug/kg	720				
4,6-Dinitro-o-cresol	ND	ug/kg	720				
Pentachlorophenol	ND	ug/kg	720				
Phenol	ND	ug/kg	250				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	360				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	360				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	720				
Pronamide	ND	ug/kg	720				
Methyl methanesulfonate	ND	ug/kg	720				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	39.0	%	25-120				
Phenol-d6	46.0	%	10-120				
Nitrobenzene-d5	40.0	%	23-120				
2-Fluorobiphenyl	36.0	%	30-120				
2,4,6-Tribromophenol	37.0	%	19-120				
4-Terphenyl-d14	50.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0218 12:45	0221 21:39 RL
Acenaphthene	ND	ug/kg	7.2				
2-Chloronaphthalene	ND	ug/kg	7.2				
Fluoranthene	ND	ug/kg	7.2				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.2				
Benzo(a)anthracene	ND	ug/kg	7.2				
Benzo(a)pyrene	ND	ug/kg	7.2				
Benzo(b)fluoranthene	ND	ug/kg	7.2				
Benzo(k)fluoranthene	ND	ug/kg	7.2				
Chrysene	ND	ug/kg	7.2				
Acenaphthylene	ND	ug/kg	7.2				
Anthracene	ND	ug/kg	7.2				
Benzo(ghi)perylene	ND	ug/kg	7.2				
Fluorene	ND	ug/kg	7.2				
Phenanthrene	ND	ug/kg	7.2				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-05  
 MW/CB-3 (20'-22')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0218 12:45	0221 21:39 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.2				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.2				
Pyrene	ND	ug/kg	7.2				
1-Methylnaphthalene	ND	ug/kg	7.2				
2-Methylnaphthalene	ND	ug/kg	7.2				
Pentachlorophenol	ND	ug/kg	29.				
Hexachlorobenzene	ND	ug/kg	29.				
Perylene	ND	ug/kg	7.2				
Biphenyl	ND	ug/kg	7.2				
2,6-Dimethylnaphthalene	ND	ug/kg	7.2				
1-Methylphenanthrene	ND	ug/kg	7.2				
Benzo(e)Pyrene	ND	ug/kg	7.2				
Hexachloroethane	ND	ug/kg	29.				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	36.0	%					25-120
Phenol-d6	48.0	%					10-120
Nitrobenzene-d5	37.0	%					23-120
2-Fluorobiphenyl	35.0	%					30-120
2,4,6-Tribromophenol	52.0	%					19-120
4-Terphenyl-d14	47.0	%					18-120
Polychlorinated Biphenyls				1	8082	0218 10:30	0221 12:38 JB
Aroclor 1221	ND	ug/kg	35.8				
Aroclor 1232	ND	ug/kg	35.8				
Aroclor 1242/1016	ND	ug/kg	35.8				
Aroclor 1248	ND	ug/kg	35.8				
Aroclor 1254	ND	ug/kg	35.8				
Aroclor 1260	ND	ug/kg	35.8				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	67.0	%					30-150
Decachlorobiphenyl	86.0	%					30-150
Organochlorine Pesticides				1	8081	0218 10:15	0224 04:40 BW
Delta-BHC	ND	ug/kg	3.58				
Lindane	ND	ug/kg	3.58				
Alpha-BHC	ND	ug/kg	3.58				
Beta-BHC	ND	ug/kg	3.58				
Heptachlor	ND	ug/kg	3.58				
Aldrin	ND	ug/kg	3.58				
Heptachlor epoxide	ND	ug/kg	3.58				
Endrin	ND	ug/kg	3.58				
Endrin aldehyde	ND	ug/kg	3.58				
Endrin ketone	ND	ug/kg	3.58				
Dieldrin	ND	ug/kg	3.58				
4,4'-DDE	ND	ug/kg	3.58				
4,4'-DDD	ND	ug/kg	3.58				
4,4'-DDT	ND	ug/kg	3.58				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-05  
MW/CB-3 (20'-22')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0218 10:15	0224 04:40	BW
Endosulfan I	ND	ug/kg	3.58				
Endosulfan II	ND	ug/kg	3.58				
Endosulfan sulfate	ND	ug/kg	3.58				
Methoxychlor	ND	ug/kg	3.58				
Toxaphene	ND	ug/kg	14.3				
Chlordane	ND	ug/kg	14.3				
cis-Chlordane	ND	ug/kg	3.58				
trans-Chlordane	ND	ug/kg	3.58				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	52.0	%		30-150			
Decachlorobiphenyl	51.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0501658-06      Date Collected: 16-FEB-2005 12:00  
  FIELD BLANK      Date Received : 17-FEB-2005  
Sample Matrix: WATER      Date Reported : 24-FEB-2005  
  
Condition of Sample: Satisfactory      Field Prep: None  
  
Number & Type of Containers: 6-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Metals				1	3015		
Aluminum, Total	ND	mg/l	0.10	1 6010B	0218 15:30	0221 14:33	RW
Antimony, Total	ND	mg/l	0.050	1 6010B	0218 15:30	0221 14:33	RW
Arsenic, Total	ND	mg/l	0.005	1 6010B	0218 15:30	0221 14:33	RW
Barium, Total	ND	mg/l	0.01	1 6010B	0218 15:30	0221 14:33	RW
Beryllium, Total	ND	mg/l	0.005	1 6010B	0218 15:30	0221 14:33	RW
Cadmium, Total	ND	mg/l	0.005	1 6010B	0218 15:30	0221 14:33	RW
Calcium, Total	0.25	mg/l	0.10	1 6010B	0218 15:30	0221 14:33	RW
Chromium, Total	ND	mg/l	0.01	1 6010B	0218 15:30	0221 14:33	RW
Cobalt, Total	ND	mg/l	0.02	1 6010B	0218 15:30	0221 14:33	RW
Copper, Total	ND	mg/l	0.01	1 6010B	0218 15:30	0221 14:33	RW
Iron, Total	0.07	mg/l	0.05	1 6010B	0218 15:30	0221 14:33	RW
Lead, Total	ND	mg/l	0.050	1 6010B	0218 15:30	0221 14:33	RW
Magnesium, Total	ND	mg/l	0.10	1 6010B	0218 15:30	0221 14:33	RW
Manganese, Total	ND	mg/l	0.01	1 6010B	0218 15:30	0221 14:33	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0222 16:45	0223 09:21	DM
Nickel, Total	ND	mg/l	0.025	1 6010B	0218 15:30	0221 14:33	RW
Potassium, Total	ND	mg/l	2.5	1 6010B	0218 15:30	0221 14:33	RW
Selenium, Total	ND	mg/l	0.005	1 6010B	0218 15:30	0221 14:33	RW
Silver, Total	ND	mg/l	0.007	1 6010B	0218 15:30	0221 14:33	RW
Sodium, Total	ND	mg/l	2.0	1 6010B	0218 15:30	0221 14:33	RW
Thallium, Total	ND	mg/l	0.005	1 6010B	0218 15:30	0221 14:33	RW
Vanadium, Total	ND	mg/l	0.01	1 6010B	0218 15:30	0221 14:33	RW
Zinc, Total	ND	mg/l	0.05	1 6010B	0218 15:30	0221 14:33	RW
Volatile Organics by GC/MS 8260				1	8260B	0224 09:45	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-06  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0224 09:45 BT	
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-06  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0224	09:45 BT
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	117.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	106.	%					
Dibromofluoromethane	104.	%					
SVOC's by GC/MS 8270				1	8270C	0218	17:45 0221 14:18 HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-06  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0218 17:45	0221 14:18	HL
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-06  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0218 17:45	0221 14:18 HL
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	37.0	%					
Phenol-d6	28.0	%					
Nitrobenzene-d5	63.0	%					
2-Fluorobiphenyl	59.0	%					
2,4,6-Tribromophenol	60.0	%					
4-Terphenyl-d14	79.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0218 17:45	0222 13:40 RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-06  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0218 17:45	0222 13:40 RL
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	37.0	%					21-120
Phenol-d6	31.0	%					10-120
Nitrobenzene-d5	60.0	%					23-120
2-Fluorobiphenyl	59.0	%					43-120
2,4,6-Tribromophenol	73.0	%					10-120
4-Terphenyl-d14	70.0	%					33-120
Polychlorinated Biphenyls				1	8082	0218 17:35	0223 00:44 JB
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	80.0	%					30-150
Decachlorobiphenyl	63.0	%					30-150
Organochlorine Pesticides				1	8081	0218 19:45	0223 20:06 BW
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-06  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0218 19:45	0223 20:06	BW
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	51.0	%		30-150			
Decachlorobiphenyl	39.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0501658-07		<b>Date Collected:</b> 14-FEB-2005 14:00
	TRIP BLANK	<b>Date Received :</b> 17-FEB-2005
<b>Sample Matrix:</b>	WATER	<b>Date Reported :</b> 24-FEB-2005
<b>Condition of Sample:</b>	Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP      ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B	0224 10:21	BT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	0.50			
o-Xylene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,4-Dichlorobutane	ND	ug/l	5.0			
Iodomethane	ND	ug/l	5.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-07  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0224	10:21 BT
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	117.	%					
Toluene-d8	102.	%					
4-Bromofluorobenzene	112.	%					
Dibromofluoromethane	105.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0501658-08	Date Collected:	16-FEB-2005 14:35
	MW/CB-4 (14'-16')	Date Received :	17-FEB-2005
Sample Matrix:	SOIL	Date Reported :	24-FEB-2005
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers: 1-Vial			

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	82.	%	0.10	30 2540G		0221 09:18	LC
Volatile Organics by GC/MS 8260				1 8260B		0220 02:35	BT
Methylene chloride	ND	ug/kg	30.				
1,1-Dichloroethane	ND	ug/kg	4.6				
Chloroform	ND	ug/kg	4.6				
Carbon tetrachloride	ND	ug/kg	3.0				
1,2-Dichloropropane	ND	ug/kg	11.				
Dibromochloromethane	ND	ug/kg	3.0				
1,1,2-Trichloroethane	ND	ug/kg	4.6				
Tetrachloroethene	ND	ug/kg	3.0				
Chlorobenzene	ND	ug/kg	3.0				
Trichlorofluoromethane	ND	ug/kg	15.				
1,2-Dichloroethane	ND	ug/kg	3.0				
1,1,1-Trichloroethane	ND	ug/kg	3.0				
Bromodichloromethane	ND	ug/kg	3.0				
trans-1,3-Dichloropropene	ND	ug/kg	3.0				
cis-1,3-Dichloropropene	ND	ug/kg	3.0				
1,1-Dichloropropene	ND	ug/kg	15.				
Bromoform	ND	ug/kg	12.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.0				
Benzene	ND	ug/kg	3.0				
Toluene	ND	ug/kg	4.6				
Ethylbenzene	ND	ug/kg	3.0				
Chloromethane	ND	ug/kg	15.				
Bromomethane	ND	ug/kg	6.1				
Vinyl chloride	ND	ug/kg	6.1				
Chloroethane	ND	ug/kg	6.1				
1,1-Dichloroethene	ND	ug/kg	3.0				
trans-1,2-Dichloroethene	ND	ug/kg	4.6				
Trichloroethene	ND	ug/kg	3.0				
1,2-Dichlorobenzene	ND	ug/kg	15.				
1,3-Dichlorobenzene	ND	ug/kg	15.				
1,4-Dichlorobenzene	ND	ug/kg	15.				
Methyl tert butyl ether	ND	ug/kg	6.1				
p/m-Xylene	8.5	ug/kg	3.0				
o-Xylene	ND	ug/kg	3.0				
cis-1,2-Dichloroethene	ND	ug/kg	3.0				
Dibromomethane	ND	ug/kg	30.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501658-08  
 MW/CB-4 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0220	02:35 BT
1,4-Dichlorobutane	ND	ug/kg	30.				
Iodomethane	ND	ug/kg	30.				
1,2,3-Trichloropropane	ND	ug/kg	30.				
Styrene	ND	ug/kg	3.0				
Dichlorodifluoromethane	ND	ug/kg	30.				
Acetone	54.	ug/kg	30.				
Carbon disulfide	ND	ug/kg	30.				
2-Butanone	ND	ug/kg	30.				
Vinyl acetate	ND	ug/kg	30.				
4-Methyl-2-pentanone	ND	ug/kg	30.				
2-Hexanone	ND	ug/kg	30.				
Ethyl methacrylate	ND	ug/kg	30.				
Acrolein	ND	ug/kg	76.				
Acrylonitrile	ND	ug/kg	30.				
Bromochloromethane	ND	ug/kg	15.				
Tetrahydrofuran	ND	ug/kg	61.				
2,2-Dichloropropane	ND	ug/kg	15.				
1,2-Dibromoethane	ND	ug/kg	12.				
1,3-Dichloropropane	ND	ug/kg	15.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.0				
Bromobenzene	ND	ug/kg	15.				
n-Butylbenzene	ND	ug/kg	3.0				
sec-Butylbenzene	ND	ug/kg	3.0				
tert-Butylbenzene	ND	ug/kg	15.				
o-Chlorotoluene	ND	ug/kg	15.				
p-Chlorotoluene	ND	ug/kg	15.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	15.				
Hexachlorobutadiene	ND	ug/kg	15.				
Isopropylbenzene	ND	ug/kg	3.0				
p-Isopropyltoluene	ND	ug/kg	3.0				
Naphthalene	ND	ug/kg	15.				
n-Propylbenzene	ND	ug/kg	3.0				
1,2,3-Trichlorobenzene	ND	ug/kg	15.				
1,2,4-Trichlorobenzene	ND	ug/kg	15.				
1,3,5-Trimethylbenzene	ND	ug/kg	15.				
1,2,4-Trimethylbenzene	ND	ug/kg	15.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	15.				
Ethyl ether	ND	ug/kg	15.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	97.0	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	104.	%					
Dibromofluoromethane	92.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS**

Laboratory Job Number: L0501658

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total for sample(s) 01-04 (L0501572-02, WG194544-1)					
Solids, Total	71.	72.	%	1	
Solids, Total for sample(s) 05 (L0501658-05, WG194569-1)					
Solids, Total	93.	93.	%	0	
Solids, Total for sample(s) 08 (L0501658-08, WG194668-1)					
Solids, Total	82.	82.	%	0	
Total Metals for sample(s) 06 (L0501354-02, WG194601-1)					
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Nickel, Total	ND	ND	mg/l	NC	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Thallium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals for sample(s) 01-05 (L0501658-01, WG194621-1)					
Aluminum, Total	4900	4800	mg/kg	2	35
Antimony, Total	ND	ND	mg/kg	NC	35
Arsenic, Total	2.3	2.5	mg/kg	8	35
Barium, Total	21.	22.	mg/kg	5	35
Beryllium, Total	ND	ND	mg/kg	NC	35
Cadmium, Total	ND	ND	mg/kg	NC	35
Calcium, Total	2200	3500	mg/kg	46	35
Chromium, Total	7.9	8.0	mg/kg	1	35
Cobalt, Total	4.2	4.3	mg/kg	2	35
Copper, Total	10.	12.	mg/kg	18	35
Iron, Total	10000	10000	mg/kg	0	35
Lead, Total	12.	14.	mg/kg	15	35
Magnesium, Total	2300	2400	mg/kg	4	35
Manganese, Total	240	240	mg/kg	0	35
Nickel, Total	7.8	7.6	mg/kg	3	35
Potassium, Total	270	280	mg/kg	4	35
Selenium, Total	ND	ND	mg/kg	NC	35
Silver, Total	ND	ND	mg/kg	NC	35
Sodium, Total	130	150	mg/kg	14	35
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	9.1	9.2	mg/kg	1	35
Zinc, Total	27.	28.	mg/kg	4	35

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0501658

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Total Metals for sample(s) 06 (L0501658-06, WG194838-3)					
Mercury, Total	ND	ND	mg/l	NC	20
Total Metals for sample(s) 01-05 (L0501658-01, WG194841-3)					
Mercury, Total	ND	ND	mg/kg	NC	35

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0501658

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 06 (WG194601-4)		
Aluminum, Total	105	75-125
Antimony, Total	101	75-125
Arsenic, Total	105	75-125
Barium, Total	100	75-125
Beryllium, Total	100	75-125
Cadmium, Total	105	75-125
Calcium, Total	97	75-125
Chromium, Total	100	75-125
Cobalt, Total	100	75-125
Copper, Total	100	75-125
Iron, Total	97	75-125
Lead, Total	104	75-125
Magnesium, Total	100	75-125
Manganese, Total	100	75-125
Nickel, Total	98	75-125
Potassium, Total	100	75-125
Selenium, Total	112	75-125
Silver, Total	101	75-125
Sodium, Total	100	75-125
Thallium, Total	98	75-125
Vanadium, Total	100	75-125
Zinc, Total	98	75-125
Total Metals LCS for sample(s) 01-05 (WG194621-4)		
Aluminum, Total	98	70-140
Antimony, Total	92	70-140
Arsenic, Total	104	70-140
Barium, Total	93	70-140
Beryllium, Total	92	70-140
Cadmium, Total	100	70-140
Calcium, Total	89	70-140
Chromium, Total	92	70-140
Cobalt, Total	92	70-140
Copper, Total	92	70-140
Iron, Total	94	70-140
Lead, Total	105	70-140
Magnesium, Total	94	70-140
Manganese, Total	92	70-140
Nickel, Total	92	70-140
Potassium, Total	86	70-140
Selenium, Total	106	70-140
Silver, Total	93	70-140
Sodium, Total	99	70-140
Thallium, Total	100	70-140
Vanadium, Total	92	70-140
Zinc, Total	92	70-140

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501658

Continued

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 06 (WG194838-1)		
Mercury, Total	100	70-130
Total Metals LCS for sample(s) 01-05 (WG194841-1)		
Mercury, Total	94	70-130
Volatile Organics by GC/MS 8260 LCS for sample(s) 01,03-05,08 (WG194657-5)		
Chlorobenzene	101	
Benzene	99	
Toluene	97	
1,1-Dichloroethene	102	
Trichloroethene	99	
Surrogate(s)		
1,2-Dichloroethane-d4	99	
Toluene-d8	100	
4-Bromofluorobenzene	103	
Dibromofluoromethane	97	
Volatile Organics by GC/MS 8260 LCS for sample(s) 06-07 (WG194703-7)		
Chlorobenzene	89	
Benzene	89	
Toluene	88	
1,1-Dichloroethene	92	
Trichloroethene	87	
Surrogate(s)		
1,2-Dichloroethane-d4	113	
Toluene-d8	101	
4-Bromofluorobenzene	104	
Dibromofluoromethane	108	
Volatile Organics by GC/MS 8260 LCS for sample(s) 02 (WG194657-7)		
Chlorobenzene	96	
Benzene	98	
Toluene	94	
1,1-Dichloroethene	98	
Trichloroethene	95	
Surrogate(s)		
1,2-Dichloroethane-d4	100	
Toluene-d8	96	
4-Bromofluorobenzene	96	
Dibromofluoromethane	96	
SVOC's by GC/MS 8270 LCS for sample(s) 06 (WG194625-2)		
Acenaphthene	60	
1,2,4-Trichlorobenzene	56	
2-Chloronaphthalene	58	

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501658

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 06 (WG194625-2)		
1,2-Dichlorobenzene	52	
1,4-Dichlorobenzene	51	
2,4-Dinitrotoluene	74	
2,6-Dinitrotoluene	67	
Fluoranthene	77	
4-Chlorophenyl phenyl ether	62	
n-Nitrosodi-n-propylamine	48	
Butyl benzyl phthalate	78	
Anthracene	45	
Pyrene	76	
Hexachloropropene	57	
P-Chloro-M-Cresol	56	
2-Chlorophenol	50	
2-Nitrophenol	51	
4-Nitrophenol	37	
2,4-Dinitrophenol	65	
Pentachlorophenol	75	
Phenol	24	
Surrogate(s)		
2-Fluorophenol	38	
Phenol-d6	30	
Nitrobenzene-d5	62	
2-Fluorobiphenyl	61	
2,4,6-Tribromophenol	71	
4-Terphenyl-d14	79	
SVOC's by GC/MS 8270 LCS for sample(s) 01-05 (WG194629-2)		
Acenaphthene	55	31-137
1,2,4-Trichlorobenzene	50	38-107
2-Chloronaphthalene	53	
1,2-Dichlorobenzene	49	
1,4-Dichlorobenzene	47	28-104
2,4-Dinitrotoluene	71	28-89
2,6-Dinitrotoluene	71	
Fluoranthene	71	
4-Chlorophenyl phenyl ether	61	
n-Nitrosodi-n-propylamine	41	41-126
Butyl benzyl phthalate	71	
Anthracene	41	
Pyrene	70	35-142
Hexachloropropene	50	
P-Chloro-M-Cresol	61	26-103
2-Chlorophenol	47	25-102
2-Nitrophenol	47	
4-Nitrophenol	67	11-114
2,4-Dinitrophenol	35	
Pentachlorophenol	57	17-109

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501658

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 01-05 (WG194629-2)		
Phenol	44	26-90
Surrogate(s)		
2-Fluorophenol	51	25-120
Phenol-d6	58	10-120
Nitrobenzene-d5	53	23-120
2-Fluorobiphenyl	55	30-120
2,4,6-Tribromophenol	67	19-120
4-Terphenyl-d14	70	18-120
PAH by GC/MS SIM 8270M LCS for sample(s) 06 (WG194626-2)		
Acenaphthene	59	46-118
2-Chloronaphthalene	60	
Fluoranthene	74	
Anthracene	45	
Pyrene	78	26-127
Pentachlorophenol	90	9-103
Surrogate(s)		
2-Fluorophenol	43	21-120
Phenol-d6	38	10-120
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	63	43-120
2,4,6-Tribromophenol	85	10-120
4-Terphenyl-d14	86	33-120
PAH by GC/MS SIM 8270M LCS for sample(s) 01-05 (WG194630-2)		
Acenaphthene	54	40-140
2-Chloronaphthalene	50	40-140
Fluoranthene	61	40-140
Anthracene	43	40-140
Pyrene	77	40-140
Pentachlorophenol	70	40-140
Surrogate(s)		
2-Fluorophenol	55	25-120
Phenol-d6	71	10-120
Nitrobenzene-d5	58	23-120
2-Fluorobiphenyl	52	30-120
2,4,6-Tribromophenol	84	19-120
4-Terphenyl-d14	63	18-120
Polychlorinated Biphenyls LCS for sample(s) 01-05 (WG194547-2)		
Aroclor 1242/1016	96	40-140
Aroclor 1260	92	40-140

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501658

Continued

Parameter	% Recovery	QC Criteria
Polychlorinated Biphenyls LCS for sample(s) 01-05 (WG194547-2)		
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	69	30-150
Decachlorobiphenyl	83	30-150
Polychlorinated Biphenyls LCS for sample(s) 06 (WG194624-2)		
Aroclor 1242/1016	95	30-150
Aroclor 1260	84	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	88	30-150
Decachlorobiphenyl	85	30-150
Organochlorine Pesticides LCS for sample(s) 01-05 (WG194548-2)		
Delta-BHC	54	
Lindane	57	46-127
Alpha-BHC	55	
Beta-BHC	48	
Heptachlor	61	35-130
Aldrin	58	34-132
Heptachlor epoxide	60	
Endrin	75	42-139
Endrin aldehyde	55	
Endrin ketone	58	
Dieldrin	65	31-134
4,4'-DDE	64	
4,4'-DDD	75	
4,4'-DDT	66	23-134
Endosulfan I	57	
Endosulfan II	61	
Endosulfan sulfate	51	
Methoxychlor	80	
cis-Chlordane	62	
trans-Chlordane	58	
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	53	30-150
Decachlorobiphenyl	62	30-150
Organochlorine Pesticides LCS for sample(s) 06 (WG194627-2)		
Delta-BHC	55	
Lindane	64	
Alpha-BHC	61	
Beta-BHC	53	
Heptachlor	68	
Aldrin	65	
Heptachlor epoxide	69	
Endrin	79	



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501658

Continued

Parameter	% Recovery	QC Criteria
Organochlorine Pesticides LCS for sample(s) 06 (WG194627-2)		
Endrin aldehyde	59	
Endrin ketone	56	
Dieldrin	71	
4,4'-DDE	71	
4,4'-DDD	75	
4,4'-DDT	67	
Endosulfan I	63	
Endosulfan II	59	
Endosulfan sulfate	47	
Methoxychlor	81	
cis-Chlordane	67	
trans-Chlordane	62	
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	49	30-150
Decachlorobiphenyl	30	30-150
Total Metals SPIKE for sample(s) 06 (L0501354-03, WG194601-2)		
Aluminum, Total	125	75-125
Antimony, Total	96	75-125
Arsenic, Total	107	75-125
Barium, Total	95	75-125
Beryllium, Total	96	75-125
Cadmium, Total	107	75-125
Calcium, Total	100	75-125
Chromium, Total	90	75-125
Cobalt, Total	94	75-125
Copper, Total	92	75-125
Iron, Total	50	75-125
Lead, Total	99	75-125
Magnesium, Total	0	75-125
Manganese, Total	98	75-125
Nickel, Total	89	75-125
Potassium, Total	200	75-125
Selenium, Total	98	75-125
Silver, Total	101	75-125
Sodium, Total	1000	75-125
Thallium, Total	112	75-125
Vanadium, Total	94	75-125
Zinc, Total	98	75-125
Total Metals SPIKE for sample(s) 01-05 (L0501658-01, WG194621-2)		
Aluminum, Total	1040	70-140
Antimony, Total	83	70-140
Arsenic, Total	96	70-140
Barium, Total	91	70-140
Beryllium, Total	92	70-140
Cadmium, Total	91	70-140

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501658

Continued

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Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 01-05 (L0501658-01, WG194621-2)		
Calcium, Total	185	70-140
Chromium, Total	105	70-140
Cobalt, Total	87	70-140
Copper, Total	102	70-140
Iron, Total	2310	70-140
Lead, Total	100	70-140
Magnesium, Total	231	70-140
Manganese, Total	92	70-140
Nickel, Total	89	70-140
Potassium, Total	125	70-140
Selenium, Total	98	70-140
Silver, Total	92	70-140
Sodium, Total	120	70-140
Thallium, Total	91	70-140
Vanadium, Total	87	70-140
Zinc, Total	102	70-140
Total Metals SPIKE for sample(s) 06 (L0501658-06, WG194838-2)		
Mercury, Total	120	70-130
Total Metals SPIKE for sample(s) 01-05 (L0501658-02, WG194841-2)		
Mercury, Total	118	70-130

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**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

**Laboratory Job Number: L0501658**

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-05,08 (L0501518-01, WG194657-2)					
Chlorobenzene	81	78	4		
Benzene	85	83	2		
Toluene	79	76	4		
1,1-Dichloroethene	80	78	3		
Trichloroethene	72	71	1		
Surrogate(s)					
1,2-Dichloroethane-d4	95	99	4		
Toluene-d8	101	102	1		
4-Bromofluorobenzene	106	108	2		
Dibromofluoromethane	94	96	2		
Volatile Organics by GC/MS 8260 for sample(s) 06-07 (L0501556-01, WG194703-2)					
Chlorobenzene	88	82	7		
Benzene	90	84	7		
Toluene	88	85	3		
1,1-Dichloroethene	100	91	9		
Trichloroethene	96	91	5		
Surrogate(s)					
1,2-Dichloroethane-d4	116	116	0		
Toluene-d8	101	99	2		
4-Bromofluorobenzene	104	105	1		
Dibromofluoromethane	108	110	2		
SVOC's by GC/MS 8270 for sample(s) 06 (L0501658-06, WG194625-4)					
Acenaphthene	59	59	0		
1,2,4-Trichlorobenzene	59	55	7		
2-Chloronaphthalene	63	59	7		
1,2-Dichlorobenzene	50	55	10		
1,4-Dichlorobenzene	50	50	0		
2,4-Dinitrotoluene	76	80	5		
2,6-Dinitrotoluene	76	80	5		
Fluoranthene	76	80	5		
4-Chlorophenyl phenyl ether	63	63	0		
n-Nitrosodi-n-propylamine	50	50	0		
Butyl benzyl phthalate	76	80	5		
Anthracene	42	46	9		
Pyrene	76	76	0		
Hexachloropropene	59	59	0		
P-Chloro-M-Cresol	63	61	3		
2-Chlorophenol	50	50	0		
2-Nitrophenol	55	55	0		
4-Nitrophenol	59	63	7		
2,4-Dinitrophenol	67	74	10		
Pentachlorophenol	74	78	5		
Phenol	38	38	0		

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0501658

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
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SVOC's by GC/MS 8270 for sample(s) 06 (L0501658-06, WG194625-4)

Surrogate(s)					
2-Fluorophenol	48	48	0		
Phenol-d6	49	49	0		
Nitrobenzene-d5	63	62	2		
2-Fluorobiphenyl	67	62	8		
2,4,6-Tribromophenol	68	71	4		
4-Terphenyl-d14	78	82	5		

SVOC's by GC/MS 8270 for sample(s) 01-05 (L0501658-03, WG194629-4)

Acenaphthene	69	58	17	50	31-137
1,2,4-Trichlorobenzene	63	55	14	50	38-107
2-Chloronaphthalene	66	61	8	50	
1,2-Dichlorobenzene	61	53	14	50	
1,4-Dichlorobenzene	58	50	15	50	28-104
2,4-Dinitrotoluene	82	71	14	50	28-89
2,6-Dinitrotoluene	82	74	10	50	
Fluoranthene	84	74	13	50	
4-Chlorophenyl phenyl ether	74	63	16	50	
n-Nitrosodi-n-propylamine	53	50	6	50	41-126
Butyl benzyl phthalate	84	74	13	50	
Anthracene	48	42	13	50	
Pyrene	84	71	17	50	35-142
Hexachloropropene	63	55	14	50	
P-Chloro-M-Cresol	74	66	11	50	26-103
2-Chlorophenol	58	55	5	50	25-102
2-Nitrophenol	58	53	9	50	
4-Nitrophenol	75	59	24	50	11-114
2,4-Dinitrophenol	67	44	41	50	
Pentachlorophenol	25	20	22	50	17-109
Phenol	58	54	7	50	26-90

Surrogate(s)					
2-Fluorophenol	63	59	7		25-120
Phenol-d6	74	70	6		10-120
Nitrobenzene-d5	66	62	6		23-120
2-Fluorobiphenyl	70	63	11		30-120
2,4,6-Tribromophenol	77	64	18		19-120
4-Terphenyl-d14	85	75	13		18-120

PAH by GC/MS SIM 8270M for sample(s) 06 (L0501658-06, WG194626-4)

Acenaphthene	59	55	7	40	46-118
2-Chloronaphthalene	55	55	0	40	
Fluoranthene	67	71	6	40	
Anthracene	42	42	0	40	
Pyrene	76	80	5	40	26-127
Pentachlorophenol	97	100	3	40	9-103

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0501658

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
PAH by GC/MS SIM 8270M for sample(s) 06 (L0501658-06, WG194626-4)					
Surrogate(s)					
2-Fluorophenol	53	53	0		21-120
Phenol-d6	59	58	2		10-120
Nitrobenzene-d5	67	65	3		23-120
2-Fluorobiphenyl	59	56	5		43-120
2,4,6-Tribromophenol	88	92	4		10-120
4-Terphenyl-d14	72	75	4		33-120
PAH by GC/MS SIM 8270M for sample(s) 01-05 (L0501658-03, WG194630-4)					
Acenaphthene	61	55	10	50	40-140
2-Chloronaphthalene	58	53	9	50	40-140
Fluoranthene	71	61	15	50	40-140
Anthracene	48	42	13	50	40-140
Pyrene	79	74	7	50	40-140
Pentachlorophenol	34	28	19	50	40-140
Surrogate(s)					
2-Fluorophenol	62	60	3		25-120
Phenol-d6	85	79	7		10-120
Nitrobenzene-d5	69	62	11		23-120
2-Fluorobiphenyl	60	55	9		30-120
2,4,6-Tribromophenol	90	79	13		19-120
4-Terphenyl-d14	73	62	16		18-120
Polychlorinated Biphenyls for sample(s) 01-05 (L0501658-05, WG194547-4)					
Aroclor 1242/1016	88	83	6	50	40-140
Aroclor 1260	88	79	10	50	40-140
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	75	72	4		30-150
Decachlorobiphenyl	92	81	13		30-150
Polychlorinated Biphenyls for sample(s) 06 (L0501658-06, WG194624-4)					
Aroclor 1242/1016	86	84	2	30	30-150
Aroclor 1260	88	84	5	30	30-150
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	74	73	1		30-150
Decachlorobiphenyl	74	71	4		30-150
Organochlorine Pesticides for sample(s) 06 (L0501658-06, WG194627-4)					
Delta-BHC	60	55	9	30	
Lindane	68	65	5	30	
Alpha-BHC	66	63	5	30	
Beta-BHC	58	54	7	30	
Heptachlor	72	69	4	30	

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0501658

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Organochlorine Pesticides for sample(s) 06 (L0501658-06, WG194627-4)					
Aldrin	69	66	4	30	
Heptachlor epoxide	71	66	7	30	
Endrin	87	78	11	30	
Endrin aldehyde	64	60	6	30	
Endrin ketone	67	58	14	30	
Dieldrin	75	68	10	30	
4,4'-DDE	73	68	7	30	
4,4'-DDD	88	76	15	30	
4,4'-DDT	73	64	13	30	
Endosulfan I	66	60	10	30	
Endosulfan II	69	61	12	30	
Endosulfan sulfate	61	53	14	30	
Methoxychlor	90	78	14	30	
cis-Chlordane	73	66	10	30	
trans-Chlordane	66	60	10	30	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	57	56	2		30-150
Decachlorobiphenyl	57	53	7		30-150

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0501658

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06 (WG194601-3)							
Total Metals				1	3015		
Aluminum, Total	ND	mg/l	0.10	1	6010B	0218 15:30	0221 12:22 RW
Antimony, Total	ND	mg/l	0.050	1	6010B	0218 15:30	0221 12:22 RW
Arsenic, Total	ND	mg/l	0.005	1	6010B	0218 15:30	0221 12:22 RW
Barium, Total	ND	mg/l	0.01	1	6010B	0218 15:30	0221 12:22 RW
Beryllium, Total	ND	mg/l	0.005	1	6010B	0218 15:30	0221 12:22 RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0218 15:30	0221 12:22 RW
Calcium, Total	ND	mg/l	0.10	1	6010B	0218 15:30	0221 12:22 RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0218 15:30	0221 12:22 RW
Cobalt, Total	ND	mg/l	0.02	1	6010B	0218 15:30	0221 12:22 RW
Copper, Total	ND	mg/l	0.01	1	6010B	0218 15:30	0221 12:22 RW
Iron, Total	ND	mg/l	0.05	1	6010B	0218 15:30	0221 12:22 RW
Lead, Total	ND	mg/l	0.050	1	6010B	0218 15:30	0221 12:22 RW
Magnesium, Total	ND	mg/l	0.10	1	6010B	0218 15:30	0221 12:22 RW
Manganese, Total	ND	mg/l	0.01	1	6010B	0218 15:30	0221 12:22 RW
Nickel, Total	ND	mg/l	0.025	1	6010B	0218 15:30	0221 12:22 RW
Potassium, Total	ND	mg/l	2.5	1	6010B	0218 15:30	0221 12:22 RW
Selenium, Total	ND	mg/l	0.005	1	6010B	0218 15:30	0221 12:22 RW
Silver, Total	ND	mg/l	0.007	1	6010B	0218 15:30	0221 12:22 RW
Sodium, Total	ND	mg/l	2.0	1	6010B	0218 15:30	0221 12:22 RW
Thallium, Total	ND	mg/l	0.005	1	6010B	0218 15:30	0221 12:22 RW
Vanadium, Total	ND	mg/l	0.01	1	6010B	0218 15:30	0221 12:22 RW
Zinc, Total	ND	mg/l	0.05	1	6010B	0218 15:30	0221 12:22 RW
Blank Analysis for sample(s) 01-05 (WG194621-3)							
Total Metals				1	3051		
Aluminum, Total	ND	mg/kg	4.0	1	6010B	0218 14:00	0221 10:53 RW
Antimony, Total	ND	mg/kg	2.0	1	6010B	0218 14:00	0221 10:53 RW
Arsenic, Total	ND	mg/kg	0.40	1	6010B	0218 14:00	0221 10:53 RW
Barium, Total	ND	mg/kg	0.40	1	6010B	0218 14:00	0221 10:53 RW
Beryllium, Total	ND	mg/kg	0.20	1	6010B	0218 14:00	0221 10:53 RW
Cadmium, Total	ND	mg/kg	0.40	1	6010B	0218 14:00	0221 10:53 RW
Calcium, Total	ND	mg/kg	4.0	1	6010B	0218 14:00	0221 10:53 RW
Chromium, Total	ND	mg/kg	0.40	1	6010B	0218 14:00	0221 10:53 RW
Cobalt, Total	ND	mg/kg	0.80	1	6010B	0218 14:00	0221 10:53 RW
Copper, Total	ND	mg/kg	0.40	1	6010B	0218 14:00	0221 10:53 RW
Iron, Total	ND	mg/kg	2.0	1	6010B	0218 14:00	0221 10:53 RW
Lead, Total	ND	mg/kg	2.0	1	6010B	0218 14:00	0221 10:53 RW
Magnesium, Total	ND	mg/kg	4.0	1	6010B	0218 14:00	0221 10:53 RW
Manganese, Total	ND	mg/kg	0.40	1	6010B	0218 14:00	0221 10:53 RW
Nickel, Total	ND	mg/kg	1.0	1	6010B	0218 14:00	0221 10:53 RW
Potassium, Total	ND	mg/kg	100	1	6010B	0218 14:00	0221 10:53 RW
Selenium, Total	ND	mg/kg	0.80	1	6010B	0218 14:00	0221 10:53 RW
Silver, Total	ND	mg/kg	0.40	1	6010B	0218 14:00	0221 10:53 RW
Sodium, Total	ND	mg/kg	80.	1	6010B	0218 14:00	0221 10:53 RW

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0501658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-05 (WG194621-3)							
Total Metals				1	3051		
Thallium, Total	ND	mg/kg	0.40	1	6010B	0218 14:00	0221 10:53 RW
Vanadium, Total	ND	mg/kg	0.40	1	6010B	0218 14:00	0221 10:53 RW
Zinc, Total	ND	mg/kg	2.0	1	6010B	0218 14:00	0221 10:53 RW
Blank Analysis for sample(s) 06 (WG194838-4)							
Total Metals							
Mercury, Total	ND	mg/l	0.0002	1	7470A	0222 16:45	0223 09:17 DM
Blank Analysis for sample(s) 01-05 (WG194841-4)							
Total Metals							
Mercury, Total	ND	mg/kg	0.08	1	7471A	0222 19:50	0223 14:29 DM
Blank Analysis for sample(s) 01,03-05,08 (WG194657-6)							
Volatile Organics by GC/MS 8260				1	8260B		0219 18:17 BT
Methylene chloride	ND	ug/kg	25.				
1,1-Dichloroethane	ND	ug/kg	3.8				
Chloroform	ND	ug/kg	3.8				
Carbon tetrachloride	ND	ug/kg	2.5				
1,2-Dichloropropane	ND	ug/kg	8.8				
Dibromochloromethane	ND	ug/kg	2.5				
1,1,2-Trichloroethane	ND	ug/kg	3.8				
Tetrachloroethene	ND	ug/kg	2.5				
Chlorobenzene	ND	ug/kg	2.5				
Trichlorofluoromethane	ND	ug/kg	12.				
1,2-Dichloroethane	ND	ug/kg	2.5				
1,1,1-Trichloroethane	ND	ug/kg	2.5				
Bromodichloromethane	ND	ug/kg	2.5				
trans-1,3-Dichloropropene	ND	ug/kg	2.5				
cis-1,3-Dichloropropene	ND	ug/kg	2.5				
1,1-Dichloropropene	ND	ug/kg	12.				
Bromoform	ND	ug/kg	10.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.5				
Benzene	ND	ug/kg	2.5				
Toluene	ND	ug/kg	3.8				
Ethylbenzene	ND	ug/kg	2.5				
Chloromethane	ND	ug/kg	12.				
Bromomethane	ND	ug/kg	5.0				
Vinyl chloride	ND	ug/kg	5.0				
Chloroethane	ND	ug/kg	5.0				
1,1-Dichloroethene	ND	ug/kg	2.5				
trans-1,2-Dichloroethene	ND	ug/kg	3.8				
Trichloroethene	ND	ug/kg	2.5				
1,2-Dichlorobenzene	ND	ug/kg	12.				



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0501658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01,03-05,08 (WG194657-6)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0219 18:17 BT	
1,3-Dichlorobenzene	ND	ug/kg	12.				
1,4-Dichlorobenzene	ND	ug/kg	12.				
Methyl tert butyl ether	ND	ug/kg	5.0				
p/m-Xylene	ND	ug/kg	2.5				
o-Xylene	ND	ug/kg	2.5				
cis-1,2-Dichloroethene	ND	ug/kg	2.5				
Dibromomethane	ND	ug/kg	25.				
1,4-Dichlorobutane	ND	ug/kg	25.				
Iodomethane	ND	ug/kg	25.				
1,2,3-Trichloropropane	ND	ug/kg	25.				
Styrene	ND	ug/kg	2.5				
Dichlorodifluoromethane	ND	ug/kg	25.				
Acetone	ND	ug/kg	25.				
Carbon disulfide	ND	ug/kg	25.				
2-Butanone	ND	ug/kg	25.				
Vinyl acetate	ND	ug/kg	25.				
4-Methyl-2-pentanone	ND	ug/kg	25.				
2-Hexanone	ND	ug/kg	25.				
Ethyl methacrylate	ND	ug/kg	25.				
Acrolein	ND	ug/kg	62.				
Acrylonitrile	ND	ug/kg	25.				
Bromochloromethane	ND	ug/kg	12.				
Tetrahydrofuran	ND	ug/kg	50.				
2,2-Dichloropropane	ND	ug/kg	12.				
1,2-Dibromoethane	ND	ug/kg	10.				
1,3-Dichloropropane	ND	ug/kg	12.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.5				
Bromobenzene	ND	ug/kg	12.				
n-Butylbenzene	ND	ug/kg	2.5				
sec-Butylbenzene	ND	ug/kg	2.5				
tert-Butylbenzene	ND	ug/kg	12.				
o-Chlorotoluene	ND	ug/kg	12.				
p-Chlorotoluene	ND	ug/kg	12.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.				
Hexachlorobutadiene	ND	ug/kg	12.				
Isopropylbenzene	ND	ug/kg	2.5				
p-Isopropyltoluene	ND	ug/kg	2.5				
Naphthalene	ND	ug/kg	12.				
n-Propylbenzene	ND	ug/kg	2.5				
1,2,3-Trichlorobenzene	ND	ug/kg	12.				
1,2,4-Trichlorobenzene	ND	ug/kg	12.				
1,3,5-Trimethylbenzene	ND	ug/kg	12.				
1,2,4-Trimethylbenzene	ND	ug/kg	12.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	12.				
Ethyl ether	ND	ug/kg	12.				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0501658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01,03-05,08 (WG194657-6)							
Volatile Organics by GC/MS 8260 continued				1	8260B		0219 18:17 BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	102.	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	111.	%					
Dibromofluoromethane	90.0	%					
Blank Analysis for sample(s) 02 (WG194657-8)							
Volatile Organics by GC/MS 8260				1	8260B		0220 11:03 BT
Methylene chloride	ND	ug/kg	25.				
1,1-Dichloroethane	ND	ug/kg	3.8				
Chloroform	ND	ug/kg	3.8				
Carbon tetrachloride	ND	ug/kg	2.5				
1,2-Dichloropropane	ND	ug/kg	8.8				
Dibromochloromethane	ND	ug/kg	2.5				
1,1,2-Trichloroethane	ND	ug/kg	3.8				
Tetrachloroethene	ND	ug/kg	2.5				
Chlorobenzene	ND	ug/kg	2.5				
Trichlorofluoromethane	ND	ug/kg	12.				
1,2-Dichloroethane	ND	ug/kg	2.5				
1,1,1-Trichloroethane	ND	ug/kg	2.5				
Bromodichloromethane	ND	ug/kg	2.5				
trans-1,3-Dichloropropene	ND	ug/kg	2.5				
cis-1,3-Dichloropropene	ND	ug/kg	2.5				
1,1-Dichloropropene	ND	ug/kg	12.				
Bromoform	ND	ug/kg	10.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.5				
Benzene	ND	ug/kg	2.5				
Toluene	ND	ug/kg	3.8				
Ethylbenzene	ND	ug/kg	2.5				
Chloromethane	ND	ug/kg	12.				
Bromomethane	ND	ug/kg	5.0				
Vinyl chloride	ND	ug/kg	5.0				
Chloroethane	ND	ug/kg	5.0				
1,1-Dichloroethene	ND	ug/kg	2.5				
trans-1,2-Dichloroethene	ND	ug/kg	3.8				
Trichloroethene	ND	ug/kg	2.5				
1,2-Dichlorobenzene	ND	ug/kg	12.				
1,3-Dichlorobenzene	ND	ug/kg	12.				
1,4-Dichlorobenzene	ND	ug/kg	12.				
Methyl tert butyl ether	ND	ug/kg	5.0				
p/m-Xylene	ND	ug/kg	2.5				
o-Xylene	ND	ug/kg	2.5				
cis-1,2-Dichloroethene	ND	ug/kg	2.5				
Dibromomethane	ND	ug/kg	25.				
1,4-Dichlorobutane	ND	ug/kg	25.				
Iodomethane	ND	ug/kg	25.				

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02 (WG194657-8)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0220 11:03 BT	
1,2,3-Trichloropropane	ND	ug/kg	25.				
Styrene	ND	ug/kg	2.5				
Dichlorodifluoromethane	ND	ug/kg	25.				
Acetone	ND	ug/kg	25.				
Carbon disulfide	ND	ug/kg	25.				
2-Butanone	ND	ug/kg	25.				
Vinyl acetate	ND	ug/kg	25.				
4-Methyl-2-pentanone	ND	ug/kg	25.				
2-Hexanone	ND	ug/kg	25.				
Ethyl methacrylate	ND	ug/kg	25.				
Acrolein	ND	ug/kg	62.				
Acrylonitrile	ND	ug/kg	25.				
Bromochloromethane	ND	ug/kg	12.				
Tetrahydrofuran	ND	ug/kg	50.				
2,2-Dichloropropane	ND	ug/kg	12.				
1,2-Dibromoethane	ND	ug/kg	10.				
1,3-Dichloropropane	ND	ug/kg	12.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.5				
Bromobenzene	ND	ug/kg	12.				
n-Butylbenzene	ND	ug/kg	2.5				
sec-Butylbenzene	ND	ug/kg	2.5				
tert-Butylbenzene	ND	ug/kg	12.				
o-Chlorotoluene	ND	ug/kg	12.				
p-Chlorotoluene	ND	ug/kg	12.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.				
Hexachlorobutadiene	ND	ug/kg	12.				
Isopropylbenzene	ND	ug/kg	2.5				
p-Isopropyltoluene	ND	ug/kg	2.5				
Naphthalene	ND	ug/kg	12.				
n-Propylbenzene	ND	ug/kg	2.5				
1,2,3-Trichlorobenzene	ND	ug/kg	12.				
1,2,4-Trichlorobenzene	ND	ug/kg	12.				
1,3,5-Trimethylbenzene	ND	ug/kg	12.				
1,2,4-Trimethylbenzene	ND	ug/kg	12.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	12.				
Ethyl ether	ND	ug/kg	12.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	100.	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	113.	%					
Dibromofluoromethane	87.0	%					
Blank Analysis for sample(s) 06-07 (WG194703-8)							
Volatile Organics by GC/MS 8260				1	8260B	0224 09:09 BT	
Methylene chloride	ND	ug/l	5.0				

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					PREP	ANAL	
Blank Analysis for sample(s) 06-07 (WG194703-8)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0224 09:09 BT	
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06-07 (WG194703-8)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0224 09:09 BT	
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	118.	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	111.	%					
Dibromofluoromethane	104.	%					

Blank Analysis for sample(s) 06 (WG194625-1)							
SVOC's by GC/MS 8270				1	8270C	0218 17:45 0221 12:35 HL	
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				

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					PREP	ANAL	
Blank Analysis for sample(s) 06 (WG194625-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0218 17:45	0221 12:35	HL
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				

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					PREP	ANAL	
Blank Analysis for sample(s) 06 (WG194625-1)							
SVOC's by GC/MS 8270 continued				1	8270C	0218 17:45	0221 12:35 HL
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				

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					PREP	ANAL	
Blank Analysis for sample(s) 06 (WG194625-1)							
SVOC's by GC/MS 8270 continued				1	8270C	0218 17:45	0221 12:35 HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	37.0	%					
Phenol-d6	30.0	%					
Nitrobenzene-d5	62.0	%					
2-Fluorobiphenyl	57.0	%					
2,4,6-Tribromophenol	54.0	%					
4-Terphenyl-d14	79.0	%					
Blank Analysis for sample(s) 01-05 (WG194629-1)							
SVOC's by GC/MS 8270				1	8270C	0218 12:45	0221 17:20 HL
Acenaphthene	ND	ug/kg	170				
Benzidine	ND	ug/kg	1700				
1,2,4-Trichlorobenzene	ND	ug/kg	170				
Hexachlorobenzene	ND	ug/kg	170				
Bis(2-chloroethyl)ether	ND	ug/kg	170				
1-Chloronaphthalene	ND	ug/kg	170				
2-Chloronaphthalene	ND	ug/kg	200				
1,2-Dichlorobenzene	ND	ug/kg	170				
1,3-Dichlorobenzene	ND	ug/kg	170				
1,4-Dichlorobenzene	ND	ug/kg	170				
3,3'-Dichlorobenzidine	ND	ug/kg	1700				
2,4-Dinitrotoluene	ND	ug/kg	200				
2,6-Dinitrotoluene	ND	ug/kg	170				
Azobenzene	ND	ug/kg	170				
Fluoranthene	ND	ug/kg	170				
4-Chlorophenyl phenyl ether	ND	ug/kg	170				
4-Bromophenyl phenyl ether	ND	ug/kg	170				
Bis(2-chloroisopropyl)ether	ND	ug/kg	170				
Bis(2-chloroethoxy)methane	ND	ug/kg	170				
Hexachlorobutadiene	ND	ug/kg	330				
Hexachlorocyclopentadiene	ND	ug/kg	330				
Hexachloroethane	ND	ug/kg	170				
Isophorone	ND	ug/kg	170				
Naphthalene	ND	ug/kg	170				
Nitrobenzene	ND	ug/kg	170				
NDPA/DPA	ND	ug/kg	500				
n-Nitrosodi-n-propylamine	ND	ug/kg	170				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	330				
Butyl benzyl phthalate	ND	ug/kg	170				
Di-n-butylphthalate	ND	ug/kg	170				
Di-n-octylphthalate	ND	ug/kg	170				
Diethyl phthalate	ND	ug/kg	170				
Dimethyl phthalate	ND	ug/kg	170				
Benzo(a)anthracene	ND	ug/kg	170				
Benzo(a)pyrene	ND	ug/kg	170				
Benzo(b)fluoranthene	ND	ug/kg	170				



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					PREP	ANAL	
Blank Analysis for sample(s) 01-05 (WG194629-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0218 12:45	0221 17:20	HL
Benzo(k)fluoranthene	ND	ug/kg	170				
Chrysene	ND	ug/kg	170				
Acenaphthylene	ND	ug/kg	170				
Anthracene	ND	ug/kg	170				
Benzo(ghi)perylene	ND	ug/kg	170				
Fluorene	ND	ug/kg	170				
Phenanthrene	ND	ug/kg	170				
Dibenzo(a,h)anthracene	ND	ug/kg	170				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	170				
Pyrene	ND	ug/kg	170				
Benzo(e)pyrene	ND	ug/kg	170				
Biphenyl	ND	ug/kg	170				
Perylene	ND	ug/kg	170				
Aniline	ND	ug/kg	330				
4-Chloroaniline	ND	ug/kg	170				
1-Methylnaphthalene	ND	ug/kg	170				
2-Nitroaniline	ND	ug/kg	170				
3-Nitroaniline	ND	ug/kg	170				
4-Nitroaniline	ND	ug/kg	230				
Dibenzofuran	ND	ug/kg	170				
a,a-Dimethylphenethylamine	ND	ug/kg	1700				
Hexachloropropene	ND	ug/kg	330				
Nitrosodi-n-butylamine	ND	ug/kg	330				
2-Methylnaphthalene	ND	ug/kg	270				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	670				
Pentachlorobenzene	ND	ug/kg	670				
a-Naphthylamine	ND	ug/kg	670				
b-Naphthylamine	ND	ug/kg	670				
Phenacetin	ND	ug/kg	330				
Dimethoate	ND	ug/kg	670				
4-Aminobiphenyl	ND	ug/kg	330				
Pentachloronitrobenzene	ND	ug/kg	330				
Isodrin	ND	ug/kg	330				
p-Dimethylaminoazobenzene	ND	ug/kg	330				
Chlorobenzilate	ND	ug/kg	670				
3-Methylcholanthrene	ND	ug/kg	670				
Ethyl Methanesulfonate	ND	ug/kg	500				
Acetophenone	ND	ug/kg	670				
Nitrosodipiperidine	ND	ug/kg	670				
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	330				
n-Nitrosodimethylamine	ND	ug/kg	1700				
2,4,6-Trichlorophenol	ND	ug/kg	170				
p-Chloro-m-cresol	ND	ug/kg	170				
2-Chlorophenol	ND	ug/kg	200				
2,4-Dichlorophenol	ND	ug/kg	330				
2,4-Dimethylphenol	ND	ug/kg	330				

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					PREP	ANAL	
Blank Analysis for sample(s) 01-05 (WG194629-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0218 12:45	0221 17:20	HL
2-Nitrophenol	ND	ug/kg	670				
4-Nitrophenol	ND	ug/kg	330				
2,4-Dinitrophenol	ND	ug/kg	670				
4,6-Dinitro-o-cresol	ND	ug/kg	670				
Pentachlorophenol	ND	ug/kg	670				
Phenol	ND	ug/kg	230				
2-Methylphenol	ND	ug/kg	200				
3-Methylphenol/4-Methylphenol	ND	ug/kg	200				
2,4,5-Trichlorophenol	ND	ug/kg	170				
2,6-Dichlorophenol	ND	ug/kg	330				
Benzoic Acid	ND	ug/kg	1700				
Benzyl Alcohol	ND	ug/kg	330				
Carbazole	ND	ug/kg	170				
Pyridine	ND	ug/kg	1700				
2-Picoline	ND	ug/kg	670				
Pronamide	ND	ug/kg	670				
Methyl methanesulfonate	ND	ug/kg	670				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	64.0	%	25-120				
Phenol-d6	74.0	%	10-120				
Nitrobenzene-d5	67.0	%	23-120				
2-Fluorobiphenyl	62.0	%	30-120				
2,4,6-Tribromophenol	56.0	%	19-120				
4-Terphenyl-d14	77.0	%	18-120				
Blank Analysis for sample(s) 06 (WG194626-1)							
PAH by GC/MS SIM 8270M				1 8270C-M	0218 17:45	0221 12:10	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06 (WG194626-1)							
PAH by GC/MS SIM 8270M continued				1 8270C-M	0218 17:45	0221 12:10	RL
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	37.0	%	21-120				
Phenol-d6	33.0	%	10-120				
Nitrobenzene-d5	59.0	%	23-120				
2-Fluorobiphenyl	55.0	%	43-120				
2,4,6-Tribromophenol	66.0	%	10-120				
4-Terphenyl-d14	65.0	%	33-120				
Blank Analysis for sample(s) 01-05 (WG194630-1)							
PAH by GC/MS SIM 8270M				1 8270C-M	0218 12:45	0222 14:27	RL
Acenaphthene	ND	ug/kg	6.7				
2-Chloronaphthalene	ND	ug/kg	6.7				
Fluoranthene	ND	ug/kg	6.7				
Hexachlorobutadiene	ND	ug/kg	17.				
Naphthalene	ND	ug/kg	6.7				
Benzo(a)anthracene	ND	ug/kg	6.7				
Benzo(a)pyrene	ND	ug/kg	6.7				
Benzo(b)fluoranthene	ND	ug/kg	6.7				
Benzo(k)fluoranthene	ND	ug/kg	6.7				
Chrysene	ND	ug/kg	6.7				
Acenaphthylene	ND	ug/kg	6.7				
Anthracene	ND	ug/kg	6.7				
Benzo(ghi)perylene	ND	ug/kg	6.7				
Fluorene	ND	ug/kg	6.7				
Phenanthrene	ND	ug/kg	6.7				
Dibenzo(a,h)anthracene	ND	ug/kg	6.7				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	6.7				
Pyrene	ND	ug/kg	6.7				
1-Methylnaphthalene	ND	ug/kg	6.7				
2-Methylnaphthalene	ND	ug/kg	6.7				
Pentachlorophenol	ND	ug/kg	27.				
Hexachlorobenzene	ND	ug/kg	27.				
Perylene	ND	ug/kg	6.7				
Biphenyl	ND	ug/kg	6.7				
2,6-Dimethylnaphthalene	ND	ug/kg	6.7				

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0501658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-05 (WG194630-1)							
PAH by GC/MS SIM 8270M continued				1 8270C-M	0218 12:45	0222 14:27	RL
1-Methylphenanthrene	ND	ug/kg	6.7				
Benzo(e)Pyrene	ND	ug/kg	6.7				
Hexachloroethane	ND	ug/kg	27.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	57.0	%	25-120				
Phenol-d6	76.0	%	10-120				
Nitrobenzene-d5	61.0	%	23-120				
2-Fluorobiphenyl	57.0	%	30-120				
2,4,6-Tribromophenol	65.0	%	19-120				
4-Terphenyl-d14	73.0	%	18-120				
Blank Analysis for sample(s) 01-05 (WG194547-1)							
Polychlorinated Biphenyls				1 8082	0218 10:30	0221 10:43	JB
Aroclor 1221	ND	ug/kg	33.3				
Aroclor 1232	ND	ug/kg	33.3				
Aroclor 1242/1016	ND	ug/kg	33.3				
Aroclor 1248	ND	ug/kg	33.3				
Aroclor 1254	ND	ug/kg	33.3				
Aroclor 1260	ND	ug/kg	33.3				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	82.0	%	30-150				
Decachlorobiphenyl	93.0	%	30-150				
Blank Analysis for sample(s) 06 (WG194624-1)							
Polychlorinated Biphenyls				1 8082	0218 17:35	0222 22:50	JB
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	65.0	%	30-150				
Decachlorobiphenyl	63.0	%	30-150				
Blank Analysis for sample(s) 01-05 (WG194548-1)							
Organochlorine Pesticides				1 8081	0218 10:15	0223 22:29	BW
Delta-BHC	ND	ug/kg	3.33				
Lindane	ND	ug/kg	3.33				
Alpha-BHC	ND	ug/kg	3.33				
Beta-BHC	ND	ug/kg	3.33				
Heptachlor	ND	ug/kg	3.33				
Aldrin	ND	ug/kg	3.33				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0501658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-05 (WG194548-1)							
Organochlorine Pesticides continued				1 8081	0218 10:15	0223 22:29	BW
Heptachlor epoxide	ND	ug/kg	3.33				
Endrin	ND	ug/kg	3.33				
Endrin aldehyde	ND	ug/kg	3.33				
Endrin ketone	ND	ug/kg	3.33				
Dieldrin	ND	ug/kg	3.33				
4,4'-DDE	ND	ug/kg	3.33				
4,4'-DDD	ND	ug/kg	3.33				
4,4'-DDT	ND	ug/kg	3.33				
Endosulfan I	ND	ug/kg	3.33				
Endosulfan II	ND	ug/kg	3.33				
Endosulfan sulfate	ND	ug/kg	3.33				
Methoxychlor	ND	ug/kg	3.33				
Toxaphene	ND	ug/kg	13.3				
Chlordane	ND	ug/kg	13.3				
cis-Chlordane	ND	ug/kg	3.33				
trans-Chlordane	ND	ug/kg	3.33				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	53.0	%	30-150				
Decachlorobiphenyl	65.0	%	30-150				
Blank Analysis for sample(s) 06 (WG194627-1)							
Organochlorine Pesticides				1 8081	0218 19:45	0223 18:12	BW
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0501658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06 (WG194627-1)							
Organochlorine Pesticides continued				1 8081	0218 19:45	0223 18:12	BW
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	50.0	%		30-150			
Decachlorobiphenyl	48.0	%		30-150			

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.  
METHOD Method number by which analysis was performed.  
ID Initials of the analyst.  
ND Not detected in comparison to the reported detection limit.  
NI Not Ignitable.  
ug/cart Micrograms per Cartridge.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. 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, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. 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, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

**Client:** AKRF, Inc. **Laboratory Job Number:** L0501881  
**Address:** 116 E. 27th Street  
7th Floor  
New York, NY 10016 **Date Received:** 24-FEB-2005  
**Attn:** Mr. Axel Schwendt **Date Reported:** 03-MAR-2005  
**Project Number:** 10470-0213 **Delivery Method:** Fed Ex  
**Site:** COLUMBIA-MANHATTANVILLE REZONE

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0501881-01	CB-6 (5'-6')	HARLEM, NY
L0501881-02	MW/CB-7 (6'-8')	HARLEM, NY
L0501881-03	MW/CB-8 (12'-14')	HARLEM, NY
L0501881-04	MW/CB-9 (4'-6')	HARLEM, NY
L0501881-05	MW/CB-9 (14'-16')	HARLEM, NY
L0501881-06	CB-10 (2'-4')	HARLEM, NY
L0501881-07	CB-10 (7'-8')	HARLEM, NY
L0501881-08	FIELD BLANK	HARLEM, NY
L0501881-09	TRIP BLANK	HARLEM, NY

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

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Authorized by: Scott McLean  
This document electronically signed



ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0501881

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Semi-Volatile Organics

L0501881-02 has a high surrogate % recovery for 4-Terphenyl-d14.

The wg195105 LCS and MS/MSD have high % recoveries for 2,4-Dinitrotoluene.

The wg195246 Soil Blank has a high surrogate % recovery for 4-Terphenyl-d14.

The wg195246 LCS has a low % recovery for 2,4-Dinitrophenol and a high % recovery for 2,4-Dinitrotoluene.

PAH-LOW

The wg195247 MS has a high surrogate % recovery for 2,4,6-Tribromophenol.

Metals

Due to the % moisture of the samples, the laboratory could not achieve the project requested detection limit for Be and Cd on L0501881-02 through 07.

The Laboratory could not achieve the project requested detection limit for Se on L0501881-02 through 07.

The WG195435-2MS % recoveries for Al, Fe, Mn and Mg are invalid because the sample concentrations are greater than four times the spike amounts added.

The WG195435-2 MS % recovery for Cr is outside the acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 103%.

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0501881-01	<b>Date Collected:</b> 21-FEB-2005 11:30
CB-6 (5'-6')	<b>Date Received :</b> 24-FEB-2005
<b>Sample Matrix:</b> SOIL	<b>Date Reported :</b> 03-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	83.	%	0.10	30 2540G			0302 20:13 PD
Volatile Organics by GC/MS 8260				1 8260B			0228 19:15 BT
Methylene chloride	ND	ug/kg	30.				
1,1-Dichloroethane	ND	ug/kg	4.4				
Chloroform	ND	ug/kg	4.4				
Carbon tetrachloride	ND	ug/kg	3.0				
1,2-Dichloropropane	ND	ug/kg	10.				
Dibromochloromethane	ND	ug/kg	3.0				
1,1,2-Trichloroethane	ND	ug/kg	4.4				
Tetrachloroethene	ND	ug/kg	3.0				
Chlorobenzene	ND	ug/kg	3.0				
Trichlorofluoromethane	ND	ug/kg	15.				
1,2-Dichloroethane	ND	ug/kg	3.0				
1,1,1-Trichloroethane	ND	ug/kg	3.0				
Bromodichloromethane	ND	ug/kg	3.0				
trans-1,3-Dichloropropene	ND	ug/kg	3.0				
cis-1,3-Dichloropropene	ND	ug/kg	3.0				
1,1-Dichloropropene	ND	ug/kg	15.				
Bromoform	ND	ug/kg	12.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.0				
Benzene	ND	ug/kg	3.0				
Toluene	ND	ug/kg	4.4				
Ethylbenzene	ND	ug/kg	3.0				
Chloromethane	ND	ug/kg	15.				
Bromomethane	ND	ug/kg	5.9				
Vinyl chloride	ND	ug/kg	5.9				
Chloroethane	ND	ug/kg	5.9				
1,1-Dichloroethene	ND	ug/kg	3.0				
trans-1,2-Dichloroethene	ND	ug/kg	4.4				
Trichloroethene	ND	ug/kg	3.0				
1,2-Dichlorobenzene	ND	ug/kg	15.				
1,3-Dichlorobenzene	ND	ug/kg	15.				
1,4-Dichlorobenzene	ND	ug/kg	15.				
Methyl tert butyl ether	ND	ug/kg	5.9				
p/m-Xylene	ND	ug/kg	3.0				
o-Xylene	ND	ug/kg	3.0				
cis-1,2-Dichloroethene	ND	ug/kg	3.0				
Dibromomethane	ND	ug/kg	30.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-01  
 CB-6 (5'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228 19:15 BT	
1,4-Dichlorobutane	ND	ug/kg	30.				
Iodomethane	ND	ug/kg	30.				
1,2,3-Trichloropropane	ND	ug/kg	30.				
Styrene	ND	ug/kg	3.0				
Dichlorodifluoromethane	ND	ug/kg	30.				
Acetone	ND	ug/kg	30.				
Carbon disulfide	ND	ug/kg	30.				
2-Butanone	ND	ug/kg	30.				
Vinyl acetate	ND	ug/kg	30.				
4-Methyl-2-pentanone	ND	ug/kg	30.				
2-Hexanone	ND	ug/kg	30.				
Ethyl methacrylate	ND	ug/kg	30.				
Acrolein	ND	ug/kg	74.				
Acrylonitrile	ND	ug/kg	30.				
Bromochloromethane	ND	ug/kg	15.				
Tetrahydrofuran	ND	ug/kg	59.				
2,2-Dichloropropane	ND	ug/kg	15.				
1,2-Dibromoethane	ND	ug/kg	12.				
1,3-Dichloropropane	ND	ug/kg	15.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.0				
Bromobenzene	ND	ug/kg	15.				
n-Butylbenzene	ND	ug/kg	3.0				
sec-Butylbenzene	ND	ug/kg	3.0				
tert-Butylbenzene	ND	ug/kg	15.				
o-Chlorotoluene	ND	ug/kg	15.				
p-Chlorotoluene	ND	ug/kg	15.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	15.				
Hexachlorobutadiene	ND	ug/kg	15.				
Isopropylbenzene	ND	ug/kg	3.0				
p-Isopropyltoluene	ND	ug/kg	3.0				
Naphthalene	ND	ug/kg	15.				
n-Propylbenzene	ND	ug/kg	3.0				
1,2,3-Trichlorobenzene	ND	ug/kg	15.				
1,2,4-Trichlorobenzene	ND	ug/kg	15.				
1,3,5-Trimethylbenzene	ND	ug/kg	15.				
1,2,4-Trimethylbenzene	ND	ug/kg	15.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	15.				
Ethyl ether	ND	ug/kg	15.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	92.0	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	98.0	%					
Dibromofluoromethane	90.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0501881-02	Date Collected:	22-FEB-2005 14:25
	MW/CB-7 (6'-8')	Date Received :	24-FEB-2005
Sample Matrix:	SOIL	Date Reported :	03-MAR-2005
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers: 2-Amber,1-Vial			

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP     ANAL	ID
Solids, Total	87.	%	0.10	30 2540G		0226 14:14 PD
Total Metals				1 3051		
Aluminum, Total	8000	mg/kg	4.6	1 6010B	0301 21:00 0303 07:57	RW
Antimony, Total	ND	mg/kg	2.3	1 6010B	0301 21:00 0303 07:57	RW
Arsenic, Total	2.3	mg/kg	0.46	1 6010B	0301 21:00 0303 07:57	RW
Barium, Total	54.	mg/kg	0.46	1 6010B	0301 21:00 0303 07:57	RW
Beryllium, Total	ND	mg/kg	0.1149	1 6010B	0301 21:00 0303 07:57	RW
Cadmium, Total	ND	mg/kg	0.1149	1 6010B	0301 21:00 0303 07:57	RW
Calcium, Total	12000	mg/kg	4.6	1 6010B	0301 21:00 0303 07:57	RW
Chromium, Total	11.	mg/kg	0.46	1 6010B	0301 21:00 0303 07:57	RW
Cobalt, Total	6.7	mg/kg	0.92	1 6010B	0301 21:00 0303 07:57	RW
Copper, Total	27.	mg/kg	0.46	1 6010B	0301 21:00 0303 07:57	RW
Iron, Total	12000	mg/kg	2.3	1 6010B	0301 21:00 0303 07:57	RW
Lead, Total	23.	mg/kg	2.3	1 6010B	0301 21:00 0303 07:57	RW
Magnesium, Total	7300	mg/kg	4.6	1 6010B	0301 21:00 0303 07:57	RW
Manganese, Total	410	mg/kg	0.46	1 6010B	0301 21:00 0303 07:57	RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0228 19:25 0301 16:20	DM
Nickel, Total	10.7	mg/kg	0.460	1 6010B	0301 21:00 0303 07:57	RW
Potassium, Total	2200	mg/kg	110	1 6010B	0301 21:00 0303 07:57	RW
Selenium, Total	ND	mg/kg	0.230	1 6010B	0301 21:00 0303 07:57	RW
Silver, Total	ND	mg/kg	0.46	1 6010B	0301 21:00 0303 07:57	RW
Sodium, Total	1200	mg/kg	92.	1 6010B	0301 21:00 0303 07:57	RW
Thallium, Total	ND	mg/kg	0.46	1 6010B	0301 21:00 0303 07:57	RW
Vanadium, Total	16.	mg/kg	0.46	1 6010B	0301 21:00 0303 07:57	RW
Zinc, Total	29.	mg/kg	2.3	1 6010B	0301 21:00 0303 07:57	RW
Volatile Organics by GC/MS 8260				1 8260B		0228 19:53 BT
Methylene chloride	ND	ug/kg	28.			
1,1-Dichloroethane	ND	ug/kg	4.2			
Chloroform	ND	ug/kg	4.2			
Carbon tetrachloride	ND	ug/kg	2.8			
1,2-Dichloropropane	ND	ug/kg	9.8			
Dibromochloromethane	ND	ug/kg	2.8			
1,1,2-Trichloroethane	ND	ug/kg	4.2			
Tetrachloroethene	ND	ug/kg	2.8			
Chlorobenzene	ND	ug/kg	2.8			
Trichlorofluoromethane	ND	ug/kg	14.			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-02  
 MW/CB-7 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	19:53 BT
1,2-Dichloroethane	ND	ug/kg	2.8				
1,1,1-Trichloroethane	ND	ug/kg	2.8				
Bromodichloromethane	ND	ug/kg	2.8				
trans-1,3-Dichloropropene	ND	ug/kg	2.8				
cis-1,3-Dichloropropene	ND	ug/kg	2.8				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8				
Benzene	ND	ug/kg	2.8				
Toluene	ND	ug/kg	4.2				
Ethylbenzene	ND	ug/kg	2.8				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.6				
Vinyl chloride	ND	ug/kg	5.6				
Chloroethane	ND	ug/kg	5.6				
1,1-Dichloroethene	ND	ug/kg	2.8				
trans-1,2-Dichloroethene	ND	ug/kg	4.2				
Trichloroethene	ND	ug/kg	2.8				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.6				
p/m-Xylene	ND	ug/kg	2.8				
o-Xylene	ND	ug/kg	2.8				
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				
1,4-Dichlorobutane	ND	ug/kg	28.				
Iodomethane	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
Styrene	ND	ug/kg	2.8				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Ethyl methacrylate	ND	ug/kg	28.				
Acrolein	ND	ug/kg	70.				
Acrylonitrile	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	56.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-02  
MW/CB-7 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	19:53 BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	95.0	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	109.	%					
Dibromofluoromethane	90.0	%					
SVOC's by GC/MS 8270				1	8270C	0226	11:00 0301 21:23 HL
Acenaphthene	ND	ug/kg	190				
Benzidine	ND	ug/kg	1900				
1,2,4-Trichlorobenzene	ND	ug/kg	190				
Hexachlorobenzene	ND	ug/kg	190				
Bis(2-chloroethyl)ether	ND	ug/kg	190				
1-Chloronaphthalene	ND	ug/kg	190				
2-Chloronaphthalene	ND	ug/kg	230				
1,2-Dichlorobenzene	ND	ug/kg	190				
1,3-Dichlorobenzene	ND	ug/kg	190				
1,4-Dichlorobenzene	ND	ug/kg	190				
3,3'-Dichlorobenzidine	ND	ug/kg	1900				
2,4-Dinitrotoluene	ND	ug/kg	230				
2,6-Dinitrotoluene	ND	ug/kg	190				
Azobenzene	ND	ug/kg	190				
Fluoranthene	ND	ug/kg	190				
4-Chlorophenyl phenyl ether	ND	ug/kg	190				
4-Bromophenyl phenyl ether	ND	ug/kg	190				
Bis(2-chloroisopropyl)ether	ND	ug/kg	190				
Bis(2-chloroethoxy)methane	ND	ug/kg	190				
Hexachlorobutadiene	ND	ug/kg	380				
Hexachlorocyclopentadiene	ND	ug/kg	380				
Hexachloroethane	ND	ug/kg	190				
Isophorone	ND	ug/kg	190				
Naphthalene	ND	ug/kg	190				
Nitrobenzene	ND	ug/kg	190				
NDPA/DPA	ND	ug/kg	570				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-02  
 MW/CB-7 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0226 11:00	0301 21:23	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	190				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	380				
Butyl benzyl phthalate	ND	ug/kg	190				
Di-n-butylphthalate	ND	ug/kg	190				
Di-n-octylphthalate	ND	ug/kg	190				
Diethyl phthalate	ND	ug/kg	190				
Dimethyl phthalate	ND	ug/kg	190				
Benzo(a)anthracene	ND	ug/kg	190				
Benzo(a)pyrene	ND	ug/kg	190				
Benzo(b)fluoranthene	ND	ug/kg	190				
Benzo(k)fluoranthene	ND	ug/kg	190				
Chrysene	ND	ug/kg	190				
Acenaphthylene	ND	ug/kg	190				
Anthracene	ND	ug/kg	190				
Benzo(ghi)perylene	ND	ug/kg	190				
Fluorene	ND	ug/kg	190				
Phenanthrene	ND	ug/kg	190				
Dibenzo(a,h)anthracene	ND	ug/kg	190				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	190				
Pyrene	ND	ug/kg	190				
Benzo(e)pyrene	ND	ug/kg	190				
Biphenyl	ND	ug/kg	190				
Perylene	ND	ug/kg	190				
Aniline	ND	ug/kg	380				
4-Chloroaniline	ND	ug/kg	190				
1-Methylnaphthalene	ND	ug/kg	190				
2-Nitroaniline	ND	ug/kg	190				
3-Nitroaniline	ND	ug/kg	190				
4-Nitroaniline	ND	ug/kg	270				
Dibenzofuran	ND	ug/kg	190				
a,a-Dimethylphenethylamine	ND	ug/kg	1900				
Hexachloropropene	ND	ug/kg	380				
Nitrosodi-n-butylamine	ND	ug/kg	380				
2-Methylnaphthalene	ND	ug/kg	310				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	770				
Pentachlorobenzene	ND	ug/kg	770				
a-Naphthylamine	ND	ug/kg	770				
b-Naphthylamine	ND	ug/kg	770				
Phenacetin	ND	ug/kg	380				
Dimethoate	ND	ug/kg	770				
4-Aminobiphenyl	ND	ug/kg	380				
Pentachloronitrobenzene	ND	ug/kg	380				
Isodrin	ND	ug/kg	380				
p-Dimethylaminoazobenzene	ND	ug/kg	380				
Chlorobenzilate	ND	ug/kg	770				
3-Methylcholanthrene	ND	ug/kg	770				
Ethyl Methanesulfonate	ND	ug/kg	570				
Acetophenone	ND	ug/kg	770				
Nitrosodipiperidine	ND	ug/kg	770				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-02  
 MW/CB-7 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0226 11:00	0301 21:23 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	380				
n-Nitrosodimethylamine	ND	ug/kg	1900				
2,4,6-Trichlorophenol	ND	ug/kg	190				
p-Chloro-m-cresol	ND	ug/kg	190				
2-Chlorophenol	ND	ug/kg	230				
2,4-Dichlorophenol	ND	ug/kg	380				
2,4-Dimethylphenol	ND	ug/kg	380				
2-Nitrophenol	ND	ug/kg	770				
4-Nitrophenol	ND	ug/kg	380				
2,4-Dinitrophenol	ND	ug/kg	770				
4,6-Dinitro-o-cresol	ND	ug/kg	770				
Pentachlorophenol	ND	ug/kg	770				
Phenol	ND	ug/kg	270				
2-Methylphenol	ND	ug/kg	230				
3-Methylphenol/4-Methylphenol	ND	ug/kg	230				
2,4,5-Trichlorophenol	ND	ug/kg	190				
2,6-Dichlorophenol	ND	ug/kg	380				
Benzoic Acid	ND	ug/kg	1900				
Benzyl Alcohol	ND	ug/kg	380				
Carbazole	ND	ug/kg	190				
Pyridine	ND	ug/kg	1900				
2-Picoline	ND	ug/kg	770				
Pronamide	ND	ug/kg	770				
Methyl methanesulfonate	ND	ug/kg	770				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	71.0	%	25-120				
Phenol-d6	89.0	%	10-120				
Nitrobenzene-d5	93.0	%	23-120				
2-Fluorobiphenyl	79.0	%	30-120				
2,4,6-Tribromophenol	71.0	%	19-120				
4-Terphenyl-d14	130.	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0226 11:00	0302 02:44 RL
Acenaphthene	ND	ug/kg	7.7				
2-Chloronaphthalene	ND	ug/kg	7.7				
Fluoranthene	ND	ug/kg	7.7				
Hexachlorobutadiene	ND	ug/kg	19.				
Naphthalene	ND	ug/kg	7.7				
Benzo(a)anthracene	ND	ug/kg	7.7				
Benzo(a)pyrene	ND	ug/kg	7.7				
Benzo(b)fluoranthene	ND	ug/kg	7.7				
Benzo(k)fluoranthene	ND	ug/kg	7.7				
Chrysene	ND	ug/kg	7.7				
Acenaphthylene	ND	ug/kg	7.7				
Anthracene	ND	ug/kg	7.7				
Benzo(ghi)perylene	ND	ug/kg	7.7				
Fluorene	ND	ug/kg	7.7				
Phenanthrene	ND	ug/kg	7.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-02  
MW/CB-7 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0226 11:00	0302 02:44 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.7				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.7				
Pyrene	ND	ug/kg	7.7				
1-Methylnaphthalene	ND	ug/kg	7.7				
2-Methylnaphthalene	ND	ug/kg	7.7				
Pentachlorophenol	ND	ug/kg	31.				
Hexachlorobenzene	ND	ug/kg	31.				
Perylene	ND	ug/kg	7.7				
Biphenyl	ND	ug/kg	7.7				
2,6-Dimethylnaphthalene	ND	ug/kg	7.7				
1-Methylphenanthrene	ND	ug/kg	7.7				
Benzo(e)Pyrene	ND	ug/kg	7.7				
Hexachloroethane	ND	ug/kg	31.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	68.0	%	25-120				
Phenol-d6	87.0	%	10-120				
Nitrobenzene-d5	72.0	%	23-120				
2-Fluorobiphenyl	64.0	%	30-120				
2,4,6-Tribromophenol	84.0	%	19-120				
4-Terphenyl-d14	92.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0225 13:10	0301 18:07 JB
Aroclor 1221	ND	ug/kg	38.3				
Aroclor 1232	ND	ug/kg	38.3				
Aroclor 1242/1016	ND	ug/kg	38.3				
Aroclor 1248	ND	ug/kg	38.3				
Aroclor 1254	ND	ug/kg	38.3				
Aroclor 1260	ND	ug/kg	38.3				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	81.0	%	30-150				
Decachlorobiphenyl	110.	%	30-150				
Organochlorine Pesticides				1	8081	0225 11:40	0301 15:15 BW
Delta-BHC	ND	ug/kg	3.83				
Lindane	ND	ug/kg	3.83				
Alpha-BHC	ND	ug/kg	3.83				
Beta-BHC	ND	ug/kg	3.83				
Heptachlor	ND	ug/kg	3.83				
Aldrin	ND	ug/kg	3.83				
Heptachlor epoxide	ND	ug/kg	3.83				
Endrin	ND	ug/kg	3.83				
Endrin aldehyde	ND	ug/kg	3.83				
Endrin ketone	ND	ug/kg	3.83				
Dieldrin	ND	ug/kg	3.83				
4,4'-DDE	ND	ug/kg	3.83				
4,4'-DDD	ND	ug/kg	3.83				
4,4'-DDT	ND	ug/kg	3.83				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-02  
MW/CB-7 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0225 11:40	0301 15:15	BW
Endosulfan I	ND	ug/kg	3.83				
Endosulfan II	ND	ug/kg	3.83				
Endosulfan sulfate	ND	ug/kg	3.83				
Methoxychlor	ND	ug/kg	3.83				
Toxaphene	ND	ug/kg	15.3				
Chlordane	ND	ug/kg	15.3				
cis-Chlordane	ND	ug/kg	3.83				
trans-Chlordane	ND	ug/kg	3.83				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	64.0	%		30-150			
Decachlorobiphenyl	71.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0501881-03	Date Collected: 22-FEB-2005 19:50
MW/CB-8 (12'-14')	Date Received : 24-FEB-2005
Sample Matrix: SOIL	Date Reported : 03-MAR-2005
Condition of Sample: Satisfactory	Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	91.	%	0.10	30 2540G		0226 14:14 PD
Total Metals				1 3051		
Aluminum, Total	4900	mg/kg	4.4	1 6010B	0301 21:00	0303 07:59 RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0301 21:00	0303 07:59 RW
Arsenic, Total	2.1	mg/kg	0.44	1 6010B	0301 21:00	0303 07:59 RW
Barium, Total	30.	mg/kg	0.44	1 6010B	0301 21:00	0303 07:59 RW
Beryllium, Total	0.1709	mg/kg	0.1090	1 6010B	0301 21:00	0303 07:59 RW
Cadmium, Total	ND	mg/kg	0.1090	1 6010B	0301 21:00	0303 07:59 RW
Calcium, Total	860	mg/kg	4.4	1 6010B	0301 21:00	0303 07:59 RW
Chromium, Total	7.5	mg/kg	0.44	1 6010B	0301 21:00	0303 07:59 RW
Cobalt, Total	4.6	mg/kg	0.87	1 6010B	0301 21:00	0303 07:59 RW
Copper, Total	10.	mg/kg	0.44	1 6010B	0301 21:00	0303 07:59 RW
Iron, Total	10000	mg/kg	2.2	1 6010B	0301 21:00	0303 07:59 RW
Lead, Total	8.7	mg/kg	2.2	1 6010B	0301 21:00	0303 07:59 RW
Magnesium, Total	1700	mg/kg	4.4	1 6010B	0301 21:00	0303 07:59 RW
Manganese, Total	320	mg/kg	0.44	1 6010B	0301 21:00	0303 07:59 RW
Mercury, Total	ND	mg/kg	0.08	1 7471A	0228 19:25	0301 16:21 DM
Nickel, Total	8.57	mg/kg	0.436	1 6010B	0301 21:00	0303 07:59 RW
Potassium, Total	410	mg/kg	110	1 6010B	0301 21:00	0303 07:59 RW
Selenium, Total	0.366	mg/kg	0.218	1 6010B	0301 21:00	0303 07:59 RW
Silver, Total	ND	mg/kg	0.44	1 6010B	0301 21:00	0303 07:59 RW
Sodium, Total	220	mg/kg	87.	1 6010B	0301 21:00	0303 07:59 RW
Thallium, Total	ND	mg/kg	0.44	1 6010B	0301 21:00	0303 07:59 RW
Vanadium, Total	8.8	mg/kg	0.44	1 6010B	0301 21:00	0303 07:59 RW
Zinc, Total	24.	mg/kg	2.2	1 6010B	0301 21:00	0303 07:59 RW
Volatile Organics by GC/MS 8260				1 8260B		0228 20:31 BT
Methylene chloride	ND	ug/kg	27.			
1,1-Dichloroethane	ND	ug/kg	4.0			
Chloroform	ND	ug/kg	4.0			
Carbon tetrachloride	ND	ug/kg	2.7			
1,2-Dichloropropane	ND	ug/kg	9.4			
Dibromochloromethane	ND	ug/kg	2.7			
1,1,2-Trichloroethane	ND	ug/kg	4.0			
Tetrachloroethene	ND	ug/kg	2.7			
Chlorobenzene	ND	ug/kg	2.7			
Trichlorofluoromethane	ND	ug/kg	13.			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-03  
 MW/CB-8 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	20:31 BT
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	13.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.0				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	13.				
Bromomethane	ND	ug/kg	5.4				
Vinyl chloride	ND	ug/kg	5.4				
Chloroethane	ND	ug/kg	5.4				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.0				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	13.				
1,3-Dichlorobenzene	ND	ug/kg	13.				
1,4-Dichlorobenzene	ND	ug/kg	13.				
Methyl tert butyl ether	ND	ug/kg	5.4				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	67.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	13.				
Tetrahydrofuran	ND	ug/kg	54.				
2,2-Dichloropropane	ND	ug/kg	13.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	13.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	13.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-03  
MW/CB-8 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0228 20:31		BT
tert-Butylbenzene	ND	ug/kg	13.				
o-Chlorotoluene	ND	ug/kg	13.				
p-Chlorotoluene	ND	ug/kg	13.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	13.				
Hexachlorobutadiene	ND	ug/kg	13.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	13.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	13.				
1,2,4-Trichlorobenzene	ND	ug/kg	13.				
1,3,5-Trimethylbenzene	ND	ug/kg	13.				
1,2,4-Trimethylbenzene	ND	ug/kg	13.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	13.				
Ethyl ether	ND	ug/kg	13.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	97.0	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	107.	%					
Dibromofluoromethane	92.0	%					
SVOC's by GC/MS 8270				1 8270C	0226 11:00 0301 14:57		HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	550				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-03  
 MW/CB-8 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0226 11:00	0301 14:57	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	290				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	730				
Pentachlorobenzene	ND	ug/kg	730				
a-Naphthylamine	ND	ug/kg	730				
b-Naphthylamine	ND	ug/kg	730				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	730				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	730				
3-Methylcholanthrene	ND	ug/kg	730				
Ethyl Methanesulfonate	ND	ug/kg	550				
Acetophenone	ND	ug/kg	730				
Nitrosodipiperidine	ND	ug/kg	730				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-03  
 MW/CB-8 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0226 11:00	0301 14:57 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	730				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	730				
4,6-Dinitro-o-cresol	ND	ug/kg	730				
Pentachlorophenol	ND	ug/kg	730				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	730				
Pronamide	ND	ug/kg	730				
Methyl methanesulfonate	ND	ug/kg	730				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	70.0	%	25-120				
Phenol-d6	80.0	%	10-120				
Nitrobenzene-d5	68.0	%	23-120				
2-Fluorobiphenyl	67.0	%	30-120				
2,4,6-Tribromophenol	67.0	%	19-120				
4-Terphenyl-d14	92.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0226 11:00	0302 03:26 RL
Acenaphthene	ND	ug/kg	7.3				
2-Chloronaphthalene	ND	ug/kg	7.3				
Fluoranthene	ND	ug/kg	7.3				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.3				
Benzo(a)anthracene	ND	ug/kg	7.3				
Benzo(a)pyrene	ND	ug/kg	7.3				
Benzo(b)fluoranthene	ND	ug/kg	7.3				
Benzo(k)fluoranthene	ND	ug/kg	7.3				
Chrysene	ND	ug/kg	7.3				
Acenaphthylene	ND	ug/kg	7.3				
Anthracene	ND	ug/kg	7.3				
Benzo(ghi)perylene	ND	ug/kg	7.3				
Fluorene	ND	ug/kg	7.3				
Phenanthrene	ND	ug/kg	7.3				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-03  
MW/CB-8 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0226 11:00	0302 03:26 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.3				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.3				
Pyrene	ND	ug/kg	7.3				
1-Methylnaphthalene	ND	ug/kg	7.3				
2-Methylnaphthalene	ND	ug/kg	7.3				
Pentachlorophenol	ND	ug/kg	29.				
Hexachlorobenzene	ND	ug/kg	29.				
Perylene	ND	ug/kg	7.3				
Biphenyl	ND	ug/kg	7.3				
2,6-Dimethylnaphthalene	ND	ug/kg	7.3				
1-Methylphenanthrene	ND	ug/kg	7.3				
Benzo(e)Pyrene	ND	ug/kg	7.3				
Hexachloroethane	ND	ug/kg	29.				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	61.0	%					25-120
Phenol-d6	78.0	%					10-120
Nitrobenzene-d5	64.0	%					23-120
2-Fluorobiphenyl	61.0	%					30-120
2,4,6-Tribromophenol	73.0	%					19-120
4-Terphenyl-d14	78.0	%					18-120
Polychlorinated Biphenyls				1	8082	0225 13:10	0301 17:39 JB
Aroclor 1221	ND	ug/kg	36.6				
Aroclor 1232	ND	ug/kg	36.6				
Aroclor 1242/1016	ND	ug/kg	36.6				
Aroclor 1248	ND	ug/kg	36.6				
Aroclor 1254	ND	ug/kg	36.6				
Aroclor 1260	ND	ug/kg	36.6				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	76.0	%					30-150
Decachlorobiphenyl	109.	%					30-150
Organochlorine Pesticides				1	8081	0225 11:40	0301 14:46 BW
Delta-BHC	ND	ug/kg	3.66				
Lindane	ND	ug/kg	3.66				
Alpha-BHC	ND	ug/kg	3.66				
Beta-BHC	ND	ug/kg	3.66				
Heptachlor	ND	ug/kg	3.66				
Aldrin	ND	ug/kg	3.66				
Heptachlor epoxide	ND	ug/kg	3.66				
Endrin	ND	ug/kg	3.66				
Endrin aldehyde	ND	ug/kg	3.66				
Endrin ketone	ND	ug/kg	3.66				
Dieldrin	ND	ug/kg	3.66				
4,4'-DDE	ND	ug/kg	3.66				
4,4'-DDD	ND	ug/kg	3.66				
4,4'-DDT	ND	ug/kg	3.66				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-03  
MW/CB-8 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0225 11:40	0301 14:46	BW
Endosulfan I	ND	ug/kg	3.66				
Endosulfan II	ND	ug/kg	3.66				
Endosulfan sulfate	ND	ug/kg	3.66				
Methoxychlor	ND	ug/kg	3.66				
Toxaphene	ND	ug/kg	14.6				
Chlordane	ND	ug/kg	14.6				
cis-Chlordane	ND	ug/kg	3.66				
trans-Chlordane	ND	ug/kg	3.66				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	56.0	%		30-150			
Decachlorobiphenyl	71.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0501881-04 Date Collected: 23-FEB-2005 07:15  
 MW/CB-9 (4'-6') Date Received : 24-FEB-2005  
 Sample Matrix: SOIL Date Reported : 03-MAR-2005  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	88.	%	0.10	30 2540G		0226 14:14	PD
Total Metals				1 3051			
Aluminum, Total	4700	mg/kg	4.5	1 6010B	0301 21:00	0303 08:12	RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0301 21:00	0303 08:12	RW
Arsenic, Total	2.7	mg/kg	0.45	1 6010B	0301 21:00	0303 08:12	RW
Barium, Total	46.	mg/kg	0.45	1 6010B	0301 21:00	0303 08:12	RW
Beryllium, Total	ND	mg/kg	0.1118	1 6010B	0301 21:00	0303 08:12	RW
Cadmium, Total	ND	mg/kg	0.1118	1 6010B	0301 21:00	0303 08:12	RW
Calcium, Total	4800	mg/kg	4.5	1 6010B	0301 21:00	0303 08:12	RW
Chromium, Total	10.	mg/kg	0.45	1 6010B	0301 21:00	0303 08:12	RW
Cobalt, Total	5.4	mg/kg	0.89	1 6010B	0301 21:00	0303 08:12	RW
Copper, Total	37.	mg/kg	0.45	1 6010B	0301 21:00	0303 08:12	RW
Iron, Total	7800	mg/kg	2.2	1 6010B	0301 21:00	0303 08:12	RW
Lead, Total	93.	mg/kg	2.2	1 6010B	0301 21:00	0303 08:12	RW
Magnesium, Total	1500	mg/kg	4.5	1 6010B	0301 21:00	0303 08:12	RW
Manganese, Total	120	mg/kg	0.45	1 6010B	0301 21:00	0303 08:12	RW
Mercury, Total	0.21	mg/kg	0.09	1 7471A	0228 19:25	0301 16:31	DM
Nickel, Total	10.1	mg/kg	0.447	1 6010B	0301 21:00	0303 08:12	RW
Potassium, Total	320	mg/kg	110	1 6010B	0301 21:00	0303 08:12	RW
Selenium, Total	0.558	mg/kg	0.224	1 6010B	0301 21:00	0303 08:12	RW
Silver, Total	ND	mg/kg	0.45	1 6010B	0301 21:00	0303 08:12	RW
Sodium, Total	970	mg/kg	89.	1 6010B	0301 21:00	0303 08:12	RW
Thallium, Total	ND	mg/kg	0.45	1 6010B	0301 21:00	0303 08:12	RW
Vanadium, Total	11.	mg/kg	0.45	1 6010B	0301 21:00	0303 08:12	RW
Zinc, Total	20.	mg/kg	2.2	1 6010B	0301 21:00	0303 08:12	RW
Volatile Organics by GC/MS 8260				1 8260B		0228 21:10	BT
Methylene chloride	ND	ug/kg	28.				
1,1-Dichloroethane	ND	ug/kg	4.3				
Chloroform	ND	ug/kg	4.3				
Carbon tetrachloride	ND	ug/kg	2.8				
1,2-Dichloropropane	ND	ug/kg	9.9				
Dibromochloromethane	ND	ug/kg	2.8				
1,1,2-Trichloroethane	ND	ug/kg	4.3				
Tetrachloroethene	ND	ug/kg	2.8				
Chlorobenzene	ND	ug/kg	2.8				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-04  
 MW/CB-9 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	21:10 BT
1,2-Dichloroethane	ND	ug/kg	2.8				
1,1,1-Trichloroethane	ND	ug/kg	2.8				
Bromodichloromethane	ND	ug/kg	2.8				
trans-1,3-Dichloropropene	ND	ug/kg	2.8				
cis-1,3-Dichloropropene	ND	ug/kg	2.8				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8				
Benzene	ND	ug/kg	2.8				
Toluene	ND	ug/kg	4.3				
Ethylbenzene	ND	ug/kg	2.8				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.7				
Vinyl chloride	ND	ug/kg	5.7				
Chloroethane	ND	ug/kg	5.7				
1,1-Dichloroethene	ND	ug/kg	2.8				
trans-1,2-Dichloroethene	ND	ug/kg	4.3				
Trichloroethene	ND	ug/kg	2.8				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.7				
p/m-Xylene	ND	ug/kg	2.8				
o-Xylene	ND	ug/kg	2.8				
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				
1,4-Dichlorobutane	ND	ug/kg	28.				
Iodomethane	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
Styrene	ND	ug/kg	2.8				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Ethyl methacrylate	ND	ug/kg	28.				
Acrolein	ND	ug/kg	71.				
Acrylonitrile	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	57.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-04  
MW/CB-9 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	21:10 BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	103.	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	111.	%					
Dibromofluoromethane	71.0	%					
SVOC's by GC/MS 8270				1	8270C	0226	11:00 0301 15:23 HL
Acenaphthene	ND	ug/kg	190				
Benzidine	ND	ug/kg	1900				
1,2,4-Trichlorobenzene	ND	ug/kg	190				
Hexachlorobenzene	ND	ug/kg	190				
Bis(2-chloroethyl)ether	ND	ug/kg	190				
1-Chloronaphthalene	ND	ug/kg	190				
2-Chloronaphthalene	ND	ug/kg	230				
1,2-Dichlorobenzene	ND	ug/kg	190				
1,3-Dichlorobenzene	ND	ug/kg	190				
1,4-Dichlorobenzene	ND	ug/kg	190				
3,3'-Dichlorobenzidine	ND	ug/kg	1900				
2,4-Dinitrotoluene	ND	ug/kg	230				
2,6-Dinitrotoluene	ND	ug/kg	190				
Azobenzene	ND	ug/kg	190				
Fluoranthene	ND	ug/kg	190				
4-Chlorophenyl phenyl ether	ND	ug/kg	190				
4-Bromophenyl phenyl ether	ND	ug/kg	190				
Bis(2-chloroisopropyl)ether	ND	ug/kg	190				
Bis(2-chloroethoxy)methane	ND	ug/kg	190				
Hexachlorobutadiene	ND	ug/kg	380				
Hexachlorocyclopentadiene	ND	ug/kg	380				
Hexachloroethane	ND	ug/kg	190				
Isophorone	ND	ug/kg	190				
Naphthalene	ND	ug/kg	190				
Nitrobenzene	ND	ug/kg	190				
NDPA/DPA	ND	ug/kg	570				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-04  
 MW/CB-9 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0226 11:00	0301 15:23	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	190				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	380				
Butyl benzyl phthalate	ND	ug/kg	190				
Di-n-butylphthalate	ND	ug/kg	190				
Di-n-octylphthalate	ND	ug/kg	190				
Diethyl phthalate	ND	ug/kg	190				
Dimethyl phthalate	ND	ug/kg	190				
Benzo(a)anthracene	ND	ug/kg	190				
Benzo(a)pyrene	ND	ug/kg	190				
Benzo(b)fluoranthene	ND	ug/kg	190				
Benzo(k)fluoranthene	ND	ug/kg	190				
Chrysene	ND	ug/kg	190				
Acenaphthylene	ND	ug/kg	190				
Anthracene	ND	ug/kg	190				
Benzo(ghi)perylene	ND	ug/kg	190				
Fluorene	ND	ug/kg	190				
Phenanthrene	ND	ug/kg	190				
Dibenzo(a,h)anthracene	ND	ug/kg	190				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	190				
Pyrene	ND	ug/kg	190				
Benzo(e)pyrene	ND	ug/kg	190				
Biphenyl	ND	ug/kg	190				
Perylene	ND	ug/kg	190				
Aniline	ND	ug/kg	380				
4-Chloroaniline	ND	ug/kg	190				
1-Methylnaphthalene	ND	ug/kg	190				
2-Nitroaniline	ND	ug/kg	190				
3-Nitroaniline	ND	ug/kg	190				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	190				
a,a-Dimethylphenethylamine	ND	ug/kg	1900				
Hexachloropropene	ND	ug/kg	380				
Nitrosodi-n-butylamine	ND	ug/kg	380				
2-Methylnaphthalene	ND	ug/kg	300				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	760				
Pentachlorobenzene	ND	ug/kg	760				
a-Naphthylamine	ND	ug/kg	760				
b-Naphthylamine	ND	ug/kg	760				
Phenacetin	ND	ug/kg	380				
Dimethoate	ND	ug/kg	760				
4-Aminobiphenyl	ND	ug/kg	380				
Pentachloronitrobenzene	ND	ug/kg	380				
Isodrin	ND	ug/kg	380				
p-Dimethylaminoazobenzene	ND	ug/kg	380				
Chlorobenzilate	ND	ug/kg	760				
3-Methylcholanthrene	ND	ug/kg	760				
Ethyl Methanesulfonate	ND	ug/kg	570				
Acetophenone	ND	ug/kg	760				
Nitrosodipiperidine	ND	ug/kg	760				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-04  
MW/CB-9 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0226 11:00	0301 15:23 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	380				
n-Nitrosodimethylamine	ND	ug/kg	1900				
2,4,6-Trichlorophenol	ND	ug/kg	190				
p-Chloro-m-cresol	ND	ug/kg	190				
2-Chlorophenol	ND	ug/kg	230				
2,4-Dichlorophenol	ND	ug/kg	380				
2,4-Dimethylphenol	ND	ug/kg	380				
2-Nitrophenol	ND	ug/kg	760				
4-Nitrophenol	ND	ug/kg	380				
2,4-Dinitrophenol	ND	ug/kg	760				
4,6-Dinitro-o-cresol	ND	ug/kg	760				
Pentachlorophenol	ND	ug/kg	760				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	230				
3-Methylphenol/4-Methylphenol	ND	ug/kg	230				
2,4,5-Trichlorophenol	ND	ug/kg	190				
2,6-Dichlorophenol	ND	ug/kg	380				
Benzoic Acid	ND	ug/kg	1900				
Benzyl Alcohol	ND	ug/kg	380				
Carbazole	ND	ug/kg	190				
Pyridine	ND	ug/kg	1900				
2-Picoline	ND	ug/kg	760				
Pronamide	ND	ug/kg	760				
Methyl methanesulfonate	ND	ug/kg	760				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	32.0	%	25-120				
Phenol-d6	34.0	%	10-120				
Nitrobenzene-d5	31.0	%	23-120				
2-Fluorobiphenyl	30.0	%	30-120				
2,4,6-Tribromophenol	35.0	%	19-120				
4-Terphenyl-d14	47.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0226 11:00	0302 04:09 RL
Acenaphthene	ND	ug/kg	7.6				
2-Chloronaphthalene	ND	ug/kg	7.6				
Fluoranthene	30.	ug/kg	7.6				
Hexachlorobutadiene	ND	ug/kg	19.				
Naphthalene	ND	ug/kg	7.6				
Benzo(a)anthracene	16.	ug/kg	7.6				
Benzo(a)pyrene	12.	ug/kg	7.6				
Benzo(b)fluoranthene	15.	ug/kg	7.6				
Benzo(k)fluoranthene	12.	ug/kg	7.6				
Chrysene	18.	ug/kg	7.6				
Acenaphthylene	ND	ug/kg	7.6				
Anthracene	ND	ug/kg	7.6				
Benzo(ghi)perylene	9.4	ug/kg	7.6				
Fluorene	ND	ug/kg	7.6				
Phenanthrene	17.	ug/kg	7.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-04  
 MW/CB-9 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0226 11:00	0302 04:09 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.6				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.6				
Pyrene	32.	ug/kg	7.6				
1-Methylnaphthalene	ND	ug/kg	7.6				
2-Methylnaphthalene	ND	ug/kg	7.6				
Pentachlorophenol	ND	ug/kg	30.				
Hexachlorobenzene	ND	ug/kg	30.				
Perylene	ND	ug/kg	7.6				
Biphenyl	ND	ug/kg	7.6				
2,6-Dimethylnaphthalene	ND	ug/kg	7.6				
1-Methylphenanthrene	ND	ug/kg	7.6				
Benzo(e)Pyrene	12.	ug/kg	7.6				
Hexachloroethane	ND	ug/kg	30.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	61.0	%	25-120				
Phenol-d6	78.0	%	10-120				
Nitrobenzene-d5	66.0	%	23-120				
2-Fluorobiphenyl	59.0	%	30-120				
2,4,6-Tribromophenol	80.0	%	19-120				
4-Terphenyl-d14	90.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0225 13:10	0301 18:35 JB
Aroclor 1221	ND	ug/kg	37.9				
Aroclor 1232	ND	ug/kg	37.9				
Aroclor 1242/1016	ND	ug/kg	37.9				
Aroclor 1248	ND	ug/kg	37.9				
Aroclor 1254	ND	ug/kg	37.9				
Aroclor 1260	ND	ug/kg	37.9				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	77.0	%	30-150				
Decachlorobiphenyl	113.	%	30-150				
Organochlorine Pesticides				1	8081	0225 11:40	0301 15:44 BW
Delta-BHC	ND	ug/kg	3.79				
Lindane	ND	ug/kg	3.79				
Alpha-BHC	ND	ug/kg	3.79				
Beta-BHC	ND	ug/kg	3.79				
Heptachlor	ND	ug/kg	3.79				
Aldrin	ND	ug/kg	3.79				
Heptachlor epoxide	ND	ug/kg	3.79				
Endrin	ND	ug/kg	3.79				
Endrin aldehyde	ND	ug/kg	3.79				
Endrin ketone	ND	ug/kg	3.79				
Dieldrin	ND	ug/kg	3.79				
4,4'-DDE	ND	ug/kg	3.79				
4,4'-DDD	ND	ug/kg	3.79				
4,4'-DDT	ND	ug/kg	3.79				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-04  
MW/CB-9 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0225 11:40	0301 15:44	BW
Endosulfan I	ND	ug/kg	3.79				
Endosulfan II	ND	ug/kg	3.79				
Endosulfan sulfate	ND	ug/kg	3.79				
Methoxychlor	ND	ug/kg	3.79				
Toxaphene	ND	ug/kg	15.2				
Chlordane	ND	ug/kg	15.2				
cis-Chlordane	ND	ug/kg	3.79				
trans-Chlordane	ND	ug/kg	3.79				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	64.0	%		30-150			
Decachlorobiphenyl	67.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0501881-05      Date Collected: 23-FEB-2005 07:35  
  MW/CB-9 (14'-16')      Date Received : 24-FEB-2005  
Sample Matrix:                                 SOIL                                 Date Reported : 03-MAR-2005  
  
Condition of Sample:                         Satisfactory                         Field Prep:             None  
  
Number & Type of Containers: 2-Amber,1-Plastic,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE		ID
						PREP	ANAL	
Solids, Total	92.	%	0.10	30	2540G		0226 14:14	PD
Total Metals				1	3051			
Aluminum, Total	1800	mg/kg	4.3	1	6010B	0301 21:00	0303 08:14	RW
Antimony, Total	ND	mg/kg	2.1	1	6010B	0301 21:00	0303 08:14	RW
Arsenic, Total	0.90	mg/kg	0.43	1	6010B	0301 21:00	0303 08:14	RW
Barium, Total	41.	mg/kg	0.43	1	6010B	0301 21:00	0303 08:14	RW
Beryllium, Total	0.1293	mg/kg	0.1074	1	6010B	0301 21:00	0303 08:14	RW
Cadmium, Total	ND	mg/kg	0.1074	1	6010B	0301 21:00	0303 08:14	RW
Calcium, Total	3600	mg/kg	4.3	1	6010B	0301 21:00	0303 08:14	RW
Chromium, Total	7.7	mg/kg	0.43	1	6010B	0301 21:00	0303 08:14	RW
Cobalt, Total	2.9	mg/kg	0.86	1	6010B	0301 21:00	0303 08:14	RW
Copper, Total	12.	mg/kg	0.43	1	6010B	0301 21:00	0303 08:14	RW
Iron, Total	5100	mg/kg	2.1	1	6010B	0301 21:00	0303 08:14	RW
Lead, Total	4.9	mg/kg	2.1	1	6010B	0301 21:00	0303 08:14	RW
Magnesium, Total	1700	mg/kg	4.3	1	6010B	0301 21:00	0303 08:14	RW
Manganese, Total	330	mg/kg	0.43	1	6010B	0301 21:00	0303 08:14	RW
Mercury, Total	ND	mg/kg	0.08	1	7471A	0228 19:25	0301 16:32	DM
Nickel, Total	7.15	mg/kg	0.429	1	6010B	0301 21:00	0303 08:14	RW
Potassium, Total	380	mg/kg	110	1	6010B	0301 21:00	0303 08:14	RW
Selenium, Total	ND	mg/kg	0.215	1	6010B	0301 21:00	0303 08:14	RW
Silver, Total	ND	mg/kg	0.43	1	6010B	0301 21:00	0303 08:14	RW
Sodium, Total	ND	mg/kg	86.	1	6010B	0301 21:00	0303 08:14	RW
Thallium, Total	ND	mg/kg	0.43	1	6010B	0301 21:00	0303 08:14	RW
Vanadium, Total	6.5	mg/kg	0.43	1	6010B	0301 21:00	0303 08:14	RW
Zinc, Total	11.	mg/kg	2.1	1	6010B	0301 21:00	0303 08:14	RW
Volatile Organics by GC/MS 8260				1	8260B		0228 21:49	BT
Methylene chloride	ND	ug/kg	27.					
1,1-Dichloroethane	ND	ug/kg	4.1					
Chloroform	ND	ug/kg	4.1					
Carbon tetrachloride	ND	ug/kg	2.7					
1,2-Dichloropropane	ND	ug/kg	9.5					
Dibromochloromethane	ND	ug/kg	2.7					
1,1,2-Trichloroethane	ND	ug/kg	4.1					
Tetrachloroethene	ND	ug/kg	2.7					
Chlorobenzene	ND	ug/kg	2.7					
Trichlorofluoromethane	ND	ug/kg	14.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-05  
 MW/CB-9 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	21:49 BT
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.4				
Vinyl chloride	ND	ug/kg	5.4				
Chloroethane	ND	ug/kg	5.4				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.4				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	68.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	54.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-05  
 MW/CB-9 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	21:49 BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	97.0	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	109.	%					
Dibromofluoromethane	93.0	%					
SVOC's by GC/MS 8270				1	8270C	0226	11:00 0301 15:49 HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	360				
Hexachlorocyclopentadiene	ND	ug/kg	360				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	540				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-05  
 MW/CB-9 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0226 11:00	0301 15:49	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	360				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	360				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	250				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	360				
Nitrosodi-n-butylamine	ND	ug/kg	360				
2-Methylnaphthalene	ND	ug/kg	290				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	720				
Pentachlorobenzene	ND	ug/kg	720				
a-Naphthylamine	ND	ug/kg	720				
b-Naphthylamine	ND	ug/kg	720				
Phenacetin	ND	ug/kg	360				
Dimethoate	ND	ug/kg	720				
4-Aminobiphenyl	ND	ug/kg	360				
Pentachloronitrobenzene	ND	ug/kg	360				
Isodrin	ND	ug/kg	360				
p-Dimethylaminoazobenzene	ND	ug/kg	360				
Chlorobenzilate	ND	ug/kg	720				
3-Methylcholanthrene	ND	ug/kg	720				
Ethyl Methanesulfonate	ND	ug/kg	540				
Acetophenone	ND	ug/kg	720				
Nitrosodipiperidine	ND	ug/kg	720				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-05  
 MW/CB-9 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0226 11:00	0301 15:49 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	360				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	360				
2,4-Dimethylphenol	ND	ug/kg	360				
2-Nitrophenol	ND	ug/kg	720				
4-Nitrophenol	ND	ug/kg	360				
2,4-Dinitrophenol	ND	ug/kg	720				
4,6-Dinitro-o-cresol	ND	ug/kg	720				
Pentachlorophenol	ND	ug/kg	720				
Phenol	ND	ug/kg	250				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	360				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	360				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	720				
Pronamide	ND	ug/kg	720				
Methyl methanesulfonate	ND	ug/kg	720				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	75.0	%	25-120				
Phenol-d6	85.0	%	10-120				
Nitrobenzene-d5	76.0	%	23-120				
2-Fluorobiphenyl	74.0	%	30-120				
2,4,6-Tribromophenol	72.0	%	19-120				
4-Terphenyl-d14	98.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0226 11:00	0302 04:52 RL
Acenaphthene	ND	ug/kg	7.2				
2-Chloronaphthalene	ND	ug/kg	7.2				
Fluoranthene	ND	ug/kg	7.2				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.2				
Benzo(a)anthracene	ND	ug/kg	7.2				
Benzo(a)pyrene	ND	ug/kg	7.2				
Benzo(b)fluoranthene	ND	ug/kg	7.2				
Benzo(k)fluoranthene	ND	ug/kg	7.2				
Chrysene	ND	ug/kg	7.2				
Acenaphthylene	ND	ug/kg	7.2				
Anthracene	ND	ug/kg	7.2				
Benzo(ghi)perylene	ND	ug/kg	7.2				
Fluorene	ND	ug/kg	7.2				
Phenanthrene	ND	ug/kg	7.2				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-05  
 MW/CB-9 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0226 11:00	0302 04:52 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.2				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.2				
Pyrene	ND	ug/kg	7.2				
1-Methylnaphthalene	ND	ug/kg	7.2				
2-Methylnaphthalene	ND	ug/kg	7.2				
Pentachlorophenol	ND	ug/kg	29.				
Hexachlorobenzene	ND	ug/kg	29.				
Perylene	ND	ug/kg	7.2				
Biphenyl	ND	ug/kg	7.2				
2,6-Dimethylnaphthalene	ND	ug/kg	7.2				
1-Methylphenanthrene	ND	ug/kg	7.2				
Benzo(e)Pyrene	ND	ug/kg	7.2				
Hexachloroethane	ND	ug/kg	29.				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	70.0	%					25-120
Phenol-d6	98.0	%					10-120
Nitrobenzene-d5	78.0	%					23-120
2-Fluorobiphenyl	69.0	%					30-120
2,4,6-Tribromophenol	84.0	%					19-120
4-Terphenyl-d14	90.0	%					18-120
Polychlorinated Biphenyls				1	8082	0225 13:10	0301 19:04 JB
Aroclor 1221	ND	ug/kg	36.2				
Aroclor 1232	ND	ug/kg	36.2				
Aroclor 1242/1016	ND	ug/kg	36.2				
Aroclor 1248	ND	ug/kg	36.2				
Aroclor 1254	ND	ug/kg	36.2				
Aroclor 1260	ND	ug/kg	36.2				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	82.0	%					30-150
Decachlorobiphenyl	111.	%					30-150
Organochlorine Pesticides				1	8081	0225 11:40	0301 16:13 BW
Delta-BHC	ND	ug/kg	3.62				
Lindane	ND	ug/kg	3.62				
Alpha-BHC	ND	ug/kg	3.62				
Beta-BHC	ND	ug/kg	3.62				
Heptachlor	ND	ug/kg	3.62				
Aldrin	ND	ug/kg	3.62				
Heptachlor epoxide	ND	ug/kg	3.62				
Endrin	ND	ug/kg	3.62				
Endrin aldehyde	ND	ug/kg	3.62				
Endrin ketone	ND	ug/kg	3.62				
Dieldrin	ND	ug/kg	3.62				
4,4'-DDE	ND	ug/kg	3.62				
4,4'-DDD	ND	ug/kg	3.62				
4,4'-DDT	ND	ug/kg	3.62				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-05  
MW/CB-9 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0225 11:40	0301 16:13	BW
Endosulfan I	ND	ug/kg	3.62				
Endosulfan II	ND	ug/kg	3.62				
Endosulfan sulfate	ND	ug/kg	3.62				
Methoxychlor	ND	ug/kg	3.62				
Toxaphene	ND	ug/kg	14.5				
Chlordane	ND	ug/kg	14.5				
cis-Chlordane	ND	ug/kg	3.62				
trans-Chlordane	ND	ug/kg	3.62				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	50.0	%		30-150			
Decachlorobiphenyl	57.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0501881-06	Date Collected:	23-FEB-2005 10:20
	CB-10 (2'-4')	Date Received :	24-FEB-2005
Sample Matrix:	SOIL	Date Reported :	03-MAR-2005
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	2-Amber,1-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Solids, Total	91.	%	0.10	30 2540G		0226 14:14 PD
Total Metals				1 3051		
Aluminum, Total	6700	mg/kg	4.4	1 6010B	0301 21:00 0303 08:17	RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0301 21:00 0303 08:17	RW
Arsenic, Total	2.5	mg/kg	0.44	1 6010B	0301 21:00 0303 08:17	RW
Barium, Total	51.	mg/kg	0.44	1 6010B	0301 21:00 0303 08:17	RW
Beryllium, Total	ND	mg/kg	0.109	1 6010B	0301 21:00 0303 08:17	RW
Cadmium, Total	ND	mg/kg	0.109	1 6010B	0301 21:00 0303 08:17	RW
Calcium, Total	2200	mg/kg	4.4	1 6010B	0301 21:00 0303 08:17	RW
Chromium, Total	11.	mg/kg	0.44	1 6010B	0301 21:00 0303 08:17	RW
Cobalt, Total	6.1	mg/kg	0.87	1 6010B	0301 21:00 0303 08:17	RW
Copper, Total	20.	mg/kg	0.44	1 6010B	0301 21:00 0303 08:17	RW
Iron, Total	11000	mg/kg	2.2	1 6010B	0301 21:00 0303 08:17	RW
Lead, Total	40.	mg/kg	2.2	1 6010B	0301 21:00 0303 08:17	RW
Magnesium, Total	2400	mg/kg	4.4	1 6010B	0301 21:00 0303 08:17	RW
Manganese, Total	330	mg/kg	0.44	1 6010B	0301 21:00 0303 08:17	RW
Mercury, Total	0.24	mg/kg	0.08	1 7471A	0228 19:25 0301 16:34	DM
Nickel, Total	10.4	mg/kg	0.437	1 6010B	0301 21:00 0303 08:17	RW
Potassium, Total	1000	mg/kg	110	1 6010B	0301 21:00 0303 08:17	RW
Selenium, Total	0.365	mg/kg	0.218	1 6010B	0301 21:00 0303 08:17	RW
Silver, Total	ND	mg/kg	0.44	1 6010B	0301 21:00 0303 08:17	RW
Sodium, Total	180	mg/kg	87.	1 6010B	0301 21:00 0303 08:17	RW
Thallium, Total	ND	mg/kg	0.44	1 6010B	0301 21:00 0303 08:17	RW
Vanadium, Total	14.	mg/kg	0.44	1 6010B	0301 21:00 0303 08:17	RW
Zinc, Total	30.	mg/kg	2.2	1 6010B	0301 21:00 0303 08:17	RW
Volatile Organics by GC/MS 8260				1 8260B		0228 22:27 BT
Methylene chloride	ND	ug/kg	27.			
1,1-Dichloroethane	ND	ug/kg	4.1			
Chloroform	ND	ug/kg	4.1			
Carbon tetrachloride	ND	ug/kg	2.7			
1,2-Dichloropropane	ND	ug/kg	9.5			
Dibromochloromethane	ND	ug/kg	2.7			
1,1,2-Trichloroethane	ND	ug/kg	4.1			
Tetrachloroethene	ND	ug/kg	2.7			
Chlorobenzene	ND	ug/kg	2.7			
Trichlorofluoromethane	ND	ug/kg	14.			

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-06  
 CB-10 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	22:27 BT
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.4				
Vinyl chloride	ND	ug/kg	5.4				
Chloroethane	ND	ug/kg	5.4				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.4				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	68.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	54.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-06  
CB-10 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	22:27 BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	98.0	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	120.	%					
Dibromofluoromethane	95.0	%					
SVOC's by GC/MS 8270				1	8270C	0226	11:00 0301 16:16 HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	550				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-06  
 CB-10 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0226 11:00	0301 16:16 HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	290				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	730				
Pentachlorobenzene	ND	ug/kg	730				
a-Naphthylamine	ND	ug/kg	730				
b-Naphthylamine	ND	ug/kg	730				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	730				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	730				
3-Methylcholanthrene	ND	ug/kg	730				
Ethyl Methanesulfonate	ND	ug/kg	550				
Acetophenone	ND	ug/kg	730				
Nitrosodipiperidine	ND	ug/kg	730				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-06  
 CB-10 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0226 11:00	0301 16:16 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	730				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	730				
4,6-Dinitro-o-cresol	ND	ug/kg	730				
Pentachlorophenol	ND	ug/kg	730				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	730				
Pronamide	ND	ug/kg	730				
Methyl methanesulfonate	ND	ug/kg	730				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	65.0	%	25-120				
Phenol-d6	72.0	%	10-120				
Nitrobenzene-d5	65.0	%	23-120				
2-Fluorobiphenyl	60.0	%	30-120				
2,4,6-Tribromophenol	71.0	%	19-120				
4-Terphenyl-d14	92.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0226 11:00	0302 05:34 RL
Acenaphthene	ND	ug/kg	7.3				
2-Chloronaphthalene	ND	ug/kg	7.3				
Fluoranthene	39.	ug/kg	7.3				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.3				
Benzo(a)anthracene	22.	ug/kg	7.3				
Benzo(a)pyrene	17.	ug/kg	7.3				
Benzo(b)fluoranthene	22.	ug/kg	7.3				
Benzo(k)fluoranthene	17.	ug/kg	7.3				
Chrysene	26.	ug/kg	7.3				
Acenaphthylene	ND	ug/kg	7.3				
Anthracene	ND	ug/kg	7.3				
Benzo(ghi)perylene	12.	ug/kg	7.3				
Fluorene	ND	ug/kg	7.3				
Phenanthrene	21.	ug/kg	7.3				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-06  
 CB-10 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0226 11:00	0302 05:34 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.3				
Indeno(1,2,3-cd)Pyrene	10.	ug/kg	7.3				
Pyrene	39.	ug/kg	7.3				
1-Methylnaphthalene	ND	ug/kg	7.3				
2-Methylnaphthalene	ND	ug/kg	7.3				
Pentachlorophenol	ND	ug/kg	29.				
Hexachlorobenzene	ND	ug/kg	29.				
Perylene	ND	ug/kg	7.3				
Biphenyl	ND	ug/kg	7.3				
2,6-Dimethylnaphthalene	ND	ug/kg	7.3				
1-Methylphenanthrene	ND	ug/kg	7.3				
Benzo(e)Pyrene	16.	ug/kg	7.3				
Hexachloroethane	ND	ug/kg	29.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	65.0	%	25-120				
Phenol-d6	83.0	%	10-120				
Nitrobenzene-d5	72.0	%	23-120				
2-Fluorobiphenyl	61.0	%	30-120				
2,4,6-Tribromophenol	84.0	%	19-120				
4-Terphenyl-d14	87.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0225 13:10	0301 19:32 JB
Aroclor 1221	ND	ug/kg	36.6				
Aroclor 1232	ND	ug/kg	36.6				
Aroclor 1242/1016	ND	ug/kg	36.6				
Aroclor 1248	ND	ug/kg	36.6				
Aroclor 1254	ND	ug/kg	36.6				
Aroclor 1260	ND	ug/kg	36.6				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	85.0	%	30-150				
Decachlorobiphenyl	121.	%	30-150				
Organochlorine Pesticides				1	8081	0225 11:40	0301 16:41 BW
Delta-BHC	ND	ug/kg	3.66				
Lindane	ND	ug/kg	3.66				
Alpha-BHC	ND	ug/kg	3.66				
Beta-BHC	ND	ug/kg	3.66				
Heptachlor	ND	ug/kg	3.66				
Aldrin	ND	ug/kg	3.66				
Heptachlor epoxide	ND	ug/kg	3.66				
Endrin	ND	ug/kg	3.66				
Endrin aldehyde	ND	ug/kg	3.66				
Endrin ketone	ND	ug/kg	3.66				
Dieldrin	ND	ug/kg	3.66				
4,4'-DDE	ND	ug/kg	3.66				
4,4'-DDD	ND	ug/kg	3.66				
4,4'-DDT	ND	ug/kg	3.66				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-06  
CB-10 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0225 11:40	0301 16:41	BW
Endosulfan I	ND	ug/kg	3.66				
Endosulfan II	ND	ug/kg	3.66				
Endosulfan sulfate	ND	ug/kg	3.66				
Methoxychlor	ND	ug/kg	3.66				
Toxaphene	ND	ug/kg	14.6				
Chlordane	ND	ug/kg	14.6				
cis-Chlordane	ND	ug/kg	3.66				
trans-Chlordane	ND	ug/kg	3.66				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	63.0	%		30-150			
Decachlorobiphenyl	72.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0501881-07	Date Collected:	23-FEB-2005 10:50
	CB-10 (7'-8')	Date Received :	24-FEB-2005
Sample Matrix:	SOIL	Date Reported :	03-MAR-2005
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	2-Amber,1-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	89.	%	0.10	30 2540G			0226 14:14 PD
Total Metals				1 3051			
Aluminum, Total	6900	mg/kg	4.4	1 6010B	0301 21:00	0303 08:35	RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0301 21:00	0303 08:35	RW
Arsenic, Total	2.9	mg/kg	0.44	1 6010B	0301 21:00	0303 08:35	RW
Barium, Total	35.	mg/kg	0.44	1 6010B	0301 21:00	0303 08:35	RW
Beryllium, Total	ND	mg/kg	0.1110	1 6010B	0301 21:00	0303 08:35	RW
Cadmium, Total	ND	mg/kg	0.1110	1 6010B	0301 21:00	0303 08:35	RW
Calcium, Total	2300	mg/kg	4.4	1 6010B	0301 21:00	0303 08:35	RW
Chromium, Total	9.9	mg/kg	0.44	1 6010B	0301 21:00	0303 08:35	RW
Cobalt, Total	4.9	mg/kg	0.89	1 6010B	0301 21:00	0303 08:35	RW
Copper, Total	20.	mg/kg	0.44	1 6010B	0301 21:00	0303 08:35	RW
Iron, Total	11000	mg/kg	2.2	1 6010B	0301 21:00	0303 08:35	RW
Lead, Total	67.	mg/kg	2.2	1 6010B	0301 21:00	0303 08:35	RW
Magnesium, Total	1700	mg/kg	4.4	1 6010B	0301 21:00	0303 08:35	RW
Manganese, Total	280	mg/kg	0.44	1 6010B	0301 21:00	0303 08:35	RW
Mercury, Total	0.67	mg/kg	0.08	1 7471A	0228 19:25	0301 16:36	DM
Nickel, Total	7.94	mg/kg	0.444	1 6010B	0301 21:00	0303 08:35	RW
Potassium, Total	380	mg/kg	110	1 6010B	0301 21:00	0303 08:35	RW
Selenium, Total	0.442	mg/kg	0.222	1 6010B	0301 21:00	0303 08:35	RW
Silver, Total	ND	mg/kg	0.44	1 6010B	0301 21:00	0303 08:35	RW
Sodium, Total	240	mg/kg	89.	1 6010B	0301 21:00	0303 08:35	RW
Thallium, Total	ND	mg/kg	0.44	1 6010B	0301 21:00	0303 08:35	RW
Vanadium, Total	13.	mg/kg	0.44	1 6010B	0301 21:00	0303 08:35	RW
Zinc, Total	26.	mg/kg	2.2	1 6010B	0301 21:00	0303 08:35	RW
Volatile Organics by GC/MS 8260				1 8260B			0228 23:05 BT
Methylene chloride	ND	ug/kg	27.				
1,1-Dichloroethane	ND	ug/kg	4.1				
Chloroform	ND	ug/kg	4.1				
Carbon tetrachloride	ND	ug/kg	2.7				
1,2-Dichloropropane	ND	ug/kg	9.6				
Dibromochloromethane	ND	ug/kg	2.7				
1,1,2-Trichloroethane	ND	ug/kg	4.1				
Tetrachloroethene	ND	ug/kg	2.7				
Chlorobenzene	ND	ug/kg	2.7				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-07  
 CB-10 (7'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	23:05 BT
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.5				
Vinyl chloride	ND	ug/kg	5.5				
Chloroethane	ND	ug/kg	5.5				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.5				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	68.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	55.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-07  
CB-10 (7'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0228 23:05		BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	97.0	%					
Toluene-d8	97.0	%					
4-Bromofluorobenzene	115.	%					
Dibromofluoromethane	93.0	%					
SVOC's by GC/MS 8270				1 8270C	0226 11:00 0301 16:41		HL
Acenaphthene	ND	ug/kg	190				
Benzidine	ND	ug/kg	1900				
1,2,4-Trichlorobenzene	ND	ug/kg	190				
Hexachlorobenzene	ND	ug/kg	190				
Bis(2-chloroethyl)ether	ND	ug/kg	190				
1-Chloronaphthalene	ND	ug/kg	190				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	190				
1,3-Dichlorobenzene	ND	ug/kg	190				
1,4-Dichlorobenzene	ND	ug/kg	190				
3,3'-Dichlorobenzidine	ND	ug/kg	1900				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	190				
Azobenzene	ND	ug/kg	190				
Fluoranthene	ND	ug/kg	190				
4-Chlorophenyl phenyl ether	ND	ug/kg	190				
4-Bromophenyl phenyl ether	ND	ug/kg	190				
Bis(2-chloroisopropyl)ether	ND	ug/kg	190				
Bis(2-chloroethoxy)methane	ND	ug/kg	190				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	190				
Isophorone	ND	ug/kg	190				
Naphthalene	ND	ug/kg	190				
Nitrobenzene	ND	ug/kg	190				
NDPA/DPA	ND	ug/kg	560				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-07  
 CB-10 (7'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0226 11:00	0301 16:41	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	190				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	ND	ug/kg	190				
Di-n-butylphthalate	ND	ug/kg	190				
Di-n-octylphthalate	ND	ug/kg	190				
Diethyl phthalate	ND	ug/kg	190				
Dimethyl phthalate	ND	ug/kg	190				
Benzo(a)anthracene	ND	ug/kg	190				
Benzo(a)pyrene	ND	ug/kg	190				
Benzo(b)fluoranthene	ND	ug/kg	190				
Benzo(k)fluoranthene	ND	ug/kg	190				
Chrysene	ND	ug/kg	190				
Acenaphthylene	ND	ug/kg	190				
Anthracene	ND	ug/kg	190				
Benzo(ghi)perylene	ND	ug/kg	190				
Fluorene	ND	ug/kg	190				
Phenanthrene	ND	ug/kg	190				
Dibenzo(a,h)anthracene	ND	ug/kg	190				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	190				
Pyrene	ND	ug/kg	190				
Benzo(e)pyrene	ND	ug/kg	190				
Biphenyl	ND	ug/kg	190				
Perylene	ND	ug/kg	190				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	190				
1-Methylnaphthalene	ND	ug/kg	190				
2-Nitroaniline	ND	ug/kg	190				
3-Nitroaniline	ND	ug/kg	190				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	190				
a,a-Dimethylphenethylamine	ND	ug/kg	1900				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	300				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	750				
Pentachlorobenzene	ND	ug/kg	750				
a-Naphthylamine	ND	ug/kg	750				
b-Naphthylamine	ND	ug/kg	750				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	750				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	750				
3-Methylcholanthrene	ND	ug/kg	750				
Ethyl Methanesulfonate	ND	ug/kg	560				
Acetophenone	ND	ug/kg	750				
Nitrosodipiperidine	ND	ug/kg	750				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-07  
CB-10 (7'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0226 11:00	0301 16:41 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1900				
2,4,6-Trichlorophenol	ND	ug/kg	190				
p-Chloro-m-cresol	ND	ug/kg	190				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	750				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	750				
4,6-Dinitro-o-cresol	ND	ug/kg	750				
Pentachlorophenol	ND	ug/kg	750				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	190				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1900				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	190				
Pyridine	ND	ug/kg	1900				
2-Picoline	ND	ug/kg	750				
Pronamide	ND	ug/kg	750				
Methyl methanesulfonate	ND	ug/kg	750				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	60.0	%	25-120				
Phenol-d6	65.0	%	10-120				
Nitrobenzene-d5	57.0	%	23-120				
2-Fluorobiphenyl	57.0	%	30-120				
2,4,6-Tribromophenol	60.0	%	19-120				
4-Terphenyl-d14	90.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0226 11:00	0302 06:17 RL
Acenaphthene	ND	ug/kg	7.5				
2-Chloronaphthalene	ND	ug/kg	7.5				
Fluoranthene	37.	ug/kg	7.5				
Hexachlorobutadiene	ND	ug/kg	19.				
Naphthalene	ND	ug/kg	7.5				
Benzo(a)anthracene	22.	ug/kg	7.5				
Benzo(a)pyrene	21.	ug/kg	7.5				
Benzo(b)fluoranthene	27.	ug/kg	7.5				
Benzo(k)fluoranthene	20.	ug/kg	7.5				
Chrysene	25.	ug/kg	7.5				
Acenaphthylene	ND	ug/kg	7.5				
Anthracene	ND	ug/kg	7.5				
Benzo(ghi)perylene	17.	ug/kg	7.5				
Fluorene	ND	ug/kg	7.5				
Phenanthrene	19.	ug/kg	7.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-07  
CB-10 (7'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0226 11:00	0302 06:17 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.5				
Indeno(1,2,3-cd)Pyrene	15.	ug/kg	7.5				
Pyrene	41.	ug/kg	7.5				
1-Methylnaphthalene	ND	ug/kg	7.5				
2-Methylnaphthalene	ND	ug/kg	7.5				
Pentachlorophenol	ND	ug/kg	30.				
Hexachlorobenzene	ND	ug/kg	30.				
Perylene	ND	ug/kg	7.5				
Biphenyl	ND	ug/kg	7.5				
2,6-Dimethylnaphthalene	ND	ug/kg	7.5				
1-Methylphenanthrene	ND	ug/kg	7.5				
Benzo(e)Pyrene	21.	ug/kg	7.5				
Hexachloroethane	ND	ug/kg	30.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	60.0	%	25-120				
Phenol-d6	80.0	%	10-120				
Nitrobenzene-d5	64.0	%	23-120				
2-Fluorobiphenyl	60.0	%	30-120				
2,4,6-Tribromophenol	74.0	%	19-120				
4-Terphenyl-d14	93.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0225 13:10	0301 20:29 JB
Aroclor 1221	ND	ug/kg	37.4				
Aroclor 1232	ND	ug/kg	37.4				
Aroclor 1242/1016	ND	ug/kg	37.4				
Aroclor 1248	ND	ug/kg	37.4				
Aroclor 1254	ND	ug/kg	37.4				
Aroclor 1260	ND	ug/kg	37.4				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	72.0	%	30-150				
Decachlorobiphenyl	103.	%	30-150				
Organochlorine Pesticides				1	8081	0225 11:40	0301 17:10 BW
Delta-BHC	ND	ug/kg	3.74				
Lindane	ND	ug/kg	3.74				
Alpha-BHC	ND	ug/kg	3.74				
Beta-BHC	ND	ug/kg	3.74				
Heptachlor	ND	ug/kg	3.74				
Aldrin	ND	ug/kg	3.74				
Heptachlor epoxide	ND	ug/kg	3.74				
Endrin	ND	ug/kg	3.74				
Endrin aldehyde	ND	ug/kg	3.74				
Endrin ketone	ND	ug/kg	3.74				
Dieldrin	ND	ug/kg	3.74				
4,4'-DDE	ND	ug/kg	3.74				
4,4'-DDD	ND	ug/kg	3.74				
4,4'-DDT	ND	ug/kg	3.74				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-07  
CB-10 (7'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0225 11:40	0301 17:10	BW
Endosulfan I	ND	ug/kg	3.74				
Endosulfan II	ND	ug/kg	3.74				
Endosulfan sulfate	ND	ug/kg	3.74				
Methoxychlor	ND	ug/kg	3.74				
Toxaphene	ND	ug/kg	15.0				
Chlordane	ND	ug/kg	15.0				
cis-Chlordane	ND	ug/kg	3.74				
trans-Chlordane	ND	ug/kg	3.74				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	63.0	%		30-150			
Decachlorobiphenyl	79.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0501881-08 Date Collected: 23-FEB-2005 11:30  
FIELD BLANK Date Received : 24-FEB-2005  
Sample Matrix: WATER Date Reported : 03-MAR-2005  
Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 6-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Metals				1	3015		
Aluminum, Total	ND	mg/l	0.10	1 6010B	0228 15:45	0302 11:07	RW
Antimony, Total	ND	mg/l	0.006	1 6010B	0228 15:45	0302 11:07	RW
Arsenic, Total	ND	mg/l	0.005	1 6010B	0228 15:45	0302 11:07	RW
Barium, Total	ND	mg/l	0.01	1 6010B	0228 15:45	0302 11:07	RW
Beryllium, Total	ND	mg/l	0.0025	1 6010B	0228 15:45	0302 11:07	RW
Cadmium, Total	ND	mg/l	0.0025	1 6010B	0228 15:45	0302 11:07	RW
Calcium, Total	ND	mg/l	0.10	1 6010B	0228 15:45	0302 11:07	RW
Chromium, Total	ND	mg/l	0.01	1 6010B	0228 15:45	0302 11:07	RW
Cobalt, Total	ND	mg/l	0.02	1 6010B	0228 15:45	0302 11:07	RW
Copper, Total	ND	mg/l	0.01	1 6010B	0228 15:45	0302 11:07	RW
Iron, Total	ND	mg/l	0.05	1 6010B	0228 15:45	0302 11:07	RW
Lead, Total	ND	mg/l	0.010	1 6010B	0228 15:45	0302 11:07	RW
Magnesium, Total	ND	mg/l	0.10	1 6010B	0228 15:45	0302 11:07	RW
Manganese, Total	ND	mg/l	0.01	1 6010B	0228 15:45	0302 11:07	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0301 17:45	0302 12:26	DM
Nickel, Total	ND	mg/l	0.010	1 6010B	0228 15:45	0302 11:07	RW
Potassium, Total	ND	mg/l	2.5	1 6010B	0228 15:45	0302 11:07	RW
Selenium, Total	ND	mg/l	0.005	1 6010B	0228 15:45	0302 11:07	RW
Silver, Total	ND	mg/l	0.007	1 6010B	0228 15:45	0302 11:07	RW
Sodium, Total	ND	mg/l	2.0	1 6010B	0228 15:45	0302 11:07	RW
Thallium, Total	ND	mg/l	0.005	1 6010B	0228 15:45	0302 11:07	RW
Vanadium, Total	ND	mg/l	0.01	1 6010B	0228 15:45	0302 11:07	RW
Zinc, Total	ND	mg/l	0.05	1 6010B	0228 15:45	0302 11:07	RW
Volatile Organics by GC/MS 8260				1	8260B	0225 18:05	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-08  
 FIELD BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0225 18:05 BT		
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-08  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0225	18:05 BT
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	120.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	107.	%					
Dibromofluoromethane	106.	%					
SVOC's by GC/MS 8270				1	8270C	0225	11:45 0301 23:25 HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-08  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0225 11:45	0301 23:25	HL
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-08  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0225 11:45	0301 23:25	HL
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	40.0	%					
Phenol-d6	34.0	%					
Nitrobenzene-d5	93.0	%					
2-Fluorobiphenyl	81.0	%					
2,4,6-Tribromophenol	78.0	%					
4-Terphenyl-d14	111.	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0225 11:45	0301 23:08	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-08  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0225 11:45	0301 23:08 RL
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	45.0	%					21-120
Phenol-d6	39.0	%					10-120
Nitrobenzene-d5	78.0	%					23-120
2-Fluorobiphenyl	75.0	%					43-120
2,4,6-Tribromophenol	99.0	%					10-120
4-Terphenyl-d14	90.0	%					33-120
Polychlorinated Biphenyls				1	8082	0225 14:50	0228 19:35 JB
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	70.0	%					30-150
Decachlorobiphenyl	66.0	%					30-150
Organochlorine Pesticides				1	8081	0228 16:20	0301 19:21 JB
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-08  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0228 16:20	0301 19:21	JB
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	60.0	%		30-150			
Decachlorobiphenyl	39.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0501881-09	<b>Date Collected:</b> 08-FEB-2005 15:18
	<b>Date Received :</b> 24-FEB-2005
<b>Sample Matrix:</b> TRIP BLANK	<b>Date Reported :</b> 03-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B	0225 18:42	BT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	0.50			
o-Xylene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,4-Dichlorobutane	ND	ug/l	5.0			
Iodomethane	ND	ug/l	5.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0501881-09  
 TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0225 18:42 BT	
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	120.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	99.0	%					
Dibromofluoromethane	109.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS**

Laboratory Job Number: L0501881

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total for sample(s) 02-07 (L0501862-01, WG195174-1)					
Solids, Total	82.	83.	%	1	
Solids, Total for sample(s) 01 (L0501881-01, WG195525-1)					
Solids, Total	83.	82.	%	1	
Total Metals for sample(s) 08 (L0501853-01, WG195289-1)					
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	ND	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Manganese, Total	ND	ND	mg/l	NC	20
Total Metals for sample(s) 02-07 (L0501881-03, WG195435-1)					
Aluminum, Total	4900	4900	mg/kg	0	35
Antimony, Total	ND	ND	mg/kg	NC	35
Arsenic, Total	2.1	2.2	mg/kg	5	35
Barium, Total	30.	28.	mg/kg	7	35
Beryllium, Total	0.1709	0.1662	mg/kg	3	35
Cadmium, Total	ND	ND	mg/kg	NC	35
Calcium, Total	860	930	mg/kg	8	35
Chromium, Total	7.5	7.3	mg/kg	3	35
Cobalt, Total	4.6	4.6	mg/kg	0	35
Copper, Total	10.	11.	mg/kg	10	35
Iron, Total	10000	10000	mg/kg	0	35
Lead, Total	8.7	6.8	mg/kg	25	35
Magnesium, Total	1700	1800	mg/kg	6	35
Manganese, Total	320	320	mg/kg	0	35
Nickel, Total	8.57	8.72	mg/kg	2	35
Potassium, Total	410	420	mg/kg	2	35
Selenium, Total	0.366	0.349	mg/kg	5	35
Silver, Total	ND	ND	mg/kg	NC	35
Sodium, Total	220	220	mg/kg	0	35
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	8.8	8.8	mg/kg	0	35
Zinc, Total	24.	24.	mg/kg	0	35
Total Metals for sample(s) 02-07 (L0501881-03, WG195313-3)					
Mercury, Total	ND	ND	mg/kg	NC	35
Total Metals for sample(s) 08 (L0501881-08, WG195405-3)					
Mercury, Total	ND	ND	mg/l	NC	20

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0501881

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 08 (WG195289-4)		
Aluminum, Total	105	75-125
Antimony, Total	98	75-125
Arsenic, Total	104	75-125
Barium, Total	105	75-125
Beryllium, Total	98	75-125
Cadmium, Total	104	75-125
Calcium, Total	95	75-125
Chromium, Total	95	75-125
Cobalt, Total	96	75-125
Copper, Total	96	75-125
Iron, Total	95	75-125
Lead, Total	104	75-125
Magnesium, Total	100	75-125
Manganese, Total	96	75-125
Nickel, Total	94	75-125
Potassium, Total	95	75-125
Selenium, Total	112	75-125
Silver, Total	99	75-125
Sodium, Total	98	75-125
Thallium, Total	94	75-125
Vanadium, Total	96	75-125
Zinc, Total	94	75-125
Total Metals LCS for sample(s) 02-07 (WG195435-4)		
Aluminum, Total	103	70-140
Antimony, Total	95	70-140
Arsenic, Total	104	70-140
Barium, Total	99	70-140
Beryllium, Total	97	70-140
Cadmium, Total	102	70-140
Calcium, Total	95	70-140
Chromium, Total	95	70-140
Cobalt, Total	95	70-140
Copper, Total	99	70-140
Iron, Total	95	70-140
Lead, Total	108	70-140
Magnesium, Total	98	70-140
Manganese, Total	95	70-140
Nickel, Total	95	70-140
Potassium, Total	85	70-140
Selenium, Total	110	70-140
Silver, Total	100	70-140
Sodium, Total	100	70-140
Thallium, Total	100	70-140
Vanadium, Total	95	70-140
Zinc, Total	95	70-140



ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501881

Continued

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 02-07 (WG195313-1)		
Mercury, Total	99	70-130
Total Metals LCS for sample(s) 08 (WG195405-1)		
Mercury, Total	100	70-130
Volatile Organics by GC/MS 8260 LCS for sample(s) 08-09 (WG195061-5)		
Chlorobenzene	85	
Benzene	81	
Toluene	83	
1,1-Dichloroethene	88	
Trichloroethene	84	
Surrogate(s)		
1,2-Dichloroethane-d4	111	
Toluene-d8	103	
4-Bromofluorobenzene	100	
Dibromofluoromethane	104	
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-07 (WG195363-7)		
Chlorobenzene	100	
Benzene	98	
Toluene	97	
1,1-Dichloroethene	97	
Trichloroethene	98	
Surrogate(s)		
1,2-Dichloroethane-d4	98	
Toluene-d8	99	
4-Bromofluorobenzene	104	
Dibromofluoromethane	96	
SVOC's by GC/MS 8270 LCS for sample(s) 08 (WG195105-2)		
Acenaphthene	78	
1,2,4-Trichlorobenzene	68	
2-Chloronaphthalene	79	
1,2-Dichlorobenzene	57	
1,4-Dichlorobenzene	56	
2,4-Dinitrotoluene	120	
2,6-Dinitrotoluene	110	
Fluoranthene	99	
4-Chlorophenyl phenyl ether	85	
n-Nitrosodi-n-propylamine	64	
Butyl benzyl phthalate	87	
Anthracene	51	
Pyrene	96	
Hexachloropropene	62	
P-Chloro-M-Cresol	78	
2-Chlorophenol	58	

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501881

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 08 (WG195105-2)		
2-Nitrophenol	76	
4-Nitrophenol	50	
2,4-Dinitrophenol	70	
Pentachlorophenol	91	
Phenol	29	
Surrogate(s)		
2-Fluorophenol	40	
Phenol-d6	35	
Nitrobenzene-d5	88	
2-Fluorobiphenyl	89	
2,4,6-Tribromophenol	82	
4-Terphenyl-d14	110	
SVOC's by GC/MS 8270 LCS for sample(s) 02-07 (WG195246-2)		
Acenaphthene	80	31-137
1,2,4-Trichlorobenzene	79	38-107
2-Chloronaphthalene	86	
1,2-Dichlorobenzene	70	
1,4-Dichlorobenzene	70	28-104
2,4-Dinitrotoluene	122	28-89
2,6-Dinitrotoluene	119	
Fluoranthene	104	
4-Chlorophenyl phenyl ether	90	
n-Nitrosodi-n-propylamine	72	41-126
Butyl benzyl phthalate	95	
Anthracene	56	
Pyrene	101	35-142
Hexachloropropene	86	
P-Chloro-M-Cresol	89	26-103
2-Chlorophenol	70	25-102
2-Nitrophenol	78	
4-Nitrophenol	95	11-114
2,4-Dinitrophenol	20	
Pentachlorophenol	79	17-109
Phenol	70	26-90
Surrogate(s)		
2-Fluorophenol	72	25-120
Phenol-d6	88	10-120
Nitrobenzene-d5	92	23-120
2-Fluorobiphenyl	91	30-120
2,4,6-Tribromophenol	84	19-120
4-Terphenyl-d14	115	18-120

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501881

Continued

Parameter	% Recovery	QC Criteria
PAH by GC/MS SIM 8270M LCS for sample(s) 08 (WG195104-2)		
Acenaphthene	72	46-118
2-Chloronaphthalene	73	
Fluoranthene	97	
Anthracene	49	
Pyrene	86	26-127
Pentachlorophenol	101	9-103
Surrogate(s)		
2-Fluorophenol	51	21-120
Phenol-d6	47	10-120
Nitrobenzene-d5	91	23-120
2-Fluorobiphenyl	79	43-120
2,4,6-Tribromophenol	107	10-120
4-Terphenyl-d14	94	33-120
PAH by GC/MS SIM 8270M LCS for sample(s) 02-07 (WG195247-2)		
Acenaphthene	68	40-140
2-Chloronaphthalene	71	40-140
Fluoranthene	88	40-140
Anthracene	49	40-140
Pyrene	80	40-140
Pentachlorophenol	82	40-140
Surrogate(s)		
2-Fluorophenol	80	25-120
Phenol-d6	105	10-120
Nitrobenzene-d5	88	23-120
2-Fluorobiphenyl	75	30-120
2,4,6-Tribromophenol	110	19-120
4-Terphenyl-d14	86	18-120
Polychlorinated Biphenyls LCS for sample(s) 08 (WG195206-2)		
Aroclor 1242/1016	75	30-150
Aroclor 1260	84	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	70	30-150
Decachlorobiphenyl	76	30-150
Polychlorinated Biphenyls LCS for sample(s) 02-07 (WG195255-2)		
Aroclor 1242/1016	85	40-140
Aroclor 1260	111	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	83	30-150
Decachlorobiphenyl	114	30-150

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501881

Continued

Parameter	% Recovery	QC Criteria
Organochlorine Pesticides LCS for sample(s) 02-07 (WG195251-2)		
Delta-BHC	56	
Lindane	65	46-127
Alpha-BHC	61	
Beta-BHC	66	
Heptachlor	67	35-130
Aldrin	67	34-132
Heptachlor epoxide	72	
Endrin	87	42-139
Endrin aldehyde	49	
Endrin ketone	67	
Dieldrin	78	31-134
4,4'-DDE	80	
4,4'-DDD	78	
4,4'-DDT	91	23-134
Endosulfan I	66	
Endosulfan II	77	
Endosulfan sulfate	62	
Methoxychlor	92	
cis-Chlordane	72	
trans-Chlordane	68	
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	60	30-150
Decachlorobiphenyl	79	30-150
Organochlorine Pesticides LCS for sample(s) 08 (WG195340-2)		
Delta-BHC	63	
Lindane	70	
Alpha-BHC	69	
Beta-BHC	72	
Heptachlor	80	
Aldrin	72	
Heptachlor epoxide	76	
Endrin	102	
Endrin aldehyde	76	
Endrin ketone	80	
Dieldrin	83	
4,4'-DDE	83	
4,4'-DDD	83	
4,4'-DDT	91	
Endosulfan I	74	
Endosulfan II	74	
Endosulfan sulfate	82	
Methoxychlor	121	
cis-Chlordane	79	
trans-Chlordane	76	

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0501881

Continued

Parameter	% Recovery	QC Criteria
Organochlorine Pesticides LCS for sample(s) 08 (WG195340-2)		
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	66	30-150
Decachlorobiphenyl	66	30-150
Total Metals SPIKE for sample(s) 08 (L0501853-02, WG195289-2)		
Aluminum, Total	110	75-125
Antimony, Total	100	75-125
Arsenic, Total	105	75-125
Barium, Total	107	75-125
Beryllium, Total	98	75-125
Cadmium, Total	105	75-125
Calcium, Total	90	75-125
Chromium, Total	95	75-125
Cobalt, Total	96	75-125
Copper, Total	92	75-125
Iron, Total	100	75-125
Lead, Total	103	75-125
Magnesium, Total	102	75-125
Manganese, Total	98	75-125
Nickel, Total	95	75-125
Potassium, Total	120	75-125
Selenium, Total	111	75-125
Silver, Total	99	75-125
Sodium, Total	108	75-125
Thallium, Total	98	75-125
Vanadium, Total	98	75-125
Zinc, Total	94	75-125
Total Metals SPIKE for sample(s) 02-07 (L0501881-03, WG195435-2)		
Aluminum, Total	0	70-140
Antimony, Total	82	70-140
Arsenic, Total	99	70-140
Barium, Total	92	70-140
Beryllium, Total	99	70-140
Cadmium, Total	99	70-140
Calcium, Total	78	70-140
Chromium, Total	74	70-140
Cobalt, Total	94	70-140
Copper, Total	101	70-140
Iron, Total	0	70-140
Lead, Total	91	70-140
Magnesium, Total	23	70-140
Manganese, Total	0	70-140
Nickel, Total	89	70-140
Potassium, Total	87	70-140
Selenium, Total	89	70-140
Silver, Total	99	70-140

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0501881

Continued

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Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 02-07 (L0501881-03, WG195435-2)		
Sodium, Total	112	70-140
Thallium, Total	97	70-140
Vanadium, Total	88	70-140
Zinc, Total	82	70-140
Total Metals SPIKE for sample(s) 02-07 (L0501881-03, WG195313-2)		
Mercury, Total	109	70-130
Total Metals SPIKE for sample(s) 08 (L0502002-09, WG195405-2)		
Mercury, Total	120	70-130

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**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0501881

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 08-09 (L0501495-03, WG195061-2)					
Chlorobenzene	84	83	1		
Benzene	83	84	1		
Toluene	86	83	4		
1,1-Dichloroethene	92	90	2		
Trichloroethene	77	82	6		
Surrogate(s)					
1,2-Dichloroethane-d4	114	116	2		
Toluene-d8	102	100	2		
4-Bromofluorobenzene	102	105	3		
Dibromofluoromethane	107	102	5		
Volatile Organics by GC/MS 8260 for sample(s) 01-07 (L0501881-07, WG195363-2)					
Chlorobenzene	90	97	7		
Benzene	93	93	0		
Toluene	87	90	3		
1,1-Dichloroethene	90	90	0		
Trichloroethene	91	93	2		
Surrogate(s)					
1,2-Dichloroethane-d4	95	94	1		
Toluene-d8	98	98	0		
4-Bromofluorobenzene	103	105	2		
Dibromofluoromethane	95	94	1		
SVOC's by GC/MS 8270 for sample(s) 08 (L0501881-08, WG195105-4)					
Acenaphthene	81	77	5		
1,2,4-Trichlorobenzene	77	68	12		
2-Chloronaphthalene	85	77	10		
1,2-Dichlorobenzene	68	60	13		
1,4-Dichlorobenzene	64	60	6		
2,4-Dinitrotoluene	128	112	17		
2,6-Dinitrotoluene	120	110	9		
Fluoranthene	110	89	21		
4-Chlorophenyl phenyl ether	89	81	9		
n-Nitrosodi-n-propylamine	64	60	6		
Butyl benzyl phthalate	94	77	20		
Anthracene	55	47	16		
Pyrene	100	85	16		
Hexachloropropene	81	68	17		
P-Chloro-M-Cresol	83	77	8		
2-Chlorophenol	64	57	12		
2-Nitrophenol	81	72	12		
4-Nitrophenol	86	77	10		
2,4-Dinitrophenol	79	79	0		
Pentachlorophenol	100	85	16		
Phenol	49	45	9		

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0501881

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 08 (L0501881-08, WG195105-4)					
Surrogate(s)					
2-Fluorophenol	56	49	13		
Phenol-d6	59	52	13		
Nitrobenzene-d5	90	80	12		
2-Fluorobiphenyl	88	79	11		
2,4,6-Tribromophenol	84	70	18		
4-Terphenyl-d14	114	95	18		
SVOC's by GC/MS 8270 for sample(s) 02-07 (L0501881-07, WG195246-4)					
Acenaphthene	64	69	8	50	31-137
1,2,4-Trichlorobenzene	64	64	0	50	38-107
2-Chloronaphthalene	67	67	0	50	
1,2-Dichlorobenzene	64	59	8	50	
1,4-Dichlorobenzene	61	56	9	50	28-104
2,4-Dinitrotoluene	85	83	2	50	28-89
2,6-Dinitrotoluene	83	85	2	50	
Fluoranthene	88	85	3	50	
4-Chlorophenyl phenyl ether	75	77	3	50	
n-Nitrosodi-n-propylamine	53	48	10	50	41-126
Butyl benzyl phthalate	85	83	2	50	
Anthracene	48	48	0	50	
Pyrene	85	80	6	50	35-142
Hexachloropropene	69	67	3	50	
P-Chloro-M-Cresol	73	77	5	50	26-103
2-Chlorophenol	60	57	5	50	25-102
2-Nitrophenol	60	56	7	50	
4-Nitrophenol	87	83	5	50	11-114
2,4-Dinitrophenol	75	55	31	50	
Pentachlorophenol	52	45	14	50	17-109
Phenol	56	55	2	50	26-90
Surrogate(s)					
2-Fluorophenol	65	60	8		25-120
Phenol-d6	75	70	7		10-120
Nitrobenzene-d5	68	63	8		23-120
2-Fluorobiphenyl	70	71	1		30-120
2,4,6-Tribromophenol	98	94	4		19-120
4-Terphenyl-d14	90	87	3		18-120
PAH by GC/MS SIM 8270M for sample(s) 08 (L0501881-08, WG195104-4)					
Acenaphthene	68	68	0	40	46-118
2-Chloronaphthalene	68	68	0	40	
Fluoranthene	85	81	5	40	
Anthracene	47	43	9	40	
Pyrene	81	77	5	40	26-127
Pentachlorophenol	96	89	8	40	9-103



**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0501881

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
PAH by GC/MS SIM 8270M for sample(s) 08 (L0501881-08, WG195104-4)					
Surrogate(s)					
2-Fluorophenol	66	61	8		21-120
Phenol-d6	73	67	9		10-120
Nitrobenzene-d5	84	76	10		23-120
2-Fluorobiphenyl	71	68	4		43-120
2,4,6-Tribromophenol	104	92	12		10-120
4-Terphenyl-d14	87	80	8		33-120
PAH by GC/MS SIM 8270M for sample(s) 02-07 (L0501881-02, WG195247-4)					
Acenaphthene	65	47	32	50	40-140
2-Chloronaphthalene	63	44	36	50	40-140
Fluoranthene	110	91	19	50	40-140
Anthracene	52	44	17	50	40-140
Pyrene	86	73	16	50	40-140
Pentachlorophenol	64	69	8	50	40-140
Surrogate(s)					
2-Fluorophenol	70	53	28		25-120
Phenol-d6	92	68	30		10-120
Nitrobenzene-d5	75	56	29		23-120
2-Fluorobiphenyl	65	50	26		30-120
2,4,6-Tribromophenol	128	90	35		19-120
4-Terphenyl-d14	99	88	12		18-120
Polychlorinated Biphenyls for sample(s) 08 (L0501881-08, WG195206-4)					
Aroclor 1242/1016	76	79	4	30	30-150
Aroclor 1260	84	84	0	30	30-150
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	82	82	0		30-150
Decachlorobiphenyl	77	78	1		30-150
Polychlorinated Biphenyls for sample(s) 02-07 (L0501881-03, WG195255-4)					
Aroclor 1242/1016	70	61	14	50	40-140
Aroclor 1260	104	81	25	50	40-140
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	73	55	28		30-150
Decachlorobiphenyl	108	70	43		30-150
Organochlorine Pesticides for sample(s) 02-07 (L0501881-03, WG195251-4)					
Delta-BHC	53	54	2	50	
Lindane	67	64	4	50	46-127
Alpha-BHC	63	62	1	50	
Beta-BHC	67	63	6	50	
Heptachlor	68	67	2	50	35-130

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0501881

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Organochlorine Pesticides for sample(s) 02-07 (L0501881-03, WG195251-4)					
Aldrin	67	67	0	50	34-132
Heptachlor epoxide	68	66	4	50	
Endrin	83	80	3	50	42-139
Endrin aldehyde	51	48	6	50	
Endrin ketone	68	69	1	50	
Dieldrin	73	71	2	50	31-134
4,4'-DDE	73	71	3	50	
4,4'-DDD	72	73	2	50	
4,4'-DDT	87	85	3	50	23-134
Endosulfan I	63	61	3	50	
Endosulfan II	72	73	1	50	
Endosulfan sulfate	65	67	3	50	
Methoxychlor	87	87	1	50	
cis-Chlordane	68	66	3	50	
trans-Chlordane	64	63	1	50	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	65	64	2		30-150
Decachlorobiphenyl	73	71	3		30-150
Organochlorine Pesticides for sample(s) 08 (L0501881-08, WG195340-4)					
Delta-BHC	62	61	2	30	
Lindane	65	65	0	30	
Alpha-BHC	62	62	0	30	
Beta-BHC	71	68	4	30	
Heptachlor	76	74	3	30	
Aldrin	68	67	1	30	
Heptachlor epoxide	73	71	3	30	
Endrin	101	99	2	30	
Endrin aldehyde	64	60	6	30	
Endrin ketone	81	77	5	30	
Dieldrin	80	79	1	30	
4,4'-DDE	88	82	7	30	
4,4'-DDD	80	75	6	30	
4,4'-DDT	94	89	5	30	
Endosulfan I	71	70	1	30	
Endosulfan II	74	71	4	30	
Endosulfan sulfate	84	78	7	30	
Methoxychlor	127	120	6	30	
cis-Chlordane	79	76	4	30	
trans-Chlordane	73	71	3	30	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	62	61	2		30-150
Decachlorobiphenyl	61	60	2		30-150

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0501881

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 08 (WG195289-3)							
Total Metals				1	3015		
Aluminum, Total	ND	mg/l	0.10	1	6010B	0228 15:45	0302 10:53 RW
Antimony, Total	ND	mg/l	0.006	1	6010B	0228 15:45	0302 10:53 RW
Arsenic, Total	ND	mg/l	0.005	1	6010B	0228 15:45	0302 10:53 RW
Barium, Total	ND	mg/l	0.01	1	6010B	0228 15:45	0302 10:53 RW
Beryllium, Total	ND	mg/l	0.0025	1	6010B	0228 15:45	0302 10:53 RW
Cadmium, Total	ND	mg/l	0.0025	1	6010B	0228 15:45	0302 10:53 RW
Calcium, Total	ND	mg/l	0.10	1	6010B	0228 15:45	0302 10:53 RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0228 15:45	0302 10:53 RW
Cobalt, Total	ND	mg/l	0.02	1	6010B	0228 15:45	0302 10:53 RW
Copper, Total	ND	mg/l	0.01	1	6010B	0228 15:45	0302 10:53 RW
Iron, Total	ND	mg/l	0.05	1	6010B	0228 15:45	0302 10:53 RW
Lead, Total	ND	mg/l	0.010	1	6010B	0228 15:45	0302 10:53 RW
Magnesium, Total	ND	mg/l	0.10	1	6010B	0228 15:45	0302 10:53 RW
Manganese, Total	ND	mg/l	0.01	1	6010B	0228 15:45	0302 10:53 RW
Nickel, Total	ND	mg/l	0.010	1	6010B	0228 15:45	0302 10:53 RW
Potassium, Total	ND	mg/l	2.5	1	6010B	0228 15:45	0302 10:53 RW
Selenium, Total	ND	mg/l	0.005	1	6010B	0228 15:45	0302 10:53 RW
Silver, Total	ND	mg/l	0.007	1	6010B	0228 15:45	0302 10:53 RW
Sodium, Total	ND	mg/l	2.0	1	6010B	0228 15:45	0302 10:53 RW
Thallium, Total	ND	mg/l	0.005	1	6010B	0228 15:45	0302 10:53 RW
Vanadium, Total	ND	mg/l	0.01	1	6010B	0228 15:45	0302 10:53 RW
Zinc, Total	ND	mg/l	0.05	1	6010B	0228 15:45	0302 10:53 RW
Blank Analysis for sample(s) 02-07 (WG195435-3)							
Total Metals				1	3051		
Aluminum, Total	ND	mg/kg	4.0	1	6010B	0301 21:00	0303 07:51 RW
Antimony, Total	ND	mg/kg	2.0	1	6010B	0301 21:00	0303 07:51 RW
Arsenic, Total	ND	mg/kg	0.40	1	6010B	0301 21:00	0303 07:51 RW
Barium, Total	ND	mg/kg	0.40	1	6010B	0301 21:00	0303 07:51 RW
Beryllium, Total	ND	mg/kg	0.1000	1	6010B	0301 21:00	0303 07:51 RW
Cadmium, Total	ND	mg/kg	0.1000	1	6010B	0301 21:00	0303 07:51 RW
Calcium, Total	ND	mg/kg	4.0	1	6010B	0301 21:00	0303 07:51 RW
Chromium, Total	ND	mg/kg	0.40	1	6010B	0301 21:00	0303 07:51 RW
Cobalt, Total	ND	mg/kg	0.80	1	6010B	0301 21:00	0303 07:51 RW
Copper, Total	ND	mg/kg	0.40	1	6010B	0301 21:00	0303 07:51 RW
Iron, Total	ND	mg/kg	2.0	1	6010B	0301 21:00	0303 07:51 RW
Lead, Total	ND	mg/kg	2.0	1	6010B	0301 21:00	0303 07:51 RW
Magnesium, Total	ND	mg/kg	4.0	1	6010B	0301 21:00	0303 07:51 RW
Manganese, Total	ND	mg/kg	0.40	1	6010B	0301 21:00	0303 07:51 RW
Nickel, Total	ND	mg/kg	0.400	1	6010B	0301 21:00	0303 07:51 RW
Potassium, Total	ND	mg/kg	100	1	6010B	0301 21:00	0303 07:51 RW
Selenium, Total	ND	mg/kg	0.200	1	6010B	0301 21:00	0303 07:51 RW
Silver, Total	ND	mg/kg	0.40	1	6010B	0301 21:00	0303 07:51 RW
Sodium, Total	ND	mg/kg	80.	1	6010B	0301 21:00	0303 07:51 RW

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-07 (WG195435-3)							
Total Metals				1	3051		
Thallium, Total	ND	mg/kg	0.40	1	6010B	0301 21:00	0303 07:51 RW
Vanadium, Total	ND	mg/kg	0.40	1	6010B	0301 21:00	0303 07:51 RW
Zinc, Total	ND	mg/kg	2.0	1	6010B	0301 21:00	0303 07:51 RW
Blank Analysis for sample(s) 02-07 (WG195313-4)							
Total Metals							
Mercury, Total	ND	mg/kg	0.08	1	7471A	0228 19:25	0301 16:16 DM
Blank Analysis for sample(s) 08 (WG195405-4)							
Total Metals							
Mercury, Total	ND	mg/l	0.0002	1	7470A	0301 17:45	0302 12:18 DM
Blank Analysis for sample(s) 08-09 (WG195061-6)							
Volatile Organics by GC/MS 8260				1	8260B		0225 11:09 BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 08-09 (WG195061-6)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0225 11:09 BT	
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 08-09 (WG195061-6)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0225	11:09 BT
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	114.	%					
Toluene-d8	102.	%					
4-Bromofluorobenzene	105.	%					
Dibromofluoromethane	104.	%					
Blank Analysis for sample(s) 01-07 (WG195363-8)							
Volatile Organics by GC/MS 8260				1	8260B	0228	16:41 BT
Methylene chloride	ND	ug/kg	25.				
1,1-Dichloroethane	ND	ug/kg	3.8				
Chloroform	ND	ug/kg	3.8				
Carbon tetrachloride	ND	ug/kg	2.5				
1,2-Dichloropropane	ND	ug/kg	8.8				
Dibromochloromethane	ND	ug/kg	2.5				
1,1,2-Trichloroethane	ND	ug/kg	3.8				
Tetrachloroethene	ND	ug/kg	2.5				
Chlorobenzene	ND	ug/kg	2.5				
Trichlorofluoromethane	ND	ug/kg	12.				
1,2-Dichloroethane	ND	ug/kg	2.5				
1,1,1-Trichloroethane	ND	ug/kg	2.5				
Bromodichloromethane	ND	ug/kg	2.5				
trans-1,3-Dichloropropene	ND	ug/kg	2.5				
cis-1,3-Dichloropropene	ND	ug/kg	2.5				
1,1-Dichloropropene	ND	ug/kg	12.				
Bromoform	ND	ug/kg	10.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.5				
Benzene	ND	ug/kg	2.5				
Toluene	ND	ug/kg	3.8				
Ethylbenzene	ND	ug/kg	2.5				
Chloromethane	ND	ug/kg	12.				
Bromomethane	ND	ug/kg	5.0				
Vinyl chloride	ND	ug/kg	5.0				
Chloroethane	ND	ug/kg	5.0				
1,1-Dichloroethene	ND	ug/kg	2.5				
trans-1,2-Dichloroethene	ND	ug/kg	3.8				
Trichloroethene	ND	ug/kg	2.5				
1,2-Dichlorobenzene	ND	ug/kg	12.				
1,3-Dichlorobenzene	ND	ug/kg	12.				
1,4-Dichlorobenzene	ND	ug/kg	12.				
Methyl tert butyl ether	ND	ug/kg	5.0				
p/m-Xylene	ND	ug/kg	2.5				
o-Xylene	ND	ug/kg	2.5				
cis-1,2-Dichloroethene	ND	ug/kg	2.5				
Dibromomethane	ND	ug/kg	25.				
1,4-Dichlorobutane	ND	ug/kg	25.				
Iodomethane	ND	ug/kg	25.				

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					PREP	ANAL	
Blank Analysis for sample(s) 01-07 (WG195363-8)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0228	16:41 BT
1,2,3-Trichloropropane	ND	ug/kg	25.				
Styrene	ND	ug/kg	2.5				
Dichlorodifluoromethane	ND	ug/kg	25.				
Acetone	ND	ug/kg	25.				
Carbon disulfide	ND	ug/kg	25.				
2-Butanone	ND	ug/kg	25.				
Vinyl acetate	ND	ug/kg	25.				
4-Methyl-2-pentanone	ND	ug/kg	25.				
2-Hexanone	ND	ug/kg	25.				
Ethyl methacrylate	ND	ug/kg	25.				
Acrolein	ND	ug/kg	62.				
Acrylonitrile	ND	ug/kg	25.				
Bromochloromethane	ND	ug/kg	12.				
Tetrahydrofuran	ND	ug/kg	50.				
2,2-Dichloropropane	ND	ug/kg	12.				
1,2-Dibromoethane	ND	ug/kg	10.				
1,3-Dichloropropane	ND	ug/kg	12.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.5				
Bromobenzene	ND	ug/kg	12.				
n-Butylbenzene	ND	ug/kg	2.5				
sec-Butylbenzene	ND	ug/kg	2.5				
tert-Butylbenzene	ND	ug/kg	12.				
o-Chlorotoluene	ND	ug/kg	12.				
p-Chlorotoluene	ND	ug/kg	12.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.				
Hexachlorobutadiene	ND	ug/kg	12.				
Isopropylbenzene	ND	ug/kg	2.5				
p-Isopropyltoluene	ND	ug/kg	2.5				
Naphthalene	ND	ug/kg	12.				
n-Propylbenzene	ND	ug/kg	2.5				
1,2,3-Trichlorobenzene	ND	ug/kg	12.				
1,2,4-Trichlorobenzene	ND	ug/kg	12.				
1,3,5-Trimethylbenzene	ND	ug/kg	12.				
1,2,4-Trimethylbenzene	ND	ug/kg	12.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	12.				
Ethyl ether	ND	ug/kg	12.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	101.	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	113.	%					
Dibromofluoromethane	90.0	%					
Blank Analysis for sample(s) 08 (WG195105-1)							
SVOC's by GC/MS 8270				1	8270C	0225	11:45 0301 21:47 HL
Acenaphthene	ND	ug/l	5.0				

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					PREP	ANAL	
Blank Analysis for sample(s) 08 (WG195105-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0225 11:45	0301 21:47	HL
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				



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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 08 (WG195105-1)							
SVOC's by GC/MS 8270 continued				1	8270C	0225 11:45	0301 21:47 HL
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 08 (WG195105-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0225 11:45	0301 21:47	HL
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	43.0	%					
Phenol-d6	35.0	%					
Nitrobenzene-d5	88.0	%					
2-Fluorobiphenyl	77.0	%					
2,4,6-Tribromophenol	80.0	%					
4-Terphenyl-d14	116.	%					
Blank Analysis for sample(s) 02-07 (WG195246-1)							
SVOC's by GC/MS 8270				1 8270C	0226 11:00	0301 19:44	HL
Acenaphthene	ND	ug/kg	170				
Benzidine	ND	ug/kg	1700				
1,2,4-Trichlorobenzene	ND	ug/kg	170				
Hexachlorobenzene	ND	ug/kg	170				
Bis(2-chloroethyl)ether	ND	ug/kg	170				
1-Chloronaphthalene	ND	ug/kg	170				
2-Chloronaphthalene	ND	ug/kg	200				
1,2-Dichlorobenzene	ND	ug/kg	170				
1,3-Dichlorobenzene	ND	ug/kg	170				
1,4-Dichlorobenzene	ND	ug/kg	170				
3,3'-Dichlorobenzidine	ND	ug/kg	1700				
2,4-Dinitrotoluene	ND	ug/kg	200				
2,6-Dinitrotoluene	ND	ug/kg	170				
Azobenzene	ND	ug/kg	170				
Fluoranthene	ND	ug/kg	170				
4-Chlorophenyl phenyl ether	ND	ug/kg	170				
4-Bromophenyl phenyl ether	ND	ug/kg	170				
Bis(2-chloroisopropyl)ether	ND	ug/kg	170				
Bis(2-chloroethoxy)methane	ND	ug/kg	170				
Hexachlorobutadiene	ND	ug/kg	330				
Hexachlorocyclopentadiene	ND	ug/kg	330				
Hexachloroethane	ND	ug/kg	170				
Isophorone	ND	ug/kg	170				
Naphthalene	ND	ug/kg	170				
Nitrobenzene	ND	ug/kg	170				
NDPA/DPA	ND	ug/kg	500				
n-Nitrosodi-n-propylamine	ND	ug/kg	170				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	330				
Butyl benzyl phthalate	ND	ug/kg	170				

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-07 (WG195246-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0226 11:00	0301 19:44	HL
Di-n-butylphthalate	ND	ug/kg	170				
Di-n-octylphthalate	ND	ug/kg	170				
Diethyl phthalate	ND	ug/kg	170				
Dimethyl phthalate	ND	ug/kg	170				
Benzo(a)anthracene	ND	ug/kg	170				
Benzo(a)pyrene	ND	ug/kg	170				
Benzo(b)fluoranthene	ND	ug/kg	170				
Benzo(k)fluoranthene	ND	ug/kg	170				
Chrysene	ND	ug/kg	170				
Acenaphthylene	ND	ug/kg	170				
Anthracene	ND	ug/kg	170				
Benzo(ghi)perylene	ND	ug/kg	170				
Fluorene	ND	ug/kg	170				
Phenanthrene	ND	ug/kg	170				
Dibenzo(a,h)anthracene	ND	ug/kg	170				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	170				
Pyrene	ND	ug/kg	170				
Benzo(e)pyrene	ND	ug/kg	170				
Biphenyl	ND	ug/kg	170				
Perylene	ND	ug/kg	170				
Aniline	ND	ug/kg	330				
4-Chloroaniline	ND	ug/kg	170				
1-Methylnaphthalene	ND	ug/kg	170				
2-Nitroaniline	ND	ug/kg	170				
3-Nitroaniline	ND	ug/kg	170				
4-Nitroaniline	ND	ug/kg	230				
Dibenzofuran	ND	ug/kg	170				
a,a-Dimethylphenethylamine	ND	ug/kg	1700				
Hexachloropropene	ND	ug/kg	330				
Nitrosodi-n-butylamine	ND	ug/kg	330				
2-Methylnaphthalene	ND	ug/kg	270				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	670				
Pentachlorobenzene	ND	ug/kg	670				
a-Naphthylamine	ND	ug/kg	670				
b-Naphthylamine	ND	ug/kg	670				
Phenacetin	ND	ug/kg	330				
Dimethoate	ND	ug/kg	670				
4-Aminobiphenyl	ND	ug/kg	330				
Pentachloronitrobenzene	ND	ug/kg	330				
Isodrin	ND	ug/kg	330				
p-Dimethylaminoazobenzene	ND	ug/kg	330				
Chlorobenzilate	ND	ug/kg	670				
3-Methylcholanthrene	ND	ug/kg	670				
Ethyl Methanesulfonate	ND	ug/kg	500				
Acetophenone	ND	ug/kg	670				
Nitrosodipiperidine	ND	ug/kg	670				

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0501881

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-07 (WG195246-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0226 11:00	0301 19:44	HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	330				
n-Nitrosodimethylamine	ND	ug/kg	1700				
2,4,6-Trichlorophenol	ND	ug/kg	170				
p-Chloro-m-cresol	ND	ug/kg	170				
2-Chlorophenol	ND	ug/kg	200				
2,4-Dichlorophenol	ND	ug/kg	330				
2,4-Dimethylphenol	ND	ug/kg	330				
2-Nitrophenol	ND	ug/kg	670				
4-Nitrophenol	ND	ug/kg	330				
2,4-Dinitrophenol	ND	ug/kg	670				
4,6-Dinitro-o-cresol	ND	ug/kg	670				
Pentachlorophenol	ND	ug/kg	670				
Phenol	ND	ug/kg	230				
2-Methylphenol	ND	ug/kg	200				
3-Methylphenol/4-Methylphenol	ND	ug/kg	200				
2,4,5-Trichlorophenol	ND	ug/kg	170				
2,6-Dichlorophenol	ND	ug/kg	330				
Benzoic Acid	ND	ug/kg	1700				
Benzyl Alcohol	ND	ug/kg	330				
Carbazole	ND	ug/kg	170				
Pyridine	ND	ug/kg	1700				
2-Picoline	ND	ug/kg	670				
Pronamide	ND	ug/kg	670				
Methyl methanesulfonate	ND	ug/kg	670				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	84.0	%	25-120				
Phenol-d6	102.	%	10-120				
Nitrobenzene-d5	108.	%	23-120				
2-Fluorobiphenyl	90.0	%	30-120				
2,4,6-Tribromophenol	70.0	%	19-120				
4-Terphenyl-d14	124.	%	18-120				
Blank Analysis for sample(s) 08 (WG195104-1)							
PAH by GC/MS SIM 8270M				1 8270C-M	0225 11:45	0301 18:57	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0501881

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 08 (WG195104-1)							
PAH by GC/MS SIM 8270M continued				1	8270C-M	0225 11:45	0301 18:57 RL
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	41.0	%	21-120				
Phenol-d6	32.0	%	10-120				
Nitrobenzene-d5	77.0	%	23-120				
2-Fluorobiphenyl	70.0	%	43-120				
2,4,6-Tribromophenol	94.0	%	10-120				
4-Terphenyl-d14	92.0	%	33-120				
Blank Analysis for sample(s) 02-07 (WG195247-1)							
PAH by GC/MS SIM 8270M				1	8270C-M	0226 11:00	0301 23:51 RL
Acenaphthene	ND	ug/kg	6.7				
2-Chloronaphthalene	ND	ug/kg	6.7				
Fluoranthene	ND	ug/kg	6.7				
Hexachlorobutadiene	ND	ug/kg	17.				
Naphthalene	ND	ug/kg	6.7				
Benzo(a)anthracene	ND	ug/kg	6.7				
Benzo(a)pyrene	ND	ug/kg	6.7				
Benzo(b)fluoranthene	ND	ug/kg	6.7				
Benzo(k)fluoranthene	ND	ug/kg	6.7				
Chrysene	ND	ug/kg	6.7				
Acenaphthylene	ND	ug/kg	6.7				
Anthracene	ND	ug/kg	6.7				
Benzo(ghi)perylene	ND	ug/kg	6.7				
Fluorene	ND	ug/kg	6.7				
Phenanthrene	ND	ug/kg	6.7				
Dibenzo(a,h)anthracene	ND	ug/kg	6.7				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	6.7				
Pyrene	ND	ug/kg	6.7				

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0501881

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-07 (WG195247-1)							
PAH by GC/MS SIM 8270M continued				1	8270C-M	0226 11:00	0301 23:51 RL
1-Methylnaphthalene	ND	ug/kg	6.7				
2-Methylnaphthalene	ND	ug/kg	6.7				
Pentachlorophenol	ND	ug/kg	27.				
Hexachlorobenzene	ND	ug/kg	27.				
Perylene	ND	ug/kg	6.7				
Biphenyl	ND	ug/kg	6.7				
2,6-Dimethylnaphthalene	ND	ug/kg	6.7				
1-Methylphenanthrene	ND	ug/kg	6.7				
Benzo(e)Pyrene	ND	ug/kg	6.7				
Hexachloroethane	ND	ug/kg	27.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	72.0	%	25-120				
Phenol-d6	93.0	%	10-120				
Nitrobenzene-d5	78.0	%	23-120				
2-Fluorobiphenyl	67.0	%	30-120				
2,4,6-Tribromophenol	77.0	%	19-120				
4-Terphenyl-d14	83.0	%	18-120				
Blank Analysis for sample(s) 08 (WG195206-1)							
Polychlorinated Biphenyls				1	8082	0225 14:50	0228 17:41 JB
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	71.0	%	30-150				
Decachlorobiphenyl	82.0	%	30-150				
Blank Analysis for sample(s) 02-07 (WG195255-1)							
Polychlorinated Biphenyls				1	8082	0225 13:10	0301 15:17 JB
Aroclor 1221	ND	ug/kg	33.3				
Aroclor 1232	ND	ug/kg	33.3				
Aroclor 1242/1016	ND	ug/kg	33.3				
Aroclor 1248	ND	ug/kg	33.3				
Aroclor 1254	ND	ug/kg	33.3				
Aroclor 1260	ND	ug/kg	33.3				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	88.0	%	30-150				
Decachlorobiphenyl	119.	%	30-150				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0501881

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-07 (WG195251-1)							
Organochlorine Pesticides				1 8081	0225 11:40	0301 12:52	BW
Delta-BHC	ND	ug/kg	3.33				
Lindane	ND	ug/kg	3.33				
Alpha-BHC	ND	ug/kg	3.33				
Beta-BHC	ND	ug/kg	3.33				
Heptachlor	ND	ug/kg	3.33				
Aldrin	ND	ug/kg	3.33				
Heptachlor epoxide	ND	ug/kg	3.33				
Endrin	ND	ug/kg	3.33				
Endrin aldehyde	ND	ug/kg	3.33				
Endrin ketone	ND	ug/kg	3.33				
Dieldrin	ND	ug/kg	3.33				
4,4'-DDE	ND	ug/kg	3.33				
4,4'-DDD	ND	ug/kg	3.33				
4,4'-DDT	ND	ug/kg	3.33				
Endosulfan I	ND	ug/kg	3.33				
Endosulfan II	ND	ug/kg	3.33				
Endosulfan sulfate	ND	ug/kg	3.33				
Methoxychlor	ND	ug/kg	3.33				
Toxaphene	ND	ug/kg	13.3				
Chlordane	ND	ug/kg	13.3				
cis-Chlordane	ND	ug/kg	3.33				
trans-Chlordane	ND	ug/kg	3.33				

Surrogate(s)	Recovery		QC Criteria
2,4,5,6-Tetrachloro-m-xylene	75.0	%	30-150
Decachlorobiphenyl	84.0	%	30-150

Blank Analysis for sample(s) 08 (WG195340-1)							
Organochlorine Pesticides				1 8081	0228 16:20	0301 16:58	JB
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0501881

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 08 (WG195340-1)							
Organochlorine Pesticides continued				1 8081	0228 16:20	0301 16:58	JB
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	66.0	%	30-150				
Decachlorobiphenyl	68.0	%	30-150				



**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.  
METHOD Method number by which analysis was performed.  
ID Initials of the analyst.  
ND Not detected in comparison to the reported detection limit.  
NI Not Ignitable.  
ug/cart Micrograms per Cartridge.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. 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, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. 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, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

**Client:** AKRF, Inc. **Laboratory Job Number:** L0502002  
**Address:** 116 E. 27th Street  
7th Floor  
New York, NY 10016 **Date Received:** 28-FEB-2005  
**Attn:** Mr. Axel Schwendt **Date Reported:** 07-MAR-2005  
**Project Number:** 10470-0213 **Delivery Method:** Fed Ex  
**Site:** COLUMBIA

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0502002-01	MW/CB-11 (2'-4')	HARLEM, NY
L0502002-02	MW/CB-11 (14.5'-16')	HARLEM, NY
L0502002-03	MW/CB-12 (6'-8')	HARLEM, NY
L0502002-04	MW/CB-12 (18.5'-20')	HARLEM, NY
L0502002-05	MW/CB-13 (2'-4')	HARLEM, NY
L0502002-06	MW/CB-13 (6'-8')	HARLEM, NY
L0502002-07	MW/CB-14 (2'-4')	HARLEM, NY
L0502002-08	MW/CB-14 (6'-8')	HARLEM, NY
L0502002-09	FIELD BLANK	HARLEM, NY
L0502002-10	TRIP BLANK	HARLEM, NY

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

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Authorized by: Scott McLean  
This document electronically signed

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0502002

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Report Submission

The VOA vial for sample MW/CB-11 14.5'-16' was received broken, and was not analyzed at the authorization of the client.

Semi-Volatile Organics

L0502002-09 has high surrogate % recoveries for Nitrobenzene-d5 and 4-Terphenyl-d14.

The wg195374 LCS has a high % recovery for 2,4-Dinitrotoluene.

The wg195374 MS has high % recoveries for p-Chloro-m-cresol, 2,4-Dinitrotoluene, 4-nitrophenol, and Pentachlorophenol

The wg195374 MS has high surrogate % recovery for 4-Terphenyl-d14.

The wg195374 MSD has high % recoveries for 2,4-Dinitrotoluene, 4-nitrophenol, and Pentachlorophenol.

The wg195440 LCS has a low % recovery for 2,4-Dinitrophenol, and a high % recovery for 2,4-Dinitrotoluene.

The wg195440 MS has high % recoveries for 2,4-Dinitrotoluene and 4-nitrophenol.

The wg195440 MS/MSD have high surrogate % recoveries for 4-Terphenyl-d14.

Pesticides

The wg195397 Matrix Spike/ Matrix Spike Duplicate have the surrogate % recoveries for Decachlorobiphenyl above acceptance criteria,

Mercury

The wg195548-2 MS % recovery is outside the acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 108%.

L0502002-05, and -06 were re-analyzed on 5x dilution for Ca in order to quantitate the sample within the range of the calibration.

The result is reported as a greater than value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the range of the calibration.

The wg195659 MS % recoveries for Al, Ca, Fe, Mn is invalid because the sample concentration is greater than four times the spike amount added.

The wg195659 MS % recovery for Mg is outside the acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 105%.

The wg195659 Duplicate RPD for Ca is outside of the acceptance criteria for the method. The elevated RPD has been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

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**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

**Laboratory Sample Number:** L0502002-01 **Date Collected:** 24-FEB-2005 10:15  
**Date Received :** 28-FEB-2005  
**Sample Matrix:** MW/CB-11 (2'-4') **Date Reported :** 07-MAR-2005  
 SOIL  
**Condition of Sample:** Satisfactory **Field Prep:** None  
**Number & Type of Containers:** 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	89.	%	0.10	30 2540G		0302 20:27	PD
Volatile Organics by GC/MS 8260				1 8260B		0301 10:56	BT
Methylene chloride	ND	ug/kg	28.				
1,1-Dichloroethane	ND	ug/kg	4.2				
Chloroform	ND	ug/kg	4.2				
Carbon tetrachloride	ND	ug/kg	2.8				
1,2-Dichloropropane	ND	ug/kg	9.8				
Dibromochloromethane	ND	ug/kg	2.8				
1,1,2-Trichloroethane	ND	ug/kg	4.2				
Tetrachloroethene	ND	ug/kg	2.8				
Chlorobenzene	ND	ug/kg	2.8				
Trichlorofluoromethane	ND	ug/kg	14.				
1,2-Dichloroethane	ND	ug/kg	2.8				
1,1,1-Trichloroethane	ND	ug/kg	2.8				
Bromodichloromethane	ND	ug/kg	2.8				
trans-1,3-Dichloropropene	ND	ug/kg	2.8				
cis-1,3-Dichloropropene	ND	ug/kg	2.8				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8				
Benzene	13.	ug/kg	2.8				
Toluene	4.5	ug/kg	4.2				
Ethylbenzene	ND	ug/kg	2.8				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.6				
Vinyl chloride	ND	ug/kg	5.6				
Chloroethane	ND	ug/kg	5.6				
1,1-Dichloroethene	ND	ug/kg	2.8				
trans-1,2-Dichloroethene	ND	ug/kg	4.2				
Trichloroethene	ND	ug/kg	2.8				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.6				
p/m-Xylene	ND	ug/kg	2.8				
o-Xylene	ND	ug/kg	2.8				
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-01  
 MW/CB-11 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0301	10:56 BT
1,4-Dichlorobutane	ND	ug/kg	28.				
Iodomethane	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
Styrene	ND	ug/kg	2.8				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Ethyl methacrylate	ND	ug/kg	28.				
Acrolein	ND	ug/kg	70.				
Acrylonitrile	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	56.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	96.0	%					
Toluene-d8	99.0	%					
4-Bromofluorobenzene	124.	%					
Dibromofluoromethane	92.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502002-02 Date Collected: 24-FEB-2005 11:45  
 MW/CB-11 (14.5'-16') Date Received : 28-FEB-2005  
 Sample Matrix: SOIL Date Reported : 07-MAR-2005  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	80.	%	0.10	30 2540G		0302 20:27	PD
Total Metals				1 3051			
Aluminum, Total	5200	mg/kg	5.0	1 6010B	0303 20:00	0304 10:01	RW
Antimony, Total	ND	mg/kg	2.5	1 6010B	0303 20:00	0304 10:01	RW
Arsenic, Total	1.8	mg/kg	0.50	1 6010B	0303 20:00	0304 10:01	RW
Barium, Total	47.	mg/kg	0.50	1 6010B	0303 20:00	0304 10:01	RW
Beryllium, Total	0.2809	mg/kg	0.1250	1 6010B	0303 20:00	0304 10:01	RW
Cadmium, Total	ND	mg/kg	0.1250	1 6010B	0303 20:00	0304 10:01	RW
Calcium, Total	7500	mg/kg	5.0	1 6010B	0303 20:00	0304 10:01	RW
Chromium, Total	8.9	mg/kg	0.50	1 6010B	0303 20:00	0304 10:01	RW
Cobalt, Total	3.9	mg/kg	1.0	1 6010B	0303 20:00	0304 10:01	RW
Copper, Total	9.3	mg/kg	0.50	1 6010B	0303 20:00	0304 10:01	RW
Iron, Total	8500	mg/kg	2.5	1 6010B	0303 20:00	0304 10:01	RW
Lead, Total	23.	mg/kg	2.5	1 6010B	0303 20:00	0304 10:01	RW
Magnesium, Total	1500	mg/kg	5.0	1 6010B	0303 20:00	0304 10:01	RW
Manganese, Total	260	mg/kg	0.50	1 6010B	0303 20:00	0304 10:01	RW
Mercury, Total	ND	mg/kg	0.10	1 7471A	0302 18:20	0303 10:24	DM
Nickel, Total	6.6	mg/kg	0.50	1 6010B	0303 20:00	0304 10:01	RW
Potassium, Total	340	mg/kg	120	1 6010B	0303 20:00	0304 10:01	RW
Selenium, Total	ND	mg/kg	0.250	1 6010B	0303 20:00	0304 10:01	RW
Silver, Total	ND	mg/kg	0.50	1 6010B	0303 20:00	0304 10:01	RW
Sodium, Total	200	mg/kg	100	1 6010B	0303 20:00	0304 10:01	RW
Thallium, Total	ND	mg/kg	0.50	1 6010B	0303 20:00	0304 10:01	RW
Vanadium, Total	8.9	mg/kg	0.50	1 6010B	0303 20:00	0304 10:01	RW
Zinc, Total	19.	mg/kg	2.5	1 6010B	0303 20:00	0304 10:01	RW
SVOC's by GC/MS 8270				1 8270C	0301 20:10	0302 16:46	HL
Acenaphthene	ND	ug/kg	210				
Benzidine	ND	ug/kg	2100				
1,2,4-Trichlorobenzene	ND	ug/kg	210				
Hexachlorobenzene	ND	ug/kg	210				
Bis(2-chloroethyl)ether	ND	ug/kg	210				
1-Chloronaphthalene	ND	ug/kg	210				
2-Chloronaphthalene	ND	ug/kg	250				
1,2-Dichlorobenzene	ND	ug/kg	210				
1,3-Dichlorobenzene	ND	ug/kg	210				
1,4-Dichlorobenzene	ND	ug/kg	210				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-02  
MW/CB-11 (14.5'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0301 20:10	0302 16:46 HL
3,3'-Dichlorobenzidine	ND	ug/kg	2100				
2,4-Dinitrotoluene	ND	ug/kg	250				
2,6-Dinitrotoluene	ND	ug/kg	210				
Azobenzene	ND	ug/kg	210				
Fluoranthene	ND	ug/kg	210				
4-Chlorophenyl phenyl ether	ND	ug/kg	210				
4-Bromophenyl phenyl ether	ND	ug/kg	210				
Bis(2-chloroisopropyl)ether	ND	ug/kg	210				
Bis(2-chloroethoxy)methane	ND	ug/kg	210				
Hexachlorobutadiene	ND	ug/kg	420				
Hexachlorocyclopentadiene	ND	ug/kg	420				
Hexachloroethane	ND	ug/kg	210				
Isophorone	ND	ug/kg	210				
Naphthalene	ND	ug/kg	210				
Nitrobenzene	ND	ug/kg	210				
NDPA/DPA	ND	ug/kg	620				
n-Nitrosodi-n-propylamine	ND	ug/kg	210				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	420				
Butyl benzyl phthalate	ND	ug/kg	210				
Di-n-butylphthalate	ND	ug/kg	210				
Di-n-octylphthalate	ND	ug/kg	210				
Diethyl phthalate	ND	ug/kg	210				
Dimethyl phthalate	ND	ug/kg	210				
Benzo(a)anthracene	ND	ug/kg	210				
Benzo(a)pyrene	ND	ug/kg	210				
Benzo(b)fluoranthene	ND	ug/kg	210				
Benzo(k)fluoranthene	ND	ug/kg	210				
Chrysene	ND	ug/kg	210				
Acenaphthylene	ND	ug/kg	210				
Anthracene	ND	ug/kg	210				
Benzo(ghi)perylene	ND	ug/kg	210				
Fluorene	ND	ug/kg	210				
Phenanthrene	ND	ug/kg	210				
Dibenzo(a,h)anthracene	ND	ug/kg	210				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	210				
Pyrene	ND	ug/kg	210				
Benzo(e)pyrene	ND	ug/kg	210				
Biphenyl	ND	ug/kg	210				
Perylene	ND	ug/kg	210				
Aniline	ND	ug/kg	420				
4-Chloroaniline	ND	ug/kg	210				
1-Methylnaphthalene	ND	ug/kg	210				
2-Nitroaniline	ND	ug/kg	210				
3-Nitroaniline	ND	ug/kg	210				
4-Nitroaniline	ND	ug/kg	290				
Dibenzofuran	ND	ug/kg	210				
a,a-Dimethylphenethylamine	ND	ug/kg	2100				
Hexachloropropene	ND	ug/kg	420				
Nitrosodi-n-butylamine	ND	ug/kg	420				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-02  
 MW/CB-11 (14.5'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0301 20:10	0302 16:46	HL
2-Methylnaphthalene	ND	ug/kg	330				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	830				
Pentachlorobenzene	ND	ug/kg	830				
a-Naphthylamine	ND	ug/kg	830				
b-Naphthylamine	ND	ug/kg	830				
Phenacetin	ND	ug/kg	420				
Dimethoate	ND	ug/kg	830				
4-Aminobiphenyl	ND	ug/kg	420				
Pentachloronitrobenzene	ND	ug/kg	420				
Isodrin	ND	ug/kg	420				
p-Dimethylaminoazobenzene	ND	ug/kg	420				
Chlorobenzilate	ND	ug/kg	830				
3-Methylcholanthrene	ND	ug/kg	830				
Ethyl Methanesulfonate	ND	ug/kg	620				
Acetophenone	ND	ug/kg	830				
Nitrosodipiperidine	ND	ug/kg	830				
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	420				
n-Nitrosodimethylamine	ND	ug/kg	2100				
2,4,6-Trichlorophenol	ND	ug/kg	210				
p-Chloro-m-cresol	ND	ug/kg	210				
2-Chlorophenol	ND	ug/kg	250				
2,4-Dichlorophenol	ND	ug/kg	420				
2,4-Dimethylphenol	ND	ug/kg	420				
2-Nitrophenol	ND	ug/kg	830				
4-Nitrophenol	ND	ug/kg	420				
2,4-Dinitrophenol	ND	ug/kg	830				
4,6-Dinitro-o-cresol	ND	ug/kg	830				
Pentachlorophenol	ND	ug/kg	830				
Phenol	ND	ug/kg	290				
2-Methylphenol	ND	ug/kg	250				
3-Methylphenol/4-Methylphenol	ND	ug/kg	250				
2,4,5-Trichlorophenol	ND	ug/kg	210				
2,6-Dichlorophenol	ND	ug/kg	420				
Benzoic Acid	ND	ug/kg	2100				
Benzyl Alcohol	ND	ug/kg	420				
Carbazole	ND	ug/kg	210				
Pyridine	ND	ug/kg	2100				
2-Picoline	ND	ug/kg	830				
Pronamide	ND	ug/kg	830				
Methyl methanesulfonate	ND	ug/kg	830				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	66.0	%	25-120				
Phenol-d6	81.0	%	10-120				
Nitrobenzene-d5	83.0	%	23-120				
2-Fluorobiphenyl	68.0	%	30-120				
2,4,6-Tribromophenol	79.0	%	19-120				
4-Terphenyl-d14	112.	%	18-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-02  
 MW/CB-11 (14.5'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M				1	8270C-M	0301 20:10	0302 20:50 RL
Acenaphthene	ND	ug/kg	8.3				
2-Chloronaphthalene	ND	ug/kg	8.3				
Fluoranthene	ND	ug/kg	8.3				
Hexachlorobutadiene	ND	ug/kg	21.				
Naphthalene	ND	ug/kg	8.3				
Benzo(a)anthracene	ND	ug/kg	8.3				
Benzo(a)pyrene	ND	ug/kg	8.3				
Benzo(b)fluoranthene	ND	ug/kg	8.3				
Benzo(k)fluoranthene	ND	ug/kg	8.3				
Chrysene	ND	ug/kg	8.3				
Acenaphthylene	ND	ug/kg	8.3				
Anthracene	ND	ug/kg	8.3				
Benzo(ghi)perylene	ND	ug/kg	8.3				
Fluorene	ND	ug/kg	8.3				
Phenanthrene	ND	ug/kg	8.3				
Dibenzo(a,h)anthracene	ND	ug/kg	8.3				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	8.3				
Pyrene	ND	ug/kg	8.3				
1-Methylnaphthalene	ND	ug/kg	8.3				
2-Methylnaphthalene	ND	ug/kg	8.3				
Pentachlorophenol	240	ug/kg	33.				
Hexachlorobenzene	ND	ug/kg	33.				
Perylene	ND	ug/kg	8.3				
Biphenyl	ND	ug/kg	8.3				
2,6-Dimethylnaphthalene	ND	ug/kg	8.3				
1-Methylphenanthrene	ND	ug/kg	8.3				
Benzo(e)Pyrene	ND	ug/kg	8.3				
Hexachloroethane	ND	ug/kg	33.				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	62.0	%		25-120			
Phenol-d6	82.0	%		10-120			
Nitrobenzene-d5	66.0	%		23-120			
2-Fluorobiphenyl	60.0	%		30-120			
2,4,6-Tribromophenol	84.0	%		19-120			
4-Terphenyl-d14	86.0	%		18-120			
Polychlorinated Biphenyls				1	8082	0301 16:00	0302 18:10 BW
Aroclor 1221	ND	ug/kg	41.7				
Aroclor 1232	ND	ug/kg	41.7				
Aroclor 1242/1016	ND	ug/kg	41.7				
Aroclor 1248	ND	ug/kg	41.7				
Aroclor 1254	ND	ug/kg	41.7				
Aroclor 1260	ND	ug/kg	41.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-02  
MW/CB-11 (14.5'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0301 16:00	0302 18:10	BW
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	72.0	%		30-150			
Decachlorobiphenyl	100.	%		30-150			
Organochlorine Pesticides				1 8081	0301 14:30	0302 17:59	JB
Delta-BHC	ND	ug/kg	4.17				
Lindane	ND	ug/kg	4.17				
Alpha-BHC	ND	ug/kg	4.17				
Beta-BHC	ND	ug/kg	4.17				
Heptachlor	ND	ug/kg	4.17				
Aldrin	ND	ug/kg	4.17				
Heptachlor epoxide	ND	ug/kg	4.17				
Endrin	ND	ug/kg	4.17				
Endrin aldehyde	ND	ug/kg	4.17				
Endrin ketone	ND	ug/kg	4.17				
Dieldrin	ND	ug/kg	4.17				
4,4'-DDE	ND	ug/kg	4.17				
4,4'-DDD	ND	ug/kg	4.17				
4,4'-DDT	ND	ug/kg	4.17				
Endosulfan I	ND	ug/kg	4.17				
Endosulfan II	ND	ug/kg	4.17				
Endosulfan sulfate	ND	ug/kg	4.17				
Methoxychlor	ND	ug/kg	4.17				
Toxaphene	ND	ug/kg	16.7				
Chlordane	ND	ug/kg	16.7				
cis-Chlordane	ND	ug/kg	4.17				
trans-Chlordane	ND	ug/kg	4.17				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	70.0	%		30-150			
Decachlorobiphenyl	76.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0502002-03	<b>Date Collected:</b> 24-FEB-2005 15:30
MW/CB-12 (6'-8')	<b>Date Received :</b> 28-FEB-2005
<b>Sample Matrix:</b> SOIL	<b>Date Reported :</b> 07-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Amber,1-Plastic,1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	87.	%	0.10	30 2540G			0302 20:27 PD
Total Metals				1 3051			
Aluminum, Total	2700	mg/kg	4.6	1 6010B	0303 20:00	0304 10:04	RW
Antimony, Total	ND	mg/kg	2.3	1 6010B	0303 20:00	0304 10:04	RW
Arsenic, Total	1.2	mg/kg	0.46	1 6010B	0303 20:00	0304 10:04	RW
Barium, Total	32.	mg/kg	0.46	1 6010B	0303 20:00	0304 10:04	RW
Beryllium, Total	0.1212	mg/kg	0.1143	1 6010B	0303 20:00	0304 10:04	RW
Cadmium, Total	ND	mg/kg	0.1143	1 6010B	0303 20:00	0304 10:04	RW
Calcium, Total	5500	mg/kg	4.6	1 6010B	0303 20:00	0304 10:04	RW
Chromium, Total	5.9	mg/kg	0.46	1 6010B	0303 20:00	0304 10:04	RW
Cobalt, Total	2.8	mg/kg	0.91	1 6010B	0303 20:00	0304 10:04	RW
Copper, Total	10.	mg/kg	0.46	1 6010B	0303 20:00	0304 10:04	RW
Iron, Total	5400	mg/kg	2.3	1 6010B	0303 20:00	0304 10:04	RW
Lead, Total	5.7	mg/kg	2.3	1 6010B	0303 20:00	0304 10:04	RW
Magnesium, Total	1400	mg/kg	4.6	1 6010B	0303 20:00	0304 10:04	RW
Manganese, Total	260	mg/kg	0.46	1 6010B	0303 20:00	0304 10:04	RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0302 18:20	0303 10:26	DM
Nickel, Total	5.8	mg/kg	0.46	1 6010B	0303 20:00	0304 10:04	RW
Potassium, Total	320	mg/kg	110	1 6010B	0303 20:00	0304 10:04	RW
Selenium, Total	ND	mg/kg	0.229	1 6010B	0303 20:00	0304 10:04	RW
Silver, Total	ND	mg/kg	0.46	1 6010B	0303 20:00	0304 10:04	RW
Sodium, Total	150	mg/kg	91.	1 6010B	0303 20:00	0304 10:04	RW
Thallium, Total	ND	mg/kg	0.46	1 6010B	0303 20:00	0304 10:04	RW
Vanadium, Total	7.2	mg/kg	0.46	1 6010B	0303 20:00	0304 10:04	RW
Zinc, Total	13.	mg/kg	2.3	1 6010B	0303 20:00	0304 10:04	RW
Volatile Organics by GC/MS 8260				1 8260B			0301 12:13 BT
Methylene chloride	ND	ug/kg	28.				
1,1-Dichloroethane	ND	ug/kg	4.1				
Chloroform	ND	ug/kg	4.1				
Carbon tetrachloride	ND	ug/kg	2.8				
1,2-Dichloropropane	ND	ug/kg	9.7				
Dibromochloromethane	ND	ug/kg	2.8				
1,1,2-Trichloroethane	ND	ug/kg	4.1				
Tetrachloroethene	ND	ug/kg	2.8				
Chlorobenzene	ND	ug/kg	2.8				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-03  
 MW/CB-12 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0301 12:13		BT
1,2-Dichloroethane	ND	ug/kg	2.8				
1,1,1-Trichloroethane	ND	ug/kg	2.8				
Bromodichloromethane	ND	ug/kg	2.8				
trans-1,3-Dichloropropene	ND	ug/kg	2.8				
cis-1,3-Dichloropropene	ND	ug/kg	2.8				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8				
Benzene	ND	ug/kg	2.8				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.8				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.5				
Vinyl chloride	ND	ug/kg	5.5				
Chloroethane	ND	ug/kg	5.5				
1,1-Dichloroethene	ND	ug/kg	2.8				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.8				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.5				
p/m-Xylene	ND	ug/kg	2.8				
o-Xylene	ND	ug/kg	2.8				
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				
1,4-Dichlorobutane	ND	ug/kg	28.				
Iodomethane	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
Styrene	ND	ug/kg	2.8				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Ethyl methacrylate	ND	ug/kg	28.				
Acrolein	ND	ug/kg	69.				
Acrylonitrile	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	55.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-03  
 MW/CB-12 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0301 12:13		BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	96.0	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	117.	%					
Dibromofluoromethane	90.0	%					
SVOC's by GC/MS 8270				1 8270C	0301 20:10		0302 19:16 HL
Acenaphthene	ND	ug/kg	190				
Benzidine	ND	ug/kg	1900				
1,2,4-Trichlorobenzene	ND	ug/kg	190				
Hexachlorobenzene	ND	ug/kg	190				
Bis(2-chloroethyl)ether	ND	ug/kg	190				
1-Chloronaphthalene	ND	ug/kg	190				
2-Chloronaphthalene	ND	ug/kg	230				
1,2-Dichlorobenzene	ND	ug/kg	190				
1,3-Dichlorobenzene	ND	ug/kg	190				
1,4-Dichlorobenzene	ND	ug/kg	190				
3,3'-Dichlorobenzidine	ND	ug/kg	1900				
2,4-Dinitrotoluene	ND	ug/kg	230				
2,6-Dinitrotoluene	ND	ug/kg	190				
Azobenzene	ND	ug/kg	190				
Fluoranthene	ND	ug/kg	190				
4-Chlorophenyl phenyl ether	ND	ug/kg	190				
4-Bromophenyl phenyl ether	ND	ug/kg	190				
Bis(2-chloroisopropyl)ether	ND	ug/kg	190				
Bis(2-chloroethoxy)methane	ND	ug/kg	190				
Hexachlorobutadiene	ND	ug/kg	380				
Hexachlorocyclopentadiene	ND	ug/kg	380				
Hexachloroethane	ND	ug/kg	190				
Isophorone	ND	ug/kg	190				
Naphthalene	ND	ug/kg	190				
Nitrobenzene	ND	ug/kg	190				
NDPA/DPA	ND	ug/kg	570				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-03  
 MW/CB-12 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0301 20:10	0302 19:16	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	190				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	380				
Butyl benzyl phthalate	ND	ug/kg	190				
Di-n-butylphthalate	ND	ug/kg	190				
Di-n-octylphthalate	ND	ug/kg	190				
Diethyl phthalate	ND	ug/kg	190				
Dimethyl phthalate	ND	ug/kg	190				
Benzo(a)anthracene	ND	ug/kg	190				
Benzo(a)pyrene	ND	ug/kg	190				
Benzo(b)fluoranthene	ND	ug/kg	190				
Benzo(k)fluoranthene	ND	ug/kg	190				
Chrysene	ND	ug/kg	190				
Acenaphthylene	ND	ug/kg	190				
Anthracene	ND	ug/kg	190				
Benzo(ghi)perylene	ND	ug/kg	190				
Fluorene	ND	ug/kg	190				
Phenanthrene	ND	ug/kg	190				
Dibenzo(a,h)anthracene	ND	ug/kg	190				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	190				
Pyrene	ND	ug/kg	190				
Benzo(e)pyrene	ND	ug/kg	190				
Biphenyl	ND	ug/kg	190				
Perylene	ND	ug/kg	190				
Aniline	ND	ug/kg	380				
4-Chloroaniline	ND	ug/kg	190				
1-Methylnaphthalene	ND	ug/kg	190				
2-Nitroaniline	ND	ug/kg	190				
3-Nitroaniline	ND	ug/kg	190				
4-Nitroaniline	ND	ug/kg	270				
Dibenzofuran	ND	ug/kg	190				
a,a-Dimethylphenethylamine	ND	ug/kg	1900				
Hexachloropropene	ND	ug/kg	380				
Nitrosodi-n-butylamine	ND	ug/kg	380				
2-Methylnaphthalene	ND	ug/kg	310				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	770				
Pentachlorobenzene	ND	ug/kg	770				
a-Naphthylamine	ND	ug/kg	770				
b-Naphthylamine	ND	ug/kg	770				
Phenacetin	ND	ug/kg	380				
Dimethoate	ND	ug/kg	770				
4-Aminobiphenyl	ND	ug/kg	380				
Pentachloronitrobenzene	ND	ug/kg	380				
Isodrin	ND	ug/kg	380				
p-Dimethylaminoazobenzene	ND	ug/kg	380				
Chlorobenzilate	ND	ug/kg	770				
3-Methylcholanthrene	ND	ug/kg	770				
Ethyl Methanesulfonate	ND	ug/kg	570				
Acetophenone	ND	ug/kg	770				
Nitrosodipiperidine	ND	ug/kg	770				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-03  
 MW/CB-12 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0301 20:10	0302 19:16 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	380				
n-Nitrosodimethylamine	ND	ug/kg	1900				
2,4,6-Trichlorophenol	ND	ug/kg	190				
p-Chloro-m-cresol	ND	ug/kg	190				
2-Chlorophenol	ND	ug/kg	230				
2,4-Dichlorophenol	ND	ug/kg	380				
2,4-Dimethylphenol	ND	ug/kg	380				
2-Nitrophenol	ND	ug/kg	770				
4-Nitrophenol	ND	ug/kg	380				
2,4-Dinitrophenol	ND	ug/kg	770				
4,6-Dinitro-o-cresol	ND	ug/kg	770				
Pentachlorophenol	ND	ug/kg	770				
Phenol	ND	ug/kg	270				
2-Methylphenol	ND	ug/kg	230				
3-Methylphenol/4-Methylphenol	ND	ug/kg	230				
2,4,5-Trichlorophenol	ND	ug/kg	190				
2,6-Dichlorophenol	ND	ug/kg	380				
Benzoic Acid	ND	ug/kg	1900				
Benzyl Alcohol	ND	ug/kg	380				
Carbazole	ND	ug/kg	190				
Pyridine	ND	ug/kg	1900				
2-Picoline	ND	ug/kg	770				
Pronamide	ND	ug/kg	770				
Methyl methanesulfonate	ND	ug/kg	770				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	72.0	%	25-120				
Phenol-d6	89.0	%	10-120				
Nitrobenzene-d5	93.0	%	23-120				
2-Fluorobiphenyl	77.0	%	30-120				
2,4,6-Tribromophenol	73.0	%	19-120				
4-Terphenyl-d14	118.	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0301 20:10	0302 21:35 RL
Acenaphthene	ND	ug/kg	7.7				
2-Chloronaphthalene	ND	ug/kg	7.7				
Fluoranthene	ND	ug/kg	7.7				
Hexachlorobutadiene	ND	ug/kg	19.				
Naphthalene	ND	ug/kg	7.7				
Benzo(a)anthracene	ND	ug/kg	7.7				
Benzo(a)pyrene	ND	ug/kg	7.7				
Benzo(b)fluoranthene	ND	ug/kg	7.7				
Benzo(k)fluoranthene	ND	ug/kg	7.7				
Chrysene	ND	ug/kg	7.7				
Acenaphthylene	ND	ug/kg	7.7				
Anthracene	ND	ug/kg	7.7				
Benzo(ghi)perylene	ND	ug/kg	7.7				
Fluorene	ND	ug/kg	7.7				
Phenanthrene	ND	ug/kg	7.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-03  
 MW/CB-12 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0301 20:10	0302 21:35 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.7				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.7				
Pyrene	ND	ug/kg	7.7				
1-Methylnaphthalene	ND	ug/kg	7.7				
2-Methylnaphthalene	ND	ug/kg	7.7				
Pentachlorophenol	110	ug/kg	31.				
Hexachlorobenzene	ND	ug/kg	31.				
Perylene	ND	ug/kg	7.7				
Biphenyl	ND	ug/kg	7.7				
2,6-Dimethylnaphthalene	ND	ug/kg	7.7				
1-Methylphenanthrene	ND	ug/kg	7.7				
Benzo(e)Pyrene	ND	ug/kg	7.7				
Hexachloroethane	ND	ug/kg	31.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	71.0	%	25-120				
Phenol-d6	94.0	%	10-120				
Nitrobenzene-d5	79.0	%	23-120				
2-Fluorobiphenyl	70.0	%	30-120				
2,4,6-Tribromophenol	82.0	%	19-120				
4-Terphenyl-d14	91.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0301 16:00	0302 17:42 BW
Aroclor 1221	ND	ug/kg	38.3				
Aroclor 1232	ND	ug/kg	38.3				
Aroclor 1242/1016	ND	ug/kg	38.3				
Aroclor 1248	ND	ug/kg	38.3				
Aroclor 1254	ND	ug/kg	38.3				
Aroclor 1260	ND	ug/kg	38.3				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	77.0	%	30-150				
Decachlorobiphenyl	99.0	%	30-150				
Organochlorine Pesticides				1	8081	0301 14:30	0302 17:31 JB
Delta-BHC	ND	ug/kg	3.83				
Lindane	ND	ug/kg	3.83				
Alpha-BHC	ND	ug/kg	3.83				
Beta-BHC	ND	ug/kg	3.83				
Heptachlor	ND	ug/kg	3.83				
Aldrin	ND	ug/kg	3.83				
Heptachlor epoxide	ND	ug/kg	3.83				
Endrin	ND	ug/kg	3.83				
Endrin aldehyde	ND	ug/kg	3.83				
Endrin ketone	ND	ug/kg	3.83				
Dieldrin	ND	ug/kg	3.83				
4,4'-DDE	ND	ug/kg	3.83				
4,4'-DDD	ND	ug/kg	3.83				
4,4'-DDT	ND	ug/kg	3.83				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-03  
MW/CB-12 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0301 14:30	0302 17:31	JB
Endosulfan I	ND	ug/kg	3.83				
Endosulfan II	ND	ug/kg	3.83				
Endosulfan sulfate	ND	ug/kg	3.83				
Methoxychlor	ND	ug/kg	3.83				
Toxaphene	ND	ug/kg	15.3				
Chlordane	ND	ug/kg	15.3				
cis-Chlordane	ND	ug/kg	3.83				
trans-Chlordane	ND	ug/kg	3.83				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	70.0	%		30-150			
Decachlorobiphenyl	83.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-04  
 MW/CB-12 (18.5'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0301 12:51		BT
1,2-Dichloroethane	ND	ug/kg	2.5				
1,1,1-Trichloroethane	ND	ug/kg	2.5				
Bromodichloromethane	ND	ug/kg	2.5				
trans-1,3-Dichloropropene	ND	ug/kg	2.5				
cis-1,3-Dichloropropene	ND	ug/kg	2.5				
1,1-Dichloropropene	ND	ug/kg	12.				
Bromoform	ND	ug/kg	10.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.5				
Benzene	ND	ug/kg	2.5				
Toluene	ND	ug/kg	3.8				
Ethylbenzene	ND	ug/kg	2.5				
Chloromethane	ND	ug/kg	12.				
Bromomethane	ND	ug/kg	5.0				
Vinyl chloride	ND	ug/kg	5.0				
Chloroethane	ND	ug/kg	5.0				
1,1-Dichloroethene	ND	ug/kg	2.5				
trans-1,2-Dichloroethene	ND	ug/kg	3.8				
Trichloroethene	ND	ug/kg	2.5				
1,2-Dichlorobenzene	ND	ug/kg	12.				
1,3-Dichlorobenzene	ND	ug/kg	12.				
1,4-Dichlorobenzene	ND	ug/kg	12.				
Methyl tert butyl ether	ND	ug/kg	5.0				
p/m-Xylene	ND	ug/kg	2.5				
o-Xylene	ND	ug/kg	2.5				
cis-1,2-Dichloroethene	ND	ug/kg	2.5				
Dibromomethane	ND	ug/kg	25.				
1,4-Dichlorobutane	ND	ug/kg	25.				
Iodomethane	ND	ug/kg	25.				
1,2,3-Trichloropropane	ND	ug/kg	25.				
Styrene	ND	ug/kg	2.5				
Dichlorodifluoromethane	ND	ug/kg	25.				
Acetone	ND	ug/kg	25.				
Carbon disulfide	ND	ug/kg	25.				
2-Butanone	ND	ug/kg	25.				
Vinyl acetate	ND	ug/kg	25.				
4-Methyl-2-pentanone	ND	ug/kg	25.				
2-Hexanone	ND	ug/kg	25.				
Ethyl methacrylate	ND	ug/kg	25.				
Acrolein	ND	ug/kg	63.				
Acrylonitrile	ND	ug/kg	25.				
Bromochloromethane	ND	ug/kg	12.				
Tetrahydrofuran	ND	ug/kg	50.				
2,2-Dichloropropane	ND	ug/kg	12.				
1,2-Dibromoethane	ND	ug/kg	10.				
1,3-Dichloropropane	ND	ug/kg	12.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.5				
Bromobenzene	ND	ug/kg	12.				
n-Butylbenzene	ND	ug/kg	2.5				
sec-Butylbenzene	ND	ug/kg	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-04  
 MW/CB-12 (18.5'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0301 12:51		BT
tert-Butylbenzene	ND	ug/kg	12.				
o-Chlorotoluene	ND	ug/kg	12.				
p-Chlorotoluene	ND	ug/kg	12.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.				
Hexachlorobutadiene	ND	ug/kg	12.				
Isopropylbenzene	ND	ug/kg	2.5				
p-Isopropyltoluene	ND	ug/kg	2.5				
Naphthalene	ND	ug/kg	12.				
n-Propylbenzene	ND	ug/kg	2.5				
1,2,3-Trichlorobenzene	ND	ug/kg	12.				
1,2,4-Trichlorobenzene	ND	ug/kg	12.				
1,3,5-Trimethylbenzene	ND	ug/kg	12.				
1,2,4-Trimethylbenzene	ND	ug/kg	12.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	12.				
Ethyl ether	ND	ug/kg	12.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	98.0	%					
Toluene-d8	94.0	%					
4-Bromofluorobenzene	115.	%					
Dibromofluoromethane	94.0	%					
SVOC's by GC/MS 8270				1 8270C	0301 20:10 0302 19:40		HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	210				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	210				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	350				
Hexachlorocyclopentadiene	ND	ug/kg	350				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	530				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-04  
 MW/CB-12 (18.5'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0301 20:10	0302 19:40	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	350				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	350				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	250				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	350				
Nitrosodi-n-butylamine	ND	ug/kg	350				
2-Methylnaphthalene	ND	ug/kg	280				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	710				
Pentachlorobenzene	ND	ug/kg	710				
a-Naphthylamine	ND	ug/kg	710				
b-Naphthylamine	ND	ug/kg	710				
Phenacetin	ND	ug/kg	350				
Dimethoate	ND	ug/kg	710				
4-Aminobiphenyl	ND	ug/kg	350				
Pentachloronitrobenzene	ND	ug/kg	350				
Isodrin	ND	ug/kg	350				
p-Dimethylaminoazobenzene	ND	ug/kg	350				
Chlorobenzilate	ND	ug/kg	710				
3-Methylcholanthrene	ND	ug/kg	710				
Ethyl Methanesulfonate	ND	ug/kg	530				
Acetophenone	ND	ug/kg	710				
Nitrosodipiperidine	ND	ug/kg	710				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-04  
 MW/CB-12 (18.5'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0301 20:10	0302 19:40 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	350				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	210				
2,4-Dichlorophenol	ND	ug/kg	350				
2,4-Dimethylphenol	ND	ug/kg	350				
2-Nitrophenol	ND	ug/kg	710				
4-Nitrophenol	ND	ug/kg	350				
2,4-Dinitrophenol	ND	ug/kg	710				
4,6-Dinitro-o-cresol	ND	ug/kg	710				
Pentachlorophenol	ND	ug/kg	710				
Phenol	ND	ug/kg	250				
2-Methylphenol	ND	ug/kg	210				
3-Methylphenol/4-Methylphenol	ND	ug/kg	210				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	350				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	350				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	710				
Pronamide	ND	ug/kg	710				
Methyl methanesulfonate	ND	ug/kg	710				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	64.0	%	25-120				
Phenol-d6	81.0	%	10-120				
Nitrobenzene-d5	82.0	%	23-120				
2-Fluorobiphenyl	73.0	%	30-120				
2,4,6-Tribromophenol	64.0	%	19-120				
4-Terphenyl-d14	119.	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0301 20:10	0302 22:20 RL
Acenaphthene	ND	ug/kg	7.1				
2-Chloronaphthalene	ND	ug/kg	7.1				
Fluoranthene	ND	ug/kg	7.1				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.1				
Benzo(a)anthracene	ND	ug/kg	7.1				
Benzo(a)pyrene	ND	ug/kg	7.1				
Benzo(b)fluoranthene	ND	ug/kg	7.1				
Benzo(k)fluoranthene	ND	ug/kg	7.1				
Chrysene	ND	ug/kg	7.1				
Acenaphthylene	ND	ug/kg	7.1				
Anthracene	ND	ug/kg	7.1				
Benzo(ghi)perylene	ND	ug/kg	7.1				
Fluorene	ND	ug/kg	7.1				
Phenanthrene	ND	ug/kg	7.1				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-04  
 MW/CB-12 (18.5'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0301 20:10	0302 22:20 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.1				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.1				
Pyrene	ND	ug/kg	7.1				
1-Methylnaphthalene	ND	ug/kg	7.1				
2-Methylnaphthalene	ND	ug/kg	7.1				
Pentachlorophenol	ND	ug/kg	28.				
Hexachlorobenzene	ND	ug/kg	28.				
Perylene	ND	ug/kg	7.1				
Biphenyl	ND	ug/kg	7.1				
2,6-Dimethylnaphthalene	ND	ug/kg	7.1				
1-Methylphenanthrene	ND	ug/kg	7.1				
Benzo(e)Pyrene	ND	ug/kg	7.1				
Hexachloroethane	ND	ug/kg	28.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	62.0	%	25-120				
Phenol-d6	83.0	%	10-120				
Nitrobenzene-d5	70.0	%	23-120				
2-Fluorobiphenyl	64.0	%	30-120				
2,4,6-Tribromophenol	75.0	%	19-120				
4-Terphenyl-d14	90.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0301 16:00	0302 18:39 BW
Aroclor 1221	ND	ug/kg	35.5				
Aroclor 1232	ND	ug/kg	35.5				
Aroclor 1242/1016	ND	ug/kg	35.5				
Aroclor 1248	ND	ug/kg	35.5				
Aroclor 1254	ND	ug/kg	35.5				
Aroclor 1260	ND	ug/kg	35.5				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	76.0	%	30-150				
Decachlorobiphenyl	98.0	%	30-150				
Organochlorine Pesticides				1	8081	0301 14:30	0302 18:28 JB
Delta-BHC	ND	ug/kg	3.55				
Lindane	ND	ug/kg	3.55				
Alpha-BHC	ND	ug/kg	3.55				
Beta-BHC	ND	ug/kg	3.55				
Heptachlor	ND	ug/kg	3.55				
Aldrin	ND	ug/kg	3.55				
Heptachlor epoxide	ND	ug/kg	3.55				
Endrin	ND	ug/kg	3.55				
Endrin aldehyde	ND	ug/kg	3.55				
Endrin ketone	ND	ug/kg	3.55				
Dieldrin	ND	ug/kg	3.55				
4,4'-DDE	ND	ug/kg	3.55				
4,4'-DDD	ND	ug/kg	3.55				
4,4'-DDT	ND	ug/kg	3.55				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-04  
MW/CB-12 (18.5'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0301 14:30	0302 18:28	JB
Endosulfan I	ND	ug/kg	3.55				
Endosulfan II	ND	ug/kg	3.55				
Endosulfan sulfate	ND	ug/kg	3.55				
Methoxychlor	ND	ug/kg	3.55				
Toxaphene	ND	ug/kg	14.2				
Chlordane	ND	ug/kg	14.2				
cis-Chlordane	ND	ug/kg	3.55				
trans-Chlordane	ND	ug/kg	3.55				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	64.0	%		30-150			
Decachlorobiphenyl	73.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502002-05 Date Collected: 25-FEB-2005 07:30  
 MW/CB-13 (2'-4') Date Received : 28-FEB-2005  
 Sample Matrix: SOIL Date Reported : 07-MAR-2005  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	90.	%	0.10	30 2540G		0304 10:00	ST
Total Metals				1	3051		
Aluminum, Total	2000	mg/kg	4.4	1 6010B	0303 20:00	0304 10:37	RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0303 20:00	0304 10:37	RW
Arsenic, Total	3.4	mg/kg	0.44	1 6010B	0303 20:00	0304 10:37	RW
Barium, Total	39.	mg/kg	0.44	1 6010B	0303 20:00	0304 10:37	RW
Beryllium, Total	ND	mg/kg	0.1111	1 6010B	0303 20:00	0304 10:37	RW
Cadmium, Total	0.1222	mg/kg	0.1111	1 6010B	0303 20:00	0304 10:37	RW
Calcium, Total	>10000	mg/kg	4.4	1 6010B	0303 20:00	0304 10:37	RW
Calcium, Total	48000	mg/kg	22.	1 6010B	0303 20:00	0304 13:18	RW
Chromium, Total	3.7	mg/kg	0.44	1 6010B	0303 20:00	0304 10:37	RW
Cobalt, Total	2.4	mg/kg	0.89	1 6010B	0303 20:00	0304 10:37	RW
Copper, Total	13.	mg/kg	0.44	1 6010B	0303 20:00	0304 10:37	RW
Iron, Total	3600	mg/kg	2.2	1 6010B	0303 20:00	0304 10:37	RW
Lead, Total	170	mg/kg	2.2	1 6010B	0303 20:00	0304 10:37	RW
Magnesium, Total	2300	mg/kg	4.4	1 6010B	0303 20:00	0304 10:37	RW
Manganese, Total	210	mg/kg	0.44	1 6010B	0303 20:00	0304 10:37	RW
Mercury, Total	0.28	mg/kg	0.09	1 7471A	0302 18:20	0303 10:35	DM
Nickel, Total	4.9	mg/kg	0.44	1 6010B	0303 20:00	0304 10:37	RW
Potassium, Total	650	mg/kg	110	1 6010B	0303 20:00	0304 10:37	RW
Selenium, Total	ND	mg/kg	0.222	1 6010B	0303 20:00	0304 10:37	RW
Silver, Total	ND	mg/kg	0.44	1 6010B	0303 20:00	0304 10:37	RW
Sodium, Total	760	mg/kg	89.	1 6010B	0303 20:00	0304 10:37	RW
Thallium, Total	ND	mg/kg	0.44	1 6010B	0303 20:00	0304 10:37	RW
Vanadium, Total	6.2	mg/kg	0.44	1 6010B	0303 20:00	0304 10:37	RW
Zinc, Total	130	mg/kg	2.2	1 6010B	0303 20:00	0304 10:37	RW
Volatile Organics by GC/MS 8260				1	8260B	0303 15:01	BT
Methylene chloride	ND	ug/kg	28.				
1,1-Dichloroethane	ND	ug/kg	4.2				
Chloroform	ND	ug/kg	4.2				
Carbon tetrachloride	ND	ug/kg	2.8				
1,2-Dichloropropane	ND	ug/kg	9.9				
Dibromochloromethane	ND	ug/kg	2.8				
1,1,2-Trichloroethane	ND	ug/kg	4.2				
Tetrachloroethene	ND	ug/kg	2.8				
Chlorobenzene	ND	ug/kg	2.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-05  
 MW/CB-13 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0303 15:01		BT
Trichlorofluoromethane	ND	ug/kg	14.				
1,2-Dichloroethane	ND	ug/kg	2.8				
1,1,1-Trichloroethane	ND	ug/kg	2.8				
Bromodichloromethane	ND	ug/kg	2.8				
trans-1,3-Dichloropropene	ND	ug/kg	2.8				
cis-1,3-Dichloropropene	ND	ug/kg	2.8				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8				
Benzene	ND	ug/kg	2.8				
Toluene	ND	ug/kg	4.2				
Ethylbenzene	ND	ug/kg	2.8				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.6				
Vinyl chloride	ND	ug/kg	5.6				
Chloroethane	ND	ug/kg	5.6				
1,1-Dichloroethene	ND	ug/kg	2.8				
trans-1,2-Dichloroethene	ND	ug/kg	4.2				
Trichloroethene	ND	ug/kg	2.8				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.6				
p/m-Xylene	ND	ug/kg	2.8				
o-Xylene	ND	ug/kg	2.8				
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				
1,4-Dichlorobutane	ND	ug/kg	28.				
Iodomethane	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
Styrene	ND	ug/kg	2.8				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Ethyl methacrylate	ND	ug/kg	28.				
Acrolein	ND	ug/kg	70.				
Acrylonitrile	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	56.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-05  
 MW/CB-13 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0303 15:01	BT	
sec-Butylbenzene	ND	ug/kg	2.8				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	98.0	%					
Toluene-d8	94.0	%					
4-Bromofluorobenzene	105.	%					
Dibromofluoromethane	85.0	%					
SVOC's by GC/MS 8270				1 8270C	0301 20:10	0302 20:05	HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-05  
 MW/CB-13 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0301 20:10	0302 20:05	HL
NDPA/DPA	ND	ug/kg	560				
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	300				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	740				
Pentachlorobenzene	ND	ug/kg	740				
a-Naphthylamine	ND	ug/kg	740				
b-Naphthylamine	ND	ug/kg	740				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	740				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	740				
3-Methylcholanthrene	ND	ug/kg	740				
Ethyl Methanesulfonate	ND	ug/kg	560				
Acetophenone	ND	ug/kg	740				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-05  
 MW/CB-13 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0301 20:10	0302 20:05	HL
Nitrosodipiperidine	ND	ug/kg	740				
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	740				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	740				
4,6-Dinitro-o-cresol	ND	ug/kg	740				
Pentachlorophenol	ND	ug/kg	740				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	740				
Pronamide	ND	ug/kg	740				
Methyl methanesulfonate	ND	ug/kg	740				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	69.0	%	25-120				
Phenol-d6	108.	%	10-120				
Nitrobenzene-d5	113.	%	23-120				
2-Fluorobiphenyl	94.0	%	30-120				
2,4,6-Tribromophenol	62.0	%	19-120				
4-Terphenyl-d14	110.	%	18-120				
PAH by GC/MS SIM 8270M				1 8270C-M	0301 20:10	0302 23:05	RL
Acenaphthene	ND	ug/kg	7.4				
2-Chloronaphthalene	ND	ug/kg	7.4				
Fluoranthene	57.	ug/kg	7.4				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.4				
Benzo(a)anthracene	25.	ug/kg	7.4				
Benzo(a)pyrene	19.	ug/kg	7.4				
Benzo(b)fluoranthene	15.	ug/kg	7.4				
Benzo(k)fluoranthene	24.	ug/kg	7.4				
Chrysene	28.	ug/kg	7.4				
Acenaphthylene	ND	ug/kg	7.4				
Anthracene	ND	ug/kg	7.4				
Benzo(ghi)perylene	14.	ug/kg	7.4				
Fluorene	ND	ug/kg	7.4				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-05  
 MW/CB-13 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0301 20:10	0302 23:05 RL
Phenanthrene	36.	ug/kg	7.4				
Dibenzo(a,h)anthracene	ND	ug/kg	7.4				
Indeno(1,2,3-cd)Pyrene	12.	ug/kg	7.4				
Pyrene	51.	ug/kg	7.4				
1-Methylnaphthalene	ND	ug/kg	7.4				
2-Methylnaphthalene	ND	ug/kg	7.4				
Pentachlorophenol	ND	ug/kg	30.				
Hexachlorobenzene	ND	ug/kg	30.				
Perylene	ND	ug/kg	7.4				
Biphenyl	ND	ug/kg	7.4				
2,6-Dimethylnaphthalene	ND	ug/kg	7.4				
1-Methylphenanthrene	ND	ug/kg	7.4				
Benzo(e)Pyrene	18.	ug/kg	7.4				
Hexachloroethane	ND	ug/kg	30.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	61.0	%	25-120				
Phenol-d6	114.	%	10-120				
Nitrobenzene-d5	88.0	%	23-120				
2-Fluorobiphenyl	87.0	%	30-120				
2,4,6-Tribromophenol	77.0	%	19-120				
4-Terphenyl-d14	90.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0301 16:00	0302 19:07 BW
Aroclor 1221	ND	ug/kg	37.0				
Aroclor 1232	ND	ug/kg	37.0				
Aroclor 1242/1016	ND	ug/kg	37.0				
Aroclor 1248	ND	ug/kg	37.0				
Aroclor 1254	ND	ug/kg	37.0				
Aroclor 1260	ND	ug/kg	37.0				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	73.0	%	30-150				
Decachlorobiphenyl	87.0	%	30-150				
Organochlorine Pesticides				1	8081	0301 14:30	0302 18:56 JB
4,4'-DDD	ND	ug/kg	3.70				
Endosulfan II	ND	ug/kg	3.70				
Organochlorine Pesticides				1	8081	0301 14:30	0302 18:56 JB
Delta-BHC	ND	ug/kg	3.70				
Lindane	ND	ug/kg	3.70				
Alpha-BHC	ND	ug/kg	3.70				
Beta-BHC	ND	ug/kg	3.70				
Heptachlor	ND	ug/kg	3.70				
Aldrin	ND	ug/kg	3.70				
Heptachlor epoxide	ND	ug/kg	3.70				
Endrin	ND	ug/kg	3.70				
Endrin aldehyde	ND	ug/kg	3.70				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-05  
MW/CB-13 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0301 14:30	0302 18:56	JB
Endrin ketone	ND	ug/kg	3.70				
Dieldrin	ND	ug/kg	3.70				
4,4'-DDE	ND	ug/kg	3.70				
4,4'-DDT	7.63	ug/kg	3.70				
Endosulfan I	ND	ug/kg	3.70				
Endosulfan sulfate	ND	ug/kg	3.70				
Methoxychlor	ND	ug/kg	3.70				
Toxaphene	ND	ug/kg	14.8				
Chlordane	ND	ug/kg	14.8				
cis-Chlordane	ND	ug/kg	3.70				
trans-Chlordane	ND	ug/kg	3.70				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	63.0	%		30-150			
Decachlorobiphenyl	66.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502002-06		Date Collected: 25-FEB-2005 07:50
	MW/CB-13 (6'-8')	Date Received : 28-FEB-2005
Sample Matrix: SOIL		Date Reported : 07-MAR-2005
Condition of Sample: Satisfactory		Field Prep: None
Number & Type of Containers: 2-Amber,1-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	88.	%	0.10	30 2540G			0302 20:27 PD
Total Metals				1 3051			
Aluminum, Total	1900	mg/kg	4.5	1 6010B	0303 20:00	0304 10:39	RW
Antimony, Total	ND	mg/kg	2.3	1 6010B	0303 20:00	0304 10:39	RW
Arsenic, Total	2.0	mg/kg	0.45	1 6010B	0303 20:00	0304 10:39	RW
Barium, Total	25.	mg/kg	0.45	1 6010B	0303 20:00	0304 10:39	RW
Beryllium, Total	ND	mg/kg	0.1131	1 6010B	0303 20:00	0304 10:39	RW
Cadmium, Total	ND	mg/kg	0.1131	1 6010B	0303 20:00	0304 10:39	RW
Calcium, Total	>10000	mg/kg	4.5	1 6010B	0303 20:00	0304 10:39	RW
Calcium, Total	16000	mg/kg	23.	1 6010B	0303 20:00	0304 13:20	RW
Chromium, Total	4.4	mg/kg	0.45	1 6010B	0303 20:00	0304 10:39	RW
Cobalt, Total	2.2	mg/kg	0.90	1 6010B	0303 20:00	0304 10:39	RW
Copper, Total	10.	mg/kg	0.45	1 6010B	0303 20:00	0304 10:39	RW
Iron, Total	4500	mg/kg	2.3	1 6010B	0303 20:00	0304 10:39	RW
Lead, Total	11.	mg/kg	2.3	1 6010B	0303 20:00	0304 10:39	RW
Magnesium, Total	1900	mg/kg	4.5	1 6010B	0303 20:00	0304 10:39	RW
Manganese, Total	240	mg/kg	0.45	1 6010B	0303 20:00	0304 10:39	RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0302 18:20	0303 10:39	DM
Nickel, Total	4.5	mg/kg	0.45	1 6010B	0303 20:00	0304 10:39	RW
Potassium, Total	520	mg/kg	110	1 6010B	0303 20:00	0304 10:39	RW
Selenium, Total	ND	mg/kg	0.226	1 6010B	0303 20:00	0304 10:39	RW
Silver, Total	ND	mg/kg	0.45	1 6010B	0303 20:00	0304 10:39	RW
Sodium, Total	1500	mg/kg	90.	1 6010B	0303 20:00	0304 10:39	RW
Thallium, Total	ND	mg/kg	0.45	1 6010B	0303 20:00	0304 10:39	RW
Vanadium, Total	7.4	mg/kg	0.45	1 6010B	0303 20:00	0304 10:39	RW
Zinc, Total	18.	mg/kg	2.3	1 6010B	0303 20:00	0304 10:39	RW
Volatile Organics by GC/MS 8260				1 8260B			0303 15:39 BT
Methylene chloride	ND	ug/kg	27.				
1,1-Dichloroethane	ND	ug/kg	4.1				
Chloroform	ND	ug/kg	4.1				
Carbon tetrachloride	ND	ug/kg	2.7				
1,2-Dichloropropane	ND	ug/kg	9.6				
Dibromochloromethane	ND	ug/kg	2.7				
1,1,2-Trichloroethane	ND	ug/kg	4.1				
Tetrachloroethene	ND	ug/kg	2.7				
Chlorobenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-06  
 MW/CB-13 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0303 15:39		BT
Trichlorofluoromethane	ND	ug/kg	14.				
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.5				
Vinyl chloride	ND	ug/kg	5.5				
Chloroethane	ND	ug/kg	5.5				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.5				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	56.	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	69.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	55.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-06  
MW/CB-13 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0303 15:39		BT
sec-Butylbenzene	ND	ug/kg	2.7				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	101.	%					
Toluene-d8	97.0	%					
4-Bromofluorobenzene	107.	%					
Dibromofluoromethane	91.0	%					
SVOC's by GC/MS 8270				1 8270C	0301 20:10 0302 20:30		HL
Acenaphthene	ND	ug/kg	190				
Benzidine	ND	ug/kg	1900				
1,2,4-Trichlorobenzene	ND	ug/kg	190				
Hexachlorobenzene	ND	ug/kg	190				
Bis(2-chloroethyl)ether	ND	ug/kg	190				
1-Chloronaphthalene	ND	ug/kg	190				
2-Chloronaphthalene	ND	ug/kg	230				
1,2-Dichlorobenzene	ND	ug/kg	190				
1,3-Dichlorobenzene	ND	ug/kg	190				
1,4-Dichlorobenzene	ND	ug/kg	190				
3,3'-Dichlorobenzidine	ND	ug/kg	1900				
2,4-Dinitrotoluene	ND	ug/kg	230				
2,6-Dinitrotoluene	ND	ug/kg	190				
Azobenzene	ND	ug/kg	190				
Fluoranthene	ND	ug/kg	190				
4-Chlorophenyl phenyl ether	ND	ug/kg	190				
4-Bromophenyl phenyl ether	ND	ug/kg	190				
Bis(2-chloroisopropyl)ether	ND	ug/kg	190				
Bis(2-chloroethoxy)methane	ND	ug/kg	190				
Hexachlorobutadiene	ND	ug/kg	380				
Hexachlorocyclopentadiene	ND	ug/kg	380				
Hexachloroethane	ND	ug/kg	190				
Isophorone	ND	ug/kg	190				
Naphthalene	ND	ug/kg	190				
Nitrobenzene	ND	ug/kg	190				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-06  
 MW/CB-13 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0301 20:10	0302 20:30	HL
NDPA/DPA	ND	ug/kg	570				
n-Nitrosodi-n-propylamine	ND	ug/kg	190				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	380				
Butyl benzyl phthalate	ND	ug/kg	190				
Di-n-butylphthalate	ND	ug/kg	190				
Di-n-octylphthalate	ND	ug/kg	190				
Diethyl phthalate	ND	ug/kg	190				
Dimethyl phthalate	ND	ug/kg	190				
Benzo(a)anthracene	ND	ug/kg	190				
Benzo(a)pyrene	ND	ug/kg	190				
Benzo(b)fluoranthene	ND	ug/kg	190				
Benzo(k)fluoranthene	ND	ug/kg	190				
Chrysene	ND	ug/kg	190				
Acenaphthylene	ND	ug/kg	190				
Anthracene	ND	ug/kg	190				
Benzo(ghi)perylene	ND	ug/kg	190				
Fluorene	ND	ug/kg	190				
Phenanthrene	ND	ug/kg	190				
Dibenzo(a,h)anthracene	ND	ug/kg	190				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	190				
Pyrene	ND	ug/kg	190				
Benzo(e)pyrene	ND	ug/kg	190				
Biphenyl	ND	ug/kg	190				
Perylene	ND	ug/kg	190				
Aniline	ND	ug/kg	380				
4-Chloroaniline	ND	ug/kg	190				
1-Methylnaphthalene	ND	ug/kg	190				
2-Nitroaniline	ND	ug/kg	190				
3-Nitroaniline	ND	ug/kg	190				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	190				
a,a-Dimethylphenethylamine	ND	ug/kg	1900				
Hexachloropropene	ND	ug/kg	380				
Nitrosodi-n-butylamine	ND	ug/kg	380				
2-Methylnaphthalene	ND	ug/kg	300				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	760				
Pentachlorobenzene	ND	ug/kg	760				
a-Naphthylamine	ND	ug/kg	760				
b-Naphthylamine	ND	ug/kg	760				
Phenacetin	ND	ug/kg	380				
Dimethoate	ND	ug/kg	760				
4-Aminobiphenyl	ND	ug/kg	380				
Pentachloronitrobenzene	ND	ug/kg	380				
Isodrin	ND	ug/kg	380				
p-Dimethylaminoazobenzene	ND	ug/kg	380				
Chlorobenzilate	ND	ug/kg	760				
3-Methylcholanthrene	ND	ug/kg	760				
Ethyl Methanesulfonate	ND	ug/kg	570				
Acetophenone	ND	ug/kg	760				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-06  
 MW/CB-13 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0301 20:10	0302 20:30	HL
Nitrosodipiperidine	ND	ug/kg	760				
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	380				
n-Nitrosodimethylamine	ND	ug/kg	1900				
2,4,6-Trichlorophenol	ND	ug/kg	190				
p-Chloro-m-cresol	ND	ug/kg	190				
2-Chlorophenol	ND	ug/kg	230				
2,4-Dichlorophenol	ND	ug/kg	380				
2,4-Dimethylphenol	ND	ug/kg	380				
2-Nitrophenol	ND	ug/kg	760				
4-Nitrophenol	ND	ug/kg	380				
2,4-Dinitrophenol	ND	ug/kg	760				
4,6-Dinitro-o-cresol	ND	ug/kg	760				
Pentachlorophenol	ND	ug/kg	760				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	230				
3-Methylphenol/4-Methylphenol	ND	ug/kg	230				
2,4,5-Trichlorophenol	ND	ug/kg	190				
2,6-Dichlorophenol	ND	ug/kg	380				
Benzoic Acid	ND	ug/kg	1900				
Benzyl Alcohol	ND	ug/kg	380				
Carbazole	ND	ug/kg	190				
Pyridine	ND	ug/kg	1900				
2-Picoline	ND	ug/kg	760				
Pronamide	ND	ug/kg	760				
Methyl methanesulfonate	ND	ug/kg	760				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	79.0	%	25-120				
Phenol-d6	99.0	%	10-120				
Nitrobenzene-d5	101.	%	23-120				
2-Fluorobiphenyl	82.0	%	30-120				
2,4,6-Tribromophenol	74.0	%	19-120				
4-Terphenyl-d14	115.	%	18-120				
PAH by GC/MS SIM 8270M				1 8270C-M	0301 20:10	0304 02:47	RL
Acenaphthene	ND	ug/kg	7.6				
2-Chloronaphthalene	ND	ug/kg	7.6				
Fluoranthene	ND	ug/kg	7.6				
Hexachlorobutadiene	ND	ug/kg	19.				
Naphthalene	ND	ug/kg	7.6				
Benzo(a)anthracene	ND	ug/kg	7.6				
Benzo(a)pyrene	ND	ug/kg	7.6				
Benzo(b)fluoranthene	ND	ug/kg	7.6				
Benzo(k)fluoranthene	ND	ug/kg	7.6				
Chrysene	ND	ug/kg	7.6				
Acenaphthylene	ND	ug/kg	7.6				
Anthracene	ND	ug/kg	7.6				
Benzo(ghi)perylene	ND	ug/kg	7.6				
Fluorene	ND	ug/kg	7.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-06  
 MW/CB-13 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0301 20:10	0304 02:47 RL
Phenanthrene	17.	ug/kg	7.6				
Dibenzo(a,h)anthracene	ND	ug/kg	7.6				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.6				
Pyrene	22.	ug/kg	7.6				
1-Methylnaphthalene	ND	ug/kg	7.6				
2-Methylnaphthalene	ND	ug/kg	7.6				
Pentachlorophenol	760	ug/kg	30.				
Hexachlorobenzene	ND	ug/kg	30.				
Perylene	ND	ug/kg	7.6				
Biphenyl	ND	ug/kg	7.6				
2,6-Dimethylnaphthalene	ND	ug/kg	7.6				
1-Methylphenanthrene	ND	ug/kg	7.6				
Benzo(e)Pyrene	ND	ug/kg	7.6				
Hexachloroethane	ND	ug/kg	30.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	66.0	%	25-120				
Phenol-d6	90.0	%	10-120				
Nitrobenzene-d5	68.0	%	23-120				
2-Fluorobiphenyl	64.0	%	30-120				
2,4,6-Tribromophenol	90.0	%	19-120				
4-Terphenyl-d14	68.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0301 16:00	0302 19:36 BW
Aroclor 1221	ND	ug/kg	37.9				
Aroclor 1232	ND	ug/kg	37.9				
Aroclor 1242/1016	ND	ug/kg	37.9				
Aroclor 1248	ND	ug/kg	37.9				
Aroclor 1254	ND	ug/kg	37.9				
Aroclor 1260	ND	ug/kg	37.9				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	75.0	%	30-150				
Decachlorobiphenyl	90.0	%	30-150				
Organochlorine Pesticides				1	8081	0301 14:30	0302 19:25 JB
Delta-BHC	ND	ug/kg	3.79				
Lindane	ND	ug/kg	3.79				
Alpha-BHC	ND	ug/kg	3.79				
Beta-BHC	ND	ug/kg	3.79				
Heptachlor	ND	ug/kg	3.79				
Aldrin	ND	ug/kg	3.79				
Heptachlor epoxide	ND	ug/kg	3.79				
Endrin	ND	ug/kg	3.79				
Endrin aldehyde	ND	ug/kg	3.79				
Endrin ketone	ND	ug/kg	3.79				
Dieldrin	ND	ug/kg	3.79				
4,4'-DDE	ND	ug/kg	3.79				
4,4'-DDD	ND	ug/kg	3.79				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-06  
MW/CB-13 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0301 14:30	0302 19:25	JB
4,4'-DDT	ND	ug/kg	3.79				
Endosulfan I	ND	ug/kg	3.79				
Endosulfan II	ND	ug/kg	3.79				
Endosulfan sulfate	ND	ug/kg	3.79				
Methoxychlor	ND	ug/kg	3.79				
Toxaphene	ND	ug/kg	15.2				
Chlordane	ND	ug/kg	15.2				
cis-Chlordane	ND	ug/kg	3.79				
trans-Chlordane	ND	ug/kg	3.79				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	61.0	%		30-150			
Decachlorobiphenyl	71.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0502002-07	<b>Date Collected:</b> 25-FEB-2005 09:30
MW/CB-14 (2'-4')	<b>Date Received :</b> 28-FEB-2005
<b>Sample Matrix:</b> SOIL	<b>Date Reported :</b> 07-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	86.	%	0.10	30 2540G		0304 10:00 ST
Volatile Organics by GC/MS 8260				1 8260B		0303 16:17 BT
Methylene chloride	ND	ug/kg	30.			
1,1-Dichloroethane	ND	ug/kg	4.5			
Chloroform	ND	ug/kg	4.5			
Carbon tetrachloride	ND	ug/kg	3.0			
1,2-Dichloropropane	ND	ug/kg	10.			
Dibromochloromethane	ND	ug/kg	3.0			
1,1,2-Trichloroethane	ND	ug/kg	4.5			
Tetrachloroethene	ND	ug/kg	3.0			
Chlorobenzene	ND	ug/kg	3.0			
Trichlorofluoromethane	ND	ug/kg	15.			
1,2-Dichloroethane	ND	ug/kg	3.0			
1,1,1-Trichloroethane	ND	ug/kg	3.0			
Bromodichloromethane	ND	ug/kg	3.0			
trans-1,3-Dichloropropene	ND	ug/kg	3.0			
cis-1,3-Dichloropropene	ND	ug/kg	3.0			
1,1-Dichloropropene	ND	ug/kg	15.			
Bromoform	ND	ug/kg	12.			
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.0			
Benzene	ND	ug/kg	3.0			
Toluene	ND	ug/kg	4.5			
Ethylbenzene	ND	ug/kg	3.0			
Chloromethane	ND	ug/kg	15.			
Bromomethane	ND	ug/kg	6.0			
Vinyl chloride	ND	ug/kg	6.0			
Chloroethane	ND	ug/kg	6.0			
1,1-Dichloroethene	ND	ug/kg	3.0			
trans-1,2-Dichloroethene	ND	ug/kg	4.5			
Trichloroethene	ND	ug/kg	3.0			
1,2-Dichlorobenzene	ND	ug/kg	15.			
1,3-Dichlorobenzene	ND	ug/kg	15.			
1,4-Dichlorobenzene	ND	ug/kg	15.			
Methyl tert butyl ether	ND	ug/kg	6.0			
p/m-Xylene	ND	ug/kg	3.0			
o-Xylene	ND	ug/kg	3.0			
cis-1,2-Dichloroethene	ND	ug/kg	3.0			
Dibromomethane	ND	ug/kg	30.			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-07  
 MW/CB-14 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0303 16:17 BT	
1,4-Dichlorobutane	ND	ug/kg	30.				
Iodomethane	ND	ug/kg	30.				
1,2,3-Trichloropropane	ND	ug/kg	30.				
Styrene	ND	ug/kg	3.0				
Dichlorodifluoromethane	ND	ug/kg	30.				
Acetone	ND	ug/kg	30.				
Carbon disulfide	ND	ug/kg	30.				
2-Butanone	ND	ug/kg	30.				
Vinyl acetate	ND	ug/kg	30.				
4-Methyl-2-pentanone	ND	ug/kg	30.				
2-Hexanone	ND	ug/kg	30.				
Ethyl methacrylate	ND	ug/kg	30.				
Acrolein	ND	ug/kg	74.				
Acrylonitrile	ND	ug/kg	30.				
Bromochloromethane	ND	ug/kg	15.				
Tetrahydrofuran	ND	ug/kg	60.				
2,2-Dichloropropane	ND	ug/kg	15.				
1,2-Dibromoethane	ND	ug/kg	12.				
1,3-Dichloropropane	ND	ug/kg	15.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.0				
Bromobenzene	ND	ug/kg	15.				
n-Butylbenzene	ND	ug/kg	3.0				
sec-Butylbenzene	ND	ug/kg	3.0				
tert-Butylbenzene	ND	ug/kg	15.				
o-Chlorotoluene	ND	ug/kg	15.				
p-Chlorotoluene	ND	ug/kg	15.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	15.				
Hexachlorobutadiene	ND	ug/kg	15.				
Isopropylbenzene	ND	ug/kg	3.0				
p-Isopropyltoluene	ND	ug/kg	3.0				
Naphthalene	ND	ug/kg	15.				
n-Propylbenzene	ND	ug/kg	3.0				
1,2,3-Trichlorobenzene	ND	ug/kg	15.				
1,2,4-Trichlorobenzene	ND	ug/kg	15.				
1,3,5-Trimethylbenzene	ND	ug/kg	15.				
1,2,4-Trimethylbenzene	ND	ug/kg	15.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	15.				
Ethyl ether	ND	ug/kg	15.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	98.0	%					
Toluene-d8	94.0	%					
4-Bromofluorobenzene	110.	%					
Dibromofluoromethane	82.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

**MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE**

**Laboratory Sample Number:** L0502002-08 **Date Collected:** 25-FEB-2005 10:10  
**Sample Matrix:** MW/CB-14 (6'-8') **Date Received :** 28-FEB-2005  
**SOIL** **Date Reported :** 07-MAR-2005  
**Condition of Sample:** Satisfactory **Field Prep:** None

**Number & Type of Containers:** 2-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	86.	%	0.10	30 2540G		0302 20:27	PD
Total Metals				1 3051			
Aluminum, Total	3200	mg/kg	4.6	1 6010B	0303 20:00	0304 10:42	RW
Antimony, Total	ND	mg/kg	2.3	1 6010B	0303 20:00	0304 10:42	RW
Arsenic, Total	1.6	mg/kg	0.46	1 6010B	0303 20:00	0304 10:42	RW
Barium, Total	34.	mg/kg	0.46	1 6010B	0303 20:00	0304 10:42	RW
Beryllium, Total	0.1435	mg/kg	0.1142	1 6010B	0303 20:00	0304 10:42	RW
Cadmium, Total	ND	mg/kg	0.1142	1 6010B	0303 20:00	0304 10:42	RW
Calcium, Total	4100	mg/kg	4.6	1 6010B	0303 20:00	0304 10:42	RW
Chromium, Total	6.2	mg/kg	0.46	1 6010B	0303 20:00	0304 10:42	RW
Cobalt, Total	4.4	mg/kg	0.91	1 6010B	0303 20:00	0304 10:42	RW
Copper, Total	10.	mg/kg	0.46	1 6010B	0303 20:00	0304 10:42	RW
Iron, Total	6900	mg/kg	2.3	1 6010B	0303 20:00	0304 10:42	RW
Lead, Total	6.9	mg/kg	2.3	1 6010B	0303 20:00	0304 10:42	RW
Magnesium, Total	2100	mg/kg	4.6	1 6010B	0303 20:00	0304 10:42	RW
Manganese, Total	280	mg/kg	0.46	1 6010B	0303 20:00	0304 10:42	RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0302 18:20	0303 10:40	DM
Nickel, Total	7.1	mg/kg	0.46	1 6010B	0303 20:00	0304 10:42	RW
Potassium, Total	540	mg/kg	110	1 6010B	0303 20:00	0304 10:42	RW
Selenium, Total	ND	mg/kg	0.228	1 6010B	0303 20:00	0304 10:42	RW
Silver, Total	ND	mg/kg	0.46	1 6010B	0303 20:00	0304 10:42	RW
Sodium, Total	350	mg/kg	91.	1 6010B	0303 20:00	0304 10:42	RW
Thallium, Total	ND	mg/kg	0.46	1 6010B	0303 20:00	0304 10:42	RW
Vanadium, Total	7.7	mg/kg	0.46	1 6010B	0303 20:00	0304 10:42	RW
Zinc, Total	16.	mg/kg	2.3	1 6010B	0303 20:00	0304 10:42	RW
Volatile Organics by GC/MS 8260				1 8260B		0303 16:55	BT
Methylene chloride	ND	ug/kg	29.				
1,1-Dichloroethane	ND	ug/kg	4.4				
Chloroform	ND	ug/kg	4.4				
Carbon tetrachloride	ND	ug/kg	2.9				
1,2-Dichloropropane	ND	ug/kg	10.				
Dibromochloromethane	ND	ug/kg	2.9				
1,1,2-Trichloroethane	ND	ug/kg	4.4				
Tetrachloroethene	ND	ug/kg	2.9				
Chlorobenzene	ND	ug/kg	2.9				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-08  
 MW/CB-14 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0303 16:55 BT	
1,2-Dichloroethane	ND	ug/kg	2.9				
1,1,1-Trichloroethane	ND	ug/kg	2.9				
Bromodichloromethane	ND	ug/kg	2.9				
trans-1,3-Dichloropropene	ND	ug/kg	2.9				
cis-1,3-Dichloropropene	ND	ug/kg	2.9				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	12.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.9				
Benzene	ND	ug/kg	2.9				
Toluene	ND	ug/kg	4.4				
Ethylbenzene	ND	ug/kg	2.9				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.8				
Vinyl chloride	ND	ug/kg	5.8				
Chloroethane	ND	ug/kg	5.8				
1,1-Dichloroethene	ND	ug/kg	2.9				
trans-1,2-Dichloroethene	ND	ug/kg	4.4				
Trichloroethene	ND	ug/kg	2.9				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.8				
p/m-Xylene	ND	ug/kg	2.9				
o-Xylene	ND	ug/kg	2.9				
cis-1,2-Dichloroethene	ND	ug/kg	2.9				
Dibromomethane	ND	ug/kg	29.				
1,4-Dichlorobutane	ND	ug/kg	29.				
Iodomethane	ND	ug/kg	29.				
1,2,3-Trichloropropane	ND	ug/kg	29.				
Styrene	ND	ug/kg	2.9				
Dichlorodifluoromethane	ND	ug/kg	29.				
Acetone	ND	ug/kg	29.				
Carbon disulfide	ND	ug/kg	29.				
2-Butanone	ND	ug/kg	29.				
Vinyl acetate	ND	ug/kg	29.				
4-Methyl-2-pentanone	ND	ug/kg	29.				
2-Hexanone	ND	ug/kg	29.				
Ethyl methacrylate	ND	ug/kg	29.				
Acrolein	ND	ug/kg	73.				
Acrylonitrile	ND	ug/kg	29.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	58.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	12.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.9				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.9				
sec-Butylbenzene	ND	ug/kg	2.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-08  
MW/CB-14 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0303 16:55		BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.9				
p-Isopropyltoluene	ND	ug/kg	2.9				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.9				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	100.	%					
Toluene-d8	94.0	%					
4-Bromofluorobenzene	108.	%					
Dibromofluoromethane	94.0	%					
SVOC's by GC/MS 8270				1 8270C	0301 20:10		0302 20:55 HL
Acenaphthene	ND	ug/kg	190				
Benzidine	ND	ug/kg	1900				
1,2,4-Trichlorobenzene	ND	ug/kg	190				
Hexachlorobenzene	ND	ug/kg	190				
Bis(2-chloroethyl)ether	ND	ug/kg	190				
1-Chloronaphthalene	ND	ug/kg	190				
2-Chloronaphthalene	ND	ug/kg	230				
1,2-Dichlorobenzene	ND	ug/kg	190				
1,3-Dichlorobenzene	ND	ug/kg	190				
1,4-Dichlorobenzene	ND	ug/kg	190				
3,3'-Dichlorobenzidine	ND	ug/kg	1900				
2,4-Dinitrotoluene	ND	ug/kg	230				
2,6-Dinitrotoluene	ND	ug/kg	190				
Azobenzene	ND	ug/kg	190				
Fluoranthene	ND	ug/kg	190				
4-Chlorophenyl phenyl ether	ND	ug/kg	190				
4-Bromophenyl phenyl ether	ND	ug/kg	190				
Bis(2-chloroisopropyl)ether	ND	ug/kg	190				
Bis(2-chloroethoxy)methane	ND	ug/kg	190				
Hexachlorobutadiene	ND	ug/kg	390				
Hexachlorocyclopentadiene	ND	ug/kg	390				
Hexachloroethane	ND	ug/kg	190				
Isophorone	ND	ug/kg	190				
Naphthalene	ND	ug/kg	190				
Nitrobenzene	ND	ug/kg	190				
NDPA/DPA	ND	ug/kg	580				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-08  
MW/CB-14 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0301 20:10	0302 20:55	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	190				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	390				
Butyl benzyl phthalate	ND	ug/kg	190				
Di-n-butylphthalate	ND	ug/kg	190				
Di-n-octylphthalate	ND	ug/kg	190				
Diethyl phthalate	ND	ug/kg	190				
Dimethyl phthalate	ND	ug/kg	190				
Benzo(a)anthracene	ND	ug/kg	190				
Benzo(a)pyrene	ND	ug/kg	190				
Benzo(b)fluoranthene	ND	ug/kg	190				
Benzo(k)fluoranthene	ND	ug/kg	190				
Chrysene	ND	ug/kg	190				
Acenaphthylene	ND	ug/kg	190				
Anthracene	ND	ug/kg	190				
Benzo(ghi)perylene	ND	ug/kg	190				
Fluorene	ND	ug/kg	190				
Phenanthrene	ND	ug/kg	190				
Dibenzo(a,h)anthracene	ND	ug/kg	190				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	190				
Pyrene	ND	ug/kg	190				
Benzo(e)pyrene	ND	ug/kg	190				
Biphenyl	ND	ug/kg	190				
Perylene	ND	ug/kg	190				
Aniline	ND	ug/kg	390				
4-Chloroaniline	ND	ug/kg	190				
1-Methylnaphthalene	ND	ug/kg	190				
2-Nitroaniline	ND	ug/kg	190				
3-Nitroaniline	ND	ug/kg	190				
4-Nitroaniline	ND	ug/kg	270				
Dibenzofuran	ND	ug/kg	190				
a,a-Dimethylphenethylamine	ND	ug/kg	1900				
Hexachloropropene	ND	ug/kg	390				
Nitrosodi-n-butylamine	ND	ug/kg	390				
2-Methylnaphthalene	ND	ug/kg	310				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	780				
Pentachlorobenzene	ND	ug/kg	780				
a-Naphthylamine	ND	ug/kg	780				
b-Naphthylamine	ND	ug/kg	780				
Phenacetin	ND	ug/kg	390				
Dimethoate	ND	ug/kg	780				
4-Aminobiphenyl	ND	ug/kg	390				
Pentachloronitrobenzene	ND	ug/kg	390				
Isodrin	ND	ug/kg	390				
p-Dimethylaminoazobenzene	ND	ug/kg	390				
Chlorobenzilate	ND	ug/kg	780				
3-Methylcholanthrene	ND	ug/kg	780				
Ethyl Methanesulfonate	ND	ug/kg	580				
Acetophenone	ND	ug/kg	780				
Nitrosodipiperidine	ND	ug/kg	780				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-08  
MW/CB-14 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0301 20:10	0302 20:55 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	390				
n-Nitrosodimethylamine	ND	ug/kg	1900				
2,4,6-Trichlorophenol	ND	ug/kg	190				
p-Chloro-m-cresol	ND	ug/kg	190				
2-Chlorophenol	ND	ug/kg	230				
2,4-Dichlorophenol	ND	ug/kg	390				
2,4-Dimethylphenol	ND	ug/kg	390				
2-Nitrophenol	ND	ug/kg	780				
4-Nitrophenol	ND	ug/kg	390				
2,4-Dinitrophenol	ND	ug/kg	780				
4,6-Dinitro-o-cresol	ND	ug/kg	780				
Pentachlorophenol	ND	ug/kg	780				
Phenol	ND	ug/kg	270				
2-Methylphenol	ND	ug/kg	230				
3-Methylphenol/4-Methylphenol	ND	ug/kg	230				
2,4,5-Trichlorophenol	ND	ug/kg	190				
2,6-Dichlorophenol	ND	ug/kg	390				
Benzoic Acid	ND	ug/kg	1900				
Benzyl Alcohol	ND	ug/kg	390				
Carbazole	ND	ug/kg	190				
Pyridine	ND	ug/kg	1900				
2-Picoline	ND	ug/kg	780				
Pronamide	ND	ug/kg	780				
Methyl methanesulfonate	ND	ug/kg	780				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	71.0	%	25-120				
Phenol-d6	89.0	%	10-120				
Nitrobenzene-d5	96.0	%	23-120				
2-Fluorobiphenyl	79.0	%	30-120				
2,4,6-Tribromophenol	68.0	%	19-120				
4-Terphenyl-d14	115.	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0301 20:10	0304 03:29 RL
Acenaphthene	ND	ug/kg	7.8				
2-Chloronaphthalene	ND	ug/kg	7.8				
Fluoranthene	ND	ug/kg	7.8				
Hexachlorobutadiene	ND	ug/kg	19.				
Naphthalene	ND	ug/kg	7.8				
Benzo(a)anthracene	ND	ug/kg	7.8				
Benzo(a)pyrene	ND	ug/kg	7.8				
Benzo(b)fluoranthene	ND	ug/kg	7.8				
Benzo(k)fluoranthene	ND	ug/kg	7.8				
Chrysene	ND	ug/kg	7.8				
Acenaphthylene	ND	ug/kg	7.8				
Anthracene	ND	ug/kg	7.8				
Benzo(ghi)perylene	ND	ug/kg	7.8				
Fluorene	ND	ug/kg	7.8				
Phenanthrene	ND	ug/kg	7.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-08  
 MW/CB-14 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0301 20:10	0304 03:29 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.8				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.8				
Pyrene	ND	ug/kg	7.8				
1-Methylnaphthalene	ND	ug/kg	7.8				
2-Methylnaphthalene	ND	ug/kg	7.8				
Pentachlorophenol	150	ug/kg	31.				
Hexachlorobenzene	ND	ug/kg	31.				
Perylene	ND	ug/kg	7.8				
Biphenyl	ND	ug/kg	7.8				
2,6-Dimethylnaphthalene	ND	ug/kg	7.8				
1-Methylphenanthrene	ND	ug/kg	7.8				
Benzo(e)Pyrene	ND	ug/kg	7.8				
Hexachloroethane	ND	ug/kg	31.				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	68.0	%					25-120
Phenol-d6	88.0	%					10-120
Nitrobenzene-d5	75.0	%					23-120
2-Fluorobiphenyl	66.0	%					30-120
2,4,6-Tribromophenol	92.0	%					19-120
4-Terphenyl-d14	74.0	%					18-120
Polychlorinated Biphenyls				1	8082	0301 16:00	0302 20:04 BW
Aroclor 1221	ND	ug/kg	38.8				
Aroclor 1232	ND	ug/kg	38.8				
Aroclor 1242/1016	ND	ug/kg	38.8				
Aroclor 1248	ND	ug/kg	38.8				
Aroclor 1254	ND	ug/kg	38.8				
Aroclor 1260	ND	ug/kg	38.8				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	86.0	%					30-150
Decachlorobiphenyl	105.	%					30-150
Organochlorine Pesticides				1	8081	0301 14:30	0302 19:54 JB
Delta-BHC	ND	ug/kg	3.88				
Lindane	ND	ug/kg	3.88				
Alpha-BHC	ND	ug/kg	3.88				
Beta-BHC	ND	ug/kg	3.88				
Heptachlor	ND	ug/kg	3.88				
Aldrin	ND	ug/kg	3.88				
Heptachlor epoxide	ND	ug/kg	3.88				
Endrin	ND	ug/kg	3.88				
Endrin aldehyde	ND	ug/kg	3.88				
Endrin ketone	ND	ug/kg	3.88				
Dieldrin	ND	ug/kg	3.88				
4,4'-DDE	ND	ug/kg	3.88				
4,4'-DDD	ND	ug/kg	3.88				
4,4'-DDT	ND	ug/kg	3.88				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-08  
MW/CB-14 (6'-8')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0301 14:30	0302 19:54	JB
Endosulfan I	ND	ug/kg	3.88				
Endosulfan II	ND	ug/kg	3.88				
Endosulfan sulfate	ND	ug/kg	3.88				
Methoxychlor	ND	ug/kg	3.88				
Toxaphene	ND	ug/kg	15.5				
Chlordane	ND	ug/kg	15.5				
cis-Chlordane	ND	ug/kg	3.88				
trans-Chlordane	ND	ug/kg	3.88				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	62.0	%		30-150			
Decachlorobiphenyl	69.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502002-09 Date Collected: 25-FEB-2005 11:00  
 FIELD BLANK Date Received : 28-FEB-2005  
 Sample Matrix: WATER Date Reported : 07-MAR-2005  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 6-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Metals				1	3015		
Aluminum, Total	ND	mg/l	0.10	1 6010B	0303 18:00	0304 09:08	RW
Antimony, Total	ND	mg/l	0.050	1 6010B	0303 18:00	0304 09:08	RW
Arsenic, Total	ND	mg/l	0.005	1 6010B	0303 18:00	0304 09:08	RW
Barium, Total	ND	mg/l	0.01	1 6010B	0303 18:00	0304 09:08	RW
Beryllium, Total	ND	mg/l	0.003	1 6010B	0303 18:00	0304 09:08	RW
Cadmium, Total	ND	mg/l	0.003	1 6010B	0303 18:00	0304 09:08	RW
Calcium, Total	ND	mg/l	0.10	1 6010B	0303 18:00	0304 09:08	RW
Chromium, Total	ND	mg/l	0.01	1 6010B	0303 18:00	0304 09:08	RW
Cobalt, Total	ND	mg/l	0.02	1 6010B	0303 18:00	0304 09:08	RW
Copper, Total	ND	mg/l	0.01	1 6010B	0303 18:00	0304 09:08	RW
Iron, Total	0.12	mg/l	0.05	1 6010B	0303 18:00	0304 09:08	RW
Lead, Total	ND	mg/l	0.050	1 6010B	0303 18:00	0304 09:08	RW
Magnesium, Total	ND	mg/l	0.10	1 6010B	0303 18:00	0304 09:08	RW
Manganese, Total	ND	mg/l	0.01	1 6010B	0303 18:00	0304 09:08	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0301 17:45	0302 12:29	DM
Nickel, Total	ND	mg/l	0.010	1 6010B	0303 18:00	0304 09:08	RW
Potassium, Total	ND	mg/l	2.5	1 6010B	0303 18:00	0304 09:08	RW
Selenium, Total	ND	mg/l	0.005	1 6010B	0303 18:00	0304 09:08	RW
Silver, Total	ND	mg/l	0.007	1 6010B	0303 18:00	0304 09:08	RW
Sodium, Total	ND	mg/l	2.0	1 6010B	0303 18:00	0304 09:08	RW
Thallium, Total	ND	mg/l	0.005	1 6010B	0303 18:00	0304 09:08	RW
Vanadium, Total	ND	mg/l	0.01	1 6010B	0303 18:00	0304 09:08	RW
Zinc, Total	ND	mg/l	0.05	1 6010B	0303 18:00	0304 09:08	RW
Volatile Organics by GC/MS 8260				1	8260B	0301 15:27	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-09  
 FIELD BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0301 15:27		BT
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-09  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0301 15:27	BT	
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	123.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	116.	%					
Dibromofluoromethane	113.	%					
SVOC's by GC/MS 8270				1 8270C	0301 12:35	0302 18:51	HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-09  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0301 12:35	0302 18:51	HL
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-09  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0301 12:35	0302 18:51	HL
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	64.0	%					
Phenol-d6	50.0	%					
Nitrobenzene-d5	131.	%					
2-Fluorobiphenyl	111.	%					
2,4,6-Tribromophenol	101.	%					
4-Terphenyl-d14	136.	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0301 12:35	0304 02:04	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-09  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0301 12:35	0304 02:04 RL
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	6.5	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	55.0	%	21-120				
Phenol-d6	44.0	%	10-120				
Nitrobenzene-d5	89.0	%	23-120				
2-Fluorobiphenyl	80.0	%	43-120				
2,4,6-Tribromophenol	93.0	%	10-120				
4-Terphenyl-d14	82.0	%	33-120				
Polychlorinated Biphenyls				1	8082	0301 16:15	0302 13:54 BW
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	86.0	%	30-150				
Decachlorobiphenyl	57.0	%	30-150				
Organochlorine Pesticides				1	8081	0301 12:35	0302 15:14 BW
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-09  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0301 12:35	0302 15:14	BW
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	67.0	%		30-150			
Decachlorobiphenyl	37.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0502002-10	<b>Date Collected:</b> 10-FEB-2005 15:30
TRIP BLANK	<b>Date Received :</b> 28-FEB-2005
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 07-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B	0301 16:04	BT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	0.50			
o-Xylene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,4-Dichlorobutane	ND	ug/l	5.0			
Iodomethane	ND	ug/l	5.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502002-10  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0301 16:04		BT
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	124.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	114.	%					
Dibromofluoromethane	110.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS**

Laboratory Job Number: L0502002

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total for sample(s) 01-04,06,08 (L0502002-01, WG195527-1)					
Solids, Total	89.	89.	%	0	
Solids, Total for sample(s) 05,07 (L0502048-01, WG195696-1)					
Solids, Total	93.	92.	%	1	
Total Metals for sample(s) 02-06,08 (L0502002-03, WG195659-1)					
Aluminum, Total	2700	3000	mg/kg	11	35
Antimony, Total	ND	ND	mg/kg	NC	35
Arsenic, Total	1.2	1.4	mg/kg	15	35
Barium, Total	32.	35.	mg/kg	9	35
Beryllium, Total	0.1212	0.1441	mg/kg	17	35
Cadmium, Total	ND	ND	mg/kg	NC	35
Calcium, Total	5500	3200	mg/kg	53	35
Chromium, Total	5.9	6.1	mg/kg	3	35
Cobalt, Total	2.8	3.1	mg/kg	10	35
Copper, Total	10.	11.	mg/kg	10	35
Iron, Total	5400	5900	mg/kg	9	35
Lead, Total	5.7	6.7	mg/kg	16	35
Magnesium, Total	1400	1600	mg/kg	13	35
Manganese, Total	260	290	mg/kg	11	35
Nickel, Total	5.8	6.3	mg/kg	8	35
Potassium, Total	320	320	mg/kg	0	35
Selenium, Total	ND	ND	mg/kg	NC	35
Silver, Total	ND	ND	mg/kg	NC	35
Sodium, Total	150	150	mg/kg	0	35
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	7.2	7.4	mg/kg	3	35
Zinc, Total	13.	16.	mg/kg	21	35
Total Metals for sample(s) 09 (L0501881-08, WG195405-3)					
Mercury, Total	ND	ND	mg/l	NC	20
Total Metals for sample(s) 02-06,08 (L0502002-04, WG195548-3)					
Mercury, Total	ND	ND	mg/kg	NC	35

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0502002

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Parameter	% Recovery	QC Criteria
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Total Metals LCS for sample(s) 02-06,08 (WG195659-4)

Aluminum, Total	99	70-140
Antimony, Total	90	70-140
Arsenic, Total	104	70-140
Barium, Total	94	70-140
Beryllium, Total	97	70-140
Cadmium, Total	102	70-140
Calcium, Total	95	70-140
Chromium, Total	94	70-140
Cobalt, Total	95	70-140
Copper, Total	94	70-140
Iron, Total	95	70-140
Lead, Total	108	70-140
Magnesium, Total	100	70-140
Manganese, Total	95	70-140
Nickel, Total	95	70-140
Potassium, Total	85	70-140
Selenium, Total	107	70-140
Silver, Total	100	70-140
Sodium, Total	95	70-140
Thallium, Total	98	70-140
Vanadium, Total	95	70-140
Zinc, Total	95	70-140

Total Metals LCS for sample(s) 09 (WG195724-2)

Aluminum, Total	105	75-125
Antimony, Total	100	75-125
Arsenic, Total	108	75-125
Barium, Total	100	75-125
Beryllium, Total	102	75-125
Cadmium, Total	108	75-125
Calcium, Total	100	75-125
Chromium, Total	100	75-125
Cobalt, Total	100	75-125
Copper, Total	100	75-125
Iron, Total	97	75-125
Lead, Total	106	75-125
Magnesium, Total	100	75-125
Manganese, Total	100	75-125
Nickel, Total	100	75-125
Potassium, Total	97	75-125
Selenium, Total	113	75-125
Silver, Total	102	75-125
Sodium, Total	100	75-125
Thallium, Total	96	75-125
Vanadium, Total	100	75-125
Zinc, Total	102	75-125

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502002

Continued

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 09 (WG195405-1)		
Mercury, Total	100	70-130
Total Metals LCS for sample(s) 02-06,08 (WG195548-1)		
Mercury, Total	104	70-130
Volatile Organics by GC/MS 8260 LCS for sample(s) 09-10 (WG195265-7)		
Chlorobenzene	96	
Benzene	93	
Toluene	95	
1,1-Dichloroethene	99	
Trichloroethene	100	
Surrogate(s)		
1,2-Dichloroethane-d4	117	
Toluene-d8	102	
4-Bromofluorobenzene	106	
Dibromofluoromethane	108	
Volatile Organics by GC/MS 8260 LCS for sample(s) 05-08 (WG195684-3)		
Chlorobenzene	99	
Benzene	97	
Toluene	95	
1,1-Dichloroethene	95	
Trichloroethene	98	
Surrogate(s)		
1,2-Dichloroethane-d4	94	
Toluene-d8	95	
4-Bromofluorobenzene	99	
Dibromofluoromethane	92	
Volatile Organics by GC/MS 8260 LCS for sample(s) 01,03-04 (WG195363-9)		
Chlorobenzene	96	
Benzene	95	
Toluene	92	
1,1-Dichloroethene	93	
Trichloroethene	93	
Surrogate(s)		
1,2-Dichloroethane-d4	96	
Toluene-d8	97	
4-Bromofluorobenzene	105	
Dibromofluoromethane	94	
SVOC's by GC/MS 8270 LCS for sample(s) 09 (WG195374-2)		
Acenaphthene	82	
1,2,4-Trichlorobenzene	76	
2-Chloronaphthalene	85	

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502002

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 09 (WG195374-2)		
1,2-Dichlorobenzene	66	
1,4-Dichlorobenzene	64	
2,4-Dinitrotoluene	130	
2,6-Dinitrotoluene	123	
Fluoranthene	110	
4-Chlorophenyl phenyl ether	94	
n-Nitrosodi-n-propylamine	71	
Butyl benzyl phthalate	97	
Anthracene	57	
Pyrene	105	
Hexachloropropene	77	
P-Chloro-M-Cresol	86	
2-Chlorophenol	65	
2-Nitrophenol	81	
4-Nitrophenol	58	
2,4-Dinitrophenol	79	
Pentachlorophenol	100	
Phenol	33	
Surrogate(s)		
2-Fluorophenol	45	
Phenol-d6	38	
Nitrobenzene-d5	90	
2-Fluorobiphenyl	88	
2,4,6-Tribromophenol	88	
4-Terphenyl-d14	115	
SVOC's by GC/MS 8270 LCS for sample(s) 02-06,08 (WG195440-2)		
Acenaphthene	71	31-137
1,2,4-Trichlorobenzene	72	38-107
2-Chloronaphthalene	78	
1,2-Dichlorobenzene	62	
1,4-Dichlorobenzene	63	28-104
2,4-Dinitrotoluene	105	28-89
2,6-Dinitrotoluene	104	
Fluoranthene	89	
4-Chlorophenyl phenyl ether	81	
n-Nitrosodi-n-propylamine	62	41-126
Butyl benzyl phthalate	80	
Anthracene	48	
Pyrene	86	35-142
Hexachloropropene	79	
P-Chloro-M-Cresol	82	26-103
2-Chlorophenol	63	25-102
2-Nitrophenol	70	
4-Nitrophenol	85	11-114
2,4-Dinitrophenol	29	
Pentachlorophenol	78	17-109

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502002

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 02-06,08 (WG195440-2)		
Phenol	62	26-90
Surrogate(s)		
2-Fluorophenol	65	25-120
Phenol-d6	80	10-120
Nitrobenzene-d5	84	23-120
2-Fluorobiphenyl	84	30-120
2,4,6-Tribromophenol	77	19-120
4-Terphenyl-d14	100	18-120
PAH by GC/MS SIM 8270M LCS for sample(s) 09 (WG195375-2)		
Acenaphthene	67	46-118
2-Chloronaphthalene	62	
Fluoranthene	76	
Anthracene	46	
Pyrene	72	26-127
Pentachlorophenol	76	9-103
Surrogate(s)		
2-Fluorophenol	51	21-120
Phenol-d6	43	10-120
Nitrobenzene-d5	78	23-120
2-Fluorobiphenyl	66	43-120
2,4,6-Tribromophenol	88	10-120
4-Terphenyl-d14	72	33-120
PAH by GC/MS SIM 8270M LCS for sample(s) 02-06,08 (WG195443-2)		
Acenaphthene	75	40-140
2-Chloronaphthalene	78	40-140
Fluoranthene	97	40-140
Anthracene	51	40-140
Pyrene	78	40-140
Pentachlorophenol	91	40-140
Surrogate(s)		
2-Fluorophenol	88	25-120
Phenol-d6	116	10-120
Nitrobenzene-d5	97	23-120
2-Fluorobiphenyl	83	30-120
2,4,6-Tribromophenol	114	19-120
4-Terphenyl-d14	95	18-120
Polychlorinated Biphenyls LCS for sample(s) 02-06,08 (WG195395-2)		
Aroclor 1242/1016	80	40-140
Aroclor 1260	104	40-140

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502002

Continued

Parameter	% Recovery	QC Criteria
Polychlorinated Biphenyls LCS for sample(s) 02-06,08 (WG195395-2)		
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	77	30-150
Decachlorobiphenyl	105	30-150
Polychlorinated Biphenyls LCS for sample(s) 09 (WG195425-2)		
Aroclor 1242/1016	90	30-150
Aroclor 1260	118	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	81	30-150
Decachlorobiphenyl	112	30-150
Organochlorine Pesticides LCS for sample(s) 09 (WG195377-2)		
Delta-BHC	55	
Lindane	67	
Alpha-BHC	67	
Beta-BHC	66	
Heptachlor	69	
Aldrin	70	
Heptachlor epoxide	69	
Endrin	88	
Endrin aldehyde	58	
Endrin ketone	63	
Dieldrin	65	
4,4'-DDE	78	
4,4'-DDD	79	
4,4'-DDT	78	
Endosulfan I	74	
Endosulfan II	72	
Endosulfan sulfate	57	
Methoxychlor	86	
cis-Chlordane	77	
trans-Chlordane	74	
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	64	30-150
Decachlorobiphenyl	45	30-150
Organochlorine Pesticides LCS for sample(s) 02-06,08 (WG195397-2)		
Delta-BHC	61	
Lindane	68	46-127
Alpha-BHC	65	
Beta-BHC	66	
Heptachlor	70	35-130
Aldrin	70	34-132
Heptachlor epoxide	73	
Endrin	88	42-139

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502002

Continued

Parameter	% Recovery	QC Criteria
Organochlorine Pesticides LCS for sample(s) 02-06,08 (WG195397-2)		
Endrin aldehyde	52	
Endrin ketone	72	
Dieldrin	79	31-134
4,4'-DDE	79	
4,4'-DDD	78	
4,4'-DDT	94	23-134
Endosulfan I	68	
Endosulfan II	77	
Endosulfan sulfate	66	
Methoxychlor	92	
cis-Chlordane	73	
trans-Chlordane	69	
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	68	30-150
Decachlorobiphenyl	83	30-150
Total Metals SPIKE for sample(s) 02-06,08 (L0502002-03, WG195659-2)		
Aluminum, Total	0	70-140
Antimony, Total	83	70-140
Arsenic, Total	100	70-140
Barium, Total	85	70-140
Beryllium, Total	94	70-140
Cadmium, Total	95	70-140
Calcium, Total	0	70-140
Chromium, Total	78	70-140
Cobalt, Total	88	70-140
Copper, Total	96	70-140
Iron, Total	0	70-140
Lead, Total	104	70-140
Magnesium, Total	66	70-140
Manganese, Total	44	70-140
Nickel, Total	88	70-140
Potassium, Total	85	70-140
Selenium, Total	94	70-140
Silver, Total	95	70-140
Sodium, Total	103	70-140
Thallium, Total	93	70-140
Vanadium, Total	82	70-140
Zinc, Total	88	70-140
Total Metals SPIKE for sample(s) 09 (L0502002-09, WG195405-2)		
Mercury, Total	120	70-130
Total Metals SPIKE for sample(s) 02-06,08 (L0502002-05, WG195548-2)		
Mercury, Total	0	70-130

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0502002

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 09-10 (L0501896-01, WG195265-2)					
Chlorobenzene	124	108	14		
Benzene	122	106	14		
Toluene	123	107	14		
1,1-Dichloroethene	132	114	15		
Trichloroethene	127	106	18		
Surrogate(s)					
1,2-Dichloroethane-d4	98	94	4		
Toluene-d8	100	98	2		
4-Bromofluorobenzene	104	103	1		
Dibromofluoromethane	100	96	4		
Volatile Organics by GC/MS 8260 for sample(s) 01,03-04 (L0501881-07, WG195363-2)					
Chlorobenzene	90	97	7		
Benzene	93	93	0		
Toluene	87	90	3		
1,1-Dichloroethene	90	90	0		
Trichloroethene	91	93	2		
Surrogate(s)					
1,2-Dichloroethane-d4	95	94	1		
Toluene-d8	98	98	0		
4-Bromofluorobenzene	103	105	2		
Dibromofluoromethane	95	94	1		
Volatile Organics by GC/MS 8260 for sample(s) 05-08 (L0502002-08, WG195684-2)					
Chlorobenzene	91	79	14		
Benzene	91	74	21		
Toluene	88	71	21		
1,1-Dichloroethene	93	78	18		
Trichloroethene	98	85	14		
Surrogate(s)					
1,2-Dichloroethane-d4	95	104	9		
Toluene-d8	94	97	3		
4-Bromofluorobenzene	96	102	6		
Dibromofluoromethane	95	98	3		
SVOC's by GC/MS 8270 for sample(s) 09 (L0502002-09, WG195374-4)					
Acenaphthene	86	86	0		
1,2,4-Trichlorobenzene	77	86	11		
2-Chloronaphthalene	86	95	10		
1,2-Dichlorobenzene	68	72	6		
1,4-Dichlorobenzene	68	72	6		
2,4-Dinitrotoluene	135	138	2		
2,6-Dinitrotoluene	130	130	0		
Fluoranthene	120	110	9		
4-Chlorophenyl phenyl ether	99	99	0		



**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0502002

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 09 (L0502002-09, WG195374-4)					
n-Nitrosodi-n-propylamine	72	77	7		
Butyl benzyl phthalate	100	100	0		
Anthracene	63	59	7		
Pyrene	110	110	0		
Hexachloropropene	86	95	10		
P-Chloro-M-Cresol	90	99	10		
2-Chlorophenol	68	74	8		
2-Nitrophenol	81	90	11		
4-Nitrophenol	98	94	3		
2,4-Dinitrophenol	95	100	5		
Pentachlorophenol	107	107	0		
Phenol	52	59	13		
Surrogate(s)					
2-Fluorophenol	59	65	10		
Phenol-d6	61	67	9		
Nitrobenzene-d5	91	99	8		
2-Fluorobiphenyl	90	99	10		
2,4,6-Tribromophenol	94	90	4		
4-Terphenyl-d14	123	119	3		
SVOC's by GC/MS 8270 for sample(s) 02-06,08 (L0502002-02, WG195440-4)					
Acenaphthene	74	82	10	50	31-137
1,2,4-Trichlorobenzene	65	77	17	50	38-107
2-Chloronaphthalene	74	89	18	50	
1,2-Dichlorobenzene	58	67	14	50	
1,4-Dichlorobenzene	58	65	11	50	28-104
2,4-Dinitrotoluene	132	131	0	50	28-89
2,6-Dinitrotoluene	120	130	8	50	
Fluoranthene	110	110	0	50	
4-Chlorophenyl phenyl ether	91	94	3	50	
n-Nitrosodi-n-propylamine	62	74	18	50	41-126
Butyl benzyl phthalate	100	110	10	50	
Anthracene	58	60	3	50	
Pyrene	110	110	0	50	35-142
Hexachloropropene	70	77	10	50	
P-Chloro-M-Cresol	90	96	6	50	26-103
2-Chlorophenol	61	71	15	50	25-102
2-Nitrophenol	67	84	23	50	
4-Nitrophenol	117	110	9	50	11-114
2,4-Dinitrophenol	98	96	2	50	
Pentachlorophenol	68	66	3	50	17-109
Phenol	61	73	18	50	26-90
Surrogate(s)					
2-Fluorophenol	63	74	16		25-120
Phenol-d6	78	91	15		10-120

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0502002

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 02-06,08 (L0502002-02, WG195440-4)					
Nitrobenzene-d5	81	95	16		23-120
2-Fluorobiphenyl	80	94	16		30-120
2,4,6-Tribromophenol	93	97	4		19-120
4-Terphenyl-d14	123	127	3		18-120
PAH by GC/MS SIM 8270M for sample(s) 09 (L0502002-09, WG195375-4)					
Acenaphthene	72	77	7	40	46-118
2-Chloronaphthalene	72	72	0	40	
Fluoranthene	86	86	0	40	
Anthracene	54	50	8	40	
Pyrene	81	81	0	40	26-127
Pentachlorophenol	91	100	9	40	9-103
Surrogate(s)					
2-Fluorophenol	71	75	5		21-120
Phenol-d6	73	80	9		10-120
Nitrobenzene-d5	85	90	6		23-120
2-Fluorobiphenyl	74	75	1		43-120
2,4,6-Tribromophenol	100	99	1		10-120
4-Terphenyl-d14	81	78	4		33-120
PAH by GC/MS SIM 8270M for sample(s) 02-06,08 (L0502002-02, WG195443-4)					
Acenaphthene	65	65	0	50	40-140
2-Chloronaphthalene	62	62	0	50	40-140
Fluoranthene	91	86	6	50	40-140
Anthracene	50	48	4	50	40-140
Pyrene	82	67	20	50	40-140
Pentachlorophenol	69	57	19	50	40-140
Surrogate(s)					
2-Fluorophenol	69	73	6		25-120
Phenol-d6	91	97	6		10-120
Nitrobenzene-d5	74	80	8		23-120
2-Fluorobiphenyl	66	68	3		30-120
2,4,6-Tribromophenol	114	104	9		19-120
4-Terphenyl-d14	92	85	8		18-120
Polychlorinated Biphenyls for sample(s) 02-06,08 (L0502002-03, WG195395-4)					
Aroclor 1242/1016	88	78	13	50	40-140
Aroclor 1260	106	92	14	50	40-140
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	78	73	7		30-150
Decachlorobiphenyl	103	90	13		30-150

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0502002

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Polychlorinated Biphenyls for sample(s) 09 (L0502002-09, WG195425-4)					
Aroclor 1242/1016	93	90	3	30	30-150
Aroclor 1260	117	111	5	30	30-150
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	87	89	2		30-150
Decachlorobiphenyl	76	66	14		30-150
Organochlorine Pesticides for sample(s) 09 (L0502002-09, WG195377-4)					
Delta-BHC	57	50	13	30	
Lindane	68	58	16	30	
Alpha-BHC	67	57	16	30	
Beta-BHC	67	58	14	30	
Heptachlor	70	53	28	30	
Aldrin	70	64	9	30	
Heptachlor epoxide	72	62	15	30	
Endrin	86	78	10	30	
Endrin aldehyde	62	50	21	30	
Endrin ketone	68	59	14	30	
Dieldrin	69	59	16	30	
4,4'-DDE	76	70	8	30	
4,4'-DDD	77	72	7	30	
4,4'-DDT	76	70	8	30	
Endosulfan I	71	66	7	30	
Endosulfan II	74	63	16	30	
Endosulfan sulfate	63	52	19	30	
Methoxychlor	87	79	10	30	
cis-Chlordane	75	70	7	30	
trans-Chlordane	72	66	9	30	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	67	61	9		30-150
Decachlorobiphenyl	48	47	2		30-150
Organochlorine Pesticides for sample(s) 02-06,08 (L0502002-03, WG195397-4)					
Delta-BHC	60	57	6	50	
Lindane	66	60	9	50	46-127
Alpha-BHC	64	59	8	50	
Beta-BHC	83	71	16	50	
Heptachlor	66	61	9	50	35-130
Aldrin	67	60	10	50	34-132
Heptachlor epoxide	69	64	7	50	
Endrin	82	80	2	50	42-139
Endrin aldehyde	56	50	12	50	
Endrin ketone	73	72	1	50	
Dieldrin	73	71	3	50	31-134
4,4'-DDE	74	73	2	50	
4,4'-DDD	72	74	2	50	

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0502002

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Organochlorine Pesticides for sample(s) 02-06,08 (L0502002-03, WG195397-4)					
4,4'-DDT	88	86	2	50	23-134
Endosulfan I	63	60	5	50	
Endosulfan II	73	73	0	50	
Endosulfan sulfate	71	69	3	50	
Methoxychlor	89	85	5	50	
cis-Chlordane	64	65	2	50	
trans-Chlordane	64	62	4	50	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	127	122	4		30-150
Decachlorobiphenyl	151	152	1		30-150

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0502002

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-06,08 (WG195659-3)							
Total Metals				1	3051		
Aluminum, Total	ND	mg/kg	4.0	1	6010B	0303 20:00	0304 09:55 RW
Antimony, Total	ND	mg/kg	2.0	1	6010B	0303 20:00	0304 09:55 RW
Arsenic, Total	ND	mg/kg	0.40	1	6010B	0303 20:00	0304 09:55 RW
Barium, Total	ND	mg/kg	0.40	1	6010B	0303 20:00	0304 09:55 RW
Beryllium, Total	ND	mg/kg	0.1000	1	6010B	0303 20:00	0304 09:55 RW
Cadmium, Total	ND	mg/kg	0.1000	1	6010B	0303 20:00	0304 09:55 RW
Calcium, Total	ND	mg/kg	4.0	1	6010B	0303 20:00	0304 09:55 RW
Chromium, Total	ND	mg/kg	0.40	1	6010B	0303 20:00	0304 09:55 RW
Cobalt, Total	ND	mg/kg	0.80	1	6010B	0303 20:00	0304 09:55 RW
Copper, Total	ND	mg/kg	0.40	1	6010B	0303 20:00	0304 09:55 RW
Iron, Total	ND	mg/kg	2.0	1	6010B	0303 20:00	0304 09:55 RW
Lead, Total	ND	mg/kg	2.0	1	6010B	0303 20:00	0304 09:55 RW
Magnesium, Total	ND	mg/kg	4.0	1	6010B	0303 20:00	0304 09:55 RW
Manganese, Total	ND	mg/kg	0.40	1	6010B	0303 20:00	0304 09:55 RW
Nickel, Total	ND	mg/kg	0.40	1	6010B	0303 20:00	0304 09:55 RW
Potassium, Total	ND	mg/kg	100	1	6010B	0303 20:00	0304 09:55 RW
Selenium, Total	ND	mg/kg	0.200	1	6010B	0303 20:00	0304 09:55 RW
Silver, Total	ND	mg/kg	0.40	1	6010B	0303 20:00	0304 09:55 RW
Sodium, Total	ND	mg/kg	80.	1	6010B	0303 20:00	0304 09:55 RW
Thallium, Total	ND	mg/kg	0.40	1	6010B	0303 20:00	0304 09:55 RW
Vanadium, Total	ND	mg/kg	0.40	1	6010B	0303 20:00	0304 09:55 RW
Zinc, Total	ND	mg/kg	2.0	1	6010B	0303 20:00	0304 09:55 RW
Blank Analysis for sample(s) 09 (WG195405-4)							
Total Metals							
Mercury, Total	ND	mg/l	0.0002	1	7470A	0301 17:45	0302 12:18 DM
Blank Analysis for sample(s) 02-06,08 (WG195548-4)							
Total Metals							
Mercury, Total	ND	mg/kg	0.08	1	7471A	0302 18:20	0303 10:20 DM
Blank Analysis for sample(s) 09-10 (WG195265-8)							
Volatile Organics by GC/MS 8260				1	8260B		0301 14:51 BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 09-10 (WG195265-8)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0301	14:51 BT
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 09-10 (WG195265-8)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0301	14:51 BT
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	124.	%					
Toluene-d8	102.	%					
4-Bromofluorobenzene	115.	%					
Dibromofluoromethane	110.	%					
Blank Analysis for sample(s) 01,03-04 (WG195363-10)							
Volatile Organics by GC/MS 8260				1	8260B	0301	09:40 BT
Methylene chloride	ND	ug/kg	25.				
1,1-Dichloroethane	ND	ug/kg	3.8				
Chloroform	ND	ug/kg	3.8				
Carbon tetrachloride	ND	ug/kg	2.5				
1,2-Dichloropropane	ND	ug/kg	8.8				
Dibromochloromethane	ND	ug/kg	2.5				
1,1,2-Trichloroethane	ND	ug/kg	3.8				
Tetrachloroethene	ND	ug/kg	2.5				
Chlorobenzene	ND	ug/kg	2.5				
Trichlorofluoromethane	ND	ug/kg	12.				
1,2-Dichloroethane	ND	ug/kg	2.5				
1,1,1-Trichloroethane	ND	ug/kg	2.5				
Bromodichloromethane	ND	ug/kg	2.5				
trans-1,3-Dichloropropene	ND	ug/kg	2.5				
cis-1,3-Dichloropropene	ND	ug/kg	2.5				
1,1-Dichloropropene	ND	ug/kg	12.				
Bromoform	ND	ug/kg	10.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.5				
Benzene	ND	ug/kg	2.5				

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					PREP	ANAL	
Blank Analysis for sample(s) 01,03-04 (WG195363-10)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0301 09:40 BT	
Toluene	ND	ug/kg	3.8				
Ethylbenzene	ND	ug/kg	2.5				
Chloromethane	ND	ug/kg	12.				
Bromomethane	ND	ug/kg	5.0				
Vinyl chloride	ND	ug/kg	5.0				
Chloroethane	ND	ug/kg	5.0				
1,1-Dichloroethene	ND	ug/kg	2.5				
trans-1,2-Dichloroethene	ND	ug/kg	3.8				
Trichloroethene	ND	ug/kg	2.5				
1,2-Dichlorobenzene	ND	ug/kg	12.				
1,3-Dichlorobenzene	ND	ug/kg	12.				
1,4-Dichlorobenzene	ND	ug/kg	12.				
Methyl tert butyl ether	ND	ug/kg	5.0				
p/m-Xylene	ND	ug/kg	2.5				
o-Xylene	ND	ug/kg	2.5				
cis-1,2-Dichloroethene	ND	ug/kg	2.5				
Dibromomethane	ND	ug/kg	25.				
1,4-Dichlorobutane	ND	ug/kg	25.				
Iodomethane	ND	ug/kg	25.				
1,2,3-Trichloropropane	ND	ug/kg	25.				
Styrene	ND	ug/kg	2.5				
Dichlorodifluoromethane	ND	ug/kg	25.				
Acetone	ND	ug/kg	25.				
Carbon disulfide	ND	ug/kg	25.				
2-Butanone	ND	ug/kg	25.				
Vinyl acetate	ND	ug/kg	25.				
4-Methyl-2-pentanone	ND	ug/kg	25.				
2-Hexanone	ND	ug/kg	25.				
Ethyl methacrylate	ND	ug/kg	25.				
Acrolein	ND	ug/kg	62.				
Acrylonitrile	ND	ug/kg	25.				
Bromochloromethane	ND	ug/kg	12.				
Tetrahydrofuran	ND	ug/kg	50.				
2,2-Dichloropropane	ND	ug/kg	12.				
1,2-Dibromoethane	ND	ug/kg	10.				
1,3-Dichloropropane	ND	ug/kg	12.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.5				
Bromobenzene	ND	ug/kg	12.				
n-Butylbenzene	ND	ug/kg	2.5				
sec-Butylbenzene	ND	ug/kg	2.5				
tert-Butylbenzene	ND	ug/kg	12.				
o-Chlorotoluene	ND	ug/kg	12.				
p-Chlorotoluene	ND	ug/kg	12.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.				
Hexachlorobutadiene	ND	ug/kg	12.				
Isopropylbenzene	ND	ug/kg	2.5				



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					PREP	ANAL	
Blank Analysis for sample(s) 01,03-04 (WG195363-10)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0301 09:40 BT	
p-Isopropyltoluene	ND	ug/kg	2.5				
Naphthalene	ND	ug/kg	12.				
n-Propylbenzene	ND	ug/kg	2.5				
1,2,3-Trichlorobenzene	ND	ug/kg	12.				
1,2,4-Trichlorobenzene	ND	ug/kg	12.				
1,3,5-Trimethylbenzene	ND	ug/kg	12.				
1,2,4-Trimethylbenzene	ND	ug/kg	12.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	12.				
Ethyl ether	ND	ug/kg	12.				
Surrogate(s)		Recovery		QC Criteria			
1,2-Dichloroethane-d4	100.	%					
Toluene-d8	97.0	%					
4-Bromofluorobenzene	118.	%					
Dibromofluoromethane	88.0	%					
Blank Analysis for sample(s) 05-08 (WG195684-4)							
Volatile Organics by GC/MS 8260				1	8260B	0303 10:30 BT	
Methylene chloride	ND	ug/kg	25.				
1,1-Dichloroethane	ND	ug/kg	3.8				
Chloroform	ND	ug/kg	3.8				
Carbon tetrachloride	ND	ug/kg	2.5				
1,2-Dichloropropane	ND	ug/kg	8.8				
Dibromochloromethane	ND	ug/kg	2.5				
1,1,2-Trichloroethane	ND	ug/kg	3.8				
Tetrachloroethene	ND	ug/kg	2.5				
Chlorobenzene	ND	ug/kg	2.5				
Trichlorofluoromethane	ND	ug/kg	12.				
1,2-Dichloroethane	ND	ug/kg	2.5				
1,1,1-Trichloroethane	ND	ug/kg	2.5				
Bromodichloromethane	ND	ug/kg	2.5				
trans-1,3-Dichloropropene	ND	ug/kg	2.5				
cis-1,3-Dichloropropene	ND	ug/kg	2.5				
1,1-Dichloropropene	ND	ug/kg	12.				
Bromoform	ND	ug/kg	10.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.5				
Benzene	ND	ug/kg	2.5				
Toluene	ND	ug/kg	3.8				
Ethylbenzene	ND	ug/kg	2.5				
Chloromethane	ND	ug/kg	12.				
Bromomethane	ND	ug/kg	5.0				
Vinyl chloride	ND	ug/kg	5.0				
Chloroethane	ND	ug/kg	5.0				
1,1-Dichloroethene	ND	ug/kg	2.5				
trans-1,2-Dichloroethene	ND	ug/kg	3.8				
Trichloroethene	ND	ug/kg	2.5				

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					PREP	ANAL	
Blank Analysis for sample(s) 05-08 (WG195684-4)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0303	10:30 BT
1,2-Dichlorobenzene	ND	ug/kg	12.				
1,3-Dichlorobenzene	ND	ug/kg	12.				
1,4-Dichlorobenzene	ND	ug/kg	12.				
Methyl tert butyl ether	ND	ug/kg	5.0				
p/m-Xylene	ND	ug/kg	2.5				
o-Xylene	ND	ug/kg	2.5				
cis-1,2-Dichloroethene	ND	ug/kg	2.5				
Dibromomethane	ND	ug/kg	25.				
1,4-Dichlorobutane	ND	ug/kg	25.				
Iodomethane	ND	ug/kg	25.				
1,2,3-Trichloropropane	ND	ug/kg	25.				
Styrene	ND	ug/kg	2.5				
Dichlorodifluoromethane	ND	ug/kg	25.				
Acetone	ND	ug/kg	25.				
Carbon disulfide	ND	ug/kg	25.				
2-Butanone	ND	ug/kg	25.				
Vinyl acetate	ND	ug/kg	25.				
4-Methyl-2-pentanone	ND	ug/kg	25.				
2-Hexanone	ND	ug/kg	25.				
Ethyl methacrylate	ND	ug/kg	25.				
Acrolein	ND	ug/kg	62.				
Acrylonitrile	ND	ug/kg	25.				
Bromochloromethane	ND	ug/kg	12.				
Tetrahydrofuran	ND	ug/kg	50.				
2,2-Dichloropropane	ND	ug/kg	12.				
1,2-Dibromoethane	ND	ug/kg	10.				
1,3-Dichloropropane	ND	ug/kg	12.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.5				
Bromobenzene	ND	ug/kg	12.				
n-Butylbenzene	ND	ug/kg	2.5				
sec-Butylbenzene	ND	ug/kg	2.5				
tert-Butylbenzene	ND	ug/kg	12.				
o-Chlorotoluene	ND	ug/kg	12.				
p-Chlorotoluene	ND	ug/kg	12.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.				
Hexachlorobutadiene	ND	ug/kg	12.				
Isopropylbenzene	ND	ug/kg	2.5				
p-Isopropyltoluene	ND	ug/kg	2.5				
Naphthalene	ND	ug/kg	12.				
n-Propylbenzene	ND	ug/kg	2.5				
1,2,3-Trichlorobenzene	ND	ug/kg	12.				
1,2,4-Trichlorobenzene	ND	ug/kg	12.				
1,3,5-Trimethylbenzene	ND	ug/kg	12.				
1,2,4-Trimethylbenzene	ND	ug/kg	12.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	12.				
Ethyl ether	ND	ug/kg	12.				

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					PREP	ANAL	
Blank Analysis for sample(s) 05-08 (WG195684-4)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0303	10:30 BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	101.	%					
Toluene-d8	94.0	%					
4-Bromofluorobenzene	115.	%					
Dibromofluoromethane	87.0	%					
Blank Analysis for sample(s) 09 (WG195374-1)							
SVOC's by GC/MS 8270				1	8270C	0301 12:35	0302 17:11 HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				

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					PREP	ANAL	
Blank Analysis for sample(s) 09 (WG195374-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0301 12:35	0302 17:11	HL
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				

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Blank Analysis for sample(s) 09 (WG195374-1)

SVOC's by GC/MS 8270 continued	1	8270C		0301 12:35	0302 17:11	HL
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2,4-Dinitrophenol	ND	ug/l	20.			
4,6-Dinitro-o-cresol	ND	ug/l	20.			
Pentachlorophenol	ND	ug/l	20.			
Phenol	ND	ug/l	7.0			
2-Methylphenol	ND	ug/l	6.0			
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0			
2,4,5-Trichlorophenol	ND	ug/l	5.0			
2,6-Dichlorophenol	ND	ug/l	10.			
Benzoic Acid	ND	ug/l	50.			
Benzyl Alcohol	ND	ug/l	10.			
Carbazole	ND	ug/l	5.0			
Pyridine	ND	ug/l	50.			
2-Picoline	ND	ug/l	20.			
Pronamide	ND	ug/l	20.			
Methyl methanesulfonate	ND	ug/l	20.			

Surrogate(s)	Recovery	QC Criteria
2-Fluorophenol	42.0 %	
Phenol-d6	34.0 %	
Nitrobenzene-d5	84.0 %	
2-Fluorobiphenyl	70.0 %	
2,4,6-Tribromophenol	73.0 %	
4-Terphenyl-d14	111. %	

Blank Analysis for sample(s) 02-06,08 (WG195440-1)

SVOC's by GC/MS 8270	1	8270C		0301 20:10	0302 15:05	HL
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Acenaphthene	ND	ug/kg	170			
Benzidine	ND	ug/kg	1700			
1,2,4-Trichlorobenzene	ND	ug/kg	170			
Hexachlorobenzene	ND	ug/kg	170			
Bis(2-chloroethyl)ether	ND	ug/kg	170			
1-Chloronaphthalene	ND	ug/kg	170			
2-Chloronaphthalene	ND	ug/kg	200			
1,2-Dichlorobenzene	ND	ug/kg	170			
1,3-Dichlorobenzene	ND	ug/kg	170			
1,4-Dichlorobenzene	ND	ug/kg	170			
3,3'-Dichlorobenzidine	ND	ug/kg	1700			
2,4-Dinitrotoluene	ND	ug/kg	200			
2,6-Dinitrotoluene	ND	ug/kg	170			
Azobenzene	ND	ug/kg	170			
Fluoranthene	ND	ug/kg	170			
4-Chlorophenyl phenyl ether	ND	ug/kg	170			
4-Bromophenyl phenyl ether	ND	ug/kg	170			
Bis(2-chloroisopropyl)ether	ND	ug/kg	170			
Bis(2-chloroethoxy)methane	ND	ug/kg	170			
Hexachlorobutadiene	ND	ug/kg	330			

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502002

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-06,08 (WG195440-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0301 20:10	0302 15:05	HL
Hexachlorocyclopentadiene	ND	ug/kg	330				
Hexachloroethane	ND	ug/kg	170				
Isophorone	ND	ug/kg	170				
Naphthalene	ND	ug/kg	170				
Nitrobenzene	ND	ug/kg	170				
NDPA/DPA	ND	ug/kg	500				
n-Nitrosodi-n-propylamine	ND	ug/kg	170				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	330				
Butyl benzyl phthalate	ND	ug/kg	170				
Di-n-butylphthalate	ND	ug/kg	170				
Di-n-octylphthalate	ND	ug/kg	170				
Diethyl phthalate	ND	ug/kg	170				
Dimethyl phthalate	ND	ug/kg	170				
Benzo(a)anthracene	ND	ug/kg	170				
Benzo(a)pyrene	ND	ug/kg	170				
Benzo(b)fluoranthene	ND	ug/kg	170				
Benzo(k)fluoranthene	ND	ug/kg	170				
Chrysene	ND	ug/kg	170				
Acenaphthylene	ND	ug/kg	170				
Anthracene	ND	ug/kg	170				
Benzo(ghi)perylene	ND	ug/kg	170				
Fluorene	ND	ug/kg	170				
Phenanthrene	ND	ug/kg	170				
Dibenzo(a,h)anthracene	ND	ug/kg	170				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	170				
Pyrene	ND	ug/kg	170				
Benzo(e)pyrene	ND	ug/kg	170				
Biphenyl	ND	ug/kg	170				
Perylene	ND	ug/kg	170				
Aniline	ND	ug/kg	330				
4-Chloroaniline	ND	ug/kg	170				
1-Methylnaphthalene	ND	ug/kg	170				
2-Nitroaniline	ND	ug/kg	170				
3-Nitroaniline	ND	ug/kg	170				
4-Nitroaniline	ND	ug/kg	230				
Dibenzofuran	ND	ug/kg	170				
a,a-Dimethylphenethylamine	ND	ug/kg	1700				
Hexachloropropene	ND	ug/kg	330				
Nitrosodi-n-butylamine	ND	ug/kg	330				
2-Methylnaphthalene	ND	ug/kg	270				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	670				
Pentachlorobenzene	ND	ug/kg	670				
a-Naphthylamine	ND	ug/kg	670				
b-Naphthylamine	ND	ug/kg	670				
Phenacetin	ND	ug/kg	330				
Dimethoate	ND	ug/kg	670				

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0502002

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-06,08 (WG195440-1)							
SVOC's by GC/MS 8270 continued				1	8270C	0301 20:10	0302 15:05 HL
4-Aminobiphenyl	ND	ug/kg	330				
Pentachloronitrobenzene	ND	ug/kg	330				
Isodrin	ND	ug/kg	330				
p-Dimethylaminoazobenzene	ND	ug/kg	330				
Chlorobenzilate	ND	ug/kg	670				
3-Methylcholanthrene	ND	ug/kg	670				
Ethyl Methanesulfonate	ND	ug/kg	500				
Acetophenone	ND	ug/kg	670				
Nitrosodipiperidine	ND	ug/kg	670				
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	330				
n-Nitrosodimethylamine	ND	ug/kg	1700				
2,4,6-Trichlorophenol	ND	ug/kg	170				
p-Chloro-m-cresol	ND	ug/kg	170				
2-Chlorophenol	ND	ug/kg	200				
2,4-Dichlorophenol	ND	ug/kg	330				
2,4-Dimethylphenol	ND	ug/kg	330				
2-Nitrophenol	ND	ug/kg	670				
4-Nitrophenol	ND	ug/kg	330				
2,4-Dinitrophenol	ND	ug/kg	670				
4,6-Dinitro-o-cresol	ND	ug/kg	670				
Pentachlorophenol	ND	ug/kg	670				
Phenol	ND	ug/kg	230				
2-Methylphenol	ND	ug/kg	200				
3-Methylphenol/4-Methylphenol	ND	ug/kg	200				
2,4,5-Trichlorophenol	ND	ug/kg	170				
2,6-Dichlorophenol	ND	ug/kg	330				
Benzoic Acid	ND	ug/kg	1700				
Benzyl Alcohol	ND	ug/kg	330				
Carbazole	ND	ug/kg	170				
Pyridine	ND	ug/kg	1700				
2-Picoline	ND	ug/kg	670				
Pronamide	ND	ug/kg	670				
Methyl methanesulfonate	ND	ug/kg	670				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	86.0	%	25-120				
Phenol-d6	104.	%	10-120				
Nitrobenzene-d5	106.	%	23-120				
2-Fluorobiphenyl	91.0	%	30-120				
2,4,6-Tribromophenol	74.0	%	19-120				
4-Terphenyl-d14	118.	%	18-120				
Blank Analysis for sample(s) 09 (WG195375-1)							
PAH by GC/MS SIM 8270M				1	8270C-M	0301 12:35	0303 19:05 RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502002

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 09 (WG195375-1)							
PAH by GC/MS SIM 8270M continued				1	8270C-M	0301 12:35	0303 19:05 RL
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	46.0	%		21-120			
Phenol-d6	37.0	%		10-120			
Nitrobenzene-d5	73.0	%		23-120			
2-Fluorobiphenyl	65.0	%		43-120			
2,4,6-Tribromophenol	84.0	%		10-120			
4-Terphenyl-d14	84.0	%		33-120			
Blank Analysis for sample(s) 02-06,08 (WG195443-1)							
PAH by GC/MS SIM 8270M				1	8270C-M	0301 20:10	0302 17:49 RL
Acenaphthene	ND	ug/kg	6.7				
2-Chloronaphthalene	ND	ug/kg	6.7				
Fluoranthene	ND	ug/kg	6.7				
Hexachlorobutadiene	ND	ug/kg	17.				
Naphthalene	ND	ug/kg	6.7				
Benzo(a)anthracene	ND	ug/kg	6.7				
Benzo(a)pyrene	ND	ug/kg	6.7				
Benzo(b)fluoranthene	ND	ug/kg	6.7				
Benzo(k)fluoranthene	ND	ug/kg	6.7				



**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0502002

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-06,08 (WG195443-1)							
PAH by GC/MS SIM 8270M continued				1	8270C-M	0301 20:10	0302 17:49 RL
Chrysene	ND	ug/kg	6.7				
Acenaphthylene	ND	ug/kg	6.7				
Anthracene	ND	ug/kg	6.7				
Benzo(ghi)perylene	ND	ug/kg	6.7				
Fluorene	ND	ug/kg	6.7				
Phenanthrene	ND	ug/kg	6.7				
Dibenzo(a,h)anthracene	ND	ug/kg	6.7				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	6.7				
Pyrene	ND	ug/kg	6.7				
1-Methylnaphthalene	ND	ug/kg	6.7				
2-Methylnaphthalene	ND	ug/kg	6.7				
Pentachlorophenol	ND	ug/kg	27.				
Hexachlorobenzene	ND	ug/kg	27.				
Perylene	ND	ug/kg	6.7				
Biphenyl	ND	ug/kg	6.7				
2,6-Dimethylnaphthalene	ND	ug/kg	6.7				
1-Methylphenanthrene	ND	ug/kg	6.7				
Benzo(e)Pyrene	ND	ug/kg	6.7				
Hexachloroethane	ND	ug/kg	27.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	79.0	%	25-120				
Phenol-d6	103.	%	10-120				
Nitrobenzene-d5	86.0	%	23-120				
2-Fluorobiphenyl	78.0	%	30-120				
2,4,6-Tribromophenol	80.0	%	19-120				
4-Terphenyl-d14	88.0	%	18-120				
Blank Analysis for sample(s) 02-06,08 (WG195395-1)							
Polychlorinated Biphenyls				1	8082	0301 16:00	0302 15:20 BW
Aroclor 1221	ND	ug/kg	33.3				
Aroclor 1232	ND	ug/kg	33.3				
Aroclor 1242/1016	ND	ug/kg	33.3				
Aroclor 1248	ND	ug/kg	33.3				
Aroclor 1254	ND	ug/kg	33.3				
Aroclor 1260	ND	ug/kg	33.3				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	77.0	%	30-150				
Decachlorobiphenyl	106.	%	30-150				
Blank Analysis for sample(s) 09 (WG195425-1)							
Polychlorinated Biphenyls				1	8082	0301 16:15	0302 12:00 BW
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0502002

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP      ANAL	ID
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Blank Analysis for sample(s) 09 (WG195425-1)

Polychlorinated Biphenyls continued				1 8082	0301 16:15 0302 12:00	BW
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Aroclor 1248	ND	ug/l	0.500			
Aroclor 1254	ND	ug/l	0.500			
Aroclor 1260	ND	ug/l	0.500			

Surrogate(s)	Recovery			QC Criteria		
2,4,5,6-Tetrachloro-m-xylene	79.0	%		30-150		
Decachlorobiphenyl	107.	%		30-150		

Blank Analysis for sample(s) 09 (WG195377-1)

Organochlorine Pesticides				1 8081	0301 12:35 0302 13:19	BW
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Delta-BHC	ND	ug/l	0.020			
Lindane	ND	ug/l	0.020			
Alpha-BHC	ND	ug/l	0.020			
Beta-BHC	ND	ug/l	0.020			
Heptachlor	ND	ug/l	0.020			
Aldrin	ND	ug/l	0.020			
Heptachlor epoxide	ND	ug/l	0.020			
Endrin	ND	ug/l	0.040			
Endrin aldehyde	ND	ug/l	0.040			
Endrin ketone	ND	ug/l	0.040			
Dieldrin	ND	ug/l	0.040			
4,4'-DDE	ND	ug/l	0.040			
4,4'-DDD	ND	ug/l	0.040			
4,4'-DDT	ND	ug/l	0.040			
Endosulfan I	ND	ug/l	0.020			
Endosulfan II	ND	ug/l	0.040			
Endosulfan sulfate	ND	ug/l	0.040			
Methoxychlor	ND	ug/l	0.200			
Toxaphene	ND	ug/l	0.200			
Chlordane	ND	ug/l	0.200			
cis-Chlordane	ND	ug/l	0.020			
trans-Chlordane	ND	ug/l	0.020			

Surrogate(s)	Recovery			QC Criteria		
2,4,5,6-Tetrachloro-m-xylene	68.0	%		30-150		
Decachlorobiphenyl	60.0	%		30-150		

Blank Analysis for sample(s) 02-06,08 (WG195397-1)

Organochlorine Pesticides				1 8081	0301 14:30 0302 15:07	JB
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Delta-BHC	ND	ug/kg	3.33			
Lindane	ND	ug/kg	3.33			
Alpha-BHC	ND	ug/kg	3.33			
Beta-BHC	ND	ug/kg	3.33			
Heptachlor	ND	ug/kg	3.33			
Aldrin	ND	ug/kg	3.33			
Heptachlor epoxide	ND	ug/kg	3.33			

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502002

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-06,08 (WG195397-1)							
Organochlorine Pesticides continued				1 8081	0301 14:30	0302 15:07	JB
Endrin	ND	ug/kg	3.33				
Endrin aldehyde	ND	ug/kg	3.33				
Endrin ketone	ND	ug/kg	3.33				
Dieldrin	ND	ug/kg	3.33				
4,4'-DDE	ND	ug/kg	3.33				
4,4'-DDD	ND	ug/kg	3.33				
4,4'-DDT	ND	ug/kg	3.33				
Endosulfan I	ND	ug/kg	3.33				
Endosulfan II	ND	ug/kg	3.33				
Endosulfan sulfate	ND	ug/kg	3.33				
Methoxychlor	ND	ug/kg	3.33				
Toxaphene	ND	ug/kg	13.3				
Chlordane	ND	ug/kg	13.3				
cis-Chlordane	ND	ug/kg	3.33				
trans-Chlordane	ND	ug/kg	3.33				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	76.0	%	30-150				
Decachlorobiphenyl	84.0	%	30-150				

**ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.  
METHOD Method number by which analysis was performed.  
ID Initials of the analyst.  
ND Not detected in comparison to the reported detection limit.  
NI Not Ignitable.  
ug/cart Micrograms per Cartridge.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. 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, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. 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, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: AKRF, Inc. Laboratory Job Number: L0502261  
Address: 440 Park Avenue South  
New York, NY 10016 Date Received: 05-MAR-2005  
Attn: Mr. Axel Schwendt Date Reported: 14-MAR-2005  
Project Number: 10470-0213 Delivery Method: Fed Ex  
Site: COLUMBIA

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0502261-01	CB-15 (2'-4')	HARLEM, NY
L0502261-02	CB-15 (14'-16')	HARLEM, NY
L0502261-03	MW/CB-16 (4'-6')	HARLEM, NY
L0502261-04	MW/CB-16 (10'-12')	HARLEM, NY
L0502261-05	MW/CB-17 (1'-2')	HARLEM, NY
L0502261-06	MW/CB-17 (2'-4')	HARLEM, NY
L0502261-07	MW/CB-18 (4'-6')	HARLEM, NY
L0502261-08	MW/CB-19 (1'-2')	HARLEM, NY
L0502261-09	MW/CB-19 (8'-10')	HARLEM, NY
L0502261-10	MW/CB-20 (1'-2')	HARLEM, NY
L0502261-11	MW/CB-20 (18'-20')	HARLEM, NY
L0502261-12	MW/CB-21 (16'-18')	HARLEM, NY
L0502261-13	MW/CB-22 (12'-14')	HARLEM, NY
L0502261-14	FIELD BLANK	HARLEM, NY
L0502261-15	TRIP BLANK	HARLEM, NY

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

---

Authorized by: James Todaro  
This document electronically signed

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0502261

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Report Submission

The samples were received in the laboratory at a temperature of 9 degrees Celsius.

The VOC container for CB-15 was received in the laboratory broken.

PAH-LOW

L0502261-01 and -09 has elevated limits of detection due to the 10x dilutions required by the elevated concentrations of target compounds in the sample.

Volatile Organics

L0502261-03 has a low surrogate % recovery for Dibromofluoromethane. This is due to a matrix effect (concrete dust in soil).

L0502261-09 has elevated limits of detection due to the 8x dilutions required by the elevated concentrations of non-target compounds in the sample.

Semi-Volatile Organics by Method 8270C

The wg195910 LCS has a low % recovery for 2,4-Dinitrophenol.

Pesticides

L0502261-01 has elevated limits of detection due to the 20x dilutions required by the elevated concentrations of target compounds in the sample. The Surrogate % Recoveries were not recovered due to the dilutions required to quantitate the samples.

Metals

L0502261-01 Sample was diluted 5X for the analysis of Ca . The dilution was necessary to quantitate the sample within the calibration curve.

L0502261-06 Sample was diluted 5X for the analysis of Cd and Se. The dilution was necessary because of spectral interferences encountered during the analysis. The Sample was also diluted 5X for the analysis of Ca . The dilution was necessary to quantitate the sample within the calibration curve.

The wg195938-2 MS % recoveries for Al, Fe, and Mn are invalid because the sample concentrations are greater than four times the spike amount added.

The wg195938-2 MS % recoveries for Ca, Cr, and Mg are outside the acceptance criteria for the method. A post analytical spike was performed with acceptable % recoveries of 101% for Cr, 90% for Ca, and 114% for Mg.

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-01		Date Collected: 28-FEB-2005 08:05
	CB-15 (2'-4')	Date Received : 05-MAR-2005
Sample Matrix: SOIL		Date Reported : 14-MAR-2005
Condition of Sample: Satisfactory		Field Prep: None
Number & Type of Containers: 2-Amber		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	87.	%	0.10	30 2540G		0307 21:06	HG
Total Metals				1 3051			
Aluminum, Total	4800	mg/kg	4.6	1 6010B	0308 15:00	0309 07:11	RW
Antimony, Total	ND	mg/kg	2.3	1 6010B	0308 15:00	0309 07:11	RW
Arsenic, Total	4.2	mg/kg	0.46	1 6010B	0308 15:00	0309 07:11	RW
Barium, Total	130	mg/kg	0.46	1 6010B	0308 15:00	0309 07:11	RW
Beryllium, Total	ND	mg/kg	0.1142	1 6010B	0308 15:00	0309 07:11	RW
Cadmium, Total	0.3298	mg/kg	0.1142	1 6010B	0308 15:00	0309 07:11	RW
Calcium, Total	49000	mg/kg	23.	1 6010B	0308 15:00	0309 10:10	RW
Chromium, Total	9.5	mg/kg	0.46	1 6010B	0308 15:00	0309 07:11	RW
Cobalt, Total	3.2	mg/kg	0.91	1 6010B	0308 15:00	0309 07:11	RW
Copper, Total	71.	mg/kg	0.46	1 6010B	0308 15:00	0309 07:11	RW
Iron, Total	7700	mg/kg	2.3	1 6010B	0308 15:00	0309 07:11	RW
Lead, Total	210	mg/kg	2.3	1 6010B	0308 15:00	0309 07:11	RW
Magnesium, Total	7900	mg/kg	4.6	1 6010B	0308 15:00	0309 07:11	RW
Manganese, Total	200	mg/kg	0.46	1 6010B	0308 15:00	0309 07:11	RW
Mercury, Total	0.38	mg/kg	0.09	1 7471A	0309 20:15	0310 12:09	DM
Nickel, Total	9.0	mg/kg	0.46	1 6010B	0308 15:00	0309 07:11	RW
Potassium, Total	1000	mg/kg	110	1 6010B	0308 15:00	0309 07:11	RW
Selenium, Total	ND	mg/kg	0.228	1 6010B	0308 15:00	0309 07:11	RW
Silver, Total	ND	mg/kg	0.46	1 6010B	0308 15:00	0309 07:11	RW
Sodium, Total	660	mg/kg	91.	1 6010B	0308 15:00	0309 07:11	RW
Thallium, Total	ND	mg/kg	0.46	1 6010B	0308 15:00	0309 07:11	RW
Vanadium, Total	8.3	mg/kg	0.46	1 6010B	0308 15:00	0309 07:11	RW
Zinc, Total	160	mg/kg	2.3	1 6010B	0308 15:00	0309 07:11	RW
Volatile Organics by GC/MS 8260				1 8260B		0309 10:06	BT
Methylene chloride	ND	ug/kg	29.				
1,1-Dichloroethane	ND	ug/kg	4.3				
Chloroform	ND	ug/kg	4.3				
Carbon tetrachloride	ND	ug/kg	2.9				
1,2-Dichloropropane	ND	ug/kg	10.				
Dibromochloromethane	ND	ug/kg	2.9				
1,1,2-Trichloroethane	ND	ug/kg	4.3				
Tetrachloroethene	ND	ug/kg	2.9				
Chlorobenzene	ND	ug/kg	2.9				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-01  
 CB-15 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 10:06		BT
1,2-Dichloroethane	ND	ug/kg	2.9				
1,1,1-Trichloroethane	ND	ug/kg	2.9				
Bromodichloromethane	ND	ug/kg	2.9				
trans-1,3-Dichloropropene	ND	ug/kg	2.9				
cis-1,3-Dichloropropene	ND	ug/kg	2.9				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	12.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.9				
Benzene	ND	ug/kg	2.9				
Toluene	ND	ug/kg	4.3				
Ethylbenzene	ND	ug/kg	2.9				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.8				
Vinyl chloride	ND	ug/kg	5.8				
Chloroethane	ND	ug/kg	5.8				
1,1-Dichloroethene	ND	ug/kg	2.9				
trans-1,2-Dichloroethene	ND	ug/kg	4.3				
Trichloroethene	ND	ug/kg	2.9				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.8				
p/m-Xylene	ND	ug/kg	2.9				
o-Xylene	ND	ug/kg	2.9				
cis-1,2-Dichloroethene	ND	ug/kg	2.9				
Dibromomethane	ND	ug/kg	29.				
1,4-Dichlorobutane	ND	ug/kg	29.				
Iodomethane	ND	ug/kg	29.				
1,2,3-Trichloropropane	ND	ug/kg	29.				
Styrene	ND	ug/kg	2.9				
Dichlorodifluoromethane	ND	ug/kg	29.				
Acetone	ND	ug/kg	29.				
Carbon disulfide	ND	ug/kg	29.				
2-Butanone	ND	ug/kg	29.				
Vinyl acetate	ND	ug/kg	29.				
4-Methyl-2-pentanone	ND	ug/kg	29.				
2-Hexanone	ND	ug/kg	29.				
Ethyl methacrylate	ND	ug/kg	29.				
Acrolein	ND	ug/kg	72.				
Acrylonitrile	ND	ug/kg	29.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	58.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	12.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.9				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.9				
sec-Butylbenzene	ND	ug/kg	2.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-01  
CB-15 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0309	10:06 BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.9				
p-Isopropyltoluene	ND	ug/kg	2.9				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.9				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	122.	%					
Dibromofluoromethane	95.0	%					
SVOC's by GC/MS 8270				1	8270C	0308	11:15 0309 18:08 HL
Acenaphthene	ND	ug/kg	190				
Benzidine	ND	ug/kg	1900				
1,2,4-Trichlorobenzene	ND	ug/kg	190				
Hexachlorobenzene	ND	ug/kg	190				
Bis(2-chloroethyl)ether	ND	ug/kg	190				
1-Chloronaphthalene	ND	ug/kg	190				
2-Chloronaphthalene	ND	ug/kg	230				
1,2-Dichlorobenzene	ND	ug/kg	190				
1,3-Dichlorobenzene	ND	ug/kg	190				
1,4-Dichlorobenzene	ND	ug/kg	190				
3,3'-Dichlorobenzidine	ND	ug/kg	1900				
2,4-Dinitrotoluene	ND	ug/kg	230				
2,6-Dinitrotoluene	ND	ug/kg	190				
Azobenzene	ND	ug/kg	190				
Fluoranthene	970	ug/kg	190				
4-Chlorophenyl phenyl ether	ND	ug/kg	190				
4-Bromophenyl phenyl ether	ND	ug/kg	190				
Bis(2-chloroisopropyl)ether	ND	ug/kg	190				
Bis(2-chloroethoxy)methane	ND	ug/kg	190				
Hexachlorobutadiene	ND	ug/kg	380				
Hexachlorocyclopentadiene	ND	ug/kg	380				
Hexachloroethane	ND	ug/kg	190				
Isophorone	ND	ug/kg	190				
Naphthalene	ND	ug/kg	190				
Nitrobenzene	ND	ug/kg	190				
NDPA/DPA	ND	ug/kg	570				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-01  
 CB-15 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 18:08	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	190				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	380				
Butyl benzyl phthalate	ND	ug/kg	190				
Di-n-butylphthalate	ND	ug/kg	190				
Di-n-octylphthalate	ND	ug/kg	190				
Diethyl phthalate	ND	ug/kg	190				
Dimethyl phthalate	ND	ug/kg	190				
Benzo(a)anthracene	500	ug/kg	190				
Benzo(a)pyrene	510	ug/kg	190				
Benzo(b)fluoranthene	400	ug/kg	190				
Benzo(k)fluoranthene	470	ug/kg	190				
Chrysene	540	ug/kg	190				
Acenaphthylene	ND	ug/kg	190				
Anthracene	ND	ug/kg	190				
Benzo(ghi)perylene	370	ug/kg	190				
Fluorene	ND	ug/kg	190				
Phenanthrene	490	ug/kg	190				
Dibenzo(a,h)anthracene	ND	ug/kg	190				
Indeno(1,2,3-cd)pyrene	330	ug/kg	190				
Pyrene	900	ug/kg	190				
Benzo(e)pyrene	360	ug/kg	190				
Biphenyl	ND	ug/kg	190				
Perylene	ND	ug/kg	190				
Aniline	ND	ug/kg	380				
4-Chloroaniline	ND	ug/kg	190				
1-Methylnaphthalene	ND	ug/kg	190				
2-Nitroaniline	ND	ug/kg	190				
3-Nitroaniline	ND	ug/kg	190				
4-Nitroaniline	ND	ug/kg	270				
Dibenzofuran	ND	ug/kg	190				
a,a-Dimethylphenethylamine	ND	ug/kg	1900				
Hexachloropropene	ND	ug/kg	380				
Nitrosodi-n-butylamine	ND	ug/kg	380				
2-Methylnaphthalene	ND	ug/kg	310				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	770				
Pentachlorobenzene	ND	ug/kg	770				
a-Naphthylamine	ND	ug/kg	770				
b-Naphthylamine	ND	ug/kg	770				
Phenacetin	ND	ug/kg	380				
Dimethoate	ND	ug/kg	770				
4-Aminobiphenyl	ND	ug/kg	380				
Pentachloronitrobenzene	ND	ug/kg	380				
Isodrin	ND	ug/kg	380				
p-Dimethylaminoazobenzene	ND	ug/kg	380				
Chlorobenzilate	ND	ug/kg	770				
3-Methylcholanthrene	ND	ug/kg	770				
Ethyl Methanesulfonate	ND	ug/kg	570				
Acetophenone	ND	ug/kg	770				
Nitrosodipiperidine	ND	ug/kg	770				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-01  
 CB-15 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0308 11:15	0309 18:08 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	380				
n-Nitrosodimethylamine	ND	ug/kg	1900				
2,4,6-Trichlorophenol	ND	ug/kg	190				
p-Chloro-m-cresol	ND	ug/kg	190				
2-Chlorophenol	ND	ug/kg	230				
2,4-Dichlorophenol	ND	ug/kg	380				
2,4-Dimethylphenol	ND	ug/kg	380				
2-Nitrophenol	ND	ug/kg	770				
4-Nitrophenol	ND	ug/kg	380				
2,4-Dinitrophenol	ND	ug/kg	770				
4,6-Dinitro-o-cresol	ND	ug/kg	770				
Pentachlorophenol	ND	ug/kg	770				
Phenol	ND	ug/kg	270				
2-Methylphenol	ND	ug/kg	230				
3-Methylphenol/4-Methylphenol	ND	ug/kg	230				
2,4,5-Trichlorophenol	ND	ug/kg	190				
2,6-Dichlorophenol	ND	ug/kg	380				
Benzoic Acid	ND	ug/kg	1900				
Benzyl Alcohol	ND	ug/kg	380				
Carbazole	ND	ug/kg	190				
Pyridine	ND	ug/kg	1900				
2-Picoline	ND	ug/kg	770				
Pronamide	ND	ug/kg	770				
Methyl methanesulfonate	ND	ug/kg	770				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	62.0	%	25-120				
Phenol-d6	78.0	%	10-120				
Nitrobenzene-d5	63.0	%	23-120				
2-Fluorobiphenyl	75.0	%	30-120				
2,4,6-Tribromophenol	92.0	%	19-120				
4-Terphenyl-d14	90.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0308 11:15	0311 09:51 RL
Acenaphthene	ND	ug/kg	77.				
2-Chloronaphthalene	ND	ug/kg	77.				
Fluoranthene	1200	ug/kg	77.				
Hexachlorobutadiene	ND	ug/kg	190				
Naphthalene	ND	ug/kg	77.				
Benzo(a)anthracene	600	ug/kg	77.				
Benzo(a)pyrene	580	ug/kg	77.				
Benzo(b)fluoranthene	710	ug/kg	77.				
Benzo(k)fluoranthene	480	ug/kg	77.				
Chrysene	580	ug/kg	77.				
Acenaphthylene	98.	ug/kg	77.				
Anthracene	140	ug/kg	77.				
Benzo(ghi)perylene	410	ug/kg	77.				
Fluorene	ND	ug/kg	77.				
Phenanthrene	530	ug/kg	77.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-01  
 CB-15 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:15	0311 09:51 RL
Dibenzo(a,h)anthracene	79.	ug/kg	77.				
Indeno(1,2,3-cd)Pyrene	340	ug/kg	77.				
Pyrene	980	ug/kg	77.				
1-Methylnaphthalene	ND	ug/kg	77.				
2-Methylnaphthalene	ND	ug/kg	77.				
Pentachlorophenol	ND	ug/kg	310				
Hexachlorobenzene	ND	ug/kg	310				
Perylene	160	ug/kg	77.				
Biphenyl	ND	ug/kg	77.				
2,6-Dimethylnaphthalene	ND	ug/kg	77.				
1-Methylphenanthrene	100	ug/kg	77.				
Benzo(e)Pyrene	450	ug/kg	77.				
Hexachloroethane	ND	ug/kg	310				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	69.0	%	25-120				
Phenol-d6	91.0	%	10-120				
Nitrobenzene-d5	66.0	%	23-120				
2-Fluorobiphenyl	83.0	%	30-120				
2,4,6-Tribromophenol	103.	%	19-120				
4-Terphenyl-d14	88.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0308 12:15	0309 21:52 JB
Aroclor 1221	ND	ug/kg	38.3				
Aroclor 1232	ND	ug/kg	38.3				
Aroclor 1242/1016	ND	ug/kg	38.3				
Aroclor 1248	ND	ug/kg	38.3				
Aroclor 1254	ND	ug/kg	38.3				
Aroclor 1260	ND	ug/kg	38.3				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	86.0	%	30-150				
Decachlorobiphenyl	139.	%	30-150				
Organochlorine Pesticides				1	8081	0308 13:20	0310 18:12 BW
Delta-BHC	ND	ug/kg	76.6				
Lindane	ND	ug/kg	76.6				
Alpha-BHC	ND	ug/kg	76.6				
Beta-BHC	ND	ug/kg	76.6				
Heptachlor	ND	ug/kg	76.6				
Aldrin	ND	ug/kg	76.6				
Heptachlor epoxide	ND	ug/kg	76.6				
Endrin	ND	ug/kg	76.6				
Endrin aldehyde	ND	ug/kg	76.6				
Endrin ketone	ND	ug/kg	76.6				
Dieldrin	ND	ug/kg	76.6				
4,4'-DDE	95.9	ug/kg	76.6				
4,4'-DDD	ND	ug/kg	76.6				
4,4'-DDT	183.	ug/kg	76.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-01  
CB-15 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0308 13:20	0310 18:12	BW
Endosulfan I	ND	ug/kg	76.6				
Endosulfan II	ND	ug/kg	76.6				
Endosulfan sulfate	ND	ug/kg	76.6				
Methoxychlor	ND	ug/kg	76.6				
Toxaphene	ND	ug/kg	306.				
Chlordane	ND	ug/kg	306.				
cis-Chlordane	ND	ug/kg	76.6				
trans-Chlordane	ND	ug/kg	76.6				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	ND	%		30-150			
Decachlorobiphenyl	ND	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-02  
 CB-15 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 10:44		BT
1,2-Dichloroethane	ND	ug/kg	2.8				
1,1,1-Trichloroethane	ND	ug/kg	2.8				
Bromodichloromethane	ND	ug/kg	2.8				
trans-1,3-Dichloropropene	ND	ug/kg	2.8				
cis-1,3-Dichloropropene	ND	ug/kg	2.8				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8				
Benzene	ND	ug/kg	2.8				
Toluene	ND	ug/kg	4.2				
Ethylbenzene	ND	ug/kg	2.8				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.6				
Vinyl chloride	ND	ug/kg	5.6				
Chloroethane	ND	ug/kg	5.6				
1,1-Dichloroethene	ND	ug/kg	2.8				
trans-1,2-Dichloroethene	ND	ug/kg	4.2				
Trichloroethene	ND	ug/kg	2.8				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.6				
p/m-Xylene	ND	ug/kg	2.8				
o-Xylene	ND	ug/kg	2.8				
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				
1,4-Dichlorobutane	ND	ug/kg	28.				
Iodomethane	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
Styrene	ND	ug/kg	2.8				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Ethyl methacrylate	ND	ug/kg	28.				
Acrolein	ND	ug/kg	70.				
Acrylonitrile	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	56.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-02  
CB-15 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 10:44		BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	108.	%					
Toluene-d8	97.0	%					
4-Bromofluorobenzene	110.	%					
Dibromofluoromethane	99.0	%					
SVOC's by GC/MS 8270				1 8270C	0308 11:15 0309 17:42		HL
Acenaphthene	ND	ug/kg	190				
Benzidine	ND	ug/kg	1900				
1,2,4-Trichlorobenzene	ND	ug/kg	190				
Hexachlorobenzene	ND	ug/kg	190				
Bis(2-chloroethyl)ether	ND	ug/kg	190				
1-Chloronaphthalene	ND	ug/kg	190				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	190				
1,3-Dichlorobenzene	ND	ug/kg	190				
1,4-Dichlorobenzene	ND	ug/kg	190				
3,3'-Dichlorobenzidine	ND	ug/kg	1900				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	190				
Azobenzene	ND	ug/kg	190				
Fluoranthene	ND	ug/kg	190				
4-Chlorophenyl phenyl ether	ND	ug/kg	190				
4-Bromophenyl phenyl ether	ND	ug/kg	190				
Bis(2-chloroisopropyl)ether	ND	ug/kg	190				
Bis(2-chloroethoxy)methane	ND	ug/kg	190				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	190				
Isophorone	ND	ug/kg	190				
Naphthalene	ND	ug/kg	190				
Nitrobenzene	ND	ug/kg	190				
NDPA/DPA	ND	ug/kg	560				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-02  
 CB-15 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 17:42	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	190				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	ND	ug/kg	190				
Di-n-butylphthalate	ND	ug/kg	190				
Di-n-octylphthalate	ND	ug/kg	190				
Diethyl phthalate	ND	ug/kg	190				
Dimethyl phthalate	ND	ug/kg	190				
Benzo(a)anthracene	ND	ug/kg	190				
Benzo(a)pyrene	ND	ug/kg	190				
Benzo(b)fluoranthene	ND	ug/kg	190				
Benzo(k)fluoranthene	ND	ug/kg	190				
Chrysene	ND	ug/kg	190				
Acenaphthylene	ND	ug/kg	190				
Anthracene	ND	ug/kg	190				
Benzo(ghi)perylene	ND	ug/kg	190				
Fluorene	ND	ug/kg	190				
Phenanthrene	ND	ug/kg	190				
Dibenzo(a,h)anthracene	ND	ug/kg	190				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	190				
Pyrene	ND	ug/kg	190				
Benzo(e)pyrene	ND	ug/kg	190				
Biphenyl	ND	ug/kg	190				
Perylene	ND	ug/kg	190				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	190				
1-Methylnaphthalene	ND	ug/kg	190				
2-Nitroaniline	ND	ug/kg	190				
3-Nitroaniline	ND	ug/kg	190				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	190				
a,a-Dimethylphenethylamine	ND	ug/kg	1900				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	300				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	750				
Pentachlorobenzene	ND	ug/kg	750				
a-Naphthylamine	ND	ug/kg	750				
b-Naphthylamine	ND	ug/kg	750				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	750				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	750				
3-Methylcholanthrene	ND	ug/kg	750				
Ethyl Methanesulfonate	ND	ug/kg	560				
Acetophenone	ND	ug/kg	750				
Nitrosodipiperidine	ND	ug/kg	750				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-02  
 CB-15 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 17:42	HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1900				
2,4,6-Trichlorophenol	ND	ug/kg	190				
p-Chloro-m-cresol	ND	ug/kg	190				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	750				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	750				
4,6-Dinitro-o-cresol	ND	ug/kg	750				
Pentachlorophenol	ND	ug/kg	750				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	190				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1900				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	190				
Pyridine	ND	ug/kg	1900				
2-Picoline	ND	ug/kg	750				
Pronamide	ND	ug/kg	750				
Methyl methanesulfonate	ND	ug/kg	750				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	53.0	%	25-120				
Phenol-d6	60.0	%	10-120				
Nitrobenzene-d5	54.0	%	23-120				
2-Fluorobiphenyl	52.0	%	30-120				
2,4,6-Tribromophenol	82.0	%	19-120				
4-Terphenyl-d14	87.0	%	18-120				
PAH by GC/MS SIM 8270M				1 8270C-M	0308 11:15	0309 22:40	RL
Acenaphthene	ND	ug/kg	7.5				
2-Chloronaphthalene	ND	ug/kg	7.5				
Fluoranthene	ND	ug/kg	7.5				
Hexachlorobutadiene	ND	ug/kg	19.				
Naphthalene	ND	ug/kg	7.5				
Benzo(a)anthracene	ND	ug/kg	7.5				
Benzo(a)pyrene	ND	ug/kg	7.5				
Benzo(b)fluoranthene	ND	ug/kg	7.5				
Benzo(k)fluoranthene	ND	ug/kg	7.5				
Chrysene	ND	ug/kg	7.5				
Acenaphthylene	ND	ug/kg	7.5				
Anthracene	ND	ug/kg	7.5				
Benzo(ghi)perylene	ND	ug/kg	7.5				
Fluorene	ND	ug/kg	7.5				
Phenanthrene	ND	ug/kg	7.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-02  
 CB-15 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:15	0309 22:40 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.5				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.5				
Pyrene	ND	ug/kg	7.5				
1-Methylnaphthalene	ND	ug/kg	7.5				
2-Methylnaphthalene	ND	ug/kg	7.5				
Pentachlorophenol	ND	ug/kg	30.				
Hexachlorobenzene	ND	ug/kg	30.				
Perylene	ND	ug/kg	7.5				
Biphenyl	ND	ug/kg	7.5				
2,6-Dimethylnaphthalene	ND	ug/kg	7.5				
1-Methylphenanthrene	ND	ug/kg	7.5				
Benzo(e)Pyrene	ND	ug/kg	7.5				
Hexachloroethane	ND	ug/kg	30.				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	54.0	%					25-120
Phenol-d6	68.0	%					10-120
Nitrobenzene-d5	56.0	%					23-120
2-Fluorobiphenyl	49.0	%					30-120
2,4,6-Tribromophenol	89.0	%					19-120
4-Terphenyl-d14	74.0	%					18-120
Polychlorinated Biphenyls				1	8082	0308 12:15	0309 21:23 JB
Aroclor 1221	ND	ug/kg	37.4				
Aroclor 1232	ND	ug/kg	37.4				
Aroclor 1242/1016	ND	ug/kg	37.4				
Aroclor 1248	ND	ug/kg	37.4				
Aroclor 1254	ND	ug/kg	37.4				
Aroclor 1260	ND	ug/kg	37.4				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	74.0	%					30-150
Decachlorobiphenyl	82.0	%					30-150
Organochlorine Pesticides				1	8081	0308 13:20	0310 17:16 BW
Delta-BHC	ND	ug/kg	3.74				
Lindane	ND	ug/kg	3.74				
Alpha-BHC	ND	ug/kg	3.74				
Beta-BHC	ND	ug/kg	3.74				
Heptachlor	ND	ug/kg	3.74				
Aldrin	ND	ug/kg	3.74				
Heptachlor epoxide	ND	ug/kg	3.74				
Endrin	ND	ug/kg	3.74				
Endrin aldehyde	ND	ug/kg	3.74				
Endrin ketone	ND	ug/kg	3.74				
Dieldrin	ND	ug/kg	3.74				
4,4'-DDE	ND	ug/kg	3.74				
4,4'-DDD	ND	ug/kg	3.74				
4,4'-DDT	ND	ug/kg	3.74				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-02  
CB-15 (14'-16')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0308 13:20	0310 17:16	BW
Endosulfan I	ND	ug/kg	3.74				
Endosulfan II	ND	ug/kg	3.74				
Endosulfan sulfate	ND	ug/kg	3.74				
Methoxychlor	ND	ug/kg	3.74				
Toxaphene	ND	ug/kg	15.0				
Chlordane	ND	ug/kg	15.0				
cis-Chlordane	ND	ug/kg	3.74				
trans-Chlordane	ND	ug/kg	3.74				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	61.0	%		30-150			
Decachlorobiphenyl	72.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0502261-03	<b>Date Collected:</b> 28-FEB-2005 11:30
MW/CB-16 (4'-6')	<b>Date Received :</b> 05-MAR-2005
<b>Sample Matrix:</b> SOIL	<b>Date Reported :</b> 14-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	90.	%	0.10	30 2540G		0309 16:15	JS
Volatile Organics by GC/MS 8260				1 8260B		0309 11:23	BT
Methylene chloride	ND	ug/kg	27.				
1,1-Dichloroethane	ND	ug/kg	4.1				
Chloroform	ND	ug/kg	4.1				
Carbon tetrachloride	ND	ug/kg	2.7				
1,2-Dichloropropane	ND	ug/kg	9.6				
Dibromochloromethane	ND	ug/kg	2.7				
1,1,2-Trichloroethane	ND	ug/kg	4.1				
Tetrachloroethene	ND	ug/kg	2.7				
Chlorobenzene	ND	ug/kg	2.7				
Trichlorofluoromethane	ND	ug/kg	14.				
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	29.	ug/kg	4.1				
Ethylbenzene	31.	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.5				
Vinyl chloride	ND	ug/kg	5.5				
Chloroethane	ND	ug/kg	5.5				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	7.0	ug/kg	5.5				
p/m-Xylene	210	ug/kg	2.7				
o-Xylene	160	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-03  
 MW/CB-16 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0309	11:23 BT
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	95.	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	68.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	55.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	100	ug/kg	2.7				
sec-Butylbenzene	11.	ug/kg	2.7				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	9.6	ug/kg	2.7				
p-Isopropyltoluene	10.	ug/kg	2.7				
Naphthalene	110	ug/kg	14.				
n-Propylbenzene	28.	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	300	ug/kg	14.				
1,2,4-Trimethylbenzene	580	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	104.	%					
Toluene-d8	92.0	%					
4-Bromofluorobenzene	96.0	%					
Dibromofluoromethane	47.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-04	Date Collected: 28-FEB-2005 11:45
MW/CB-16 (10'-12')	Date Received : 05-MAR-2005
Sample Matrix: SOIL	Date Reported : 14-MAR-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Amber,1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	82.	%	0.10	30 2540G		0307 21:06	HG
Total Metals				1 3051			
Aluminum, Total	3600	mg/kg	4.8	1 6010B	0308 15:00	0309 07:26	RW
Antimony, Total	ND	mg/kg	2.4	1 6010B	0308 15:00	0309 07:26	RW
Arsenic, Total	1.8	mg/kg	0.48	1 6010B	0308 15:00	0309 07:26	RW
Barium, Total	32.	mg/kg	0.48	1 6010B	0308 15:00	0309 07:26	RW
Beryllium, Total	0.2554	mg/kg	0.1198	1 6010B	0308 15:00	0309 07:26	RW
Cadmium, Total	ND	mg/kg	0.1198	1 6010B	0308 15:00	0309 07:26	RW
Calcium, Total	2600	mg/kg	4.8	1 6010B	0308 15:00	0309 07:26	RW
Chromium, Total	6.7	mg/kg	0.48	1 6010B	0308 15:00	0309 07:26	RW
Cobalt, Total	4.9	mg/kg	0.96	1 6010B	0308 15:00	0309 07:26	RW
Copper, Total	17.	mg/kg	0.48	1 6010B	0308 15:00	0309 07:26	RW
Iron, Total	8800	mg/kg	2.4	1 6010B	0308 15:00	0309 07:26	RW
Lead, Total	6.6	mg/kg	2.4	1 6010B	0308 15:00	0309 07:26	RW
Magnesium, Total	1700	mg/kg	4.8	1 6010B	0308 15:00	0309 07:26	RW
Manganese, Total	370	mg/kg	0.48	1 6010B	0308 15:00	0309 07:26	RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0309 20:15	0310 12:20	DM
Nickel, Total	10.	mg/kg	0.48	1 6010B	0308 15:00	0309 07:26	RW
Potassium, Total	900	mg/kg	120	1 6010B	0308 15:00	0309 07:26	RW
Selenium, Total	ND	mg/kg	0.240	1 6010B	0308 15:00	0309 07:26	RW
Silver, Total	ND	mg/kg	0.48	1 6010B	0308 15:00	0309 07:26	RW
Sodium, Total	120	mg/kg	96.	1 6010B	0308 15:00	0309 07:26	RW
Thallium, Total	ND	mg/kg	0.48	1 6010B	0308 15:00	0309 07:26	RW
Vanadium, Total	10.	mg/kg	0.48	1 6010B	0308 15:00	0309 07:26	RW
Zinc, Total	23.	mg/kg	2.4	1 6010B	0308 15:00	0309 07:26	RW
Volatile Organics by GC/MS 8260				1 8260B		0309 12:39	BT
Methylene chloride	ND	ug/kg	31.				
1,1-Dichloroethane	ND	ug/kg	4.7				
Chloroform	ND	ug/kg	4.7				
Carbon tetrachloride	ND	ug/kg	3.1				
1,2-Dichloropropane	ND	ug/kg	11.				
Dibromochloromethane	ND	ug/kg	3.1				
1,1,2-Trichloroethane	ND	ug/kg	4.7				
Tetrachloroethene	ND	ug/kg	3.1				
Chlorobenzene	ND	ug/kg	3.1				
Trichlorofluoromethane	ND	ug/kg	16.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-04  
 MW/CB-16 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 12:39		BT
1,2-Dichloroethane	ND	ug/kg	3.1				
1,1,1-Trichloroethane	ND	ug/kg	3.1				
Bromodichloromethane	ND	ug/kg	3.1				
trans-1,3-Dichloropropene	ND	ug/kg	3.1				
cis-1,3-Dichloropropene	ND	ug/kg	3.1				
1,1-Dichloropropene	ND	ug/kg	16.				
Bromoform	ND	ug/kg	12.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.1				
Benzene	ND	ug/kg	3.1				
Toluene	ND	ug/kg	4.7				
Ethylbenzene	ND	ug/kg	3.1				
Chloromethane	ND	ug/kg	16.				
Bromomethane	ND	ug/kg	6.2				
Vinyl chloride	ND	ug/kg	6.2				
Chloroethane	ND	ug/kg	6.2				
1,1-Dichloroethene	ND	ug/kg	3.1				
trans-1,2-Dichloroethene	ND	ug/kg	4.7				
Trichloroethene	ND	ug/kg	3.1				
1,2-Dichlorobenzene	ND	ug/kg	16.				
1,3-Dichlorobenzene	ND	ug/kg	16.				
1,4-Dichlorobenzene	ND	ug/kg	16.				
Methyl tert butyl ether	ND	ug/kg	6.2				
p/m-Xylene	ND	ug/kg	3.1				
o-Xylene	ND	ug/kg	3.1				
cis-1,2-Dichloroethene	ND	ug/kg	3.1				
Dibromomethane	ND	ug/kg	31.				
1,4-Dichlorobutane	ND	ug/kg	31.				
Iodomethane	ND	ug/kg	31.				
1,2,3-Trichloropropane	ND	ug/kg	31.				
Styrene	ND	ug/kg	3.1				
Dichlorodifluoromethane	ND	ug/kg	31.				
Acetone	ND	ug/kg	31.				
Carbon disulfide	ND	ug/kg	31.				
2-Butanone	ND	ug/kg	31.				
Vinyl acetate	ND	ug/kg	31.				
4-Methyl-2-pentanone	ND	ug/kg	31.				
2-Hexanone	ND	ug/kg	31.				
Ethyl methacrylate	ND	ug/kg	31.				
Acrolein	ND	ug/kg	78.				
Acrylonitrile	ND	ug/kg	31.				
Bromochloromethane	ND	ug/kg	16.				
Tetrahydrofuran	ND	ug/kg	62.				
2,2-Dichloropropane	ND	ug/kg	16.				
1,2-Dibromoethane	ND	ug/kg	12.				
1,3-Dichloropropane	ND	ug/kg	16.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.1				
Bromobenzene	ND	ug/kg	16.				
n-Butylbenzene	ND	ug/kg	3.1				
sec-Butylbenzene	ND	ug/kg	3.1				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-04  
MW/CB-16 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 12:39	BT
tert-Butylbenzene	ND	ug/kg	16.			
o-Chlorotoluene	ND	ug/kg	16.			
p-Chlorotoluene	ND	ug/kg	16.			
1,2-Dibromo-3-chloropropane	ND	ug/kg	16.			
Hexachlorobutadiene	ND	ug/kg	16.			
Isopropylbenzene	ND	ug/kg	3.1			
p-Isopropyltoluene	ND	ug/kg	3.1			
Naphthalene	ND	ug/kg	16.			
n-Propylbenzene	ND	ug/kg	3.1			
1,2,3-Trichlorobenzene	ND	ug/kg	16.			
1,2,4-Trichlorobenzene	ND	ug/kg	16.			
1,3,5-Trimethylbenzene	ND	ug/kg	16.			
1,2,4-Trimethylbenzene	ND	ug/kg	16.			
trans-1,4-Dichloro-2-butene	ND	ug/kg	16.			
Ethyl ether	ND	ug/kg	16.			
Surrogate(s)	Recovery			QC Criteria		
1,2-Dichloroethane-d4	101.	%				
Toluene-d8	96.0	%				
4-Bromofluorobenzene	106.	%				
Dibromofluoromethane	96.0	%				
SVOC's by GC/MS 8270				1 8270C	0308 11:15	0309 18:33 HL
Acenaphthene	ND	ug/kg	200			
Benzidine	ND	ug/kg	2000			
1,2,4-Trichlorobenzene	ND	ug/kg	200			
Hexachlorobenzene	ND	ug/kg	200			
Bis(2-chloroethyl)ether	ND	ug/kg	200			
1-Chloronaphthalene	ND	ug/kg	200			
2-Chloronaphthalene	ND	ug/kg	240			
1,2-Dichlorobenzene	ND	ug/kg	200			
1,3-Dichlorobenzene	ND	ug/kg	200			
1,4-Dichlorobenzene	ND	ug/kg	200			
3,3'-Dichlorobenzidine	ND	ug/kg	2000			
2,4-Dinitrotoluene	ND	ug/kg	240			
2,6-Dinitrotoluene	ND	ug/kg	200			
Azobenzene	ND	ug/kg	200			
Fluoranthene	ND	ug/kg	200			
4-Chlorophenyl phenyl ether	ND	ug/kg	200			
4-Bromophenyl phenyl ether	ND	ug/kg	200			
Bis(2-chloroisopropyl)ether	ND	ug/kg	200			
Bis(2-chloroethoxy)methane	ND	ug/kg	200			
Hexachlorobutadiene	ND	ug/kg	410			
Hexachlorocyclopentadiene	ND	ug/kg	410			
Hexachloroethane	ND	ug/kg	200			
Isophorone	ND	ug/kg	200			
Naphthalene	ND	ug/kg	200			
Nitrobenzene	ND	ug/kg	200			
NDPA/DPA	ND	ug/kg	610			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-04  
MW/CB-16 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 18:33	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	200				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	410				
Butyl benzyl phthalate	ND	ug/kg	200				
Di-n-butylphthalate	ND	ug/kg	200				
Di-n-octylphthalate	ND	ug/kg	200				
Diethyl phthalate	ND	ug/kg	200				
Dimethyl phthalate	ND	ug/kg	200				
Benzo(a)anthracene	ND	ug/kg	200				
Benzo(a)pyrene	ND	ug/kg	200				
Benzo(b)fluoranthene	ND	ug/kg	200				
Benzo(k)fluoranthene	ND	ug/kg	200				
Chrysene	ND	ug/kg	200				
Acenaphthylene	ND	ug/kg	200				
Anthracene	ND	ug/kg	200				
Benzo(ghi)perylene	ND	ug/kg	200				
Fluorene	ND	ug/kg	200				
Phenanthrene	ND	ug/kg	200				
Dibenzo(a,h)anthracene	ND	ug/kg	200				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	200				
Pyrene	ND	ug/kg	200				
Benzo(e)pyrene	ND	ug/kg	200				
Biphenyl	ND	ug/kg	200				
Perylene	ND	ug/kg	200				
Aniline	ND	ug/kg	410				
4-Chloroaniline	ND	ug/kg	200				
1-Methylnaphthalene	ND	ug/kg	200				
2-Nitroaniline	ND	ug/kg	200				
3-Nitroaniline	ND	ug/kg	200				
4-Nitroaniline	ND	ug/kg	280				
Dibenzofuran	ND	ug/kg	200				
a,a-Dimethylphenethylamine	ND	ug/kg	2000				
Hexachloropropene	ND	ug/kg	410				
Nitrosodi-n-butylamine	ND	ug/kg	410				
2-Methylnaphthalene	ND	ug/kg	320				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	810				
Pentachlorobenzene	ND	ug/kg	810				
a-Naphthylamine	ND	ug/kg	810				
b-Naphthylamine	ND	ug/kg	810				
Phenacetin	ND	ug/kg	410				
Dimethoate	ND	ug/kg	810				
4-Aminobiphenyl	ND	ug/kg	410				
Pentachloronitrobenzene	ND	ug/kg	410				
Isodrin	ND	ug/kg	410				
p-Dimethylaminoazobenzene	ND	ug/kg	410				
Chlorobenzilate	ND	ug/kg	810				
3-Methylcholanthrene	ND	ug/kg	810				
Ethyl Methanesulfonate	ND	ug/kg	610				
Acetophenone	ND	ug/kg	810				
Nitrosodipiperidine	ND	ug/kg	810				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-04  
 MW/CB-16 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 18:33	HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	410				
n-Nitrosodimethylamine	ND	ug/kg	2000				
2,4,6-Trichlorophenol	ND	ug/kg	200				
p-Chloro-m-cresol	ND	ug/kg	200				
2-Chlorophenol	ND	ug/kg	240				
2,4-Dichlorophenol	ND	ug/kg	410				
2,4-Dimethylphenol	ND	ug/kg	410				
2-Nitrophenol	ND	ug/kg	810				
4-Nitrophenol	ND	ug/kg	410				
2,4-Dinitrophenol	ND	ug/kg	810				
4,6-Dinitro-o-cresol	ND	ug/kg	810				
Pentachlorophenol	ND	ug/kg	810				
Phenol	ND	ug/kg	280				
2-Methylphenol	ND	ug/kg	240				
3-Methylphenol/4-Methylphenol	ND	ug/kg	240				
2,4,5-Trichlorophenol	ND	ug/kg	200				
2,6-Dichlorophenol	ND	ug/kg	410				
Benzoic Acid	ND	ug/kg	2000				
Benzyl Alcohol	ND	ug/kg	410				
Carbazole	ND	ug/kg	200				
Pyridine	ND	ug/kg	2000				
2-Picoline	ND	ug/kg	810				
Pronamide	ND	ug/kg	810				
Methyl methanesulfonate	ND	ug/kg	810				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	57.0	%	25-120				
Phenol-d6	62.0	%	10-120				
Nitrobenzene-d5	54.0	%	23-120				
2-Fluorobiphenyl	53.0	%	30-120				
2,4,6-Tribromophenol	56.0	%	19-120				
4-Terphenyl-d14	72.0	%	18-120				
PAH by GC/MS SIM 8270M				1 8270C-M	0308 11:15	0309 23:24	RL
Acenaphthene	ND	ug/kg	8.1				
2-Chloronaphthalene	ND	ug/kg	8.1				
Fluoranthene	ND	ug/kg	8.1				
Hexachlorobutadiene	ND	ug/kg	20.				
Naphthalene	ND	ug/kg	8.1				
Benzo(a)anthracene	ND	ug/kg	8.1				
Benzo(a)pyrene	ND	ug/kg	8.1				
Benzo(b)fluoranthene	ND	ug/kg	8.1				
Benzo(k)fluoranthene	ND	ug/kg	8.1				
Chrysene	ND	ug/kg	8.1				
Acenaphthylene	ND	ug/kg	8.1				
Anthracene	ND	ug/kg	8.1				
Benzo(ghi)perylene	ND	ug/kg	8.1				
Fluorene	ND	ug/kg	8.1				
Phenanthrene	ND	ug/kg	8.1				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-04  
 MW/CB-16 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:15	0309 23:24 RL
Dibenzo(a,h)anthracene	ND	ug/kg	8.1				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	8.1				
Pyrene	ND	ug/kg	8.1				
1-Methylnaphthalene	ND	ug/kg	8.1				
2-Methylnaphthalene	ND	ug/kg	8.1				
Pentachlorophenol	ND	ug/kg	32.				
Hexachlorobenzene	ND	ug/kg	32.				
Perylene	ND	ug/kg	8.1				
Biphenyl	ND	ug/kg	8.1				
2,6-Dimethylnaphthalene	ND	ug/kg	8.1				
1-Methylphenanthrene	ND	ug/kg	8.1				
Benzo(e)Pyrene	ND	ug/kg	8.1				
Hexachloroethane	ND	ug/kg	32.				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	52.0	%					25-120
Phenol-d6	66.0	%					10-120
Nitrobenzene-d5	55.0	%					23-120
2-Fluorobiphenyl	47.0	%					30-120
2,4,6-Tribromophenol	67.0	%					19-120
4-Terphenyl-d14	50.0	%					18-120
Polychlorinated Biphenyls				1	8082	0308 12:15	0309 22:49 JB
Aroclor 1221	ND	ug/kg	40.6				
Aroclor 1232	ND	ug/kg	40.6				
Aroclor 1242/1016	ND	ug/kg	40.6				
Aroclor 1248	ND	ug/kg	40.6				
Aroclor 1254	ND	ug/kg	40.6				
Aroclor 1260	ND	ug/kg	40.6				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	80.0	%					30-150
Decachlorobiphenyl	85.0	%					30-150
Organochlorine Pesticides				1	8081	0308 13:20	0310 18:41 BW
Delta-BHC	ND	ug/kg	4.06				
Lindane	ND	ug/kg	4.06				
Alpha-BHC	ND	ug/kg	4.06				
Beta-BHC	ND	ug/kg	4.06				
Heptachlor	ND	ug/kg	4.06				
Aldrin	ND	ug/kg	4.06				
Heptachlor epoxide	ND	ug/kg	4.06				
Endrin	ND	ug/kg	4.06				
Endrin aldehyde	ND	ug/kg	4.06				
Endrin ketone	ND	ug/kg	4.06				
Dieldrin	ND	ug/kg	4.06				
4,4'-DDE	ND	ug/kg	4.06				
4,4'-DDD	ND	ug/kg	4.06				
4,4'-DDT	ND	ug/kg	4.06				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-04  
MW/CB-16 (10'-12')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0308 13:20	0310 18:41	BW
Endosulfan I	ND	ug/kg	4.06				
Endosulfan II	ND	ug/kg	4.06				
Endosulfan sulfate	ND	ug/kg	4.06				
Methoxychlor	ND	ug/kg	4.06				
Toxaphene	ND	ug/kg	16.3				
Chlordane	ND	ug/kg	16.3				
cis-Chlordane	ND	ug/kg	4.06				
trans-Chlordane	ND	ug/kg	4.06				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	63.0	%		30-150			
Decachlorobiphenyl	74.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-05	Date Collected: 28-FEB-2005 14:10
MW/CB-17 (1'-2')	Date Received : 05-MAR-2005
Sample Matrix: SOIL	Date Reported : 14-MAR-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	94.	%	0.10	30 2540G		0309 16:15	JS
Volatile Organics by GC/MS 8260				1 8260B		0309 13:17	BT
Methylene chloride	ND	ug/kg	27.				
1,1-Dichloroethane	ND	ug/kg	4.1				
Chloroform	ND	ug/kg	4.1				
Carbon tetrachloride	ND	ug/kg	2.7				
1,2-Dichloropropane	ND	ug/kg	9.5				
Dibromochloromethane	ND	ug/kg	2.7				
1,1,2-Trichloroethane	ND	ug/kg	4.1				
Tetrachloroethene	ND	ug/kg	2.7				
Chlorobenzene	ND	ug/kg	2.7				
Trichlorofluoromethane	ND	ug/kg	14.				
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.4				
Vinyl chloride	ND	ug/kg	5.4				
Chloroethane	ND	ug/kg	5.4				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.4				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-05  
 MW/CB-17 (1'-2')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0309 13:17 BT	
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	68.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	54.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	104.	%					
Toluene-d8	99.0	%					
4-Bromofluorobenzene	114.	%					
Dibromofluoromethane	99.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-06		Date Collected: 28-FEB-2005 14:15
	MW/CB-17 (2'-4')	Date Received : 05-MAR-2005
Sample Matrix: SOIL		Date Reported : 14-MAR-2005
Condition of Sample: Satisfactory		Field Prep: None
Number & Type of Containers: 2-Amber,1-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	95.	%	0.10	30 2540G		0307 21:06 HG
Total Metals				1 3051		
Aluminum, Total	1300	mg/kg	4.2	1 6010B	0308 15:00 0309 07:28	RW
Antimony, Total	ND	mg/kg	2.1	1 6010B	0308 15:00 0309 07:28	RW
Arsenic, Total	3.3	mg/kg	0.42	1 6010B	0308 15:00 0309 07:28	RW
Barium, Total	18.	mg/kg	0.42	1 6010B	0308 15:00 0309 07:28	RW
Beryllium, Total	0.1124	mg/kg	0.1041	1 6010B	0308 15:00 0309 07:28	RW
Cadmium, Total	ND	mg/kg	0.5204	1 6010B	0308 15:00 0309 10:13	RW
Calcium, Total	47000	mg/kg	21.	1 6010B	0308 15:00 0309 10:13	RW
Chromium, Total	4.2	mg/kg	0.42	1 6010B	0308 15:00 0309 07:28	RW
Cobalt, Total	2.3	mg/kg	0.83	1 6010B	0308 15:00 0309 07:28	RW
Copper, Total	7.0	mg/kg	0.42	1 6010B	0308 15:00 0309 07:28	RW
Iron, Total	3400	mg/kg	2.1	1 6010B	0308 15:00 0309 07:28	RW
Lead, Total	4.7	mg/kg	2.1	1 6010B	0308 15:00 0309 07:28	RW
Magnesium, Total	2300	mg/kg	4.2	1 6010B	0308 15:00 0309 07:28	RW
Manganese, Total	180	mg/kg	0.42	1 6010B	0308 15:00 0309 07:28	RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0309 20:15 0310 12:22	DM
Nickel, Total	8.4	mg/kg	0.42	1 6010B	0308 15:00 0309 07:28	RW
Potassium, Total	290	mg/kg	100	1 6010B	0308 15:00 0309 07:28	RW
Selenium, Total	ND	mg/kg	1.04	1 6010B	0308 15:00 0309 10:13	RW
Silver, Total	ND	mg/kg	0.42	1 6010B	0308 15:00 0309 07:28	RW
Sodium, Total	440	mg/kg	83.	1 6010B	0308 15:00 0309 07:28	RW
Thallium, Total	ND	mg/kg	0.42	1 6010B	0308 15:00 0309 07:28	RW
Vanadium, Total	4.9	mg/kg	0.42	1 6010B	0308 15:00 0309 07:28	RW
Zinc, Total	9.6	mg/kg	2.1	1 6010B	0308 15:00 0309 07:28	RW
Volatile Organics by GC/MS 8260				1 8260B		0309 13:56 BT
Methylene chloride	ND	ug/kg	27.			
1,1-Dichloroethane	ND	ug/kg	4.0			
Chloroform	ND	ug/kg	4.0			
Carbon tetrachloride	ND	ug/kg	2.7			
1,2-Dichloropropane	ND	ug/kg	9.4			
Dibromochloromethane	ND	ug/kg	2.7			
1,1,2-Trichloroethane	ND	ug/kg	4.0			
Tetrachloroethene	ND	ug/kg	2.7			
Chlorobenzene	ND	ug/kg	2.7			
Trichlorofluoromethane	ND	ug/kg	13.			

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-06  
 MW/CB-17 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 13:56		BT
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	13.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.0				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	13.				
Bromomethane	ND	ug/kg	5.3				
Vinyl chloride	ND	ug/kg	5.3				
Chloroethane	ND	ug/kg	5.3				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.0				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	13.				
1,3-Dichlorobenzene	ND	ug/kg	13.				
1,4-Dichlorobenzene	ND	ug/kg	13.				
Methyl tert butyl ether	ND	ug/kg	5.3				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	67.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	13.				
Tetrahydrofuran	ND	ug/kg	53.				
2,2-Dichloropropane	ND	ug/kg	13.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	13.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	13.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-06  
 MW/CB-17 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 13:56		BT
tert-Butylbenzene	ND	ug/kg	13.				
o-Chlorotoluene	ND	ug/kg	13.				
p-Chlorotoluene	ND	ug/kg	13.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	13.				
Hexachlorobutadiene	ND	ug/kg	13.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	13.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	13.				
1,2,4-Trichlorobenzene	ND	ug/kg	13.				
1,3,5-Trimethylbenzene	ND	ug/kg	13.				
1,2,4-Trimethylbenzene	ND	ug/kg	13.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	13.				
Ethyl ether	ND	ug/kg	13.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	109.	%					
Dibromofluoromethane	98.0	%					
SVOC's by GC/MS 8270				1 8270C	0308 11:15 0309 18:59		HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	210				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	210				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	350				
Hexachlorocyclopentadiene	ND	ug/kg	350				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	530				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-06  
MW/CB-17 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 18:59	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	350				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	350				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	240				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	350				
Nitrosodi-n-butylamine	ND	ug/kg	350				
2-Methylnaphthalene	ND	ug/kg	280				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	700				
Pentachlorobenzene	ND	ug/kg	700				
a-Naphthylamine	ND	ug/kg	700				
b-Naphthylamine	ND	ug/kg	700				
Phenacetin	ND	ug/kg	350				
Dimethoate	ND	ug/kg	700				
4-Aminobiphenyl	ND	ug/kg	350				
Pentachloronitrobenzene	ND	ug/kg	350				
Isodrin	ND	ug/kg	350				
p-Dimethylaminoazobenzene	ND	ug/kg	350				
Chlorobenzilate	ND	ug/kg	700				
3-Methylcholanthrene	ND	ug/kg	700				
Ethyl Methanesulfonate	ND	ug/kg	530				
Acetophenone	ND	ug/kg	700				
Nitrosodipiperidine	ND	ug/kg	700				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-06  
 MW/CB-17 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 18:59	HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	350				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	210				
2,4-Dichlorophenol	ND	ug/kg	350				
2,4-Dimethylphenol	ND	ug/kg	350				
2-Nitrophenol	ND	ug/kg	700				
4-Nitrophenol	ND	ug/kg	350				
2,4-Dinitrophenol	ND	ug/kg	700				
4,6-Dinitro-o-cresol	ND	ug/kg	700				
Pentachlorophenol	ND	ug/kg	700				
Phenol	ND	ug/kg	240				
2-Methylphenol	ND	ug/kg	210				
3-Methylphenol/4-Methylphenol	ND	ug/kg	210				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	350				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	350				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	700				
Pronamide	ND	ug/kg	700				
Methyl methanesulfonate	ND	ug/kg	700				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	75.0	%	25-120				
Phenol-d6	83.0	%	10-120				
Nitrobenzene-d5	75.0	%	23-120				
2-Fluorobiphenyl	73.0	%	30-120				
2,4,6-Tribromophenol	75.0	%	19-120				
4-Terphenyl-d14	85.0	%	18-120				
PAH by GC/MS SIM 8270M				1 8270C-M	0308 11:15	0310 19:46	RL
Acenaphthene	ND	ug/kg	7.0				
2-Chloronaphthalene	ND	ug/kg	7.0				
Fluoranthene	ND	ug/kg	7.0				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	9.3	ug/kg	7.0				
Benzo(a)anthracene	ND	ug/kg	7.0				
Benzo(a)pyrene	ND	ug/kg	7.0				
Benzo(b)fluoranthene	ND	ug/kg	7.0				
Benzo(k)fluoranthene	ND	ug/kg	7.0				
Chrysene	ND	ug/kg	7.0				
Acenaphthylene	ND	ug/kg	7.0				
Anthracene	ND	ug/kg	7.0				
Benzo(ghi)perylene	ND	ug/kg	7.0				
Fluorene	ND	ug/kg	7.0				
Phenanthrene	12.	ug/kg	7.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-06  
 MW/CB-17 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:15	0310 19:46 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.0				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.0				
Pyrene	ND	ug/kg	7.0				
1-Methylnaphthalene	ND	ug/kg	7.0				
2-Methylnaphthalene	ND	ug/kg	7.0				
Pentachlorophenol	ND	ug/kg	28.				
Hexachlorobenzene	ND	ug/kg	28.				
Perylene	ND	ug/kg	7.0				
Biphenyl	ND	ug/kg	7.0				
2,6-Dimethylnaphthalene	ND	ug/kg	7.0				
1-Methylphenanthrene	ND	ug/kg	7.0				
Benzo(e)Pyrene	ND	ug/kg	7.0				
Hexachloroethane	ND	ug/kg	28.				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	68.0	%					25-120
Phenol-d6	92.0	%					10-120
Nitrobenzene-d5	79.0	%					23-120
2-Fluorobiphenyl	67.0	%					30-120
2,4,6-Tribromophenol	83.0	%					19-120
4-Terphenyl-d14	69.0	%					18-120
Polychlorinated Biphenyls				1	8082	0308 12:15	0309 23:18 JB
Aroclor 1221	ND	ug/kg	35.1				
Aroclor 1232	ND	ug/kg	35.1				
Aroclor 1242/1016	ND	ug/kg	35.1				
Aroclor 1248	ND	ug/kg	35.1				
Aroclor 1254	ND	ug/kg	35.1				
Aroclor 1260	ND	ug/kg	35.1				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	50.0	%					30-150
Decachlorobiphenyl	59.0	%					30-150
Organochlorine Pesticides				1	8081	0308 13:20	0310 19:09 BW
Delta-BHC	ND	ug/kg	3.51				
Lindane	ND	ug/kg	3.51				
Alpha-BHC	ND	ug/kg	3.51				
Beta-BHC	ND	ug/kg	3.51				
Heptachlor	ND	ug/kg	3.51				
Aldrin	ND	ug/kg	3.51				
Heptachlor epoxide	ND	ug/kg	3.51				
Endrin	ND	ug/kg	3.51				
Endrin aldehyde	ND	ug/kg	3.51				
Endrin ketone	ND	ug/kg	3.51				
Dieldrin	ND	ug/kg	3.51				
4,4'-DDE	ND	ug/kg	3.51				
4,4'-DDD	ND	ug/kg	3.51				
4,4'-DDT	ND	ug/kg	3.51				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-06  
MW/CB-17 (2'-4')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0308 13:20	0310 19:09	BW
Endosulfan I	ND	ug/kg	3.51				
Endosulfan II	ND	ug/kg	3.51				
Endosulfan sulfate	ND	ug/kg	3.51				
Methoxychlor	ND	ug/kg	3.51				
Toxaphene	ND	ug/kg	14.0				
Chlordane	ND	ug/kg	14.0				
cis-Chlordane	ND	ug/kg	3.51				
trans-Chlordane	ND	ug/kg	3.51				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	55.0	%		30-150			
Decachlorobiphenyl	64.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-07		Date Collected: 02-MAR-2005 11:30
	MW/CB-18 (4'-6')	Date Received : 05-MAR-2005
Sample Matrix: SOIL		Date Reported : 14-MAR-2005
Condition of Sample: Satisfactory		Field Prep: None
Number & Type of Containers: 2-Amber,1-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	91.	%	0.10	30 2540G		0307 21:06	HG
Total Metals				1 3051			
Aluminum, Total	3800	mg/kg	4.4	1 6010B	0308 15:00	0309 07:31	RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0308 15:00	0309 07:31	RW
Arsenic, Total	2.2	mg/kg	0.44	1 6010B	0308 15:00	0309 07:31	RW
Barium, Total	33.	mg/kg	0.44	1 6010B	0308 15:00	0309 07:31	RW
Beryllium, Total	0.1160	mg/kg	0.1098	1 6010B	0308 15:00	0309 07:31	RW
Cadmium, Total	ND	mg/kg	0.1098	1 6010B	0308 15:00	0309 07:31	RW
Calcium, Total	5700	mg/kg	4.4	1 6010B	0308 15:00	0309 07:31	RW
Chromium, Total	6.4	mg/kg	0.44	1 6010B	0308 15:00	0309 07:31	RW
Cobalt, Total	4.1	mg/kg	0.88	1 6010B	0308 15:00	0309 07:31	RW
Copper, Total	13.	mg/kg	0.44	1 6010B	0308 15:00	0309 07:31	RW
Iron, Total	8600	mg/kg	2.2	1 6010B	0308 15:00	0309 07:31	RW
Lead, Total	8.2	mg/kg	2.2	1 6010B	0308 15:00	0309 07:31	RW
Magnesium, Total	3000	mg/kg	4.4	1 6010B	0308 15:00	0309 07:31	RW
Manganese, Total	280	mg/kg	0.44	1 6010B	0308 15:00	0309 07:31	RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0309 20:15	0310 12:24	DM
Nickel, Total	8.0	mg/kg	0.44	1 6010B	0308 15:00	0309 07:31	RW
Potassium, Total	340	mg/kg	110	1 6010B	0308 15:00	0309 07:31	RW
Selenium, Total	ND	mg/kg	0.220	1 6010B	0308 15:00	0309 07:31	RW
Silver, Total	ND	mg/kg	0.44	1 6010B	0308 15:00	0309 07:31	RW
Sodium, Total	160	mg/kg	88.	1 6010B	0308 15:00	0309 07:31	RW
Thallium, Total	ND	mg/kg	0.44	1 6010B	0308 15:00	0309 07:31	RW
Vanadium, Total	7.4	mg/kg	0.44	1 6010B	0308 15:00	0309 07:31	RW
Zinc, Total	27.	mg/kg	2.2	1 6010B	0308 15:00	0309 07:31	RW
Volatile Organics by GC/MS 8260				1 8260B		0309 14:34	BT
Methylene chloride	ND	ug/kg	27.				
1,1-Dichloroethane	ND	ug/kg	4.1				
Chloroform	ND	ug/kg	4.1				
Carbon tetrachloride	ND	ug/kg	2.7				
1,2-Dichloropropane	ND	ug/kg	9.6				
Dibromochloromethane	ND	ug/kg	2.7				
1,1,2-Trichloroethane	ND	ug/kg	4.1				
Tetrachloroethene	ND	ug/kg	2.7				
Chlorobenzene	ND	ug/kg	2.7				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-07  
 MW/CB-18 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 14:34		BT
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.5				
Vinyl chloride	ND	ug/kg	5.5				
Chloroethane	ND	ug/kg	5.5				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.5				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	68.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	55.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-07  
 MW/CB-18 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 14:34		BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	107.	%					
Toluene-d8	97.0	%					
4-Bromofluorobenzene	109.	%					
Dibromofluoromethane	99.0	%					
SVOC's by GC/MS 8270				1 8270C	0308 11:15 0309 19:25		HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	550				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-07  
 MW/CB-18 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 19:25	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	290				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	730				
Pentachlorobenzene	ND	ug/kg	730				
a-Naphthylamine	ND	ug/kg	730				
b-Naphthylamine	ND	ug/kg	730				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	730				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	730				
3-Methylcholanthrene	ND	ug/kg	730				
Ethyl Methanesulfonate	ND	ug/kg	550				
Acetophenone	ND	ug/kg	730				
Nitrosodipiperidine	ND	ug/kg	730				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-07  
 MW/CB-18 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 19:25	HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	730				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	730				
4,6-Dinitro-o-cresol	ND	ug/kg	730				
Pentachlorophenol	ND	ug/kg	730				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	730				
Pronamide	ND	ug/kg	730				
Methyl methanesulfonate	ND	ug/kg	730				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	74.0	%	25-120				
Phenol-d6	83.0	%	10-120				
Nitrobenzene-d5	70.0	%	23-120				
2-Fluorobiphenyl	70.0	%	30-120				
2,4,6-Tribromophenol	60.0	%	19-120				
4-Terphenyl-d14	88.0	%	18-120				
PAH by GC/MS SIM 8270M				1 8270C-M	0308 11:15	0310 16:51	RL
Acenaphthene	ND	ug/kg	7.3				
2-Chloronaphthalene	ND	ug/kg	7.3				
Fluoranthene	49.	ug/kg	7.3				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.3				
Benzo(a)anthracene	35.	ug/kg	7.3				
Benzo(a)pyrene	61.	ug/kg	7.3				
Benzo(b)fluoranthene	47.	ug/kg	7.3				
Benzo(k)fluoranthene	66.	ug/kg	7.3				
Chrysene	35.	ug/kg	7.3				
Acenaphthylene	ND	ug/kg	7.3				
Anthracene	ND	ug/kg	7.3				
Benzo(ghi)perylene	50.	ug/kg	7.3				
Fluorene	ND	ug/kg	7.3				
Phenanthrene	9.9	ug/kg	7.3				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-07  
MW/CB-18 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:15	0310 16:51 RL
Dibenzo(a,h)anthracene	13.	ug/kg	7.3				
Indeno(1,2,3-cd)Pyrene	47.	ug/kg	7.3				
Pyrene	49.	ug/kg	7.3				
1-Methylnaphthalene	ND	ug/kg	7.3				
2-Methylnaphthalene	ND	ug/kg	7.3				
Pentachlorophenol	ND	ug/kg	29.				
Hexachlorobenzene	ND	ug/kg	29.				
Perylene	19.	ug/kg	7.3				
Biphenyl	ND	ug/kg	7.3				
2,6-Dimethylnaphthalene	ND	ug/kg	7.3				
1-Methylphenanthrene	ND	ug/kg	7.3				
Benzo(e)Pyrene	42.	ug/kg	7.3				
Hexachloroethane	ND	ug/kg	29.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	66.0	%	25-120				
Phenol-d6	89.0	%	10-120				
Nitrobenzene-d5	74.0	%	23-120				
2-Fluorobiphenyl	62.0	%	30-120				
2,4,6-Tribromophenol	75.0	%	19-120				
4-Terphenyl-d14	73.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0308 12:15	0309 23:46 JB
Aroclor 1221	ND	ug/kg	36.6				
Aroclor 1232	ND	ug/kg	36.6				
Aroclor 1242/1016	ND	ug/kg	36.6				
Aroclor 1248	ND	ug/kg	36.6				
Aroclor 1254	ND	ug/kg	36.6				
Aroclor 1260	ND	ug/kg	36.6				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	78.0	%	30-150				
Decachlorobiphenyl	83.0	%	30-150				
Organochlorine Pesticides				1	8081	0308 13:20	0311 10:40 BW
Delta-BHC	ND	ug/kg	3.66				
Lindane	ND	ug/kg	3.66				
Alpha-BHC	ND	ug/kg	3.66				
Beta-BHC	ND	ug/kg	3.66				
Heptachlor	ND	ug/kg	3.66				
Aldrin	ND	ug/kg	3.66				
Heptachlor epoxide	ND	ug/kg	3.66				
Endrin	ND	ug/kg	3.66				
Endrin aldehyde	ND	ug/kg	3.66				
Endrin ketone	ND	ug/kg	3.66				
Dieldrin	ND	ug/kg	3.66				
4,4'-DDE	ND	ug/kg	3.66				
4,4'-DDD	ND	ug/kg	3.66				
4,4'-DDT	ND	ug/kg	3.66				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-07  
MW/CB-18 (4'-6')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0308 13:20	0311 10:40	BW
Endosulfan I	ND	ug/kg	3.66				
Endosulfan II	ND	ug/kg	3.66				
Endosulfan sulfate	ND	ug/kg	3.66				
Methoxychlor	ND	ug/kg	3.66				
Toxaphene	ND	ug/kg	14.6				
Chlordane	ND	ug/kg	14.6				
cis-Chlordane	ND	ug/kg	3.66				
trans-Chlordane	ND	ug/kg	3.66				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	62.0	%		30-150			
Decachlorobiphenyl	68.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0502261-08	<b>Date Collected:</b> 02-MAR-2005 14:15
MW/CB-19 (1'-2')	<b>Date Received :</b> 05-MAR-2005
<b>Sample Matrix:</b> SOIL	<b>Date Reported :</b> 14-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	91.	%	0.10	30 2540G		0309 16:15	JS
Volatile Organics by GC/MS 8260				1 8260B		0309 15:12	BT
Methylene chloride	ND	ug/kg	27.				
1,1-Dichloroethane	ND	ug/kg	4.1				
Chloroform	ND	ug/kg	4.1				
Carbon tetrachloride	ND	ug/kg	2.7				
1,2-Dichloropropane	ND	ug/kg	9.6				
Dibromochloromethane	ND	ug/kg	2.7				
1,1,2-Trichloroethane	ND	ug/kg	4.1				
Tetrachloroethene	ND	ug/kg	2.7				
Chlorobenzene	ND	ug/kg	2.7				
Trichlorofluoromethane	ND	ug/kg	14.				
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.5				
Vinyl chloride	ND	ug/kg	5.5				
Chloroethane	ND	ug/kg	5.5				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.5				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-08  
 MW/CB-19 (1'-2')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0309	15:12 BT
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	68.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	55.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	104.	%					
Toluene-d8	95.0	%					
4-Bromofluorobenzene	100.	%					
Dibromofluoromethane	80.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-09 Date Collected: 02-MAR-2005 14:30  
 MW/CB-19 (8'-10') Date Received : 05-MAR-2005  
 Sample Matrix: SOIL Date Reported : 14-MAR-2005  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	91.	%	0.10	30 2540G		0307 21:06	HG
Total Metals				1 3051			
Aluminum, Total	3500	mg/kg	4.3	1 6010B	0308 15:00	0309 07:44	RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0308 15:00	0309 07:44	RW
Arsenic, Total	1.9	mg/kg	0.43	1 6010B	0308 15:00	0309 07:44	RW
Barium, Total	37.	mg/kg	0.43	1 6010B	0308 15:00	0309 07:44	RW
Beryllium, Total	0.1405	mg/kg	0.1078	1 6010B	0308 15:00	0309 07:44	RW
Cadmium, Total	ND	mg/kg	0.1078	1 6010B	0308 15:00	0309 07:44	RW
Calcium, Total	1400	mg/kg	4.3	1 6010B	0308 15:00	0309 07:44	RW
Chromium, Total	6.2	mg/kg	0.43	1 6010B	0308 15:00	0309 07:44	RW
Cobalt, Total	3.8	mg/kg	0.86	1 6010B	0308 15:00	0309 07:44	RW
Copper, Total	11.	mg/kg	0.43	1 6010B	0308 15:00	0309 07:44	RW
Iron, Total	8300	mg/kg	2.2	1 6010B	0308 15:00	0309 07:44	RW
Lead, Total	11.	mg/kg	2.2	1 6010B	0308 15:00	0309 07:44	RW
Magnesium, Total	1400	mg/kg	4.3	1 6010B	0308 15:00	0309 07:44	RW
Manganese, Total	130	mg/kg	0.43	1 6010B	0308 15:00	0309 07:44	RW
Mercury, Total	ND	mg/kg	0.08	1 7471A	0309 20:15	0310 12:26	DM
Nickel, Total	7.1	mg/kg	0.43	1 6010B	0308 15:00	0309 07:44	RW
Potassium, Total	340	mg/kg	110	1 6010B	0308 15:00	0309 07:44	RW
Selenium, Total	ND	mg/kg	0.216	1 6010B	0308 15:00	0309 07:44	RW
Silver, Total	ND	mg/kg	0.43	1 6010B	0308 15:00	0309 07:44	RW
Sodium, Total	200	mg/kg	86.	1 6010B	0308 15:00	0309 07:44	RW
Thallium, Total	ND	mg/kg	0.43	1 6010B	0308 15:00	0309 07:44	RW
Vanadium, Total	7.8	mg/kg	0.43	1 6010B	0308 15:00	0309 07:44	RW
Zinc, Total	20.	mg/kg	2.2	1 6010B	0308 15:00	0309 07:44	RW
Volatile Organics by GC/MS 8260				1 8260B		0309 15:50	BT
Methylene chloride	ND	ug/kg	210				
1,1-Dichloroethane	ND	ug/kg	32.				
Chloroform	ND	ug/kg	32.				
Carbon tetrachloride	ND	ug/kg	21.				
1,2-Dichloropropane	ND	ug/kg	74.				
Dibromochloromethane	ND	ug/kg	21.				
1,1,2-Trichloroethane	ND	ug/kg	32.				
Tetrachloroethene	ND	ug/kg	21.				
Chlorobenzene	ND	ug/kg	21.				
Trichlorofluoromethane	ND	ug/kg	100				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-09  
 MW/CB-19 (8'-10')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 15:50		BT
1,2-Dichloroethane	ND	ug/kg	21.				
1,1,1-Trichloroethane	ND	ug/kg	21.				
Bromodichloromethane	ND	ug/kg	21.				
trans-1,3-Dichloropropene	ND	ug/kg	21.				
cis-1,3-Dichloropropene	ND	ug/kg	21.				
1,1-Dichloropropene	ND	ug/kg	100				
Bromoform	ND	ug/kg	84.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	21.				
Benzene	ND	ug/kg	21.				
Toluene	ND	ug/kg	32.				
Ethylbenzene	ND	ug/kg	21.				
Chloromethane	ND	ug/kg	100				
Bromomethane	ND	ug/kg	42.				
Vinyl chloride	ND	ug/kg	42.				
Chloroethane	ND	ug/kg	42.				
1,1-Dichloroethene	ND	ug/kg	21.				
trans-1,2-Dichloroethene	ND	ug/kg	32.				
Trichloroethene	ND	ug/kg	21.				
1,2-Dichlorobenzene	ND	ug/kg	100				
1,3-Dichlorobenzene	ND	ug/kg	100				
1,4-Dichlorobenzene	ND	ug/kg	100				
Methyl tert butyl ether	ND	ug/kg	42.				
p/m-Xylene	ND	ug/kg	21.				
o-Xylene	ND	ug/kg	21.				
cis-1,2-Dichloroethene	ND	ug/kg	21.				
Dibromomethane	ND	ug/kg	210				
1,4-Dichlorobutane	ND	ug/kg	210				
Iodomethane	ND	ug/kg	210				
1,2,3-Trichloropropane	ND	ug/kg	210				
Styrene	ND	ug/kg	21.				
Dichlorodifluoromethane	ND	ug/kg	210				
Acetone	ND	ug/kg	210				
Carbon disulfide	ND	ug/kg	210				
2-Butanone	ND	ug/kg	210				
Vinyl acetate	ND	ug/kg	210				
4-Methyl-2-pentanone	ND	ug/kg	210				
2-Hexanone	ND	ug/kg	210				
Ethyl methacrylate	ND	ug/kg	210				
Acrolein	ND	ug/kg	530				
Acrylonitrile	ND	ug/kg	210				
Bromochloromethane	ND	ug/kg	100				
Tetrahydrofuran	ND	ug/kg	420				
2,2-Dichloropropane	ND	ug/kg	100				
1,2-Dibromoethane	ND	ug/kg	84.				
1,3-Dichloropropane	ND	ug/kg	100				
1,1,1,2-Tetrachloroethane	ND	ug/kg	21.				
Bromobenzene	ND	ug/kg	100				
n-Butylbenzene	ND	ug/kg	21.				
sec-Butylbenzene	ND	ug/kg	21.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-09  
MW/CB-19 (8'-10')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0309	15:50 BT
tert-Butylbenzene	ND	ug/kg	100				
o-Chlorotoluene	ND	ug/kg	100				
p-Chlorotoluene	ND	ug/kg	100				
1,2-Dibromo-3-chloropropane	ND	ug/kg	100				
Hexachlorobutadiene	ND	ug/kg	100				
Isopropylbenzene	ND	ug/kg	21.				
p-Isopropyltoluene	ND	ug/kg	21.				
Naphthalene	ND	ug/kg	100				
n-Propylbenzene	ND	ug/kg	21.				
1,2,3-Trichlorobenzene	ND	ug/kg	100				
1,2,4-Trichlorobenzene	ND	ug/kg	100				
1,3,5-Trimethylbenzene	ND	ug/kg	100				
1,2,4-Trimethylbenzene	ND	ug/kg	100				
trans-1,4-Dichloro-2-butene	ND	ug/kg	100				
Ethyl ether	ND	ug/kg	100				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	108.	%					
Toluene-d8	95.0	%					
4-Bromofluorobenzene	89.0	%					
Dibromofluoromethane	99.0	%					
SVOC's by GC/MS 8270				1	8270C	0308	11:15 0309 19:51 HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	550				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-09  
 MW/CB-19 (8'-10')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 19:51	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	220	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	1400	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	290				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	730				
Pentachlorobenzene	ND	ug/kg	730				
a-Naphthylamine	ND	ug/kg	730				
b-Naphthylamine	ND	ug/kg	730				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	730				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	730				
3-Methylcholanthrene	ND	ug/kg	730				
Ethyl Methanesulfonate	ND	ug/kg	550				
Acetophenone	ND	ug/kg	730				
Nitrosodipiperidine	ND	ug/kg	730				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-09  
 MW/CB-19 (8'-10')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 19:51	HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	730				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	730				
4,6-Dinitro-o-cresol	ND	ug/kg	730				
Pentachlorophenol	ND	ug/kg	730				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	730				
Pronamide	ND	ug/kg	730				
Methyl methanesulfonate	ND	ug/kg	730				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	71.0	%	25-120				
Phenol-d6	80.0	%	10-120				
Nitrobenzene-d5	72.0	%	23-120				
2-Fluorobiphenyl	81.0	%	30-120				
2,4,6-Tribromophenol	69.0	%	19-120				
4-Terphenyl-d14	80.0	%	18-120				
PAH by GC/MS SIM 8270M				1 8270C-M	0308 11:15	0310 20:30	RL
Acenaphthene	370	ug/kg	73.				
2-Chloronaphthalene	ND	ug/kg	73.				
Fluoranthene	ND	ug/kg	73.				
Hexachlorobutadiene	ND	ug/kg	180				
Naphthalene	ND	ug/kg	73.				
Benzo(a)anthracene	ND	ug/kg	73.				
Benzo(a)pyrene	ND	ug/kg	73.				
Benzo(b)fluoranthene	ND	ug/kg	73.				
Benzo(k)fluoranthene	ND	ug/kg	73.				
Chrysene	ND	ug/kg	73.				
Acenaphthylene	ND	ug/kg	73.				
Anthracene	ND	ug/kg	73.				
Benzo(ghi)perylene	ND	ug/kg	73.				
Fluorene	860	ug/kg	73.				
Phenanthrene	1500	ug/kg	73.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-09  
 MW/CB-19 (8'-10')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:15	0310 20:30 RL
Dibenzo(a,h)anthracene	ND	ug/kg	73.				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	73.				
Pyrene	210	ug/kg	73.				
1-Methylnaphthalene	550	ug/kg	73.				
2-Methylnaphthalene	ND	ug/kg	73.				
Pentachlorophenol	ND	ug/kg	290				
Hexachlorobenzene	ND	ug/kg	290				
Perylene	ND	ug/kg	73.				
Biphenyl	ND	ug/kg	73.				
2,6-Dimethylnaphthalene	3100	ug/kg	73.				
1-Methylphenanthrene	1100	ug/kg	73.				
Benzo(e)Pyrene	ND	ug/kg	73.				
Hexachloroethane	ND	ug/kg	290				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	80.0	%	25-120				
Phenol-d6	102.	%	10-120				
Nitrobenzene-d5	80.0	%	23-120				
2-Fluorobiphenyl	87.0	%	30-120				
2,4,6-Tribromophenol	103.	%	19-120				
4-Terphenyl-d14	92.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0308 12:15	0310 00:15 JB
Aroclor 1221	ND	ug/kg	36.6				
Aroclor 1232	ND	ug/kg	36.6				
Aroclor 1242/1016	ND	ug/kg	36.6				
Aroclor 1248	ND	ug/kg	36.6				
Aroclor 1254	ND	ug/kg	36.6				
Aroclor 1260	ND	ug/kg	36.6				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	84.0	%	30-150				
Decachlorobiphenyl	105.	%	30-150				
Organochlorine Pesticides				1	8081	0308 13:20	0310 20:06 BW
Delta-BHC	ND	ug/kg	3.66				
Lindane	ND	ug/kg	3.66				
Alpha-BHC	ND	ug/kg	3.66				
Beta-BHC	ND	ug/kg	3.66				
Heptachlor	ND	ug/kg	3.66				
Aldrin	ND	ug/kg	3.66				
Heptachlor epoxide	ND	ug/kg	3.66				
Endrin	ND	ug/kg	3.66				
Endrin aldehyde	ND	ug/kg	3.66				
Endrin ketone	ND	ug/kg	3.66				
Dieldrin	ND	ug/kg	3.66				
4,4'-DDE	ND	ug/kg	3.66				
4,4'-DDD	ND	ug/kg	3.66				
4,4'-DDT	ND	ug/kg	3.66				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-09  
MW/CB-19 (8'-10')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0308 13:20	0310 20:06	BW
Endosulfan I	ND	ug/kg	3.66				
Endosulfan II	ND	ug/kg	3.66				
Endosulfan sulfate	ND	ug/kg	3.66				
Methoxychlor	ND	ug/kg	3.66				
Toxaphene	ND	ug/kg	14.6				
Chlordane	ND	ug/kg	14.6				
cis-Chlordane	ND	ug/kg	3.66				
trans-Chlordane	ND	ug/kg	3.66				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	71.0	%		30-150			
Decachlorobiphenyl	92.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-10 Date Collected: 03-MAR-2005 09:45  
MW/CB-20 (1'-2') Date Received : 05-MAR-2005  
Sample Matrix: SOIL Date Reported : 14-MAR-2005

Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	88.	%	0.10	30 2540G		0309 16:15	JS
Volatile Organics by GC/MS 8260				1 8260B		0309 16:28	BT
Methylene chloride	ND	ug/kg	28.				
1,1-Dichloroethane	ND	ug/kg	4.2				
Chloroform	ND	ug/kg	4.2				
Carbon tetrachloride	ND	ug/kg	2.8				
1,2-Dichloropropane	ND	ug/kg	9.8				
Dibromochloromethane	ND	ug/kg	2.8				
1,1,2-Trichloroethane	ND	ug/kg	4.2				
Tetrachloroethene	ND	ug/kg	2.8				
Chlorobenzene	ND	ug/kg	2.8				
Trichlorofluoromethane	ND	ug/kg	14.				
1,2-Dichloroethane	ND	ug/kg	2.8				
1,1,1-Trichloroethane	ND	ug/kg	2.8				
Bromodichloromethane	ND	ug/kg	2.8				
trans-1,3-Dichloropropene	ND	ug/kg	2.8				
cis-1,3-Dichloropropene	ND	ug/kg	2.8				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8				
Benzene	ND	ug/kg	2.8				
Toluene	ND	ug/kg	4.2				
Ethylbenzene	ND	ug/kg	2.8				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.6				
Vinyl chloride	ND	ug/kg	5.6				
Chloroethane	ND	ug/kg	5.6				
1,1-Dichloroethene	ND	ug/kg	2.8				
trans-1,2-Dichloroethene	ND	ug/kg	4.2				
Trichloroethene	ND	ug/kg	2.8				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.6				
p/m-Xylene	ND	ug/kg	2.8				
o-Xylene	ND	ug/kg	2.8				
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-10  
 MW/CB-20 (1'-2')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0309 16:28 BT	
1,4-Dichlorobutane	ND	ug/kg	28.				
Iodomethane	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
Styrene	ND	ug/kg	2.8				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Ethyl methacrylate	ND	ug/kg	28.				
Acrolein	ND	ug/kg	70.				
Acrylonitrile	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	56.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	101.	%					
Dibromofluoromethane	97.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-11 Date Collected: 03-MAR-2005 10:00  
 MW/CB-20 (18'-20') Date Received : 05-MAR-2005  
 Sample Matrix: SOIL Date Reported : 14-MAR-2005  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	91.	%	0.10	30 2540G		0307 21:06	HG
Total Metals				1 3051			
Aluminum, Total	2900	mg/kg	4.4	1 6010B	0308 15:00	0309 07:47	RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0308 15:00	0309 07:47	RW
Arsenic, Total	1.1	mg/kg	0.44	1 6010B	0308 15:00	0309 07:47	RW
Barium, Total	19.	mg/kg	0.44	1 6010B	0308 15:00	0309 07:47	RW
Beryllium, Total	0.1133	mg/kg	0.1089	1 6010B	0308 15:00	0309 07:47	RW
Cadmium, Total	ND	mg/kg	0.1089	1 6010B	0308 15:00	0309 07:47	RW
Calcium, Total	440	mg/kg	4.4	1 6010B	0308 15:00	0309 07:47	RW
Chromium, Total	6.8	mg/kg	0.44	1 6010B	0308 15:00	0309 07:47	RW
Cobalt, Total	2.8	mg/kg	0.87	1 6010B	0308 15:00	0309 07:47	RW
Copper, Total	11.	mg/kg	0.44	1 6010B	0308 15:00	0309 07:47	RW
Iron, Total	5500	mg/kg	2.2	1 6010B	0308 15:00	0309 07:47	RW
Lead, Total	4.7	mg/kg	2.2	1 6010B	0308 15:00	0309 07:47	RW
Magnesium, Total	910	mg/kg	4.4	1 6010B	0308 15:00	0309 07:47	RW
Manganese, Total	190	mg/kg	0.44	1 6010B	0308 15:00	0309 07:47	RW
Mercury, Total	ND	mg/kg	0.08	1 7471A	0309 20:15	0310 12:28	DM
Nickel, Total	5.7	mg/kg	0.44	1 6010B	0308 15:00	0309 07:47	RW
Potassium, Total	230	mg/kg	110	1 6010B	0308 15:00	0309 07:47	RW
Selenium, Total	ND	mg/kg	0.218	1 6010B	0308 15:00	0309 07:47	RW
Silver, Total	ND	mg/kg	0.44	1 6010B	0308 15:00	0309 07:47	RW
Sodium, Total	110	mg/kg	87.	1 6010B	0308 15:00	0309 07:47	RW
Thallium, Total	ND	mg/kg	0.44	1 6010B	0308 15:00	0309 07:47	RW
Vanadium, Total	7.8	mg/kg	0.44	1 6010B	0308 15:00	0309 07:47	RW
Zinc, Total	9.1	mg/kg	2.2	1 6010B	0308 15:00	0309 07:47	RW
Volatile Organics by GC/MS 8260				1 8260B		0309 17:06	BT
Methylene chloride	ND	ug/kg	27.				
1,1-Dichloroethane	ND	ug/kg	4.1				
Chloroform	ND	ug/kg	4.1				
Carbon tetrachloride	ND	ug/kg	2.7				
1,2-Dichloropropane	ND	ug/kg	9.6				
Dibromochloromethane	ND	ug/kg	2.7				
1,1,2-Trichloroethane	ND	ug/kg	4.1				
Tetrachloroethene	ND	ug/kg	2.7				
Chlorobenzene	ND	ug/kg	2.7				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-11  
 MW/CB-20 (18'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 17:06		BT
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.5				
Vinyl chloride	ND	ug/kg	5.5				
Chloroethane	ND	ug/kg	5.5				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.5				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	69.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	55.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-11  
MW/CB-20 (18'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 17:06		BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	101.	%					
Toluene-d8	95.0	%					
4-Bromofluorobenzene	95.0	%					
Dibromofluoromethane	96.0	%					
SVOC's by GC/MS 8270				1 8270C	0308 11:15 0309 20:17		HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	550				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-11  
MW/CB-20 (18'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 20:17	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	290				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	730				
Pentachlorobenzene	ND	ug/kg	730				
a-Naphthylamine	ND	ug/kg	730				
b-Naphthylamine	ND	ug/kg	730				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	730				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	730				
3-Methylcholanthrene	ND	ug/kg	730				
Ethyl Methanesulfonate	ND	ug/kg	550				
Acetophenone	ND	ug/kg	730				
Nitrosodipiperidine	ND	ug/kg	730				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-11  
 MW/CB-20 (18'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0308 11:15	0309 20:17 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	730				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	730				
4,6-Dinitro-o-cresol	ND	ug/kg	730				
Pentachlorophenol	ND	ug/kg	730				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	730				
Pronamide	ND	ug/kg	730				
Methyl methanesulfonate	ND	ug/kg	730				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	63.0	%	25-120				
Phenol-d6	71.0	%	10-120				
Nitrobenzene-d5	62.0	%	23-120				
2-Fluorobiphenyl	60.0	%	30-120				
2,4,6-Tribromophenol	74.0	%	19-120				
4-Terphenyl-d14	85.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0308 11:15	0310 17:35 RL
Acenaphthene	ND	ug/kg	7.3				
2-Chloronaphthalene	ND	ug/kg	7.3				
Fluoranthene	ND	ug/kg	7.3				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.3				
Benzo(a)anthracene	ND	ug/kg	7.3				
Benzo(a)pyrene	ND	ug/kg	7.3				
Benzo(b)fluoranthene	ND	ug/kg	7.3				
Benzo(k)fluoranthene	ND	ug/kg	7.3				
Chrysene	ND	ug/kg	7.3				
Acenaphthylene	ND	ug/kg	7.3				
Anthracene	ND	ug/kg	7.3				
Benzo(ghi)perylene	ND	ug/kg	7.3				
Fluorene	ND	ug/kg	7.3				
Phenanthrene	ND	ug/kg	7.3				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-11  
 MW/CB-20 (18'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:15	0310 17:35 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.3				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.3				
Pyrene	ND	ug/kg	7.3				
1-Methylnaphthalene	ND	ug/kg	7.3				
2-Methylnaphthalene	ND	ug/kg	7.3				
Pentachlorophenol	ND	ug/kg	29.				
Hexachlorobenzene	ND	ug/kg	29.				
Perylene	ND	ug/kg	7.3				
Biphenyl	ND	ug/kg	7.3				
2,6-Dimethylnaphthalene	ND	ug/kg	7.3				
1-Methylphenanthrene	ND	ug/kg	7.3				
Benzo(e)Pyrene	ND	ug/kg	7.3				
Hexachloroethane	ND	ug/kg	29.				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	57.0	%					25-120
Phenol-d6	74.0	%					10-120
Nitrobenzene-d5	63.0	%					23-120
2-Fluorobiphenyl	53.0	%					30-120
2,4,6-Tribromophenol	81.0	%					19-120
4-Terphenyl-d14	69.0	%					18-120
Polychlorinated Biphenyls				1	8082	0308 12:15	0310 00:43 JB
Aroclor 1221	ND	ug/kg	36.6				
Aroclor 1232	ND	ug/kg	36.6				
Aroclor 1242/1016	ND	ug/kg	36.6				
Aroclor 1248	ND	ug/kg	36.6				
Aroclor 1254	ND	ug/kg	36.6				
Aroclor 1260	ND	ug/kg	36.6				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	79.0	%					30-150
Decachlorobiphenyl	85.0	%					30-150
Organochlorine Pesticides				1	8081	0308 13:20	0310 20:34 BW
Delta-BHC	ND	ug/kg	3.66				
Lindane	ND	ug/kg	3.66				
Alpha-BHC	ND	ug/kg	3.66				
Beta-BHC	ND	ug/kg	3.66				
Heptachlor	ND	ug/kg	3.66				
Aldrin	ND	ug/kg	3.66				
Heptachlor epoxide	ND	ug/kg	3.66				
Endrin	ND	ug/kg	3.66				
Endrin aldehyde	ND	ug/kg	3.66				
Endrin ketone	ND	ug/kg	3.66				
Dieldrin	ND	ug/kg	3.66				
4,4'-DDE	ND	ug/kg	3.66				
4,4'-DDD	ND	ug/kg	3.66				
4,4'-DDT	ND	ug/kg	3.66				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-11  
MW/CB-20 (18'-20')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0308 13:20	0310 20:34	BW
Endosulfan I	ND	ug/kg	3.66				
Endosulfan II	ND	ug/kg	3.66				
Endosulfan sulfate	ND	ug/kg	3.66				
Methoxychlor	ND	ug/kg	3.66				
Toxaphene	ND	ug/kg	14.6				
Chlordane	ND	ug/kg	14.6				
cis-Chlordane	ND	ug/kg	3.66				
trans-Chlordane	ND	ug/kg	3.66				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	53.0	%		30-150			
Decachlorobiphenyl	58.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0502261-12	<b>Date Collected:</b> 03-MAR-2005 13:30
MW/CB-21 (16'-18')	<b>Date Received :</b> 05-MAR-2005
<b>Sample Matrix:</b> SOIL	<b>Date Reported :</b> 14-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Amber,1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	90.	%	0.10	30 2540G		0307 21:06	HG
Total Metals				1 3051			
Aluminum, Total	4300	mg/kg	4.4	1 6010B	0308 15:00	0309 07:50	RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0308 15:00	0309 07:50	RW
Arsenic, Total	2.1	mg/kg	0.44	1 6010B	0308 15:00	0309 07:50	RW
Barium, Total	26.	mg/kg	0.44	1 6010B	0308 15:00	0309 07:50	RW
Beryllium, Total	0.1567	mg/kg	0.1094	1 6010B	0308 15:00	0309 07:50	RW
Cadmium, Total	ND	mg/kg	0.1094	1 6010B	0308 15:00	0309 07:50	RW
Calcium, Total	930	mg/kg	4.4	1 6010B	0308 15:00	0309 07:50	RW
Chromium, Total	7.1	mg/kg	0.44	1 6010B	0308 15:00	0309 07:50	RW
Cobalt, Total	4.3	mg/kg	0.88	1 6010B	0308 15:00	0309 07:50	RW
Copper, Total	11.	mg/kg	0.44	1 6010B	0308 15:00	0309 07:50	RW
Iron, Total	9700	mg/kg	2.2	1 6010B	0308 15:00	0309 07:50	RW
Lead, Total	6.1	mg/kg	2.2	1 6010B	0308 15:00	0309 07:50	RW
Magnesium, Total	1600	mg/kg	4.4	1 6010B	0308 15:00	0309 07:50	RW
Manganese, Total	310	mg/kg	0.44	1 6010B	0308 15:00	0309 07:50	RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0309 20:15	0310 12:29	DM
Nickel, Total	8.5	mg/kg	0.44	1 6010B	0308 15:00	0309 07:50	RW
Potassium, Total	390	mg/kg	110	1 6010B	0308 15:00	0309 07:50	RW
Selenium, Total	0.246	mg/kg	0.219	1 6010B	0308 15:00	0309 07:50	RW
Silver, Total	ND	mg/kg	0.44	1 6010B	0308 15:00	0309 07:50	RW
Sodium, Total	ND	mg/kg	88.	1 6010B	0308 15:00	0309 07:50	RW
Thallium, Total	ND	mg/kg	0.44	1 6010B	0308 15:00	0309 07:50	RW
Vanadium, Total	8.5	mg/kg	0.44	1 6010B	0308 15:00	0309 07:50	RW
Zinc, Total	24.	mg/kg	2.2	1 6010B	0308 15:00	0309 07:50	RW
Volatile Organics by GC/MS 8260				1 8260B		0309 17:44	BT
Methylene chloride	ND	ug/kg	27.				
1,1-Dichloroethane	ND	ug/kg	4.1				
Chloroform	ND	ug/kg	4.1				
Carbon tetrachloride	ND	ug/kg	2.7				
1,2-Dichloropropane	ND	ug/kg	9.6				
Dibromochloromethane	ND	ug/kg	2.7				
1,1,2-Trichloroethane	ND	ug/kg	4.1				
Tetrachloroethene	ND	ug/kg	2.7				
Chlorobenzene	ND	ug/kg	2.7				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-12  
 MW/CB-21 (16'-18')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 17:44		BT
1,2-Dichloroethane	ND	ug/kg	2.7				
1,1,1-Trichloroethane	ND	ug/kg	2.7				
Bromodichloromethane	ND	ug/kg	2.7				
trans-1,3-Dichloropropene	ND	ug/kg	2.7				
cis-1,3-Dichloropropene	ND	ug/kg	2.7				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7				
Benzene	ND	ug/kg	2.7				
Toluene	ND	ug/kg	4.1				
Ethylbenzene	ND	ug/kg	2.7				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.5				
Vinyl chloride	ND	ug/kg	5.5				
Chloroethane	ND	ug/kg	5.5				
1,1-Dichloroethene	ND	ug/kg	2.7				
trans-1,2-Dichloroethene	ND	ug/kg	4.1				
Trichloroethene	ND	ug/kg	2.7				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.5				
p/m-Xylene	ND	ug/kg	2.7				
o-Xylene	ND	ug/kg	2.7				
cis-1,2-Dichloroethene	ND	ug/kg	2.7				
Dibromomethane	ND	ug/kg	27.				
1,4-Dichlorobutane	ND	ug/kg	27.				
Iodomethane	ND	ug/kg	27.				
1,2,3-Trichloropropane	ND	ug/kg	27.				
Styrene	ND	ug/kg	2.7				
Dichlorodifluoromethane	ND	ug/kg	27.				
Acetone	ND	ug/kg	27.				
Carbon disulfide	ND	ug/kg	27.				
2-Butanone	ND	ug/kg	27.				
Vinyl acetate	ND	ug/kg	27.				
4-Methyl-2-pentanone	ND	ug/kg	27.				
2-Hexanone	ND	ug/kg	27.				
Ethyl methacrylate	ND	ug/kg	27.				
Acrolein	ND	ug/kg	68.				
Acrylonitrile	ND	ug/kg	27.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	55.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.7				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.7				
sec-Butylbenzene	ND	ug/kg	2.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-12  
 MW/CB-21 (16'-18')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 17:44		BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.7				
p-Isopropyltoluene	ND	ug/kg	2.7				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.7				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	100.	%					
Dibromofluoromethane	97.0	%					
SVOC's by GC/MS 8270				1 8270C	0308 11:15 0309 20:42		HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	560				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-12  
MW/CB-21 (16'-18')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:15	0309 20:42	HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	ND	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	300				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	740				
Pentachlorobenzene	ND	ug/kg	740				
a-Naphthylamine	ND	ug/kg	740				
b-Naphthylamine	ND	ug/kg	740				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	740				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	740				
3-Methylcholanthrene	ND	ug/kg	740				
Ethyl Methanesulfonate	ND	ug/kg	560				
Acetophenone	ND	ug/kg	740				
Nitrosodipiperidine	ND	ug/kg	740				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-12  
 MW/CB-21 (16'-18')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0308 11:15	0309 20:42 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	740				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	740				
4,6-Dinitro-o-cresol	ND	ug/kg	740				
Pentachlorophenol	ND	ug/kg	740				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	740				
Pronamide	ND	ug/kg	740				
Methyl methanesulfonate	ND	ug/kg	740				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	62.0	%	25-120				
Phenol-d6	68.0	%	10-120				
Nitrobenzene-d5	59.0	%	23-120				
2-Fluorobiphenyl	56.0	%	30-120				
2,4,6-Tribromophenol	76.0	%	19-120				
4-Terphenyl-d14	84.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0308 11:15	0310 18:19 RL
Acenaphthene	ND	ug/kg	7.4				
2-Chloronaphthalene	ND	ug/kg	7.4				
Fluoranthene	ND	ug/kg	7.4				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.4				
Benzo(a)anthracene	ND	ug/kg	7.4				
Benzo(a)pyrene	ND	ug/kg	7.4				
Benzo(b)fluoranthene	ND	ug/kg	7.4				
Benzo(k)fluoranthene	ND	ug/kg	7.4				
Chrysene	ND	ug/kg	7.4				
Acenaphthylene	ND	ug/kg	7.4				
Anthracene	ND	ug/kg	7.4				
Benzo(ghi)perylene	ND	ug/kg	7.4				
Fluorene	ND	ug/kg	7.4				
Phenanthrene	ND	ug/kg	7.4				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-12  
 MW/CB-21 (16'-18')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:15	0310 18:19 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.4				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.4				
Pyrene	ND	ug/kg	7.4				
1-Methylnaphthalene	ND	ug/kg	7.4				
2-Methylnaphthalene	ND	ug/kg	7.4				
Pentachlorophenol	ND	ug/kg	30.				
Hexachlorobenzene	ND	ug/kg	30.				
Perylene	ND	ug/kg	7.4				
Biphenyl	ND	ug/kg	7.4				
2,6-Dimethylnaphthalene	ND	ug/kg	7.4				
1-Methylphenanthrene	ND	ug/kg	7.4				
Benzo(e)Pyrene	ND	ug/kg	7.4				
Hexachloroethane	ND	ug/kg	30.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	55.0	%	25-120				
Phenol-d6	72.0	%	10-120				
Nitrobenzene-d5	59.0	%	23-120				
2-Fluorobiphenyl	50.0	%	30-120				
2,4,6-Tribromophenol	81.0	%	19-120				
4-Terphenyl-d14	60.0	%	18-120				
Polychlorinated Biphenyls				1	8082	0308 12:15	0310 01:12 JB
Aroclor 1221	ND	ug/kg	37.0				
Aroclor 1232	ND	ug/kg	37.0				
Aroclor 1242/1016	ND	ug/kg	37.0				
Aroclor 1248	ND	ug/kg	37.0				
Aroclor 1254	ND	ug/kg	37.0				
Aroclor 1260	ND	ug/kg	37.0				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	81.0	%	30-150				
Decachlorobiphenyl	88.0	%	30-150				
Organochlorine Pesticides				1	8081	0308 13:20	0310 21:02 BW
Delta-BHC	ND	ug/kg	3.70				
Lindane	ND	ug/kg	3.70				
Alpha-BHC	ND	ug/kg	3.70				
Beta-BHC	ND	ug/kg	3.70				
Heptachlor	ND	ug/kg	3.70				
Aldrin	ND	ug/kg	3.70				
Heptachlor epoxide	ND	ug/kg	3.70				
Endrin	ND	ug/kg	3.70				
Endrin aldehyde	ND	ug/kg	3.70				
Endrin ketone	ND	ug/kg	3.70				
Dieldrin	ND	ug/kg	3.70				
4,4'-DDE	ND	ug/kg	3.70				
4,4'-DDD	ND	ug/kg	3.70				
4,4'-DDT	ND	ug/kg	3.70				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-12  
MW/CB-21 (16'-18')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0308 13:20	0310 21:02	BW
Endosulfan I	ND	ug/kg	3.70				
Endosulfan II	ND	ug/kg	3.70				
Endosulfan sulfate	ND	ug/kg	3.70				
Methoxychlor	ND	ug/kg	3.70				
Toxaphene	ND	ug/kg	14.8				
Chlordane	ND	ug/kg	14.8				
cis-Chlordane	ND	ug/kg	3.70				
trans-Chlordane	ND	ug/kg	3.70				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	60.0	%		30-150			
Decachlorobiphenyl	72.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-13	Date Collected: 04-MAR-2005 10:40
MW/CB-22 (12'-14')	Date Received : 05-MAR-2005
Sample Matrix: SOIL	Date Reported : 14-MAR-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Amber,1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	90.	%	0.10	30 2540G		0307 21:06	HG
Total Metals				1 3051			
Aluminum, Total	4000	mg/kg	4.4	1 6010B	0308 15:00	0309 07:52	RW
Antimony, Total	ND	mg/kg	2.2	1 6010B	0308 15:00	0309 07:52	RW
Arsenic, Total	3.0	mg/kg	0.44	1 6010B	0308 15:00	0309 07:52	RW
Barium, Total	30.	mg/kg	0.44	1 6010B	0308 15:00	0309 07:52	RW
Beryllium, Total	0.1364	mg/kg	0.1097	1 6010B	0308 15:00	0309 07:52	RW
Cadmium, Total	ND	mg/kg	0.1097	1 6010B	0308 15:00	0309 07:52	RW
Calcium, Total	1100	mg/kg	4.4	1 6010B	0308 15:00	0309 07:52	RW
Chromium, Total	5.9	mg/kg	0.44	1 6010B	0308 15:00	0309 07:52	RW
Cobalt, Total	4.2	mg/kg	0.88	1 6010B	0308 15:00	0309 07:52	RW
Copper, Total	11.	mg/kg	0.44	1 6010B	0308 15:00	0309 07:52	RW
Iron, Total	8800	mg/kg	2.2	1 6010B	0308 15:00	0309 07:52	RW
Lead, Total	9.3	mg/kg	2.2	1 6010B	0308 15:00	0309 07:52	RW
Magnesium, Total	1500	mg/kg	4.4	1 6010B	0308 15:00	0309 07:52	RW
Manganese, Total	300	mg/kg	0.44	1 6010B	0308 15:00	0309 07:52	RW
Mercury, Total	ND	mg/kg	0.09	1 7471A	0309 20:15	0310 12:31	DM
Nickel, Total	7.8	mg/kg	0.44	1 6010B	0308 15:00	0309 07:52	RW
Potassium, Total	390	mg/kg	110	1 6010B	0308 15:00	0309 07:52	RW
Selenium, Total	0.235	mg/kg	0.219	1 6010B	0308 15:00	0309 07:52	RW
Silver, Total	ND	mg/kg	0.44	1 6010B	0308 15:00	0309 07:52	RW
Sodium, Total	ND	mg/kg	88.	1 6010B	0308 15:00	0309 07:52	RW
Thallium, Total	ND	mg/kg	0.44	1 6010B	0308 15:00	0309 07:52	RW
Vanadium, Total	7.8	mg/kg	0.44	1 6010B	0308 15:00	0309 07:52	RW
Zinc, Total	24.	mg/kg	2.2	1 6010B	0308 15:00	0309 07:52	RW
Volatile Organics by GC/MS 8260				1 8260B		0309 18:22	BT
Methylene chloride	ND	ug/kg	28.				
1,1-Dichloroethane	ND	ug/kg	4.2				
Chloroform	ND	ug/kg	4.2				
Carbon tetrachloride	ND	ug/kg	2.8				
1,2-Dichloropropane	ND	ug/kg	9.7				
Dibromochloromethane	ND	ug/kg	2.8				
1,1,2-Trichloroethane	ND	ug/kg	4.2				
Tetrachloroethene	ND	ug/kg	2.8				
Chlorobenzene	ND	ug/kg	2.8				
Trichlorofluoromethane	ND	ug/kg	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-13  
 MW/CB-22 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 18:22		BT
1,2-Dichloroethane	ND	ug/kg	2.8				
1,1,1-Trichloroethane	ND	ug/kg	2.8				
Bromodichloromethane	ND	ug/kg	2.8				
trans-1,3-Dichloropropene	ND	ug/kg	2.8				
cis-1,3-Dichloropropene	ND	ug/kg	2.8				
1,1-Dichloropropene	ND	ug/kg	14.				
Bromoform	ND	ug/kg	11.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.8				
Benzene	ND	ug/kg	2.8				
Toluene	ND	ug/kg	4.2				
Ethylbenzene	ND	ug/kg	2.8				
Chloromethane	ND	ug/kg	14.				
Bromomethane	ND	ug/kg	5.6				
Vinyl chloride	ND	ug/kg	5.6				
Chloroethane	ND	ug/kg	5.6				
1,1-Dichloroethene	ND	ug/kg	2.8				
trans-1,2-Dichloroethene	ND	ug/kg	4.2				
Trichloroethene	ND	ug/kg	2.8				
1,2-Dichlorobenzene	ND	ug/kg	14.				
1,3-Dichlorobenzene	ND	ug/kg	14.				
1,4-Dichlorobenzene	ND	ug/kg	14.				
Methyl tert butyl ether	ND	ug/kg	5.6				
p/m-Xylene	ND	ug/kg	2.8				
o-Xylene	ND	ug/kg	2.8				
cis-1,2-Dichloroethene	ND	ug/kg	2.8				
Dibromomethane	ND	ug/kg	28.				
1,4-Dichlorobutane	ND	ug/kg	28.				
Iodomethane	ND	ug/kg	28.				
1,2,3-Trichloropropane	ND	ug/kg	28.				
Styrene	ND	ug/kg	2.8				
Dichlorodifluoromethane	ND	ug/kg	28.				
Acetone	ND	ug/kg	28.				
Carbon disulfide	ND	ug/kg	28.				
2-Butanone	ND	ug/kg	28.				
Vinyl acetate	ND	ug/kg	28.				
4-Methyl-2-pentanone	ND	ug/kg	28.				
2-Hexanone	ND	ug/kg	28.				
Ethyl methacrylate	ND	ug/kg	28.				
Acrolein	ND	ug/kg	69.				
Acrylonitrile	ND	ug/kg	28.				
Bromochloromethane	ND	ug/kg	14.				
Tetrahydrofuran	ND	ug/kg	56.				
2,2-Dichloropropane	ND	ug/kg	14.				
1,2-Dibromoethane	ND	ug/kg	11.				
1,3-Dichloropropane	ND	ug/kg	14.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.8				
Bromobenzene	ND	ug/kg	14.				
n-Butylbenzene	ND	ug/kg	2.8				
sec-Butylbenzene	ND	ug/kg	2.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-13  
MW/CB-22 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0309	18:22 BT
tert-Butylbenzene	ND	ug/kg	14.				
o-Chlorotoluene	ND	ug/kg	14.				
p-Chlorotoluene	ND	ug/kg	14.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	14.				
Hexachlorobutadiene	ND	ug/kg	14.				
Isopropylbenzene	ND	ug/kg	2.8				
p-Isopropyltoluene	ND	ug/kg	2.8				
Naphthalene	ND	ug/kg	14.				
n-Propylbenzene	ND	ug/kg	2.8				
1,2,3-Trichlorobenzene	ND	ug/kg	14.				
1,2,4-Trichlorobenzene	ND	ug/kg	14.				
1,3,5-Trimethylbenzene	ND	ug/kg	14.				
1,2,4-Trimethylbenzene	ND	ug/kg	14.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	14.				
Ethyl ether	ND	ug/kg	14.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	106.	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	98.0	%					
Dibromofluoromethane	99.0	%					
SVOC's by GC/MS 8270				1	8270C	0308	11:15 0309 21:08 HL
Acenaphthene	ND	ug/kg	180				
Benzidine	ND	ug/kg	1800				
1,2,4-Trichlorobenzene	ND	ug/kg	180				
Hexachlorobenzene	ND	ug/kg	180				
Bis(2-chloroethyl)ether	ND	ug/kg	180				
1-Chloronaphthalene	ND	ug/kg	180				
2-Chloronaphthalene	ND	ug/kg	220				
1,2-Dichlorobenzene	ND	ug/kg	180				
1,3-Dichlorobenzene	ND	ug/kg	180				
1,4-Dichlorobenzene	ND	ug/kg	180				
3,3'-Dichlorobenzidine	ND	ug/kg	1800				
2,4-Dinitrotoluene	ND	ug/kg	220				
2,6-Dinitrotoluene	ND	ug/kg	180				
Azobenzene	ND	ug/kg	180				
Fluoranthene	ND	ug/kg	180				
4-Chlorophenyl phenyl ether	ND	ug/kg	180				
4-Bromophenyl phenyl ether	ND	ug/kg	180				
Bis(2-chloroisopropyl)ether	ND	ug/kg	180				
Bis(2-chloroethoxy)methane	ND	ug/kg	180				
Hexachlorobutadiene	ND	ug/kg	370				
Hexachlorocyclopentadiene	ND	ug/kg	370				
Hexachloroethane	ND	ug/kg	180				
Isophorone	ND	ug/kg	180				
Naphthalene	ND	ug/kg	180				
Nitrobenzene	ND	ug/kg	180				
NDPA/DPA	ND	ug/kg	560				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-13  
 MW/CB-22 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0308 11:15	0309 21:08 HL
n-Nitrosodi-n-propylamine	ND	ug/kg	180				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	370				
Butyl benzyl phthalate	220	ug/kg	180				
Di-n-butylphthalate	ND	ug/kg	180				
Di-n-octylphthalate	ND	ug/kg	180				
Diethyl phthalate	ND	ug/kg	180				
Dimethyl phthalate	ND	ug/kg	180				
Benzo(a)anthracene	ND	ug/kg	180				
Benzo(a)pyrene	ND	ug/kg	180				
Benzo(b)fluoranthene	ND	ug/kg	180				
Benzo(k)fluoranthene	ND	ug/kg	180				
Chrysene	ND	ug/kg	180				
Acenaphthylene	ND	ug/kg	180				
Anthracene	ND	ug/kg	180				
Benzo(ghi)perylene	ND	ug/kg	180				
Fluorene	ND	ug/kg	180				
Phenanthrene	ND	ug/kg	180				
Dibenzo(a,h)anthracene	ND	ug/kg	180				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180				
Pyrene	ND	ug/kg	180				
Benzo(e)pyrene	ND	ug/kg	180				
Biphenyl	ND	ug/kg	180				
Perylene	ND	ug/kg	180				
Aniline	ND	ug/kg	370				
4-Chloroaniline	ND	ug/kg	180				
1-Methylnaphthalene	ND	ug/kg	180				
2-Nitroaniline	ND	ug/kg	180				
3-Nitroaniline	ND	ug/kg	180				
4-Nitroaniline	ND	ug/kg	260				
Dibenzofuran	ND	ug/kg	180				
a,a-Dimethylphenethylamine	ND	ug/kg	1800				
Hexachloropropene	ND	ug/kg	370				
Nitrosodi-n-butylamine	ND	ug/kg	370				
2-Methylnaphthalene	ND	ug/kg	300				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	740				
Pentachlorobenzene	ND	ug/kg	740				
a-Naphthylamine	ND	ug/kg	740				
b-Naphthylamine	ND	ug/kg	740				
Phenacetin	ND	ug/kg	370				
Dimethoate	ND	ug/kg	740				
4-Aminobiphenyl	ND	ug/kg	370				
Pentachloronitrobenzene	ND	ug/kg	370				
Isodrin	ND	ug/kg	370				
p-Dimethylaminoazobenzene	ND	ug/kg	370				
Chlorobenzilate	ND	ug/kg	740				
3-Methylcholanthrene	ND	ug/kg	740				
Ethyl Methanesulfonate	ND	ug/kg	560				
Acetophenone	ND	ug/kg	740				
Nitrosodipiperidine	ND	ug/kg	740				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-13  
 MW/CB-22 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0308 11:15	0309 21:08 HL
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	370				
n-Nitrosodimethylamine	ND	ug/kg	1800				
2,4,6-Trichlorophenol	ND	ug/kg	180				
p-Chloro-m-cresol	ND	ug/kg	180				
2-Chlorophenol	ND	ug/kg	220				
2,4-Dichlorophenol	ND	ug/kg	370				
2,4-Dimethylphenol	ND	ug/kg	370				
2-Nitrophenol	ND	ug/kg	740				
4-Nitrophenol	ND	ug/kg	370				
2,4-Dinitrophenol	ND	ug/kg	740				
4,6-Dinitro-o-cresol	ND	ug/kg	740				
Pentachlorophenol	ND	ug/kg	740				
Phenol	ND	ug/kg	260				
2-Methylphenol	ND	ug/kg	220				
3-Methylphenol/4-Methylphenol	ND	ug/kg	220				
2,4,5-Trichlorophenol	ND	ug/kg	180				
2,6-Dichlorophenol	ND	ug/kg	370				
Benzoic Acid	ND	ug/kg	1800				
Benzyl Alcohol	ND	ug/kg	370				
Carbazole	ND	ug/kg	180				
Pyridine	ND	ug/kg	1800				
2-Picoline	ND	ug/kg	740				
Pronamide	ND	ug/kg	740				
Methyl methanesulfonate	ND	ug/kg	740				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	71.0	%	25-120				
Phenol-d6	79.0	%	10-120				
Nitrobenzene-d5	68.0	%	23-120				
2-Fluorobiphenyl	68.0	%	30-120				
2,4,6-Tribromophenol	80.0	%	19-120				
4-Terphenyl-d14	84.0	%	18-120				
PAH by GC/MS SIM 8270M				1	8270C-M	0308 11:15	0310 19:03 RL
Acenaphthene	ND	ug/kg	7.4				
2-Chloronaphthalene	ND	ug/kg	7.4				
Fluoranthene	ND	ug/kg	7.4				
Hexachlorobutadiene	ND	ug/kg	18.				
Naphthalene	ND	ug/kg	7.4				
Benzo(a)anthracene	ND	ug/kg	7.4				
Benzo(a)pyrene	ND	ug/kg	7.4				
Benzo(b)fluoranthene	ND	ug/kg	7.4				
Benzo(k)fluoranthene	ND	ug/kg	7.4				
Chrysene	ND	ug/kg	7.4				
Acenaphthylene	ND	ug/kg	7.4				
Anthracene	ND	ug/kg	7.4				
Benzo(ghi)perylene	ND	ug/kg	7.4				
Fluorene	ND	ug/kg	7.4				
Phenanthrene	ND	ug/kg	7.4				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-13  
MW/CB-22 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:15	0310 19:03 RL
Dibenzo(a,h)anthracene	ND	ug/kg	7.4				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	7.4				
Pyrene	ND	ug/kg	7.4				
1-Methylnaphthalene	ND	ug/kg	7.4				
2-Methylnaphthalene	ND	ug/kg	7.4				
Pentachlorophenol	ND	ug/kg	30.				
Hexachlorobenzene	ND	ug/kg	30.				
Perylene	ND	ug/kg	7.4				
Biphenyl	ND	ug/kg	7.4				
2,6-Dimethylnaphthalene	ND	ug/kg	7.4				
1-Methylphenanthrene	ND	ug/kg	7.4				
Benzo(e)Pyrene	ND	ug/kg	7.4				
Hexachloroethane	ND	ug/kg	30.				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	65.0	%					25-120
Phenol-d6	84.0	%					10-120
Nitrobenzene-d5	71.0	%					23-120
2-Fluorobiphenyl	61.0	%					30-120
2,4,6-Tribromophenol	84.0	%					19-120
4-Terphenyl-d14	67.0	%					18-120
Polychlorinated Biphenyls				1	8082	0308 12:15	0310 01:41 JB
Aroclor 1221	ND	ug/kg	37.0				
Aroclor 1232	ND	ug/kg	37.0				
Aroclor 1242/1016	ND	ug/kg	37.0				
Aroclor 1248	ND	ug/kg	37.0				
Aroclor 1254	ND	ug/kg	37.0				
Aroclor 1260	ND	ug/kg	37.0				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	78.0	%					30-150
Decachlorobiphenyl	85.0	%					30-150
Organochlorine Pesticides				1	8081	0308 13:20	0310 21:31 BW
Delta-BHC	ND	ug/kg	3.70				
Lindane	ND	ug/kg	3.70				
Alpha-BHC	ND	ug/kg	3.70				
Beta-BHC	ND	ug/kg	3.70				
Heptachlor	ND	ug/kg	3.70				
Aldrin	ND	ug/kg	3.70				
Heptachlor epoxide	ND	ug/kg	3.70				
Endrin	ND	ug/kg	3.70				
Endrin aldehyde	ND	ug/kg	3.70				
Endrin ketone	ND	ug/kg	3.70				
Dieldrin	ND	ug/kg	3.70				
4,4'-DDE	ND	ug/kg	3.70				
4,4'-DDD	ND	ug/kg	3.70				
4,4'-DDT	ND	ug/kg	3.70				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-13  
MW/CB-22 (12'-14')

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0308 13:20	0310 21:31	BW
Endosulfan I	ND	ug/kg	3.70				
Endosulfan II	ND	ug/kg	3.70				
Endosulfan sulfate	ND	ug/kg	3.70				
Methoxychlor	ND	ug/kg	3.70				
Toxaphene	ND	ug/kg	14.8				
Chlordane	ND	ug/kg	14.8				
cis-Chlordane	ND	ug/kg	3.70				
trans-Chlordane	ND	ug/kg	3.70				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	66.0	%		30-150			
Decachlorobiphenyl	77.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-14	Date Collected: 04-MAR-2005 09:30
Sample Matrix: FIELD BLANK	Date Received : 05-MAR-2005
Sample Matrix: WATER	Date Reported : 14-MAR-2005
Condition of Sample: Satisfactory	Field Prep: None

Number & Type of Containers: 6-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Metals				1	3015		
Aluminum, Total	ND	mg/l	0.10	1 6010B	0308 15:40	0309 12:51	RW
Antimony, Total	ND	mg/l	0.050	1 6010B	0308 15:40	0309 12:51	RW
Arsenic, Total	ND	mg/l	0.005	1 6010B	0308 15:40	0309 12:51	RW
Barium, Total	ND	mg/l	0.01	1 6010B	0308 15:40	0309 12:51	RW
Beryllium, Total	ND	mg/l	0.005	1 6010B	0308 15:40	0309 12:51	RW
Cadmium, Total	ND	mg/l	0.005	1 6010B	0308 15:40	0309 12:51	RW
Calcium, Total	0.12	mg/l	0.10	1 6010B	0308 15:40	0309 12:51	RW
Chromium, Total	ND	mg/l	0.01	1 6010B	0308 15:40	0309 12:51	RW
Cobalt, Total	ND	mg/l	0.02	1 6010B	0308 15:40	0309 12:51	RW
Copper, Total	ND	mg/l	0.01	1 6010B	0308 15:40	0309 12:51	RW
Iron, Total	ND	mg/l	0.05	1 6010B	0308 15:40	0309 12:51	RW
Lead, Total	ND	mg/l	0.050	1 6010B	0308 15:40	0309 12:51	RW
Magnesium, Total	ND	mg/l	0.10	1 6010B	0308 15:40	0309 12:51	RW
Manganese, Total	ND	mg/l	0.01	1 6010B	0308 15:40	0309 12:51	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0308 15:30	0309 11:07	DM
Nickel, Total	ND	mg/l	0.025	1 6010B	0308 15:40	0309 12:51	RW
Potassium, Total	ND	mg/l	2.5	1 6010B	0308 15:40	0309 12:51	RW
Selenium, Total	ND	mg/l	0.005	1 6010B	0308 15:40	0309 12:51	RW
Silver, Total	ND	mg/l	0.007	1 6010B	0308 15:40	0309 12:51	RW
Sodium, Total	ND	mg/l	2.0	1 6010B	0308 15:40	0309 12:51	RW
Thallium, Total	ND	mg/l	0.005	1 6010B	0308 15:40	0309 12:51	RW
Vanadium, Total	ND	mg/l	0.01	1 6010B	0308 15:40	0309 12:51	RW
Zinc, Total	ND	mg/l	0.05	1 6010B	0308 15:40	0309 12:51	RW
Volatile Organics by GC/MS 8260				1	8260B	0309 10:42	TT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-14  
 FIELD BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 10:42 TT		
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	2.6	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	0.91	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	12.	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-14  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0309 10:42		TT
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	94.0	%					
Dibromofluoromethane	92.0	%					
SVOC's by GC/MS 8270				1 8270C	0308 11:10 0309 16:24		HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-14  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:10	0309 16:24	HL
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-14  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:10	0309 16:24	HL
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	43.0	%					
Phenol-d6	32.0	%					
Nitrobenzene-d5	72.0	%					
2-Fluorobiphenyl	75.0	%					
2,4,6-Tribromophenol	87.0	%					
4-Terphenyl-d14	89.0	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0308 11:10	0310 16:07	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-14  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:10	0310 16:07 RL
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	48.0	%					21-120
Phenol-d6	40.0	%					10-120
Nitrobenzene-d5	77.0	%					23-120
2-Fluorobiphenyl	63.0	%					43-120
2,4,6-Tribromophenol	83.0	%					10-120
4-Terphenyl-d14	75.0	%					33-120
Polychlorinated Biphenyls				1	8082	0308 11:20	0309 15:03 BW
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	78.0	%					30-150
Decachlorobiphenyl	45.0	%					30-150
Organochlorine Pesticides				1	8081	0308 11:15	0310 14:54 BW
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-14  
FIELD BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Organochlorine Pesticides continued				1 8081	0308 11:15	0310 14:54	BW
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	63.0	%		30-150			
Decachlorobiphenyl	37.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502261-15	Date Collected: 11-FEB-2005 14:30
Sample Matrix: TRIP BLANK	Date Received : 05-MAR-2005
Sample Matrix: WATER	Date Reported : 14-MAR-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B	0309 11:22	TT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	0.50			
o-Xylene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,4-Dichlorobutane	ND	ug/l	5.0			
Iodomethane	ND	ug/l	5.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502261-15  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0309	11:22 TT
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	5.3	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC	Criteria		
1,2-Dichloroethane-d4	105.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	95.0	%					
Dibromofluoromethane	100.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS**

Laboratory Job Number: L0502261

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total for sample(s) 01-02,04,06-07,09,11-13 (L0502261-01, WG195840-1)					
Solids, Total	87.	87.	%	0	
Solids, Total for sample(s) 03,05,08,10 (L0502261-05, WG196030-1)					
Solids, Total	94.	94.	%	0	
Total Metals for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG195938-1)					
Aluminum, Total	4300	4000	mg/kg	7	35
Antimony, Total	ND	ND	mg/kg	NC	35
Arsenic, Total	1.4	1.4	mg/kg	0	35
Barium, Total	22.	21.	mg/kg	5	35
Beryllium, Total	0.17	0.16	mg/kg	6	35
Cadmium, Total	ND	ND	mg/kg	NC	35
Calcium, Total	830.0	732.3	mg/kg	13	35
Chromium, Total	7.3	5.9	mg/kg	21	35
Cobalt, Total	2.9	2.8	mg/kg	4	35
Copper, Total	7.0	6.5	mg/kg	7	35
Iron, Total	6900	6500	mg/kg	6	35
Lead, Total	4.6	4.5	mg/kg	2	35
Magnesium, Total	970	850	mg/kg	13	35
Manganese, Total	140	130	mg/kg	7	35
Nickel, Total	4.9	4.5	mg/kg	9	35
Potassium, Total	250	240	mg/kg	4	35
Selenium, Total	0.242	0.252	mg/kg	4	35
Silver, Total	ND	ND	mg/kg	NC	35
Sodium, Total	120	120	mg/kg	0	35
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	7.4	6.8	mg/kg	8	35
Zinc, Total	13.	12.	mg/kg	8	35
Total Metals for sample(s) 14 (L0502261-14, WG195923-3)					
Mercury, Total	ND	ND	mg/l	NC	20
Total Metals for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG196045-3)					
Mercury, Total	ND	ND	mg/kg	NC	35

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0502261

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 01-02,04,06-07,09,11-13 (WG195938-4)		
Aluminum, Total	101	70-140
Antimony, Total	86	70-140
Arsenic, Total	103	70-140
Barium, Total	96	70-140
Beryllium, Total	96	70-140
Cadmium, Total	99	70-140
Calcium, Total	93	70-140
Chromium, Total	93	70-140
Cobalt, Total	91	70-140
Copper, Total	97	70-140
Iron, Total	96	70-140
Lead, Total	104	70-140
Magnesium, Total	96	70-140
Manganese, Total	91	70-140
Nickel, Total	91	70-140
Potassium, Total	86	70-140
Selenium, Total	105	70-140
Silver, Total	101	70-140
Sodium, Total	101	70-140
Thallium, Total	99	70-140
Vanadium, Total	91	70-140
Zinc, Total	96	70-140
Total Metals LCS for sample(s) 14 (WG196104-2)		
Aluminum, Total	110	75-125
Antimony, Total	103	75-125
Arsenic, Total	108	75-125
Barium, Total	105	75-125
Beryllium, Total	104	75-125
Cadmium, Total	108	75-125
Calcium, Total	99	75-125
Chromium, Total	100	75-125
Cobalt, Total	100	75-125
Copper, Total	104	75-125
Iron, Total	100	75-125
Lead, Total	106	75-125
Magnesium, Total	100	75-125
Manganese, Total	100	75-125
Nickel, Total	99	75-125
Potassium, Total	100	75-125
Selenium, Total	115	75-125
Silver, Total	105	75-125
Sodium, Total	110	75-125
Thallium, Total	98	75-125
Vanadium, Total	102	75-125
Zinc, Total	102	75-125



**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0502261

Continued

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 14 (WG195923-1)		
Mercury, Total	107	70-130
Total Metals LCS for sample(s) 01-02,04,06-07,09,11-13 (WG196045-1)		
Mercury, Total	105	70-130
Volatile Organics by GC/MS 8260 LCS for sample(s) 14-15 (WG195579-12)		
Chlorobenzene	107	
Benzene	103	
Toluene	108	
1,1-Dichloroethene	99	
Trichloroethene	98	
Surrogate(s)		
1,2-Dichloroethane-d4	102	
Toluene-d8	103	
4-Bromofluorobenzene	101	
Dibromofluoromethane	97	
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-13 (WG195684-5)		
Chlorobenzene	100	
Benzene	102	
Toluene	98	
1,1-Dichloroethene	98	
Trichloroethene	99	
Surrogate(s)		
1,2-Dichloroethane-d4	108	
Toluene-d8	99	
4-Bromofluorobenzene	103	
Dibromofluoromethane	101	
SVOC's by GC/MS 8270 LCS for sample(s) 01-02,04,06-07,09,11-13 (WG195910-2)		
Acenaphthene	58	31-137
1,2,4-Trichlorobenzene	60	38-107
2-Chloronaphthalene	61	
1,2-Dichlorobenzene	58	
1,4-Dichlorobenzene	57	28-104
2,4-Dinitrotoluene	87	28-89
2,6-Dinitrotoluene	87	
Fluoranthene	90	
4-Chlorophenyl phenyl ether	70	
n-Nitrosodi-n-propylamine	45	41-126
Butyl benzyl phthalate	89	
Anthracene	50	
Pyrene	88	35-142
Hexachloropropene	67	
p-Chloro-M-Cresol	68	26-103
2-Chlorophenol	56	25-102

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502261

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 01-02,04,06-07,09,11-13 (WG195910-2)		
2-Nitrophenol	56	
4-Nitrophenol	82	11-114
2,4-Dinitrophenol	32	
Pentachlorophenol	91	17-109
Phenol	53	26-90
Surrogate(s)		
2-Fluorophenol	61	25-120
Phenol-d6	69	10-120
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	66	30-120
2,4,6-Tribromophenol	102	19-120
4-Terphenyl-d14	97	18-120
SVOC's by GC/MS 8270 LCS for sample(s) 14 (WG195928-2)		
Acenaphthene	70	
1,2,4-Trichlorobenzene	67	
2-Chloronaphthalene	75	
1,2-Dichlorobenzene	68	
1,4-Dichlorobenzene	64	
2,4-Dinitrotoluene	91	
2,6-Dinitrotoluene	93	
Fluoranthene	87	
4-Chlorophenyl phenyl ether	80	
n-Nitrosodi-n-propylamine	63	
Butyl benzyl phthalate	85	
Anthracene	48	
Pyrene	85	
Hexachloropropene	58	
P-Chloro-M-Cresol	79	
2-Chlorophenol	67	
2-Nitrophenol	73	
4-Nitrophenol	46	
2,4-Dinitrophenol	79	
Pentachlorophenol	97	
Phenol	30	
Surrogate(s)		
2-Fluorophenol	47	
Phenol-d6	38	
Nitrobenzene-d5	78	
2-Fluorobiphenyl	80	
2,4,6-Tribromophenol	99	
4-Terphenyl-d14	90	

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502261

Continued

Parameter	% Recovery	QC Criteria
PAH by GC/MS SIM 8270M LCS for sample(s) 01-02,04,06-07,09,11-13 (WG195911-2)		
Acenaphthene	46	40-140
2-Chloronaphthalene	51	40-140
Fluoranthene	74	40-140
Anthracene	46	40-140
Pyrene	71	40-140
Pentachlorophenol	64	40-140
Surrogate(s)		
2-Fluorophenol	57	25-120
Phenol-d6	72	10-120
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	56	30-120
2,4,6-Tribromophenol	84	19-120
4-Terphenyl-d14	76	18-120
PAH by GC/MS SIM 8270M LCS for sample(s) 14 (WG195930-2)		
Acenaphthene	62	46-118
2-Chloronaphthalene	67	
Fluoranthene	81	
Anthracene	48	
Pyrene	71	26-127
Pentachlorophenol	87	9-103
Surrogate(s)		
2-Fluorophenol	53	21-120
Phenol-d6	45	10-120
Nitrobenzene-d5	82	23-120
2-Fluorobiphenyl	70	43-120
2,4,6-Tribromophenol	85	10-120
4-Terphenyl-d14	77	33-120
Polychlorinated Biphenyls LCS for sample(s) 01-02,04,06-07,09,11-13 (WG195912-2)		
Aroclor 1242/1016	84	40-140
Aroclor 1260	99	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	87	30-150
Decachlorobiphenyl	96	30-150
Polychlorinated Biphenyls LCS for sample(s) 14 (WG195925-2)		
Aroclor 1242/1016	80	30-150
Aroclor 1260	101	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	80	30-150
Decachlorobiphenyl	99	30-150

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502261

Continued

Parameter	% Recovery	QC Criteria
Organochlorine Pesticides LCS for sample(s) 01-02,04,06-07,09,11-13 (WG195914-2)		
Delta-BHC	66	
Lindane	67	46-127
Alpha-BHC	67	
Beta-BHC	76	
Heptachlor	67	35-130
Aldrin	72	34-132
Heptachlor epoxide	71	
Endrin	79	42-139
Endrin aldehyde	56	
Endrin ketone	77	
Dieldrin	77	31-134
4,4'-DDE	76	
4,4'-DDD	70	
4,4'-DDT	82	23-134
Endosulfan I	71	
Endosulfan II	86	
Endosulfan sulfate	67	
Methoxychlor	79	
cis-Chlordane	78	
trans-Chlordane	74	
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	69	30-150
Decachlorobiphenyl	85	30-150
Organochlorine Pesticides LCS for sample(s) 14 (WG195926-2)		
Delta-BHC	60	
Lindane	63	
Alpha-BHC	62	
Beta-BHC	66	
Heptachlor	58	
Aldrin	62	
Heptachlor epoxide	70	
Endrin	83	
Endrin aldehyde	52	
Endrin ketone	73	
Dieldrin	76	
4,4'-DDE	77	
4,4'-DDD	65	
4,4'-DDT	79	
Endosulfan I	66	
Endosulfan II	81	
Endosulfan sulfate	66	
Methoxychlor	76	
cis-Chlordane	76	
trans-Chlordane	72	

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502261

Continued

Parameter	% Recovery	QC Criteria
Organochlorine Pesticides LCS for sample(s) 14 (WG195926-2)		
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	61	30-150
Decachlorobiphenyl	60	30-150
Total Metals SPIKE for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG195938-2)		
Aluminum, Total	0	70-140
Antimony, Total	76	70-140
Arsenic, Total	89	70-140
Barium, Total	87	70-140
Beryllium, Total	93	70-140
Cadmium, Total	91	70-140
Calcium, Total	60	70-140
Chromium, Total	52	70-140
Cobalt, Total	85	70-140
Copper, Total	80	70-140
Iron, Total	0	70-140
Lead, Total	98	70-140
Magnesium, Total	7	70-140
Manganese, Total	0	70-140
Nickel, Total	81	70-140
Potassium, Total	87	70-140
Selenium, Total	78	70-140
Silver, Total	96	70-140
Sodium, Total	105	70-140
Thallium, Total	93	70-140
Vanadium, Total	83	70-140
Zinc, Total	71	70-140
Total Metals SPIKE for sample(s) 14 (L0502261-14, WG195923-2)		
Mercury, Total	126	70-130
Total Metals SPIKE for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG196045-2)		
Mercury, Total	111	70-130

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0502261

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 14-15 (L0502006-02, WG195579-2)					
Chlorobenzene	106	103	3		
Benzene	96	97	1		
Toluene	104	106	2		
1,1-Dichloroethene	71	73	3		
Trichloroethene	94	91	3		
Surrogate(s)					
1,2-Dichloroethane-d4	96	94	2		
Toluene-d8	102	103	1		
4-Bromofluorobenzene	96	92	4		
Dibromofluoromethane	92	95	3		
Volatile Organics by GC/MS 8260 for sample(s) 01-13 (L0502002-08, WG195684-2)					
Chlorobenzene	91	79	14		
Benzene	91	74	21		
Toluene	88	71	21		
1,1-Dichloroethene	93	78	18		
Trichloroethene	98	85	14		
Surrogate(s)					
1,2-Dichloroethane-d4	95	104	9		
Toluene-d8	94	97	3		
4-Bromofluorobenzene	96	102	6		
Dibromofluoromethane	95	98	3		
SVOC's by GC/MS 8270 for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG195910-4)					
Acenaphthene	61	59	3	50	31-137
1,2,4-Trichlorobenzene	59	53	11	50	38-107
2-Chloronaphthalene	61	56	9	50	
1,2-Dichlorobenzene	51	48	6	50	
1,4-Dichlorobenzene	51	48	6	50	28-104
2,4-Dinitrotoluene	77	80	4	50	28-89
2,6-Dinitrotoluene	80	80	0	50	
Fluoranthene	85	85	0	50	
4-Chlorophenyl phenyl ether	72	69	4	50	
n-Nitrosodi-n-propylamine	43	41	7	50	41-126
Butyl benzyl phthalate	85	85	0	50	
Anthracene	45	45	0	50	
Pyrene	83	80	4	50	35-142
Hexachloropropene	64	56	13	50	
P-Chloro-M-Cresol	73	71	3	50	26-103
2-Chlorophenol	52	48	8	50	25-102
2-Nitrophenol	52	48	8	50	
4-Nitrophenol	73	73	0	50	11-114
2,4-Dinitrophenol	57	41	33	50	
Pentachlorophenol	67	61	9	50	17-109
Phenol	47	45	4	50	26-90

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0502261

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG195910-4)					
Surrogate(s)					
2-Fluorophenol	56	51	9		25-120
Phenol-d6	64	59	8		10-120
Nitrobenzene-d5	56	52	7		23-120
2-Fluorobiphenyl	68	59	14		30-120
2,4,6-Tribromophenol	102	101	1		19-120
4-Terphenyl-d14	89	87	2		18-120
SVOC's by GC/MS 8270 for sample(s) 14 (L0502261-14, WG195928-4)					
Acenaphthene	67	72	7		
1,2,4-Trichlorobenzene	62	67	8		
2-Chloronaphthalene	72	77	7		
1,2-Dichlorobenzene	58	58	0		
1,4-Dichlorobenzene	53	58	9		
2,4-Dinitrotoluene	86	91	6		
2,6-Dinitrotoluene	86	91	6		
Fluoranthene	86	86	0		
4-Chlorophenyl phenyl ether	72	77	7		
n-Nitrosodi-n-propylamine	53	53	0		
Butyl benzyl phthalate	82	86	5		
Anthracene	47	47	0		
Pyrene	82	86	5		
Hexachloropropene	62	67	8		
P-Chloro-M-Cresol	77	82	6		
2-Chlorophenol	58	58	0		
2-Nitrophenol	62	62	0		
4-Nitrophenol	65	72	10		
2,4-Dinitrophenol	74	79	7		
Pentachlorophenol	91	94	3		
Phenol	38	41	8		
Surrogate(s)					
2-Fluorophenol	50	52	4		
Phenol-d6	48	53	10		
Nitrobenzene-d5	67	69	3		
2-Fluorobiphenyl	77	82	6		
2,4,6-Tribromophenol	93	98	5		
4-Terphenyl-d14	86	91	6		
PAH by GC/MS SIM 8270M for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG195911-4)					
Acenaphthene	51	53	4	50	40-140
2-Chloronaphthalene	56	59	5	50	40-140
Fluoranthene	69	83	18	50	40-140
Anthracene	45	48	6	50	40-140
Pyrene	69	75	8	50	40-140
Pentachlorophenol	63	63	0	50	40-140

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0502261

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
PAH by GC/MS SIM 8270M for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG195911-4)					
Surrogate(s)					
2-Fluorophenol	60	60	0		25-120
Phenol-d6	78	77	1		10-120
Nitrobenzene-d5	63	63	0		23-120
2-Fluorobiphenyl	60	61	2		30-120
2,4,6-Tribromophenol	88	95	8		19-120
4-Terphenyl-d14	72	81	12		18-120
PAH by GC/MS SIM 8270M for sample(s) 14 (L0502261-14, WG195930-4)					
Acenaphthene	58	62	7	40	46-118
2-Chloronaphthalene	67	67	0	40	
Fluoranthene	77	77	0	40	
Anthracene	48	53	10	40	
Pyrene	72	77	7	40	26-127
Pentachlorophenol	89	91	2	40	9-103
Surrogate(s)					
2-Fluorophenol	63	66	5		21-120
Phenol-d6	64	71	10		10-120
Nitrobenzene-d5	76	83	9		23-120
2-Fluorobiphenyl	69	75	8		43-120
2,4,6-Tribromophenol	84	93	10		10-120
4-Terphenyl-d14	75	81	8		33-120
Polychlorinated Biphenyls for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG195912-4)					
Aroclor 1242/1016	87	85	3	50	40-140
Aroclor 1260	98	96	3	50	40-140
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	85	79	7		30-150
Decachlorobiphenyl	91	89	2		30-150
Polychlorinated Biphenyls for sample(s) 14 (L0502261-14, WG195925-4)					
Aroclor 1242/1016	84	84	0	30	30-150
Aroclor 1260	103	102	1	30	30-150
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	81	77	5		30-150
Decachlorobiphenyl	75	79	5		30-150
Organochlorine Pesticides for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG195914-4)					
Delta-BHC	67	67	0	50	
Lindane	69	65	6	50	46-127
Alpha-BHC	67	64	4	50	
Beta-BHC	74	81	9	50	
Heptachlor	66	63	4	50	35-130



ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0502261

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Organochlorine Pesticides for sample(s) 01-02,04,06-07,09,11-13 (L0502261-02, WG195914-4)					
Aldrin	69	63	10	50	34-132
Heptachlor epoxide	71	70	3	50	
Endrin	75	76	1	50	42-139
Endrin aldehyde	54	49	10	50	
Endrin ketone	69	73	6	50	
Dieldrin	76	74	2	50	31-134
4,4'-DDE	75	74	1	50	
4,4'-DDD	69	67	3	50	
4,4'-DDT	80	81	1	50	23-134
Endosulfan I	71	69	3	50	
Endosulfan II	81	80	0	50	
Endosulfan sulfate	57	60	5	50	
Methoxychlor	77	75	2	50	
cis-Chlordane	76	75	1	50	
trans-Chlordane	74	72	3	50	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	62	60	3		30-150
Decachlorobiphenyl	81	81	0		30-150
Organochlorine Pesticides for sample(s) 14 (L0502261-14, WG195926-4)					
Delta-BHC	61	68	11	30	
Lindane	66	72	9	30	
Alpha-BHC	64	69	8	30	
Beta-BHC	76	77	1	30	
Heptachlor	62	68	9	30	
Aldrin	66	72	9	30	
Heptachlor epoxide	70	78	11	30	
Endrin	78	84	7	30	
Endrin aldehyde	57	61	7	30	
Endrin ketone	72	78	8	30	
Dieldrin	75	81	8	30	
4,4'-DDE	77	83	8	30	
4,4'-DDD	72	72	0	30	
4,4'-DDT	79	85	7	30	
Endosulfan I	68	74	8	30	
Endosulfan II	72	83	14	30	
Endosulfan sulfate	62	67	8	30	
Methoxychlor	75	80	6	30	
cis-Chlordane	76	82	8	30	
trans-Chlordane	70	76	8	30	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	64	71	10		30-150
Decachlorobiphenyl	38	47	21		30-150

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0502261

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02,04,06-07,09,11-13 (WG195938-3)							
Total Metals				1	3051		
Aluminum, Total	ND	mg/kg	4.0	1	6010B	0308 15:00	0309 07:04 RW
Antimony, Total	ND	mg/kg	2.0	1	6010B	0308 15:00	0309 07:04 RW
Arsenic, Total	ND	mg/kg	0.40	1	6010B	0308 15:00	0309 07:04 RW
Barium, Total	ND	mg/kg	0.40	1	6010B	0308 15:00	0309 07:04 RW
Beryllium, Total	ND	mg/kg	0.2000	1	6010B	0308 15:00	0309 07:04 RW
Cadmium, Total	ND	mg/kg	0.4000	1	6010B	0308 15:00	0309 07:04 RW
Calcium, Total	ND	mg/kg	4.0	1	6010B	0308 15:00	0309 07:04 RW
Chromium, Total	ND	mg/kg	0.40	1	6010B	0308 15:00	0309 07:04 RW
Cobalt, Total	ND	mg/kg	0.80	1	6010B	0308 15:00	0309 07:04 RW
Copper, Total	ND	mg/kg	0.40	1	6010B	0308 15:00	0309 07:04 RW
Iron, Total	ND	mg/kg	2.0	1	6010B	0308 15:00	0309 07:04 RW
Lead, Total	ND	mg/kg	2.0	1	6010B	0308 15:00	0309 07:04 RW
Magnesium, Total	ND	mg/kg	4.0	1	6010B	0308 15:00	0309 07:04 RW
Manganese, Total	ND	mg/kg	0.40	1	6010B	0308 15:00	0309 07:04 RW
Nickel, Total	ND	mg/kg	1.0	1	6010B	0308 15:00	0309 07:04 RW
Potassium, Total	ND	mg/kg	100	1	6010B	0308 15:00	0309 07:04 RW
Selenium, Total	ND	mg/kg	0.800	1	6010B	0308 15:00	0309 07:04 RW
Silver, Total	ND	mg/kg	0.40	1	6010B	0308 15:00	0309 07:04 RW
Sodium, Total	ND	mg/kg	80.	1	6010B	0308 15:00	0309 07:04 RW
Thallium, Total	ND	mg/kg	0.40	1	6010B	0308 15:00	0309 07:04 RW
Vanadium, Total	ND	mg/kg	0.40	1	6010B	0308 15:00	0309 07:04 RW
Zinc, Total	ND	mg/kg	2.0	1	6010B	0308 15:00	0309 07:04 RW
Blank Analysis for sample(s) 14 (WG196104-1)							
Total Metals				1	3015		
Aluminum, Total	ND	mg/l	0.10	1	6010B	0308 15:40	0309 12:36 RW
Antimony, Total	ND	mg/l	0.050	1	6010B	0308 15:40	0309 12:36 RW
Arsenic, Total	ND	mg/l	0.005	1	6010B	0308 15:40	0309 12:36 RW
Barium, Total	ND	mg/l	0.01	1	6010B	0308 15:40	0309 12:36 RW
Beryllium, Total	ND	mg/l	0.005	1	6010B	0308 15:40	0309 12:36 RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0308 15:40	0309 12:36 RW
Calcium, Total	ND	mg/l	0.10	1	6010B	0308 15:40	0309 12:36 RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0308 15:40	0309 12:36 RW
Cobalt, Total	ND	mg/l	0.02	1	6010B	0308 15:40	0309 12:36 RW
Copper, Total	ND	mg/l	0.01	1	6010B	0308 15:40	0309 12:36 RW
Iron, Total	ND	mg/l	0.05	1	6010B	0308 15:40	0309 12:36 RW
Lead, Total	ND	mg/l	0.050	1	6010B	0308 15:40	0309 12:36 RW
Magnesium, Total	ND	mg/l	0.10	1	6010B	0308 15:40	0309 12:36 RW
Manganese, Total	ND	mg/l	0.01	1	6010B	0308 15:40	0309 12:36 RW
Nickel, Total	ND	mg/l	0.025	1	6010B	0308 15:40	0309 12:36 RW
Potassium, Total	ND	mg/l	2.5	1	6010B	0308 15:40	0309 12:36 RW
Selenium, Total	ND	mg/l	0.005	1	6010B	0308 15:40	0309 12:36 RW
Silver, Total	ND	mg/l	0.007	1	6010B	0308 15:40	0309 12:36 RW
Sodium, Total	ND	mg/l	2.0	1	6010B	0308 15:40	0309 12:36 RW

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502261

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 14 (WG196104-1)							
Total Metals				1	3015		
Thallium, Total	ND	mg/l	0.005	1	6010B	0308 15:40	0309 12:36 RW
Vanadium, Total	ND	mg/l	0.01	1	6010B	0308 15:40	0309 12:36 RW
Zinc, Total	ND	mg/l	0.05	1	6010B	0308 15:40	0309 12:36 RW
Blank Analysis for sample(s) 14 (WG195923-4)							
Total Metals							
Mercury, Total	ND	mg/l	0.0002	1	7470A	0308 15:30	0309 10:56 DM
Blank Analysis for sample(s) 01-02,04,06-07,09,11-13 (WG196045-4)							
Total Metals							
Mercury, Total	ND	mg/kg	0.08	1	7471A	0309 20:15	0310 12:06 DM
Blank Analysis for sample(s) 14-15 (WG195579-13)							
Volatile Organics by GC/MS 8260				1	8260B		0309 08:43 TT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502261

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 14-15 (WG195579-13)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0309 08:43 TT	
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 14-15 (WG195579-13)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0309	08:43 TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	108.	%					
Dibromofluoromethane	101.	%					
Blank Analysis for sample(s) 01-13 (WG195684-6)							
Volatile Organics by GC/MS 8260				1	8260B	0309	09:28 BT
Methylene chloride	ND	ug/kg	25.				
1,1-Dichloroethane	ND	ug/kg	3.8				
Chloroform	ND	ug/kg	3.8				
Carbon tetrachloride	ND	ug/kg	2.5				
1,2-Dichloropropane	ND	ug/kg	8.8				
Dibromochloromethane	ND	ug/kg	2.5				
1,1,2-Trichloroethane	ND	ug/kg	3.8				
Tetrachloroethene	ND	ug/kg	2.5				
Chlorobenzene	ND	ug/kg	2.5				
Trichlorofluoromethane	ND	ug/kg	12.				
1,2-Dichloroethane	ND	ug/kg	2.5				
1,1,1-Trichloroethane	ND	ug/kg	2.5				
Bromodichloromethane	ND	ug/kg	2.5				
trans-1,3-Dichloropropene	ND	ug/kg	2.5				
cis-1,3-Dichloropropene	ND	ug/kg	2.5				
1,1-Dichloropropene	ND	ug/kg	12.				
Bromoform	ND	ug/kg	10.				
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.5				
Benzene	ND	ug/kg	2.5				
Toluene	ND	ug/kg	3.8				
Ethylbenzene	ND	ug/kg	2.5				
Chloromethane	ND	ug/kg	12.				
Bromomethane	ND	ug/kg	5.0				
Vinyl chloride	ND	ug/kg	5.0				
Chloroethane	ND	ug/kg	5.0				
1,1-Dichloroethene	ND	ug/kg	2.5				
trans-1,2-Dichloroethene	ND	ug/kg	3.8				
Trichloroethene	ND	ug/kg	2.5				
1,2-Dichlorobenzene	ND	ug/kg	12.				
1,3-Dichlorobenzene	ND	ug/kg	12.				
1,4-Dichlorobenzene	ND	ug/kg	12.				
Methyl tert butyl ether	ND	ug/kg	5.0				
p/m-Xylene	ND	ug/kg	2.5				
o-Xylene	ND	ug/kg	2.5				
cis-1,2-Dichloroethene	ND	ug/kg	2.5				
Dibromomethane	ND	ug/kg	25.				
1,4-Dichlorobutane	ND	ug/kg	25.				
Iodomethane	ND	ug/kg	25.				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-13 (WG195684-6)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0309	09:28 BT
1,2,3-Trichloropropane	ND	ug/kg	25.				
Styrene	ND	ug/kg	2.5				
Dichlorodifluoromethane	ND	ug/kg	25.				
Acetone	ND	ug/kg	25.				
Carbon disulfide	ND	ug/kg	25.				
2-Butanone	ND	ug/kg	25.				
Vinyl acetate	ND	ug/kg	25.				
4-Methyl-2-pentanone	ND	ug/kg	25.				
2-Hexanone	ND	ug/kg	25.				
Ethyl methacrylate	ND	ug/kg	25.				
Acrolein	ND	ug/kg	62.				
Acrylonitrile	ND	ug/kg	25.				
Bromochloromethane	ND	ug/kg	12.				
Tetrahydrofuran	ND	ug/kg	50.				
2,2-Dichloropropane	ND	ug/kg	12.				
1,2-Dibromoethane	ND	ug/kg	10.				
1,3-Dichloropropane	ND	ug/kg	12.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.5				
Bromobenzene	ND	ug/kg	12.				
n-Butylbenzene	ND	ug/kg	2.5				
sec-Butylbenzene	ND	ug/kg	2.5				
tert-Butylbenzene	ND	ug/kg	12.				
o-Chlorotoluene	ND	ug/kg	12.				
p-Chlorotoluene	ND	ug/kg	12.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.				
Hexachlorobutadiene	ND	ug/kg	12.				
Isopropylbenzene	ND	ug/kg	2.5				
p-Isopropyltoluene	ND	ug/kg	2.5				
Naphthalene	ND	ug/kg	12.				
n-Propylbenzene	ND	ug/kg	2.5				
1,2,3-Trichlorobenzene	ND	ug/kg	12.				
1,2,4-Trichlorobenzene	ND	ug/kg	12.				
1,3,5-Trimethylbenzene	ND	ug/kg	12.				
1,2,4-Trimethylbenzene	ND	ug/kg	12.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	12.				
Ethyl ether	ND	ug/kg	12.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	107.	%					
Toluene-d8	97.0	%					
4-Bromofluorobenzene	111.	%					
Dibromofluoromethane	92.0	%					
Blank Analysis for sample(s) 01-02,04,06-07,09,11-13 (WG195910-1)							
SVOC's by GC/MS 8270				1	8270C	0308	11:15 0309 14:14 HL
Acenaphthene	ND	ug/kg	170				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02,04,06-07,09,11-13 (WG195910-1)							
SVOC's by GC/MS 8270 continued				1	8270C	0308 11:15	0309 14:14 HL
Benzidine	ND	ug/kg	1700				
1,2,4-Trichlorobenzene	ND	ug/kg	170				
Hexachlorobenzene	ND	ug/kg	170				
Bis(2-chloroethyl)ether	ND	ug/kg	170				
1-Chloronaphthalene	ND	ug/kg	170				
2-Chloronaphthalene	ND	ug/kg	200				
1,2-Dichlorobenzene	ND	ug/kg	170				
1,3-Dichlorobenzene	ND	ug/kg	170				
1,4-Dichlorobenzene	ND	ug/kg	170				
3,3'-Dichlorobenzidine	ND	ug/kg	1700				
2,4-Dinitrotoluene	ND	ug/kg	200				
2,6-Dinitrotoluene	ND	ug/kg	170				
Azobenzene	ND	ug/kg	170				
Fluoranthene	ND	ug/kg	170				
4-Chlorophenyl phenyl ether	ND	ug/kg	170				
4-Bromophenyl phenyl ether	ND	ug/kg	170				
Bis(2-chloroisopropyl)ether	ND	ug/kg	170				
Bis(2-chloroethoxy)methane	ND	ug/kg	170				
Hexachlorobutadiene	ND	ug/kg	330				
Hexachlorocyclopentadiene	ND	ug/kg	330				
Hexachloroethane	ND	ug/kg	170				
Isophorone	ND	ug/kg	170				
Naphthalene	ND	ug/kg	170				
Nitrobenzene	ND	ug/kg	170				
NDPA/DPA	ND	ug/kg	500				
n-Nitrosodi-n-propylamine	ND	ug/kg	170				
Bis(2-ethylhexyl)phthalate	ND	ug/kg	330				
Butyl benzyl phthalate	ND	ug/kg	170				
Di-n-butylphthalate	ND	ug/kg	170				
Di-n-octylphthalate	ND	ug/kg	170				
Diethyl phthalate	ND	ug/kg	170				
Dimethyl phthalate	ND	ug/kg	170				
Benzo(a)anthracene	ND	ug/kg	170				
Benzo(a)pyrene	ND	ug/kg	170				
Benzo(b)fluoranthene	ND	ug/kg	170				
Benzo(k)fluoranthene	ND	ug/kg	170				
Chrysene	ND	ug/kg	170				
Acenaphthylene	ND	ug/kg	170				
Anthracene	ND	ug/kg	170				
Benzo(ghi)perylene	ND	ug/kg	170				
Fluorene	ND	ug/kg	170				
Phenanthrene	ND	ug/kg	170				
Dibenzo(a,h)anthracene	ND	ug/kg	170				
Indeno(1,2,3-cd)pyrene	ND	ug/kg	170				
Pyrene	ND	ug/kg	170				
Benzo(e)pyrene	ND	ug/kg	170				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02,04,06-07,09,11-13 (WG195910-1)							
SVOC's by GC/MS 8270 continued				1	8270C	0308 11:15	0309 14:14 HL
Biphenyl	ND	ug/kg	170				
Perylene	ND	ug/kg	170				
Aniline	ND	ug/kg	330				
4-Chloroaniline	ND	ug/kg	170				
1-Methylnaphthalene	ND	ug/kg	170				
2-Nitroaniline	ND	ug/kg	170				
3-Nitroaniline	ND	ug/kg	170				
4-Nitroaniline	ND	ug/kg	230				
Dibenzofuran	ND	ug/kg	170				
a,a-Dimethylphenethylamine	ND	ug/kg	1700				
Hexachloropropene	ND	ug/kg	330				
Nitrosodi-n-butylamine	ND	ug/kg	330				
2-Methylnaphthalene	ND	ug/kg	270				
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	670				
Pentachlorobenzene	ND	ug/kg	670				
a-Naphthylamine	ND	ug/kg	670				
b-Naphthylamine	ND	ug/kg	670				
Phenacetin	ND	ug/kg	330				
Dimethoate	ND	ug/kg	670				
4-Aminobiphenyl	ND	ug/kg	330				
Pentachloronitrobenzene	ND	ug/kg	330				
Isodrin	ND	ug/kg	330				
p-Dimethylaminoazobenzene	ND	ug/kg	330				
Chlorobenzilate	ND	ug/kg	670				
3-Methylcholanthrene	ND	ug/kg	670				
Ethyl Methanesulfonate	ND	ug/kg	500				
Acetophenone	ND	ug/kg	670				
Nitrosodipiperidine	ND	ug/kg	670				
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	330				
n-Nitrosodimethylamine	ND	ug/kg	1700				
2,4,6-Trichlorophenol	ND	ug/kg	170				
p-Chloro-m-cresol	ND	ug/kg	170				
2-Chlorophenol	ND	ug/kg	200				
2,4-Dichlorophenol	ND	ug/kg	330				
2,4-Dimethylphenol	ND	ug/kg	330				
2-Nitrophenol	ND	ug/kg	670				
4-Nitrophenol	ND	ug/kg	330				
2,4-Dinitrophenol	ND	ug/kg	670				
4,6-Dinitro-o-cresol	ND	ug/kg	670				
Pentachlorophenol	ND	ug/kg	670				
Phenol	ND	ug/kg	230				
2-Methylphenol	ND	ug/kg	200				
3-Methylphenol/4-Methylphenol	ND	ug/kg	200				
2,4,5-Trichlorophenol	ND	ug/kg	170				
2,6-Dichlorophenol	ND	ug/kg	330				
Benzoic Acid	ND	ug/kg	1700				



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502261

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02,04,06-07,09,11-13 (WG195910-1)							
SVOC's by GC/MS 8270 continued				1	8270C	0308 11:15	0309 14:14 HL
Benzyl Alcohol	ND	ug/kg	330				
Carbazole	ND	ug/kg	170				
Pyridine	ND	ug/kg	1700				
2-Picoline	ND	ug/kg	670				
Pronamide	ND	ug/kg	670				
Methyl methanesulfonate	ND	ug/kg	670				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	53.0	%		25-120			
Phenol-d6	63.0	%		10-120			
Nitrobenzene-d5	54.0	%		23-120			
2-Fluorobiphenyl	56.0	%		30-120			
2,4,6-Tribromophenol	60.0	%		19-120			
4-Terphenyl-d14	67.0	%		18-120			
Blank Analysis for sample(s) 14 (WG195928-1)							
SVOC's by GC/MS 8270				1	8270C	0308 11:10	0309 14:41 HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502261

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 14 (WG195928-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:10	0309 14:41	HL
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502261

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 14 (WG195928-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0308 11:10	0309 14:41	HL
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	40.0	%					
Phenol-d6	29.0	%					
Nitrobenzene-d5	64.0	%					
2-Fluorobiphenyl	64.0	%					
2,4,6-Tribromophenol	79.0	%					
4-Terphenyl-d14	90.0	%					
Blank Analysis for sample(s) 01-02,04,06-07,09,11-13 (WG195911-1)							
PAH by GC/MS SIM 8270M				1 8270C-M	0308 11:15	0309 19:42	RL
Acenaphthene	ND	ug/kg	6.7				
2-Chloronaphthalene	ND	ug/kg	6.7				
Fluoranthene	ND	ug/kg	6.7				
Hexachlorobutadiene	ND	ug/kg	17.				
Naphthalene	ND	ug/kg	6.7				
Benzo(a)anthracene	ND	ug/kg	6.7				
Benzo(a)pyrene	ND	ug/kg	6.7				
Benzo(b)fluoranthene	ND	ug/kg	6.7				
Benzo(k)fluoranthene	ND	ug/kg	6.7				
Chrysene	ND	ug/kg	6.7				
Acenaphthylene	ND	ug/kg	6.7				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502261

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02,04,06-07,09,11-13 (WG195911-1)							
PAH by GC/MS SIM 8270M continued				1	8270C-M	0308 11:15	0309 19:42 RL
Anthracene	ND	ug/kg	6.7				
Benzo(ghi)perylene	ND	ug/kg	6.7				
Fluorene	ND	ug/kg	6.7				
Phenanthrene	ND	ug/kg	6.7				
Dibenzo(a,h)anthracene	ND	ug/kg	6.7				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	6.7				
Pyrene	ND	ug/kg	6.7				
1-Methylnaphthalene	ND	ug/kg	6.7				
2-Methylnaphthalene	ND	ug/kg	6.7				
Pentachlorophenol	ND	ug/kg	27.				
Hexachlorobenzene	ND	ug/kg	27.				
Perylene	ND	ug/kg	6.7				
Biphenyl	ND	ug/kg	6.7				
2,6-Dimethylnaphthalene	ND	ug/kg	6.7				
1-Methylphenanthrene	ND	ug/kg	6.7				
Benzo(e)Pyrene	ND	ug/kg	6.7				
Hexachloroethane	ND	ug/kg	27.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	57.0	%	25-120				
Phenol-d6	76.0	%	10-120				
Nitrobenzene-d5	61.0	%	23-120				
2-Fluorobiphenyl	55.0	%	30-120				
2,4,6-Tribromophenol	73.0	%	19-120				
4-Terphenyl-d14	62.0	%	18-120				
Blank Analysis for sample(s) 14 (WG195930-1)							
PAH by GC/MS SIM 8270M				1	8270C-M	0308 11:10	0310 12:37 RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502261

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 14 (WG195930-1)							
PAH by GC/MS SIM 8270M continued				1 8270C-M	0308 11:10	0310 12:37	RL
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	44.0	%					21-120
Phenol-d6	36.0	%					10-120
Nitrobenzene-d5	65.0	%					23-120
2-Fluorobiphenyl	55.0	%					43-120
2,4,6-Tribromophenol	77.0	%					10-120
4-Terphenyl-d14	73.0	%					33-120
Blank Analysis for sample(s) 01-02,04,06-07,09,11-13 (WG195912-1)							
Polychlorinated Biphenyls				1 8082	0308 12:15	0309 19:00	JB
Aroclor 1221	ND	ug/kg	33.3				
Aroclor 1232	ND	ug/kg	33.3				
Aroclor 1242/1016	ND	ug/kg	33.3				
Aroclor 1248	ND	ug/kg	33.3				
Aroclor 1254	ND	ug/kg	33.3				
Aroclor 1260	ND	ug/kg	33.3				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	72.0	%					30-150
Decachlorobiphenyl	81.0	%					30-150
Blank Analysis for sample(s) 14 (WG195925-1)							
Polychlorinated Biphenyls				1 8082	0308 11:20	0309 13:08	BW
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	73.0	%					30-150
Decachlorobiphenyl	97.0	%					30-150

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502261

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02,04,06-07,09,11-13 (WG195914-1)							
Organochlorine Pesticides				1 8081	0308 13:20	0310 15:22	BW
Delta-BHC	ND	ug/kg	3.33				
Lindane	ND	ug/kg	3.33				
Alpha-BHC	ND	ug/kg	3.33				
Beta-BHC	ND	ug/kg	3.33				
Heptachlor	ND	ug/kg	3.33				
Aldrin	ND	ug/kg	3.33				
Heptachlor epoxide	ND	ug/kg	3.33				
Endrin	ND	ug/kg	3.33				
Endrin aldehyde	ND	ug/kg	3.33				
Endrin ketone	ND	ug/kg	3.33				
Dieldrin	ND	ug/kg	3.33				
4,4'-DDE	ND	ug/kg	3.33				
4,4'-DDD	ND	ug/kg	3.33				
4,4'-DDT	ND	ug/kg	3.33				
Endosulfan I	ND	ug/kg	3.33				
Endosulfan II	ND	ug/kg	3.33				
Endosulfan sulfate	ND	ug/kg	3.33				
Methoxychlor	ND	ug/kg	3.33				
Toxaphene	ND	ug/kg	13.3				
Chlordane	ND	ug/kg	13.3				
cis-Chlordane	ND	ug/kg	3.33				
trans-Chlordane	ND	ug/kg	3.33				

Surrogate(s)	Recovery		QC Criteria
2,4,5,6-Tetrachloro-m-xylene	57.0	%	30-150
Decachlorobiphenyl	73.0	%	30-150

Blank Analysis for sample(s) 14 (WG195926-1)							
Organochlorine Pesticides				1 8081	0308 11:15	0310 13:00	BW
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502261

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 14 (WG195926-1)							
Organochlorine Pesticides continued				1 8081	0308 11:15	0310 13:00	BW
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	62.0	%	30-150				
Decachlorobiphenyl	86.0	%	30-150				

**ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.  
METHOD Method number by which analysis was performed.  
ID Initials of the analyst.  
ND Not detected in comparison to the reported detection limit.  
NI Not Ignitable.  
ug/cart Micrograms per Cartridge.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. 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, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. 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, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: AKRF, Inc. Laboratory Job Number: L0502589  
Address: 440 Park Avenue South  
New York, NY 10016 Date Received: 15-MAR-2005  
Attn: Mr. Axel Schwendt Date Reported: 21-MAR-2005  
Project Number: 10470-0213 Delivery Method: Alpha  
Site: COLUMBIA

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0502589-01	MW/CB-3 (GROUNDWATER)	HARLEM, NY
L0502589-02	MW/CB-4 (GROUNDWATER)	HARLEM, NY
L0502589-03	MW/CB-5 (GROUNDWATER)	HARLEM, NY
L0502589-04	MW/CB-11 (GROUNDWATER)	HARLEM, NY
L0502589-05	MW/CB-18 (GROUNDWATER)	HARLEM, NY
L0502589-06	MW/CB-19 (GROUNDWATER)	HARLEM, NY
L0502589-07	MW/CB-1 (GROUNDWATER)	HARLEM, NY
L0502589-08	MW/CB-2 (GROUNDWATER)	HARLEM, NY
L0502589-09	MW/CB-17 (GROUNDWATER)	HARLEM, NY
L0502589-10	TRIP BLANK	HARLEM, NY
L0502589-11	FIELD BLANK	HARLEM, NY

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

---

Authorized by: Scott McLean  
This document electronically signed

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0502589

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Volatile Organics

L0502589-01 has elevated limits of detection due to the 5x dilution required by the elevated concentrations of non-target compounds in the sample.

L0502589-02 and -03 have elevated limits of detection due to the dilutions (10x and 40x) required by the elevated concentrations of target compounds in the samples.

PAH

L0502589-03 was re-analyzed on a 4.75x dilution in order to quantitate the sample within the range of the calibration. The result is reported as a greater than value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the range of the calibration.

The MS/MSD % recoveries for Pentachlorophenol are above the acceptance criteria for the method.

SemiVolatile Organics

The MS/MSD % recoveries for Pentachlorophenol, and the MSD % recoveries for p-Chloro-m-cresol and 4-Nitrophenol, are above the acceptance criteria for the method.

PCB

The surrogate % recovery for Decachlorobiphenyl is below the acceptance criteria for the method on L0502589-04.

Pesticides

The surrogate % recovery for Decachlorobiphenyl is below the acceptance criteria for the method on L0502589-04.

L0502589-09 has an elevated limit of detection due to limited sample volume submitted for analysis.

The WG196452-4 MS/MSD % recoveries for Endrin Aldehyde are below the acceptance criteria for the method.

The WG196452-4 MS/MSD RPD for Delta-BHC is above the acceptance criteria for the method.

Dissolved Metals

L0502589-01 was diluted 5X for Mn and Na.

L0502589-02, -04, and -06 were diluted 10X for Na.

L0502589-02, -04, -05, -06 and -08 were diluted 10X for Ca.

The RPDs for the laboratory duplicates of Aluminum, Lead, and Zinc are above the acceptance criteria for the method.

The MS % recoveries for Calcium, Magnesium, Manganese, Selenium, and Sodium are invalid

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ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0502589

Continued

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because the sample concentrations are greater than four times the spike amounts added.

The MS % recovery for Iron is above the acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 93%.

Total Metals

L0502589-01, -02, -04 and -06 were diluted 10x for Na.

L0502589-02, -04 and -06 were diluted 10x for Ca.

L0502589-01 and 08 were diluted 10x for Mn.

The MS % recoveries for Calcium and Sodium are invalid because the sample concentrations are greater than four times the spike amounts added.

The MS % recovery for Silver is below the acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 109%.

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502589-01 Date Collected: 14-MAR-2005 08:00  
MW/CB-3 (GROUNDWATER) Date Received : 15-MAR-2005  
Sample Matrix: WATER Date Reported : 21-MAR-2005  
Condition of Sample: Satisfactory Field Prep: Field Filtered  
Number & Type of Containers: 6-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	3.43	mg/l	0.010	1 6020	0316 16:00	0317 12:14	RW
Antimony, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 12:14	RW
Arsenic, Total	0.0010	mg/l	0.0004	1 6020	0316 16:00	0317 12:14	RW
Barium, Total	0.5426	mg/l	0.0002	1 6020	0316 16:00	0317 12:14	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 12:14	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0316 16:00	0317 12:14	RW
Calcium, Total	113.	mg/l	0.200	1 6020	0316 16:00	0317 12:14	RW
Chromium, Total	0.0090	mg/l	0.0002	1 6020	0316 16:00	0317 12:14	RW
Cobalt, Total	0.0041	mg/l	0.0001	1 6020	0316 16:00	0317 12:14	RW
Copper, Total	0.0338	mg/l	0.0005	1 6020	0316 16:00	0317 12:14	RW
Iron, Total	9.29	mg/l	0.010	1 6020	0316 16:00	0317 12:14	RW
Lead, Total	0.0095	mg/l	0.0002	1 6020	0316 16:00	0317 12:14	RW
Magnesium, Total	42.3	mg/l	0.010	1 6020	0316 16:00	0317 12:14	RW
Manganese, Total	5.662	mg/l	0.0020	1 6020	0316 16:00	0317 16:22	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:53	DM
Nickel, Total	0.0169	mg/l	0.0005	1 6020	0316 16:00	0317 12:14	RW
Potassium, Total	9.01	mg/l	0.100	1 6020	0316 16:00	0317 12:14	RW
Selenium, Total	ND	mg/l	0.001	1 6020	0316 16:00	0317 12:14	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 12:14	RW
Sodium, Total	169.	mg/l	1.00	1 6020	0316 16:00	0317 16:22	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 12:14	RW
Vanadium, Total	0.0108	mg/l	0.0002	1 6020	0316 16:00	0317 12:14	RW
Zinc, Total	0.0364	mg/l	0.0050	1 6020	0316 16:00	0317 12:14	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.035	mg/l	0.010	1 6020	0316 16:00	0317 14:00	RW
Antimony, Dissolved	0.0012	mg/l	0.0002	1 6020	0316 16:00	0317 14:00	RW
Arsenic, Dissolved	ND	mg/l	0.0004	1 6020	0316 16:00	0317 14:00	RW
Barium, Dissolved	0.4670	mg/l	0.0002	1 6020	0316 16:00	0317 14:00	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0317 14:00	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0316 16:00	0317 14:00	RW
Calcium, Dissolved	115.	mg/l	0.200	1 6020	0316 16:00	0317 14:00	RW
Chromium, Dissolved	0.0003	mg/l	0.0002	1 6020	0316 16:00	0317 14:00	RW
Cobalt, Dissolved	0.0002	mg/l	0.0001	1 6020	0316 16:00	0317 14:00	RW
Copper, Dissolved	0.0030	mg/l	0.0005	1 6020	0316 16:00	0317 14:00	RW
Iron, Dissolved	3.25	mg/l	0.010	1 6020	0316 16:00	0317 14:00	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-01  
 MW/CB-3 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0005	mg/l	0.0002	1 6020	0316 16:00	0317 14:00	RW
Magnesium, Dissolved	43.0	mg/l	0.010	1 6020	0316 16:00	0317 14:00	RW
Manganese, Dissolved	4.631	mg/l	0.0010	1 6020	0316 16:00	0317 13:55	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:24	DM
Nickel, Dissolved	0.0095	mg/l	0.0005	1 6020	0316 16:00	0317 14:00	RW
Potassium, Dissolved	8.02	mg/l	0.100	1 6020	0316 16:00	0317 14:00	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0316 16:00	0317 14:00	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 14:00	RW
Sodium, Dissolved	159.	mg/l	0.500	1 6020	0316 16:00	0317 13:55	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 14:00	RW
Vanadium, Dissolved	0.0006	mg/l	0.0002	1 6020	0316 16:00	0317 14:00	RW
Zinc, Dissolved	0.0119	mg/l	0.0050	1 6020	0316 16:00	0317 14:00	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0317 09:58 BT		
Methylene chloride	ND	ug/l	25.				
1,1-Dichloroethane	ND	ug/l	3.8				
Chloroform	ND	ug/l	3.8				
Carbon tetrachloride	ND	ug/l	2.5				
1,2-Dichloropropane	ND	ug/l	8.8				
Dibromochloromethane	ND	ug/l	2.5				
1,1,2-Trichloroethane	ND	ug/l	3.8				
Tetrachloroethene	ND	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
Trichlorofluoromethane	ND	ug/l	12.				
1,2-Dichloroethane	ND	ug/l	2.5				
1,1,1-Trichloroethane	ND	ug/l	2.5				
Bromodichloromethane	ND	ug/l	2.5				
trans-1,3-Dichloropropene	ND	ug/l	2.5				
cis-1,3-Dichloropropene	ND	ug/l	2.5				
1,1-Dichloropropene	ND	ug/l	12.				
Bromoform	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Benzene	ND	ug/l	2.5				
Toluene	ND	ug/l	3.8				
Ethylbenzene	ND	ug/l	2.5				
Chloromethane	ND	ug/l	12.				
Bromomethane	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	5.0				
Chloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	3.8				
Trichloroethene	ND	ug/l	2.5				
1,2-Dichlorobenzene	ND	ug/l	12.				
1,3-Dichlorobenzene	ND	ug/l	12.				
1,4-Dichlorobenzene	ND	ug/l	12.				
Methyl tert butyl ether	ND	ug/l	5.0				
p/m-Xylene	ND	ug/l	2.5				
o-Xylene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-01  
 MW/CB-3 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0317	09:58 BT
cis-1,2-Dichloroethene	ND	ug/l	2.5				
Dibromomethane	ND	ug/l	25.				
1,4-Dichlorobutane	ND	ug/l	25.				
Iodomethane	ND	ug/l	25.				
1,2,3-Trichloropropane	ND	ug/l	25.				
Styrene	ND	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
Acetone	ND	ug/l	25.				
Carbon disulfide	ND	ug/l	25.				
2-Butanone	ND	ug/l	25.				
Vinyl acetate	ND	ug/l	25.				
4-Methyl-2-pentanone	ND	ug/l	25.				
2-Hexanone	ND	ug/l	25.				
Ethyl methacrylate	ND	ug/l	25.				
Acrolein	ND	ug/l	62.				
Acrylonitrile	ND	ug/l	25.				
Bromochloromethane	ND	ug/l	12.				
Tetrahydrofuran	ND	ug/l	50.				
2,2-Dichloropropane	ND	ug/l	12.				
1,2-Dibromoethane	ND	ug/l	10.				
1,3-Dichloropropane	ND	ug/l	12.				
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5				
Bromobenzene	ND	ug/l	12.				
n-Butylbenzene	ND	ug/l	2.5				
sec-Butylbenzene	2.5	ug/l	2.5				
tert-Butylbenzene	ND	ug/l	12.				
o-Chlorotoluene	ND	ug/l	12.				
p-Chlorotoluene	ND	ug/l	12.				
1,2-Dibromo-3-chloropropane	ND	ug/l	12.				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropylbenzene	11.	ug/l	2.5				
p-Isopropyltoluene	ND	ug/l	2.5				
Naphthalene	ND	ug/l	12.				
n-Propylbenzene	6.1	ug/l	2.5				
1,2,3-Trichlorobenzene	ND	ug/l	12.				
1,2,4-Trichlorobenzene	ND	ug/l	12.				
1,3,5-Trimethylbenzene	ND	ug/l	12.				
1,2,4-Trimethylbenzene	ND	ug/l	12.				
trans-1,4-Dichloro-2-butene	ND	ug/l	12.				
Ethyl ether	ND	ug/l	12.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	113.	%					
Toluene-d8	114.	%					
4-Bromofluorobenzene	115.	%					
Dibromofluoromethane	106.	%					
SVOC's by GC/MS 8270				1	8270C	0315	19:30 0317 15:01 HL
Acenaphthene	ND	ug/l	4.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-01  
MW/CB-3 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 15:01	HL
Benzidine	ND	ug/l	48.				
1,2,4-Trichlorobenzene	ND	ug/l	4.8				
Hexachlorobenzene	ND	ug/l	4.8				
Bis(2-chloroethyl)ether	ND	ug/l	4.8				
1-Chloronaphthalene	ND	ug/l	4.8				
2-Chloronaphthalene	ND	ug/l	5.8				
1,2-Dichlorobenzene	ND	ug/l	4.8				
1,3-Dichlorobenzene	ND	ug/l	4.8				
1,4-Dichlorobenzene	ND	ug/l	4.8				
3,3'-Dichlorobenzidine	ND	ug/l	48.				
2,4-Dinitrotoluene	ND	ug/l	5.8				
2,6-Dinitrotoluene	ND	ug/l	4.8				
Azobenzene	ND	ug/l	4.8				
Fluoranthene	ND	ug/l	4.8				
4-Chlorophenyl phenyl ether	ND	ug/l	4.8				
4-Bromophenyl phenyl ether	ND	ug/l	4.8				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8				
Bis(2-chloroethoxy)methane	ND	ug/l	4.8				
Hexachlorobutadiene	ND	ug/l	9.7				
Hexachlorocyclopentadiene	ND	ug/l	9.7				
Hexachloroethane	ND	ug/l	4.8				
Isophorone	ND	ug/l	4.8				
Naphthalene	ND	ug/l	4.8				
Nitrobenzene	ND	ug/l	4.8				
NDPA/DPA	ND	ug/l	14.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.8				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.7				
Butyl benzyl phthalate	ND	ug/l	4.8				
Di-n-butylphthalate	ND	ug/l	4.8				
Di-n-octylphthalate	ND	ug/l	4.8				
Diethyl phthalate	ND	ug/l	4.8				
Dimethyl phthalate	ND	ug/l	4.8				
Benzo(a)anthracene	ND	ug/l	4.8				
Benzo(a)pyrene	ND	ug/l	4.8				
Benzo(b)fluoranthene	ND	ug/l	4.8				
Benzo(k)fluoranthene	ND	ug/l	4.8				
Chrysene	ND	ug/l	4.8				
Acenaphthylene	ND	ug/l	4.8				
Anthracene	ND	ug/l	4.8				
Benzo(ghi)perylene	ND	ug/l	4.8				
Fluorene	ND	ug/l	4.8				
Phenanthrene	ND	ug/l	4.8				
Dibenzo(a,h)anthracene	ND	ug/l	4.8				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.8				
Pyrene	ND	ug/l	4.8				
Benzo(e)pyrene	ND	ug/l	4.8				
Biphenyl	ND	ug/l	4.8				
Perylene	ND	ug/l	4.8				
Aniline	ND	ug/l	9.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-01  
MW/CB-3 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 15:01	HL
4-Chloroaniline	ND	ug/l	4.8				
1-Methylnaphthalene	ND	ug/l	4.8				
2-Nitroaniline	ND	ug/l	4.8				
3-Nitroaniline	ND	ug/l	4.8				
4-Nitroaniline	ND	ug/l	6.8				
Dibenzofuran	ND	ug/l	4.8				
a,a-Dimethylphenethylamine	ND	ug/l	48.				
Hexachloropropene	ND	ug/l	9.7				
Nitrosodi-n-butylamine	ND	ug/l	9.7				
2-Methylnaphthalene	ND	ug/l	7.7				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	19.				
Pentachlorobenzene	ND	ug/l	19.				
a-Naphthylamine	ND	ug/l	19.				
b-Naphthylamine	ND	ug/l	19.				
Phenacetin	ND	ug/l	9.7				
Dimethoate	ND	ug/l	19.				
4-Aminobiphenyl	ND	ug/l	9.7				
Pentachloronitrobenzene	ND	ug/l	9.7				
Isodrin	ND	ug/l	9.7				
p-Dimethylaminoazobenzene	ND	ug/l	9.7				
Chlorobenzilate	ND	ug/l	19.				
3-Methylcholanthrene	ND	ug/l	19.				
Ethyl Methanesulfonate	ND	ug/l	14.				
Acetophenone	ND	ug/l	19.				
Nitrosodipiperidine	ND	ug/l	19.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.7				
n-Nitrosodimethylamine	ND	ug/l	48.				
2,4,6-Trichlorophenol	ND	ug/l	4.8				
p-Chloro-m-cresol	ND	ug/l	4.8				
2-Chlorophenol	ND	ug/l	5.8				
2,4-Dichlorophenol	ND	ug/l	9.7				
2,4-Dimethylphenol	ND	ug/l	9.7				
2-Nitrophenol	ND	ug/l	19.				
4-Nitrophenol	ND	ug/l	9.7				
2,4-Dinitrophenol	ND	ug/l	19.				
4,6-Dinitro-o-cresol	ND	ug/l	19.				
Pentachlorophenol	ND	ug/l	19.				
Phenol	ND	ug/l	6.8				
2-Methylphenol	ND	ug/l	5.8				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8				
2,4,5-Trichlorophenol	ND	ug/l	4.8				
2,6-Dichlorophenol	ND	ug/l	9.7				
Benzoic Acid	ND	ug/l	48.				
Benzyl Alcohol	ND	ug/l	9.7				
Carbazole	ND	ug/l	4.8				
Pyridine	ND	ug/l	48.				
2-Picoline	ND	ug/l	19.				
Pronamide	ND	ug/l	19.				
Methyl methanesulfonate	ND	ug/l	19.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-01  
 MW/CB-3 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 15:01 HL
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	44.0	%					
Phenol-d6	38.0	%					
Nitrobenzene-d5	88.0	%					
2-Fluorobiphenyl	85.0	%					
2,4,6-Tribromophenol	98.0	%					
4-Terphenyl-d14	87.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0315 19:30	0316 13:53 RL
Acenaphthene	ND	ug/l	0.19				
2-Chloronaphthalene	ND	ug/l	0.19				
Fluoranthene	1.5	ug/l	0.19				
Hexachlorobutadiene	ND	ug/l	0.48				
Naphthalene	0.36	ug/l	0.19				
Benzo(a)anthracene	ND	ug/l	0.19				
Benzo(a)pyrene	ND	ug/l	0.19				
Benzo(b)fluoranthene	ND	ug/l	0.19				
Benzo(k)fluoranthene	ND	ug/l	0.19				
Chrysene	ND	ug/l	0.19				
Acenaphthylene	ND	ug/l	0.19				
Anthracene	ND	ug/l	0.19				
Benzo(ghi)perylene	ND	ug/l	0.19				
Fluorene	ND	ug/l	0.19				
Phenanthrene	0.99	ug/l	0.19				
Dibenzo(a,h)anthracene	ND	ug/l	0.19				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.19				
Pyrene	2.2	ug/l	0.19				
1-Methylnaphthalene	0.35	ug/l	0.19				
2-Methylnaphthalene	ND	ug/l	0.19				
Pentachlorophenol	ND	ug/l	0.77				
Hexachlorobenzene	ND	ug/l	0.77				
Perylene	ND	ug/l	0.19				
Biphenyl	ND	ug/l	0.19				
2,6-Dimethylnaphthalene	0.22	ug/l	0.19				
1-Methylphenanthrene	ND	ug/l	0.19				
Benzo(e)Pyrene	ND	ug/l	0.19				
Hexachloroethane	ND	ug/l	0.77				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	58.0	%	21-120				
Phenol-d6	45.0	%	10-120				
Nitrobenzene-d5	97.0	%	23-120				
2-Fluorobiphenyl	85.0	%	43-120				
2,4,6-Tribromophenol	88.0	%	10-120				
4-Terphenyl-d14	95.0	%	33-120				
Polychlorinated Biphenyls				1	8082	0315 22:15	0317 12:03 JB
Aroclor 1221	ND	ug/l	0.515				
Aroclor 1232	ND	ug/l	0.515				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-01  
 MW/CB-3 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0315 22:15	0317 12:03	JB
Aroclor 1242/1016	ND	ug/l	0.515				
Aroclor 1248	ND	ug/l	0.515				
Aroclor 1254	ND	ug/l	0.515				
Aroclor 1260	ND	ug/l	0.515				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	86.0	%	30-150				
Decachlorobiphenyl	59.0	%	30-150				
Organochlorine Pesticides				1 8081	0315 22:20	0317 12:49	AK
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	73.0	%	30-150				
Decachlorobiphenyl	54.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502589-02      Date Collected: 14-MAR-2005 09:40  
 MW/CB-4 (GROUNDWATER)      Date Received : 15-MAR-2005  
 Sample Matrix: WATER      Date Reported : 21-MAR-2005

Condition of Sample: Satisfactory      Field Prep: Field Filtered

Number & Type of Containers: 6-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	7.44	mg/l	0.010	1 6020	0316 16:00	0317 12:20	RW
Antimony, Total	0.0019	mg/l	0.0002	1 6020	0316 16:00	0317 12:20	RW
Arsenic, Total	0.0082	mg/l	0.0004	1 6020	0316 16:00	0317 12:20	RW
Barium, Total	1.013	mg/l	0.0002	1 6020	0316 16:00	0317 12:20	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 12:20	RW
Cadmium, Total	0.0012	mg/l	0.0004	1 6020	0316 16:00	0317 12:20	RW
Calcium, Total	932.	mg/l	2.00	1 6020	0316 16:00	0317 16:28	RW
Chromium, Total	0.0658	mg/l	0.0002	1 6020	0316 16:00	0317 12:20	RW
Cobalt, Total	0.0082	mg/l	0.0001	1 6020	0316 16:00	0317 12:20	RW
Copper, Total	0.0270	mg/l	0.0005	1 6020	0316 16:00	0317 12:20	RW
Iron, Total	29.9	mg/l	0.010	1 6020	0316 16:00	0317 12:20	RW
Lead, Total	0.0372	mg/l	0.0002	1 6020	0316 16:00	0317 12:20	RW
Magnesium, Total	51.0	mg/l	0.010	1 6020	0316 16:00	0317 12:20	RW
Manganese, Total	1.461	mg/l	0.0002	1 6020	0316 16:00	0317 12:20	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:55	DM
Nickel, Total	0.0167	mg/l	0.0005	1 6020	0316 16:00	0317 12:20	RW
Potassium, Total	36.0	mg/l	0.100	1 6020	0316 16:00	0317 12:20	RW
Selenium, Total	0.003	mg/l	0.001	1 6020	0316 16:00	0317 12:20	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 12:20	RW
Sodium, Total	381.	mg/l	1.00	1 6020	0316 16:00	0317 16:28	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 12:20	RW
Vanadium, Total	0.0204	mg/l	0.0002	1 6020	0316 16:00	0317 12:20	RW
Zinc, Total	0.7441	mg/l	0.0050	1 6020	0316 16:00	0317 12:20	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.018	mg/l	0.010	1 6020	0316 16:00	0317 14:48	RW
Antimony, Dissolved	0.0059	mg/l	0.0002	1 6020	0316 16:00	0317 14:48	RW
Arsenic, Dissolved	0.0041	mg/l	0.0004	1 6020	0316 16:00	0317 14:48	RW
Barium, Dissolved	1.160	mg/l	0.0002	1 6020	0316 16:00	0317 14:48	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0318 13:34	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0316 16:00	0317 14:48	RW
Calcium, Dissolved	1260	mg/l	2.00	1 6020	0316 16:00	0317 17:00	RW
Chromium, Dissolved	0.0007	mg/l	0.0002	1 6020	0316 16:00	0317 14:48	RW
Cobalt, Dissolved	0.0069	mg/l	0.0001	1 6020	0316 16:00	0317 14:48	RW
Copper, Dissolved	0.0277	mg/l	0.0005	1 6020	0316 16:00	0317 14:48	RW
Iron, Dissolved	13.2	mg/l	0.010	1 6020	0316 16:00	0317 14:48	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-02  
 MW/CB-4 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0014	mg/l	0.0002	1 6020	0316 16:00	0317 14:48	RW
Magnesium, Dissolved	51.1	mg/l	0.010	1 6020	0316 16:00	0317 14:48	RW
Manganese, Dissolved	1.431	mg/l	0.0002	1 6020	0316 16:00	0317 14:48	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:25	DM
Nickel, Dissolved	0.0151	mg/l	0.0005	1 6020	0316 16:00	0317 14:48	RW
Potassium, Dissolved	41.4	mg/l	0.100	1 6020	0316 16:00	0317 14:48	RW
Selenium, Dissolved	0.003	mg/l	0.001	1 6020	0316 16:00	0317 14:48	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 14:48	RW
Sodium, Dissolved	487.	mg/l	1.00	1 6020	0316 16:00	0317 17:00	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 14:48	RW
Vanadium, Dissolved	0.0014	mg/l	0.0002	1 6020	0316 16:00	0317 14:48	RW
Zinc, Dissolved	0.5777	mg/l	0.0050	1 6020	0316 16:00	0317 14:48	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0317 10:34 BT		
Methylene chloride	ND	ug/l	50.				
1,1-Dichloroethane	ND	ug/l	7.5				
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	18.				
Dibromochloromethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	7.5				
Tetrachloroethene	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	25.				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
Bromodichloromethane	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
1,1-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Toluene	ND	ug/l	7.5				
Ethylbenzene	270	ug/l	5.0				
Chloromethane	ND	ug/l	25.				
Bromomethane	ND	ug/l	10.				
Vinyl chloride	ND	ug/l	10.				
Chloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	7.5				
Trichloroethene	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	25.				
1,3-Dichlorobenzene	ND	ug/l	25.				
1,4-Dichlorobenzene	ND	ug/l	25.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	640	ug/l	5.0				
o-Xylene	88.	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-02  
MW/CB-4 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0317	10:34 BT
cis-1,2-Dichloroethene	ND	ug/l	5.0				
Dibromomethane	ND	ug/l	50.				
1,4-Dichlorobutane	ND	ug/l	50.				
Iodomethane	ND	ug/l	50.				
1,2,3-Trichloropropane	ND	ug/l	50.				
Styrene	ND	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
Acetone	ND	ug/l	50.				
Carbon disulfide	ND	ug/l	50.				
2-Butanone	ND	ug/l	50.				
Vinyl acetate	ND	ug/l	50.				
4-Methyl-2-pentanone	ND	ug/l	50.				
2-Hexanone	ND	ug/l	50.				
Ethyl methacrylate	ND	ug/l	50.				
Acrolein	ND	ug/l	120				
Acrylonitrile	ND	ug/l	50.				
Bromochloromethane	ND	ug/l	25.				
Tetrahydrofuran	ND	ug/l	100				
2,2-Dichloropropane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	20.				
1,3-Dichloropropane	ND	ug/l	25.				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	25.				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	25.				
o-Chlorotoluene	ND	ug/l	25.				
p-Chlorotoluene	ND	ug/l	25.				
1,2-Dibromo-3-chloropropane	ND	ug/l	25.				
Hexachlorobutadiene	ND	ug/l	10.				
Isopropylbenzene	410	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	25.				
n-Propylbenzene	160	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	25.				
1,2,4-Trichlorobenzene	ND	ug/l	25.				
1,3,5-Trimethylbenzene	ND	ug/l	25.				
1,2,4-Trimethylbenzene	ND	ug/l	25.				
trans-1,4-Dichloro-2-butene	ND	ug/l	25.				
Ethyl ether	ND	ug/l	25.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	108.	%					
Toluene-d8	108.	%					
4-Bromofluorobenzene	110.	%					
Dibromofluoromethane	103.	%					
SVOC's by GC/MS 8270				1	8270C	0315	19:30 0317 15:26 HL
Acenaphthene	ND	ug/l	4.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-02  
 MW/CB-4 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 15:26 HL
Benzidine	ND	ug/l	48.				
1,2,4-Trichlorobenzene	ND	ug/l	4.8				
Hexachlorobenzene	ND	ug/l	4.8				
Bis(2-chloroethyl)ether	ND	ug/l	4.8				
1-Chloronaphthalene	ND	ug/l	4.8				
2-Chloronaphthalene	ND	ug/l	5.8				
1,2-Dichlorobenzene	ND	ug/l	4.8				
1,3-Dichlorobenzene	ND	ug/l	4.8				
1,4-Dichlorobenzene	ND	ug/l	4.8				
3,3'-Dichlorobenzidine	ND	ug/l	48.				
2,4-Dinitrotoluene	ND	ug/l	5.8				
2,6-Dinitrotoluene	ND	ug/l	4.8				
Azobenzene	ND	ug/l	4.8				
Fluoranthene	ND	ug/l	4.8				
4-Chlorophenyl phenyl ether	ND	ug/l	4.8				
4-Bromophenyl phenyl ether	ND	ug/l	4.8				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8				
Bis(2-chloroethoxy)methane	ND	ug/l	4.8				
Hexachlorobutadiene	ND	ug/l	9.6				
Hexachlorocyclopentadiene	ND	ug/l	9.6				
Hexachloroethane	ND	ug/l	4.8				
Isophorone	ND	ug/l	4.8				
Naphthalene	ND	ug/l	4.8				
Nitrobenzene	ND	ug/l	4.8				
NDPA/DPA	ND	ug/l	14.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.8				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.6				
Butyl benzyl phthalate	ND	ug/l	4.8				
Di-n-butylphthalate	ND	ug/l	4.8				
Di-n-octylphthalate	ND	ug/l	4.8				
Diethyl phthalate	ND	ug/l	4.8				
Dimethyl phthalate	ND	ug/l	4.8				
Benzo(a)anthracene	ND	ug/l	4.8				
Benzo(a)pyrene	ND	ug/l	4.8				
Benzo(b)fluoranthene	ND	ug/l	4.8				
Benzo(k)fluoranthene	ND	ug/l	4.8				
Chrysene	ND	ug/l	4.8				
Acenaphthylene	ND	ug/l	4.8				
Anthracene	ND	ug/l	4.8				
Benzo(ghi)perylene	ND	ug/l	4.8				
Fluorene	ND	ug/l	4.8				
Phenanthrene	ND	ug/l	4.8				
Dibenzo(a,h)anthracene	ND	ug/l	4.8				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.7				
Pyrene	6.5	ug/l	4.8				
Benzo(e)pyrene	ND	ug/l	4.8				
Biphenyl	ND	ug/l	4.8				
Perylene	ND	ug/l	4.8				
Aniline	ND	ug/l	9.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-02  
 MW/CB-4 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 15:26 HL
4-Chloroaniline	ND	ug/l	4.8				
1-Methylnaphthalene	ND	ug/l	4.8				
2-Nitroaniline	ND	ug/l	4.8				
3-Nitroaniline	ND	ug/l	4.8				
4-Nitroaniline	ND	ug/l	6.7				
Dibenzofuran	ND	ug/l	4.8				
a,a-Dimethylphenethylamine	ND	ug/l	48.				
Hexachloropropene	ND	ug/l	9.6				
Nitrosodi-n-butylamine	ND	ug/l	9.6				
2-Methylnaphthalene	ND	ug/l	7.7				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	19.				
Pentachlorobenzene	ND	ug/l	19.				
a-Naphthylamine	ND	ug/l	19.				
b-Naphthylamine	ND	ug/l	19.				
Phenacetin	ND	ug/l	9.6				
Dimethoate	ND	ug/l	19.				
4-Aminobiphenyl	ND	ug/l	9.6				
Pentachloronitrobenzene	ND	ug/l	9.6				
Isodrin	ND	ug/l	9.6				
p-Dimethylaminoazobenzene	ND	ug/l	9.6				
Chlorobenzilate	ND	ug/l	19.				
3-Methylcholanthrene	ND	ug/l	19.				
Ethyl Methanesulfonate	ND	ug/l	14.				
Acetophenone	ND	ug/l	19.				
Nitrosodipiperidine	ND	ug/l	19.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.6				
n-Nitrosodimethylamine	ND	ug/l	48.				
2,4,6-Trichlorophenol	ND	ug/l	4.8				
p-Chloro-m-cresol	ND	ug/l	4.8				
2-Chlorophenol	ND	ug/l	5.8				
2,4-Dichlorophenol	ND	ug/l	9.6				
2,4-Dimethylphenol	ND	ug/l	9.6				
2-Nitrophenol	ND	ug/l	19.				
4-Nitrophenol	ND	ug/l	9.6				
2,4-Dinitrophenol	ND	ug/l	19.				
4,6-Dinitro-o-cresol	ND	ug/l	19.				
Pentachlorophenol	ND	ug/l	19.				
Phenol	ND	ug/l	6.7				
2-Methylphenol	ND	ug/l	5.8				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8				
2,4,5-Trichlorophenol	ND	ug/l	4.8				
2,6-Dichlorophenol	ND	ug/l	9.6				
Benzoic Acid	ND	ug/l	48.				
Benzyl Alcohol	ND	ug/l	9.6				
Carbazole	ND	ug/l	4.8				
Pyridine	ND	ug/l	48.				
2-Picoline	ND	ug/l	19.				
Pronamide	ND	ug/l	19.				
Methyl methanesulfonate	ND	ug/l	19.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-02  
MW/CB-4 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 15:26 HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	50.0	%					
Phenol-d6	39.0	%					
Nitrobenzene-d5	85.0	%					
2-Fluorobiphenyl	76.0	%					
2,4,6-Tribromophenol	94.0	%					
4-Terphenyl-d14	78.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0315 19:30	0316 13:12 RL
Acenaphthene	ND	ug/l	0.19				
2-Chloronaphthalene	ND	ug/l	0.19				
Fluoranthene	3.2	ug/l	0.19				
Hexachlorobutadiene	ND	ug/l	0.48				
Naphthalene	0.46	ug/l	0.19				
Benzo(a)anthracene	ND	ug/l	0.19				
Benzo(a)pyrene	ND	ug/l	0.19				
Benzo(b)fluoranthene	ND	ug/l	0.19				
Benzo(k)fluoranthene	ND	ug/l	0.19				
Chrysene	ND	ug/l	0.19				
Acenaphthylene	ND	ug/l	0.19				
Anthracene	ND	ug/l	0.19				
Benzo(ghi)perylene	0.34	ug/l	0.19				
Fluorene	ND	ug/l	0.19				
Phenanthrene	1.3	ug/l	0.19				
Dibenzo(a,h)anthracene	ND	ug/l	0.19				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.19				
Pyrene	7.4	ug/l	0.19				
1-Methylnaphthalene	0.23	ug/l	0.19				
2-Methylnaphthalene	0.24	ug/l	0.19				
Pentachlorophenol	ND	ug/l	0.77				
Hexachlorobenzene	ND	ug/l	0.77				
Perylene	ND	ug/l	0.19				
Biphenyl	ND	ug/l	0.19				
2,6-Dimethylnaphthalene	ND	ug/l	0.19				
1-Methylphenanthrene	ND	ug/l	0.19				
Benzo(e)Pyrene	ND	ug/l	0.19				
Hexachloroethane	ND	ug/l	0.77				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	56.0	%		21-120			
Phenol-d6	45.0	%		10-120			
Nitrobenzene-d5	90.0	%		23-120			
2-Fluorobiphenyl	81.0	%		43-120			
2,4,6-Tribromophenol	79.0	%		10-120			
4-Terphenyl-d14	81.0	%		33-120			
Polychlorinated Biphenyls				1	8082	0315 22:15	0316 23:03 JB
Aroclor 1221	ND	ug/l	0.588				
Aroclor 1232	ND	ug/l	0.588				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-02  
 MW/CB-4 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0315 22:15	0316 23:03	JB
Aroclor 1242/1016	ND	ug/l	0.588				
Aroclor 1248	ND	ug/l	0.588				
Aroclor 1254	ND	ug/l	0.588				
Aroclor 1260	ND	ug/l	0.588				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	65.0	%	30-150				
Decachlorobiphenyl	45.0	%	30-150				
Organochlorine Pesticides				1 8081	0315 22:20	0317 13:18	AK
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	66.0	%	30-150				
Decachlorobiphenyl	34.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

**Laboratory Sample Number:** L0502589-03      **Date Collected:** 14-MAR-2005 10:30  
**Sample Matrix:** MW/CB-5 (GROUNDWATER)      **Date Received :** 15-MAR-2005  
WATER      **Date Reported :** 21-MAR-2005

**Condition of Sample:** Satisfactory      **Field Prep:** Field Filtered

**Number & Type of Containers:** 6-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	0.261	mg/l	0.010	1 6020	0316 16:00	0317 11:42	RW
Antimony, Total	0.0013	mg/l	0.0002	1 6020	0316 16:00	0317 11:42	RW
Arsenic, Total	0.0010	mg/l	0.0004	1 6020	0316 16:00	0317 11:42	RW
Barium, Total	0.0526	mg/l	0.0002	1 6020	0316 16:00	0317 11:42	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 11:42	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0316 16:00	0317 11:42	RW
Calcium, Total	49.7	mg/l	0.200	1 6020	0316 16:00	0317 11:42	RW
Chromium, Total	0.0014	mg/l	0.0002	1 6020	0316 16:00	0317 11:42	RW
Cobalt, Total	0.0003	mg/l	0.0001	1 6020	0316 16:00	0317 11:42	RW
Copper, Total	0.0018	mg/l	0.0005	1 6020	0316 16:00	0317 11:42	RW
Iron, Total	0.534	mg/l	0.010	1 6020	0316 16:00	0317 11:42	RW
Lead, Total	0.0051	mg/l	0.0002	1 6020	0316 16:00	0317 11:42	RW
Magnesium, Total	6.66	mg/l	0.010	1 6020	0316 16:00	0317 11:42	RW
Manganese, Total	0.0393	mg/l	0.0002	1 6020	0316 16:00	0317 11:42	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 13:28	DM
Nickel, Total	0.0016	mg/l	0.0005	1 6020	0316 16:00	0317 11:42	RW
Potassium, Total	13.6	mg/l	0.100	1 6020	0316 16:00	0317 11:42	RW
Selenium, Total	0.001	mg/l	0.001	1 6020	0316 16:00	0317 11:42	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 11:42	RW
Sodium, Total	42.7	mg/l	0.100	1 6020	0316 16:00	0317 11:42	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 11:42	RW
Vanadium, Total	0.0010	mg/l	0.0002	1 6020	0316 16:00	0317 11:42	RW
Zinc, Total	0.0414	mg/l	0.0050	1 6020	0316 16:00	0317 11:42	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.030	mg/l	0.010	1 6020	0316 16:00	0317 14:53	RW
Antimony, Dissolved	0.0024	mg/l	0.0002	1 6020	0316 16:00	0317 14:53	RW
Arsenic, Dissolved	0.0010	mg/l	0.0004	1 6020	0316 16:00	0317 14:53	RW
Barium, Dissolved	0.0445	mg/l	0.0002	1 6020	0316 16:00	0317 14:53	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0318 13:39	RW
Cadmium, Dissolved	0.0009	mg/l	0.0004	1 6020	0316 16:00	0317 14:53	RW
Calcium, Dissolved	51.2	mg/l	0.200	1 6020	0316 16:00	0317 14:53	RW
Chromium, Dissolved	0.0003	mg/l	0.0002	1 6020	0316 16:00	0317 14:53	RW
Cobalt, Dissolved	0.0003	mg/l	0.0001	1 6020	0316 16:00	0317 14:53	RW
Copper, Dissolved	0.0212	mg/l	0.0005	1 6020	0316 16:00	0317 14:53	RW
Iron, Dissolved	0.164	mg/l	0.010	1 6020	0316 16:00	0317 14:53	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-03  
 MW/CB-5 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0008	mg/l	0.0002	1 6020	0316 16:00	0317 14:53	RW
Magnesium, Dissolved	6.68	mg/l	0.010	1 6020	0316 16:00	0317 14:53	RW
Manganese, Dissolved	0.0384	mg/l	0.0002	1 6020	0316 16:00	0317 14:53	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:29	DM
Nickel, Dissolved	0.0057	mg/l	0.0005	1 6020	0316 16:00	0317 14:53	RW
Potassium, Dissolved	14.2	mg/l	0.100	1 6020	0316 16:00	0317 14:53	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0316 16:00	0317 14:53	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 14:53	RW
Sodium, Dissolved	43.6	mg/l	0.100	1 6020	0316 16:00	0317 14:53	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 14:53	RW
Vanadium, Dissolved	0.0008	mg/l	0.0002	1 6020	0316 16:00	0317 14:53	RW
Zinc, Dissolved	0.0192	mg/l	0.0050	1 6020	0316 16:00	0317 14:53	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0317 11:10 BT		
Methylene chloride	ND	ug/l	200				
1,1-Dichloroethane	ND	ug/l	30.				
Chloroform	ND	ug/l	30.				
Carbon tetrachloride	ND	ug/l	20.				
1,2-Dichloropropane	ND	ug/l	70.				
Dibromochloromethane	ND	ug/l	20.				
1,1,2-Trichloroethane	ND	ug/l	30.				
Tetrachloroethene	ND	ug/l	20.				
Chlorobenzene	ND	ug/l	20.				
Trichlorofluoromethane	ND	ug/l	100				
1,2-Dichloroethane	ND	ug/l	20.				
1,1,1-Trichloroethane	ND	ug/l	20.				
Bromodichloromethane	ND	ug/l	20.				
trans-1,3-Dichloropropene	ND	ug/l	20.				
cis-1,3-Dichloropropene	ND	ug/l	20.				
1,1-Dichloropropene	ND	ug/l	100				
Bromoform	ND	ug/l	80.				
1,1,2,2-Tetrachloroethane	ND	ug/l	20.				
Benzene	66.	ug/l	20.				
Toluene	130	ug/l	30.				
Ethylbenzene	ND	ug/l	20.				
Chloromethane	ND	ug/l	100				
Bromomethane	ND	ug/l	40.				
Vinyl chloride	ND	ug/l	40.				
Chloroethane	ND	ug/l	40.				
1,1-Dichloroethene	ND	ug/l	20.				
trans-1,2-Dichloroethene	ND	ug/l	30.				
Trichloroethene	ND	ug/l	20.				
1,2-Dichlorobenzene	ND	ug/l	100				
1,3-Dichlorobenzene	ND	ug/l	100				
1,4-Dichlorobenzene	ND	ug/l	100				
Methyl tert butyl ether	ND	ug/l	40.				
p/m-Xylene	120	ug/l	20.				
o-Xylene	120	ug/l	20.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-03  
 MW/CB-5 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0317	11:10 BT
cis-1,2-Dichloroethene	ND	ug/l	20.				
Dibromomethane	ND	ug/l	200				
1,4-Dichlorobutane	ND	ug/l	200				
Iodomethane	ND	ug/l	200				
1,2,3-Trichloropropane	ND	ug/l	200				
Styrene	ND	ug/l	20.				
Dichlorodifluoromethane	ND	ug/l	200				
Acetone	ND	ug/l	200				
Carbon disulfide	ND	ug/l	200				
2-Butanone	ND	ug/l	200				
Vinyl acetate	ND	ug/l	200				
4-Methyl-2-pentanone	ND	ug/l	200				
2-Hexanone	ND	ug/l	200				
Ethyl methacrylate	ND	ug/l	200				
Acrolein	ND	ug/l	500				
Acrylonitrile	ND	ug/l	200				
Bromochloromethane	ND	ug/l	100				
Tetrahydrofuran	ND	ug/l	400				
2,2-Dichloropropane	ND	ug/l	100				
1,2-Dibromoethane	ND	ug/l	80.				
1,3-Dichloropropane	ND	ug/l	100				
1,1,1,2-Tetrachloroethane	ND	ug/l	20.				
Bromobenzene	ND	ug/l	100				
n-Butylbenzene	34.	ug/l	20.				
sec-Butylbenzene	ND	ug/l	20.				
tert-Butylbenzene	ND	ug/l	100				
o-Chlorotoluene	ND	ug/l	100				
p-Chlorotoluene	ND	ug/l	100				
1,2-Dibromo-3-chloropropane	ND	ug/l	100				
Hexachlorobutadiene	ND	ug/l	40.				
Isopropylbenzene	ND	ug/l	20.				
p-Isopropyltoluene	25.	ug/l	20.				
Naphthalene	160	ug/l	100				
n-Propylbenzene	ND	ug/l	20.				
1,2,3-Trichlorobenzene	ND	ug/l	100				
1,2,4-Trichlorobenzene	ND	ug/l	100				
1,3,5-Trimethylbenzene	400	ug/l	100				
1,2,4-Trimethylbenzene	1100	ug/l	100				
trans-1,4-Dichloro-2-butene	ND	ug/l	100				
Ethyl ether	ND	ug/l	100				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	105.	%					
Toluene-d8	99.0	%					
4-Bromofluorobenzene	93.0	%					
Dibromofluoromethane	103.	%					
SVOC's by GC/MS 8270				1	8270C	0315	19:30 0317 15:52 HL
Acenaphthene	ND	ug/l	4.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-03  
 MW/CB-5 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 15:52 HL
Benzidine	ND	ug/l	49.				
1,2,4-Trichlorobenzene	ND	ug/l	4.9				
Hexachlorobenzene	ND	ug/l	4.9				
Bis(2-chloroethyl)ether	ND	ug/l	4.9				
1-Chloronaphthalene	ND	ug/l	4.9				
2-Chloronaphthalene	ND	ug/l	5.9				
1,2-Dichlorobenzene	ND	ug/l	4.9				
1,3-Dichlorobenzene	ND	ug/l	4.9				
1,4-Dichlorobenzene	ND	ug/l	4.9				
3,3'-Dichlorobenzidine	ND	ug/l	49.				
2,4-Dinitrotoluene	ND	ug/l	5.9				
2,6-Dinitrotoluene	ND	ug/l	4.9				
Azobenzene	ND	ug/l	4.9				
Fluoranthene	ND	ug/l	4.9				
4-Chlorophenyl phenyl ether	ND	ug/l	4.9				
4-Bromophenyl phenyl ether	ND	ug/l	4.9				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9				
Bis(2-chloroethoxy)methane	ND	ug/l	4.9				
Hexachlorobutadiene	ND	ug/l	9.9				
Hexachlorocyclopentadiene	ND	ug/l	9.9				
Hexachloroethane	ND	ug/l	4.9				
Isophorone	ND	ug/l	4.9				
Naphthalene	100	ug/l	4.9				
Nitrobenzene	ND	ug/l	4.9				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.9				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.9				
Butyl benzyl phthalate	ND	ug/l	4.9				
Di-n-butylphthalate	ND	ug/l	4.9				
Di-n-octylphthalate	ND	ug/l	4.9				
Diethyl phthalate	ND	ug/l	4.9				
Dimethyl phthalate	ND	ug/l	4.9				
Benzo(a)anthracene	ND	ug/l	4.9				
Benzo(a)pyrene	ND	ug/l	4.9				
Benzo(b)fluoranthene	ND	ug/l	4.9				
Benzo(k)fluoranthene	ND	ug/l	4.9				
Chrysene	ND	ug/l	4.9				
Acenaphthylene	ND	ug/l	4.9				
Anthracene	ND	ug/l	4.9				
Benzo(ghi)perylene	ND	ug/l	4.9				
Fluorene	ND	ug/l	4.9				
Phenanthrene	ND	ug/l	4.9				
Dibenzo(a,h)anthracene	ND	ug/l	4.9				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.9				
Pyrene	ND	ug/l	4.9				
Benzo(e)pyrene	ND	ug/l	4.9				
Biphenyl	ND	ug/l	4.9				
Perylene	ND	ug/l	4.9				
Aniline	ND	ug/l	9.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-03  
 MW/CB-5 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 15:52	HL
4-Chloroaniline	ND	ug/l	4.9				
1-Methylnaphthalene	6.7	ug/l	4.9				
2-Nitroaniline	ND	ug/l	4.9				
3-Nitroaniline	ND	ug/l	4.9				
4-Nitroaniline	ND	ug/l	6.9				
Dibenzofuran	ND	ug/l	4.9				
a,a-Dimethylphenethylamine	ND	ug/l	49.				
Hexachloropropene	ND	ug/l	9.9				
Nitrosodi-n-butylamine	ND	ug/l	9.9				
2-Methylnaphthalene	ND	ug/l	7.9				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	9.9				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	9.9				
Pentachloronitrobenzene	ND	ug/l	9.9				
Isodrin	ND	ug/l	9.9				
p-Dimethylaminoazobenzene	ND	ug/l	9.9				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	55.	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.9				
n-Nitrosodimethylamine	ND	ug/l	49.				
2,4,6-Trichlorophenol	ND	ug/l	4.9				
p-Chloro-m-cresol	ND	ug/l	4.9				
2-Chlorophenol	ND	ug/l	5.9				
2,4-Dichlorophenol	ND	ug/l	9.9				
2,4-Dimethylphenol	12.	ug/l	9.9				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	9.9				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	6.9				
2-Methylphenol	ND	ug/l	5.9				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9				
2,4,5-Trichlorophenol	ND	ug/l	4.9				
2,6-Dichlorophenol	ND	ug/l	9.9				
Benzoic Acid	ND	ug/l	49.				
Benzyl Alcohol	ND	ug/l	9.9				
Carbazole	ND	ug/l	4.9				
Pyridine	ND	ug/l	49.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-03  
 MW/CB-5 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 15:52	HL
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	25.0	%					
Phenol-d6	27.0	%					
Nitrobenzene-d5	99.0	%					
2-Fluorobiphenyl	90.0	%					
2,4,6-Tribromophenol	62.0	%					
4-Terphenyl-d14	98.0	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0315 19:30	0316 16:07	RL
Acenaphthene	2.0	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	1.9	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.49				
Naphthalene	>40	ug/l	.2				
Benzo(a)anthracene	0.43	ug/l	0.20				
Benzo(a)pyrene	0.38	ug/l	0.20				
Benzo(b)fluoranthene	0.25	ug/l	0.20				
Benzo(k)fluoranthene	0.30	ug/l	0.20				
Chrysene	0.43	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	0.79	ug/l	0.20				
Benzo(ghi)perylene	0.34	ug/l	0.20				
Fluorene	1.9	ug/l	0.20				
Phenanthrene	4.1	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	0.22	ug/l	0.20				
Pyrene	1.8	ug/l	0.20				
1-Methylnaphthalene	4.3	ug/l	0.20				
2-Methylnaphthalene	6.3	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.79				
Hexachlorobenzene	ND	ug/l	0.79				
Perylene	ND	ug/l	0.20				
Biphenyl	0.56	ug/l	0.20				
2,6-Dimethylnaphthalene	0.54	ug/l	0.20				
1-Methylphenanthrene	0.20	ug/l	0.20				
Benzo(e)Pyrene	0.26	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.79				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	28.0	%	21-120				
Phenol-d6	31.0	%	10-120				
Nitrobenzene-d5	107.	%	23-120				
2-Fluorobiphenyl	87.0	%	43-120				
2,4,6-Tribromophenol	50.0	%	10-120				
4-Terphenyl-d14	97.0	%	33-120				
PAH by GC/MS SIM 8270M				1 8270C-M	0315 19:30	0317 13:12	RL
Naphthalene	110	ug/l	0.99				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-03  
 MW/CB-5 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls				1 8082	0315 22:15	0316 23:31	JB
Aroclor 1221	ND	ug/l	0.515				
Aroclor 1232	ND	ug/l	0.515				
Aroclor 1242/1016	ND	ug/l	0.515				
Aroclor 1248	ND	ug/l	0.515				
Aroclor 1254	ND	ug/l	0.515				
Aroclor 1260	ND	ug/l	0.515				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	70.0	%	30-150				
Decachlorobiphenyl	62.0	%	30-150				
Organochlorine Pesticides				1 8081	0315 22:20	0316 17:56	AK
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	55.0	%	30-150				
Decachlorobiphenyl	53.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I





**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-04  
 MW/CB-11 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0012	mg/l	0.0002	1 6020	0316 16:00	0317 14:59	RW
Magnesium, Dissolved	27.7	mg/l	0.010	1 6020	0316 16:00	0317 14:59	RW
Manganese, Dissolved	1.362	mg/l	0.0002	1 6020	0316 16:00	0317 14:59	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:33	DM
Nickel, Dissolved	0.0076	mg/l	0.0005	1 6020	0316 16:00	0317 14:59	RW
Potassium, Dissolved	19.8	mg/l	0.100	1 6020	0316 16:00	0317 14:59	RW
Selenium, Dissolved	0.002	mg/l	0.001	1 6020	0316 16:00	0317 14:59	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 14:59	RW
Sodium, Dissolved	335.	mg/l	1.00	1 6020	0316 16:00	0317 17:20	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 14:59	RW
Vanadium, Dissolved	0.0004	mg/l	0.0002	1 6020	0316 16:00	0317 14:59	RW
Zinc, Dissolved	0.0099	mg/l	0.0050	1 6020	0316 16:00	0317 14:59	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0317 11:46 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	1.5	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	1.0	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	3.6	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	12.	ug/l	0.50				
o-Xylene	2.2	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-04  
MW/CB-11 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0317	11:46 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	4.8	ug/l	0.50				
p-Isopropyltoluene	0.74	ug/l	0.50				
Naphthalene	3.2	ug/l	2.5				
n-Propylbenzene	1.8	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	2.6	ug/l	2.5				
1,2,4-Trimethylbenzene	7.4	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	109.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	94.0	%					
Dibromofluoromethane	102.	%					
SVOC's by GC/MS 8270				1	8270C	0315	19:30 0317 16:17 HL
Acenaphthene	ND	ug/l	4.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-04  
MW/CB-11 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 16:17	HL
Benzidine	ND	ug/l	49.				
1,2,4-Trichlorobenzene	ND	ug/l	4.9				
Hexachlorobenzene	ND	ug/l	4.9				
Bis(2-chloroethyl)ether	ND	ug/l	4.9				
1-Chloronaphthalene	ND	ug/l	4.9				
2-Chloronaphthalene	ND	ug/l	5.9				
1,2-Dichlorobenzene	ND	ug/l	4.9				
1,3-Dichlorobenzene	ND	ug/l	4.9				
1,4-Dichlorobenzene	ND	ug/l	4.9				
3,3'-Dichlorobenzidine	ND	ug/l	49.				
2,4-Dinitrotoluene	ND	ug/l	5.9				
2,6-Dinitrotoluene	ND	ug/l	4.9				
Azobenzene	ND	ug/l	4.9				
Fluoranthene	13.	ug/l	4.9				
4-Chlorophenyl phenyl ether	ND	ug/l	4.9				
4-Bromophenyl phenyl ether	ND	ug/l	4.9				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9				
Bis(2-chloroethoxy)methane	ND	ug/l	4.9				
Hexachlorobutadiene	ND	ug/l	9.8				
Hexachlorocyclopentadiene	ND	ug/l	9.8				
Hexachloroethane	ND	ug/l	4.9				
Isophorone	ND	ug/l	4.9				
Naphthalene	ND	ug/l	4.9				
Nitrobenzene	ND	ug/l	4.9				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.9				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.8				
Butyl benzyl phthalate	ND	ug/l	4.9				
Di-n-butylphthalate	ND	ug/l	4.9				
Di-n-octylphthalate	ND	ug/l	4.9				
Diethyl phthalate	ND	ug/l	4.9				
Dimethyl phthalate	ND	ug/l	4.9				
Benzo(a)anthracene	ND	ug/l	4.9				
Benzo(a)pyrene	ND	ug/l	4.9				
Benzo(b)fluoranthene	ND	ug/l	4.9				
Benzo(k)fluoranthene	ND	ug/l	4.9				
Chrysene	ND	ug/l	4.9				
Acenaphthylene	ND	ug/l	4.9				
Anthracene	ND	ug/l	4.9				
Benzo(ghi)perylene	ND	ug/l	4.9				
Fluorene	ND	ug/l	4.9				
Phenanthrene	5.5	ug/l	4.9				
Dibenzo(a,h)anthracene	ND	ug/l	4.9				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.8				
Pyrene	28.	ug/l	4.9				
Benzo(e)pyrene	ND	ug/l	4.9				
Biphenyl	ND	ug/l	4.9				
Perylene	ND	ug/l	4.9				
Aniline	ND	ug/l	9.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-04  
 MW/CB-11 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 16:17	HL
4-Chloroaniline	ND	ug/l	4.9				
1-Methylnaphthalene	ND	ug/l	4.9				
2-Nitroaniline	ND	ug/l	4.9				
3-Nitroaniline	ND	ug/l	4.9				
4-Nitroaniline	ND	ug/l	6.8				
Dibenzofuran	ND	ug/l	4.9				
a,a-Dimethylphenethylamine	ND	ug/l	49.				
Hexachloropropene	ND	ug/l	9.8				
Nitrosodi-n-butylamine	ND	ug/l	9.8				
2-Methylnaphthalene	ND	ug/l	7.8				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	9.8				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	9.8				
Pentachloronitrobenzene	ND	ug/l	9.8				
Isodrin	ND	ug/l	9.8				
p-Dimethylaminoazobenzene	ND	ug/l	9.8				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.8				
n-Nitrosodimethylamine	ND	ug/l	49.				
2,4,6-Trichlorophenol	ND	ug/l	4.9				
p-Chloro-m-cresol	ND	ug/l	4.9				
2-Chlorophenol	ND	ug/l	5.9				
2,4-Dichlorophenol	ND	ug/l	9.8				
2,4-Dimethylphenol	ND	ug/l	9.8				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	9.8				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	6.8				
2-Methylphenol	ND	ug/l	5.9				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9				
2,4,5-Trichlorophenol	ND	ug/l	4.9				
2,6-Dichlorophenol	ND	ug/l	9.8				
Benzoic Acid	ND	ug/l	49.				
Benzyl Alcohol	ND	ug/l	9.8				
Carbazole	ND	ug/l	4.9				
Pyridine	ND	ug/l	49.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-04  
MW/CB-11 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 16:17 HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	47.0	%					
Phenol-d6	37.0	%					
Nitrobenzene-d5	83.0	%					
2-Fluorobiphenyl	75.0	%					
2,4,6-Tribromophenol	87.0	%					
4-Terphenyl-d14	57.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0315 19:30	0316 16:53 RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	15.	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.49				
Naphthalene	1.1	ug/l	0.20				
Benzo(a)anthracene	0.30	ug/l	0.20				
Benzo(a)pyrene	0.55	ug/l	0.20				
Benzo(b)fluoranthene	0.42	ug/l	0.20				
Benzo(k)fluoranthene	0.58	ug/l	0.20				
Chrysene	0.51	ug/l	0.20				
Acenaphthylene	0.31	ug/l	0.20				
Anthracene	0.24	ug/l	0.20				
Benzo(ghi)perylene	3.3	ug/l	0.20				
Fluorene	0.53	ug/l	0.20				
Phenanthrene	5.9	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	0.68	ug/l	0.20				
Pyrene	30.	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.78				
Hexachlorobenzene	ND	ug/l	0.78				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	1.2	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.78				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	49.0	%		21-120			
Phenol-d6	39.0	%		10-120			
Nitrobenzene-d5	82.0	%		23-120			
2-Fluorobiphenyl	78.0	%		43-120			
2,4,6-Tribromophenol	69.0	%		10-120			
4-Terphenyl-d14	58.0	%		33-120			
Polychlorinated Biphenyls				1	8082	0315 22:15	0317 00:29 JB
Aroclor 1221	ND	ug/l	0.532				
Aroclor 1232	ND	ug/l	0.532				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-04  
 MW/CB-11 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0315 22:15	0317 00:29	JB
Aroclor 1242/1016	ND	ug/l	0.532				
Aroclor 1248	ND	ug/l	0.532				
Aroclor 1254	ND	ug/l	0.532				
Aroclor 1260	ND	ug/l	0.532				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	62.0	%	30-150				
Decachlorobiphenyl	20.0	%	30-150				
Organochlorine Pesticides				1 8081	0315 22:20	0316 18:25	AK
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	67.0	%	30-150				
Decachlorobiphenyl	18.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502589-05	Date Collected: 14-MAR-2005 12:10
MW/CB-18 (GROUNDWATER)	Date Received : 15-MAR-2005
Sample Matrix: WATER	Date Reported : 21-MAR-2005
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 6-Amber,2-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
<b>Total Metals</b>						
Aluminum, Total	4.65	mg/l	0.010	1 6020	0316 16:00 0317 12:46	RW
Antimony, Total	0.0004	mg/l	0.0002	1 6020	0316 16:00 0317 12:46	RW
Arsenic, Total	0.0026	mg/l	0.0004	1 6020	0316 16:00 0317 12:46	RW
Barium, Total	0.1437	mg/l	0.0002	1 6020	0316 16:00 0317 12:46	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0316 16:00 0317 12:46	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0316 16:00 0317 12:46	RW
Calcium, Total	144.	mg/l	2.00	1 6020	0316 16:00 0317 16:38	RW
Chromium, Total	0.0087	mg/l	0.0002	1 6020	0316 16:00 0317 12:46	RW
Cobalt, Total	0.0041	mg/l	0.0001	1 6020	0316 16:00 0317 12:46	RW
Copper, Total	0.0200	mg/l	0.0005	1 6020	0316 16:00 0317 12:46	RW
Iron, Total	7.16	mg/l	0.010	1 6020	0316 16:00 0317 12:46	RW
Lead, Total	0.0427	mg/l	0.0002	1 6020	0316 16:00 0317 12:46	RW
Magnesium, Total	27.6	mg/l	0.010	1 6020	0316 16:00 0317 12:46	RW
Manganese, Total	2.331	mg/l	0.0002	1 6020	0316 16:00 0317 12:46	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0316 16:00 0317 13:34	DM
Nickel, Total	0.0085	mg/l	0.0005	1 6020	0316 16:00 0317 12:46	RW
Potassium, Total	29.0	mg/l	0.100	1 6020	0316 16:00 0317 12:46	RW
Selenium, Total	0.001	mg/l	0.001	1 6020	0316 16:00 0317 12:46	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0316 16:00 0317 12:46	RW
Sodium, Total	109.	mg/l	0.100	1 6020	0316 16:00 0317 12:46	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0316 16:00 0317 12:46	RW
Vanadium, Total	0.010	mg/l	0.0002	1 6020	0316 16:00 0317 12:46	RW
Zinc, Total	0.0816	mg/l	0.0050	1 6020	0316 16:00 0317 12:46	RW
<b>Dissolved Metals</b>						
Aluminum, Dissolved	0.013	mg/l	0.010	1 6020	0316 16:00 0317 15:04	RW
Antimony, Dissolved	0.0019	mg/l	0.0002	1 6020	0316 16:00 0317 15:04	RW
Arsenic, Dissolved	0.0014	mg/l	0.0004	1 6020	0316 16:00 0317 15:04	RW
Barium, Dissolved	0.1070	mg/l	0.0002	1 6020	0316 16:00 0317 15:04	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00 0318 13:50	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0316 16:00 0317 15:04	RW
Calcium, Dissolved	156.	mg/l	2.00	1 6020	0316 16:00 0317 17:26	RW
Chromium, Dissolved	0.0002	mg/l	0.0002	1 6020	0316 16:00 0317 15:04	RW
Cobalt, Dissolved	0.0015	mg/l	0.0001	1 6020	0316 16:00 0317 15:04	RW
Copper, Dissolved	0.0301	mg/l	0.0005	1 6020	0316 16:00 0317 15:04	RW
Iron, Dissolved	0.820	mg/l	0.010	1 6020	0316 16:00 0317 15:04	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-05  
 MW/CB-18 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0009	mg/l	0.0002	1 6020	0316 16:00	0317 15:04	RW
Magnesium, Dissolved	30.0	mg/l	0.010	1 6020	0316 16:00	0317 15:04	RW
Manganese, Dissolved	2.620	mg/l	0.0002	1 6020	0316 16:00	0317 15:04	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:35	DM
Nickel, Dissolved	0.0075	mg/l	0.0005	1 6020	0316 16:00	0317 15:04	RW
Potassium, Dissolved	31.0	mg/l	0.100	1 6020	0316 16:00	0317 15:04	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0316 16:00	0317 15:04	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 15:04	RW
Sodium, Dissolved	111.	mg/l	0.100	1 6020	0316 16:00	0317 15:04	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 15:04	RW
Vanadium, Dissolved	0.0007	mg/l	0.0002	1 6020	0316 16:00	0317 15:04	RW
Zinc, Dissolved	0.0267	mg/l	0.0050	1 6020	0316 16:00	0317 15:04	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0317 12:22 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	1.6	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	0.84	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	36.	ug/l	1.0				
p/m-Xylene	3.1	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-05  
 MW/CB-18 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0317	12:22 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	1.2	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	0.58	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	105.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	99.0	%					
Dibromofluoromethane	100.	%					
SVOC's by GC/MS 8270				1	8270C	0315	19:30 0317 16:43 HL
Acenaphthene	ND	ug/l	4.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-05  
 MW/CB-18 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 16:43	HL
Benzidine	ND	ug/l	49.				
1,2,4-Trichlorobenzene	ND	ug/l	4.9				
Hexachlorobenzene	ND	ug/l	4.9				
Bis(2-chloroethyl)ether	ND	ug/l	4.9				
1-Chloronaphthalene	ND	ug/l	4.9				
2-Chloronaphthalene	ND	ug/l	5.9				
1,2-Dichlorobenzene	ND	ug/l	4.9				
1,3-Dichlorobenzene	ND	ug/l	4.9				
1,4-Dichlorobenzene	ND	ug/l	4.9				
3,3'-Dichlorobenzidine	ND	ug/l	49.				
2,4-Dinitrotoluene	ND	ug/l	5.9				
2,6-Dinitrotoluene	ND	ug/l	4.9				
Azobenzene	ND	ug/l	4.9				
Fluoranthene	5.6	ug/l	4.9				
4-Chlorophenyl phenyl ether	ND	ug/l	4.9				
4-Bromophenyl phenyl ether	ND	ug/l	4.9				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9				
Bis(2-chloroethoxy)methane	ND	ug/l	4.9				
Hexachlorobutadiene	ND	ug/l	9.8				
Hexachlorocyclopentadiene	ND	ug/l	9.8				
Hexachloroethane	ND	ug/l	4.9				
Isophorone	ND	ug/l	4.9				
Naphthalene	ND	ug/l	4.9				
Nitrobenzene	ND	ug/l	4.9				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.9				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.8				
Butyl benzyl phthalate	ND	ug/l	4.9				
Di-n-butylphthalate	ND	ug/l	4.9				
Di-n-octylphthalate	ND	ug/l	4.9				
Diethyl phthalate	ND	ug/l	4.9				
Dimethyl phthalate	ND	ug/l	4.9				
Benzo(a)anthracene	ND	ug/l	4.9				
Benzo(a)pyrene	ND	ug/l	4.9				
Benzo(b)fluoranthene	ND	ug/l	4.9				
Benzo(k)fluoranthene	ND	ug/l	4.9				
Chrysene	ND	ug/l	4.9				
Acenaphthylene	ND	ug/l	4.9				
Anthracene	ND	ug/l	4.9				
Benzo(ghi)perylene	ND	ug/l	4.9				
Fluorene	ND	ug/l	4.9				
Phenanthrene	ND	ug/l	4.9				
Dibenzo(a,h)anthracene	ND	ug/l	4.9				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.8				
Pyrene	10.	ug/l	4.9				
Benzo(e)pyrene	ND	ug/l	4.9				
Biphenyl	ND	ug/l	4.9				
Perylene	ND	ug/l	4.9				
Aniline	ND	ug/l	9.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-05  
 MW/CB-18 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 16:43	HL
4-Chloroaniline	ND	ug/l	4.9				
1-Methylnaphthalene	ND	ug/l	4.9				
2-Nitroaniline	ND	ug/l	4.9				
3-Nitroaniline	ND	ug/l	4.9				
4-Nitroaniline	ND	ug/l	6.8				
Dibenzofuran	ND	ug/l	4.9				
a,a-Dimethylphenethylamine	ND	ug/l	49.				
Hexachloropropene	ND	ug/l	9.8				
Nitrosodi-n-butylamine	ND	ug/l	9.8				
2-Methylnaphthalene	ND	ug/l	7.8				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	9.8				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	9.8				
Pentachloronitrobenzene	ND	ug/l	9.8				
Isodrin	ND	ug/l	9.8				
p-Dimethylaminoazobenzene	ND	ug/l	9.8				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.8				
n-Nitrosodimethylamine	ND	ug/l	49.				
2,4,6-Trichlorophenol	ND	ug/l	4.9				
p-Chloro-m-cresol	ND	ug/l	4.9				
2-Chlorophenol	ND	ug/l	5.9				
2,4-Dichlorophenol	ND	ug/l	9.8				
2,4-Dimethylphenol	ND	ug/l	9.8				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	9.8				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	6.8				
2-Methylphenol	ND	ug/l	5.9				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9				
2,4,5-Trichlorophenol	ND	ug/l	4.9				
2,6-Dichlorophenol	ND	ug/l	9.8				
Benzoic Acid	ND	ug/l	49.				
Benzyl Alcohol	ND	ug/l	9.8				
Carbazole	ND	ug/l	4.9				
Pyridine	ND	ug/l	49.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-05  
 MW/CB-18 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 16:43	HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	44.0	%					
Phenol-d6	34.0	%					
Nitrobenzene-d5	72.0	%					
2-Fluorobiphenyl	72.0	%					
2,4,6-Tribromophenol	85.0	%					
4-Terphenyl-d14	82.0	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0315 19:30	0316 17:39	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	6.6	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.49				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	0.51	ug/l	0.20				
Benzo(a)pyrene	1.1	ug/l	0.20				
Benzo(b)fluoranthene	0.86	ug/l	0.20				
Benzo(k)fluoranthene	1.3	ug/l	0.20				
Chrysene	0.62	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	1.5	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	1.7	ug/l	0.20				
Dibenzo(a,h)anthracene	0.21	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	0.92	ug/l	0.20				
Pyrene	12.	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.78				
Hexachlorobenzene	ND	ug/l	0.78				
Perylene	0.36	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	0.84	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.78				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	49.0	%		21-120			
Phenol-d6	38.0	%		10-120			
Nitrobenzene-d5	74.0	%		23-120			
2-Fluorobiphenyl	73.0	%		43-120			
2,4,6-Tribromophenol	69.0	%		10-120			
4-Terphenyl-d14	84.0	%		33-120			
Polychlorinated Biphenyls				1 8082	0315 22:15	0317 00:57	JB
Aroclor 1221	ND	ug/l	0.543				
Aroclor 1232	ND	ug/l	0.543				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-05  
 MW/CB-18 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0315 22:15	0317 00:57	JB
Aroclor 1242/1016	ND	ug/l	0.543				
Aroclor 1248	ND	ug/l	0.543				
Aroclor 1254	ND	ug/l	0.543				
Aroclor 1260	ND	ug/l	0.543				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	72.0	%	30-150				
Decachlorobiphenyl	34.0	%	30-150				
Organochlorine Pesticides				1 8081	0315 22:20	0316 19:22	AK
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	61.0	%	30-150				
Decachlorobiphenyl	34.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0502589-06	<b>Date Collected:</b> 14-MAR-2005 12:35
MW/CB-19 (GROUNDWATER)	<b>Date Received :</b> 15-MAR-2005
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 21-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> Field Filtered
<b>Number &amp; Type of Containers:</b> 6-Amber,2-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
<b>Total Metals</b>						
Aluminum, Total	27.6	mg/l	0.010	1 6020	0316 16:00 0317 12:52	RW
Antimony, Total	0.0005	mg/l	0.0002	1 6020	0316 16:00 0317 12:52	RW
Arsenic, Total	0.0113	mg/l	0.0004	1 6020	0316 16:00 0317 12:52	RW
Barium, Total	0.7092	mg/l	0.0002	1 6020	0316 16:00 0317 12:52	RW
Beryllium, Total	0.0020	mg/l	0.0005	1 6020	0316 16:00 0317 12:52	RW
Cadmium, Total	0.0019	mg/l	0.0004	1 6020	0316 16:00 0317 12:52	RW
Calcium, Total	264.	mg/l	2.00	1 6020	0316 16:00 0317 16:44	RW
Chromium, Total	0.1521	mg/l	0.0002	1 6020	0316 16:00 0317 12:52	RW
Cobalt, Total	0.0173	mg/l	0.0001	1 6020	0316 16:00 0317 12:52	RW
Copper, Total	0.0811	mg/l	0.0005	1 6020	0316 16:00 0317 12:52	RW
Iron, Total	41.2	mg/l	0.010	1 6020	0316 16:00 0317 12:52	RW
Lead, Total	0.1412	mg/l	0.0002	1 6020	0316 16:00 0317 12:52	RW
Magnesium, Total	49.1	mg/l	0.010	1 6020	0316 16:00 0317 12:52	RW
Manganese, Total	3.141	mg/l	0.0002	1 6020	0316 16:00 0317 12:52	RW
Mercury, Total	0.0003	mg/l	0.0002	1 7470A	0316 16:00 0317 13:36	DM
Nickel, Total	0.0415	mg/l	0.0005	1 6020	0316 16:00 0317 12:52	RW
Potassium, Total	23.9	mg/l	0.100	1 6020	0316 16:00 0317 12:52	RW
Selenium, Total	0.004	mg/l	0.001	1 6020	0316 16:00 0317 12:52	RW
Silver, Total	0.0002	mg/l	0.0001	1 6020	0316 16:00 0317 12:52	RW
Sodium, Total	430.	mg/l	1.00	1 6020	0316 16:00 0317 16:44	RW
Thallium, Total	0.0003	mg/l	0.0001	1 6020	0316 16:00 0317 12:52	RW
Vanadium, Total	0.0624	mg/l	0.0002	1 6020	0316 16:00 0317 12:52	RW
Zinc, Total	0.2790	mg/l	0.0050	1 6020	0316 16:00 0317 12:52	RW
<b>Dissolved Metals</b>						
Aluminum, Dissolved	0.012	mg/l	0.010	1 6020	0316 16:00 0317 15:10	RW
Antimony, Dissolved	0.0023	mg/l	0.0002	1 6020	0316 16:00 0317 15:10	RW
Arsenic, Dissolved	0.0009	mg/l	0.0004	1 6020	0316 16:00 0317 15:10	RW
Barium, Dissolved	0.4025	mg/l	0.0002	1 6020	0316 16:00 0317 15:10	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00 0318 13:56	RW
Cadmium, Dissolved	0.0013	mg/l	0.0004	1 6020	0316 16:00 0317 15:10	RW
Calcium, Dissolved	302.	mg/l	2.00	1 6020	0316 16:00 0317 17:31	RW
Chromium, Dissolved	0.0002	mg/l	0.0002	1 6020	0316 16:00 0317 15:10	RW
Cobalt, Dissolved	0.0010	mg/l	0.0001	1 6020	0316 16:00 0317 15:10	RW
Copper, Dissolved	0.0091	mg/l	0.0005	1 6020	0316 16:00 0317 15:10	RW
Iron, Dissolved	0.951	mg/l	0.010	1 6020	0316 16:00 0317 15:10	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-06  
 MW/CB-19 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0003	mg/l	0.0002	1 6020	0316 16:00	0317 15:10	RW
Magnesium, Dissolved	56.4	mg/l	0.010	1 6020	0316 16:00	0317 15:10	RW
Manganese, Dissolved	2.616	mg/l	0.0002	1 6020	0316 16:00	0317 15:10	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:40	DM
Nickel, Dissolved	0.0068	mg/l	0.0005	1 6020	0316 16:00	0317 15:10	RW
Potassium, Dissolved	22.5	mg/l	0.100	1 6020	0316 16:00	0317 15:10	RW
Selenium, Dissolved	0.001	mg/l	0.001	1 6020	0316 16:00	0317 15:10	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 15:10	RW
Sodium, Dissolved	592.	mg/l	1.00	1 6020	0316 16:00	0317 17:31	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 15:10	RW
Vanadium, Dissolved	0.0005	mg/l	0.0002	1 6020	0316 16:00	0317 15:10	RW
Zinc, Dissolved	0.0213	mg/l	0.0050	1 6020	0316 16:00	0317 15:10	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0317 12:58 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	2.7	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	11.	ug/l	1.0				
p/m-Xylene	6.3	ug/l	0.50				
o-Xylene	0.72	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-06  
 MW/CB-19 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B		0317 12:58	BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	9.7	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	2.7	ug/l	2.5				
n-Propylbenzene	4.8	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	2.5	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	108.	%					
Toluene-d8	105.	%					
4-Bromofluorobenzene	104.	%					
Dibromofluoromethane	103.	%					
SVOC's by GC/MS 8270				1 8270C		0315 19:30	0317 17:08 HL
Acenaphthene	ND	ug/l	4.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-06  
MW/CB-19 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 17:08	HL
Benzidine	ND	ug/l	49.				
1,2,4-Trichlorobenzene	ND	ug/l	4.9				
Hexachlorobenzene	ND	ug/l	4.9				
Bis(2-chloroethyl)ether	ND	ug/l	4.9				
1-Chloronaphthalene	ND	ug/l	4.9				
2-Chloronaphthalene	ND	ug/l	5.9				
1,2-Dichlorobenzene	ND	ug/l	4.9				
1,3-Dichlorobenzene	ND	ug/l	4.9				
1,4-Dichlorobenzene	ND	ug/l	4.9				
3,3'-Dichlorobenzidine	ND	ug/l	49.				
2,4-Dinitrotoluene	ND	ug/l	5.9				
2,6-Dinitrotoluene	ND	ug/l	4.9				
Azobenzene	ND	ug/l	4.9				
Fluoranthene	8.4	ug/l	4.9				
4-Chlorophenyl phenyl ether	ND	ug/l	4.9				
4-Bromophenyl phenyl ether	ND	ug/l	4.9				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9				
Bis(2-chloroethoxy)methane	ND	ug/l	4.9				
Hexachlorobutadiene	ND	ug/l	9.9				
Hexachlorocyclopentadiene	ND	ug/l	9.9				
Hexachloroethane	ND	ug/l	4.9				
Isophorone	ND	ug/l	4.9				
Naphthalene	ND	ug/l	4.9				
Nitrobenzene	ND	ug/l	4.9				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.9				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.9				
Butyl benzyl phthalate	ND	ug/l	4.9				
Di-n-butylphthalate	ND	ug/l	4.9				
Di-n-octylphthalate	ND	ug/l	4.9				
Diethyl phthalate	ND	ug/l	4.9				
Dimethyl phthalate	ND	ug/l	4.9				
Benzo(a)anthracene	ND	ug/l	4.9				
Benzo(a)pyrene	ND	ug/l	4.9				
Benzo(b)fluoranthene	ND	ug/l	4.9				
Benzo(k)fluoranthene	ND	ug/l	4.9				
Chrysene	ND	ug/l	4.9				
Acenaphthylene	ND	ug/l	4.9				
Anthracene	ND	ug/l	4.9				
Benzo(ghi)perylene	ND	ug/l	4.9				
Fluorene	ND	ug/l	4.9				
Phenanthrene	ND	ug/l	4.9				
Dibenzo(a,h)anthracene	ND	ug/l	4.9				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.9				
Pyrene	27.	ug/l	4.9				
Benzo(e)pyrene	ND	ug/l	4.9				
Biphenyl	ND	ug/l	4.9				
Perylene	ND	ug/l	4.9				
Aniline	ND	ug/l	9.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-06  
 MW/CB-19 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 17:08 HL
4-Chloroaniline	ND	ug/l	4.9				
1-Methylnaphthalene	ND	ug/l	4.9				
2-Nitroaniline	ND	ug/l	4.9				
3-Nitroaniline	ND	ug/l	4.9				
4-Nitroaniline	ND	ug/l	6.9				
Dibenzofuran	ND	ug/l	4.9				
a,a-Dimethylphenethylamine	ND	ug/l	49.				
Hexachloropropene	ND	ug/l	9.9				
Nitrosodi-n-butylamine	ND	ug/l	9.9				
2-Methylnaphthalene	ND	ug/l	7.9				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	9.9				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	9.9				
Pentachloronitrobenzene	ND	ug/l	9.9				
Isodrin	ND	ug/l	9.9				
p-Dimethylaminoazobenzene	ND	ug/l	9.9				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.9				
n-Nitrosodimethylamine	ND	ug/l	49.				
2,4,6-Trichlorophenol	ND	ug/l	4.9				
p-Chloro-m-cresol	ND	ug/l	4.9				
2-Chlorophenol	ND	ug/l	5.9				
2,4-Dichlorophenol	ND	ug/l	9.9				
2,4-Dimethylphenol	ND	ug/l	9.9				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	9.9				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	6.9				
2-Methylphenol	ND	ug/l	5.9				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9				
2,4,5-Trichlorophenol	ND	ug/l	4.9				
2,6-Dichlorophenol	ND	ug/l	9.9				
Benzoic Acid	ND	ug/l	49.				
Benzyl Alcohol	ND	ug/l	9.9				
Carbazole	ND	ug/l	4.9				
Pyridine	ND	ug/l	49.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-06  
MW/CB-19 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 17:08	HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	48.0	%					
Phenol-d6	37.0	%					
Nitrobenzene-d5	74.0	%					
2-Fluorobiphenyl	72.0	%					
2,4,6-Tribromophenol	92.0	%					
4-Terphenyl-d14	82.0	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0315 19:30	0316 18:25	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	10.	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.49				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	0.21	ug/l	0.20				
Benzo(a)pyrene	0.46	ug/l	0.20				
Benzo(b)fluoranthene	0.29	ug/l	0.20				
Benzo(k)fluoranthene	0.44	ug/l	0.20				
Chrysene	0.38	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	2.8	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	0.79	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	0.54	ug/l	0.20				
Pyrene	29.	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.79				
Hexachlorobenzene	ND	ug/l	0.79				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	0.89	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.79				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	53.0	%		21-120			
Phenol-d6	42.0	%		10-120			
Nitrobenzene-d5	78.0	%		23-120			
2-Fluorobiphenyl	73.0	%		43-120			
2,4,6-Tribromophenol	72.0	%		10-120			
4-Terphenyl-d14	84.0	%		33-120			
Polychlorinated Biphenyls				1 8082	0315 22:15	0317 01:26	JB
Aroclor 1221	ND	ug/l	0.556				
Aroclor 1232	ND	ug/l	0.556				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-06  
 MW/CB-19 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0315 22:15	0317 01:26	JB
Aroclor 1242/1016	ND	ug/l	0.556				
Aroclor 1248	ND	ug/l	0.556				
Aroclor 1254	ND	ug/l	0.556				
Aroclor 1260	ND	ug/l	0.556				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	70.0	%	30-150				
Decachlorobiphenyl	44.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 14:20	AK
Delta-BHC	ND	ug/l	0.022				
Lindane	ND	ug/l	0.022				
Alpha-BHC	ND	ug/l	0.022				
Beta-BHC	ND	ug/l	0.022				
Heptachlor	ND	ug/l	0.022				
Aldrin	ND	ug/l	0.022				
Heptachlor epoxide	ND	ug/l	0.022				
Endrin	ND	ug/l	0.044				
Endrin aldehyde	ND	ug/l	0.044				
Endrin ketone	ND	ug/l	0.044				
Dieldrin	ND	ug/l	0.044				
4,4'-DDE	ND	ug/l	0.044				
4,4'-DDD	ND	ug/l	0.044				
4,4'-DDT	ND	ug/l	0.044				
Endosulfan I	ND	ug/l	0.022				
Endosulfan II	ND	ug/l	0.044				
Endosulfan sulfate	ND	ug/l	0.044				
Methoxychlor	ND	ug/l	0.217				
Toxaphene	ND	ug/l	0.217				
Chlordane	ND	ug/l	0.217				
cis-Chlordane	ND	ug/l	0.022				
trans-Chlordane	ND	ug/l	0.022				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	46.0	%	30-150				
Decachlorobiphenyl	43.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502589-07 Date Collected: 14-MAR-2005 13:10  
MW/CB-1 (GROUNDWATER) Date Received : 15-MAR-2005  
Sample Matrix: WATER Date Reported : 21-MAR-2005  
Condition of Sample: Satisfactory Field Prep: Field Filtered  
Number & Type of Containers: 6-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	1.24	mg/l	0.010	1 6020	0316 16:00	0317 12:57	RW
Antimony, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 12:57	RW
Arsenic, Total	0.0024	mg/l	0.0004	1 6020	0316 16:00	0317 12:57	RW
Barium, Total	0.0372	mg/l	0.0002	1 6020	0316 16:00	0317 12:57	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 12:57	RW
Cadmium, Total	0.0004	mg/l	0.0004	1 6020	0316 16:00	0317 12:57	RW
Calcium, Total	54.6	mg/l	0.200	1 6020	0316 16:00	0317 12:57	RW
Chromium, Total	0.0029	mg/l	0.0002	1 6020	0316 16:00	0317 12:57	RW
Cobalt, Total	0.0057	mg/l	0.0001	1 6020	0316 16:00	0317 12:57	RW
Copper, Total	0.0073	mg/l	0.0005	1 6020	0316 16:00	0317 12:57	RW
Iron, Total	3.65	mg/l	0.010	1 6020	0316 16:00	0317 12:57	RW
Lead, Total	0.0037	mg/l	0.0002	1 6020	0316 16:00	0317 12:57	RW
Magnesium, Total	13.4	mg/l	0.010	1 6020	0316 16:00	0317 12:57	RW
Manganese, Total	1.538	mg/l	0.0002	1 6020	0316 16:00	0317 12:57	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 13:37	DM
Nickel, Total	0.0058	mg/l	0.0005	1 6020	0316 16:00	0317 12:57	RW
Potassium, Total	6.68	mg/l	0.100	1 6020	0316 16:00	0317 12:57	RW
Selenium, Total	ND	mg/l	0.001	1 6020	0316 16:00	0317 12:57	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 12:57	RW
Sodium, Total	44.5	mg/l	0.100	1 6020	0316 16:00	0317 12:57	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 12:57	RW
Vanadium, Total	0.0027	mg/l	0.0002	1 6020	0316 16:00	0317 12:57	RW
Zinc, Total	0.0333	mg/l	0.0050	1 6020	0316 16:00	0317 12:57	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.014	mg/l	0.010	1 6020	0316 16:00	0317 15:15	RW
Antimony, Dissolved	0.0015	mg/l	0.0002	1 6020	0316 16:00	0317 15:15	RW
Arsenic, Dissolved	0.0016	mg/l	0.0004	1 6020	0316 16:00	0317 15:15	RW
Barium, Dissolved	0.0265	mg/l	0.0002	1 6020	0316 16:00	0317 15:15	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0318 14:01	RW
Cadmium, Dissolved	0.0007	mg/l	0.0004	1 6020	0316 16:00	0317 15:15	RW
Calcium, Dissolved	52.6	mg/l	0.200	1 6020	0316 16:00	0317 15:15	RW
Chromium, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0317 15:15	RW
Cobalt, Dissolved	0.0043	mg/l	0.0001	1 6020	0316 16:00	0317 15:15	RW
Copper, Dissolved	0.0124	mg/l	0.0005	1 6020	0316 16:00	0317 15:15	RW
Iron, Dissolved	0.521	mg/l	0.010	1 6020	0316 16:00	0317 15:15	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-07  
 MW/CB-1 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0003	mg/l	0.0002	1 6020	0316 16:00	0317 15:15	RW
Magnesium, Dissolved	12.4	mg/l	0.010	1 6020	0316 16:00	0317 15:15	RW
Manganese, Dissolved	1.465	mg/l	0.0002	1 6020	0316 16:00	0317 15:15	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:42	DM
Nickel, Dissolved	0.0078	mg/l	0.0005	1 6020	0316 16:00	0317 15:15	RW
Potassium, Dissolved	6.79	mg/l	0.100	1 6020	0316 16:00	0317 15:15	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0316 16:00	0317 15:15	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 15:15	RW
Sodium, Dissolved	45.4	mg/l	0.100	1 6020	0316 16:00	0317 15:15	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 15:15	RW
Vanadium, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0317 15:15	RW
Zinc, Dissolved	0.0145	mg/l	0.0050	1 6020	0316 16:00	0317 15:15	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0317 13:34 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	0.59	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	2.0	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-07  
 MW/CB-1 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0317	13:34 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	0.94	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	0.54	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	103.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	100.	%					
Dibromofluoromethane	99.0	%					
SVOC's by GC/MS 8270				1	8270C	0315	19:30 0317 17:34 HL
Acenaphthene	ND	ug/l	4.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-07  
MW/CB-1 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 17:34	HL
Benzidine	ND	ug/l	48.				
1,2,4-Trichlorobenzene	ND	ug/l	4.8				
Hexachlorobenzene	ND	ug/l	4.8				
Bis(2-chloroethyl)ether	ND	ug/l	4.8				
1-Chloronaphthalene	ND	ug/l	4.8				
2-Chloronaphthalene	ND	ug/l	5.7				
1,2-Dichlorobenzene	ND	ug/l	4.8				
1,3-Dichlorobenzene	ND	ug/l	4.8				
1,4-Dichlorobenzene	ND	ug/l	4.8				
3,3'-Dichlorobenzidine	ND	ug/l	48.				
2,4-Dinitrotoluene	ND	ug/l	5.7				
2,6-Dinitrotoluene	ND	ug/l	4.8				
Azobenzene	ND	ug/l	4.8				
Fluoranthene	ND	ug/l	4.8				
4-Chlorophenyl phenyl ether	ND	ug/l	4.8				
4-Bromophenyl phenyl ether	ND	ug/l	4.8				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8				
Bis(2-chloroethoxy)methane	ND	ug/l	4.8				
Hexachlorobutadiene	ND	ug/l	9.6				
Hexachlorocyclopentadiene	ND	ug/l	9.6				
Hexachloroethane	ND	ug/l	4.8				
Isophorone	ND	ug/l	4.8				
Naphthalene	ND	ug/l	4.8				
Nitrobenzene	ND	ug/l	4.8				
NDPA/DPA	ND	ug/l	14.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.8				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.6				
Butyl benzyl phthalate	ND	ug/l	4.8				
Di-n-butylphthalate	ND	ug/l	4.8				
Di-n-octylphthalate	ND	ug/l	4.8				
Diethyl phthalate	ND	ug/l	4.8				
Dimethyl phthalate	ND	ug/l	4.8				
Benzo(a)anthracene	ND	ug/l	4.8				
Benzo(a)pyrene	ND	ug/l	4.8				
Benzo(b)fluoranthene	ND	ug/l	4.8				
Benzo(k)fluoranthene	ND	ug/l	4.8				
Chrysene	ND	ug/l	4.8				
Acenaphthylene	ND	ug/l	4.8				
Anthracene	ND	ug/l	4.8				
Benzo(ghi)perylene	ND	ug/l	4.8				
Fluorene	ND	ug/l	4.8				
Phenanthrene	ND	ug/l	4.8				
Dibenzo(a,h)anthracene	ND	ug/l	4.8				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.7				
Pyrene	ND	ug/l	4.8				
Benzo(e)pyrene	ND	ug/l	4.8				
Biphenyl	ND	ug/l	4.8				
Perylene	ND	ug/l	4.8				
Aniline	ND	ug/l	9.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-07  
 MW/CB-1 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 17:34 HL
4-Chloroaniline	ND	ug/l	4.8				
1-Methylnaphthalene	ND	ug/l	4.8				
2-Nitroaniline	ND	ug/l	4.8				
3-Nitroaniline	ND	ug/l	4.8				
4-Nitroaniline	ND	ug/l	6.7				
Dibenzofuran	ND	ug/l	4.8				
a,a-Dimethylphenethylamine	ND	ug/l	48.				
Hexachloropropene	ND	ug/l	9.6				
Nitrosodi-n-butylamine	ND	ug/l	9.6				
2-Methylnaphthalene	ND	ug/l	7.6				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	19.				
Pentachlorobenzene	ND	ug/l	19.				
a-Naphthylamine	ND	ug/l	19.				
b-Naphthylamine	ND	ug/l	19.				
Phenacetin	ND	ug/l	9.6				
Dimethoate	ND	ug/l	19.				
4-Aminobiphenyl	ND	ug/l	9.6				
Pentachloronitrobenzene	ND	ug/l	9.6				
Isodrin	ND	ug/l	9.6				
p-Dimethylaminoazobenzene	ND	ug/l	9.6				
Chlorobenzilate	ND	ug/l	19.				
3-Methylcholanthrene	ND	ug/l	19.				
Ethyl Methanesulfonate	ND	ug/l	14.				
Acetophenone	ND	ug/l	19.				
Nitrosodipiperidine	ND	ug/l	19.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.6				
n-Nitrosodimethylamine	ND	ug/l	48.				
2,4,6-Trichlorophenol	ND	ug/l	4.8				
p-Chloro-m-cresol	ND	ug/l	4.8				
2-Chlorophenol	ND	ug/l	5.7				
2,4-Dichlorophenol	ND	ug/l	9.6				
2,4-Dimethylphenol	ND	ug/l	9.6				
2-Nitrophenol	ND	ug/l	19.				
4-Nitrophenol	ND	ug/l	9.6				
2,4-Dinitrophenol	ND	ug/l	19.				
4,6-Dinitro-o-cresol	ND	ug/l	19.				
Pentachlorophenol	ND	ug/l	19.				
Phenol	ND	ug/l	6.7				
2-Methylphenol	ND	ug/l	5.7				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.7				
2,4,5-Trichlorophenol	ND	ug/l	4.8				
2,6-Dichlorophenol	ND	ug/l	9.6				
Benzoic Acid	ND	ug/l	48.				
Benzyl Alcohol	ND	ug/l	9.6				
Carbazole	ND	ug/l	4.8				
Pyridine	ND	ug/l	48.				
2-Picoline	ND	ug/l	19.				
Pronamide	ND	ug/l	19.				
Methyl methanesulfonate	ND	ug/l	19.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-07  
 MW/CB-1 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 17:34 HL
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	48.0	%					
Phenol-d6	36.0	%					
Nitrobenzene-d5	81.0	%					
2-Fluorobiphenyl	81.0	%					
2,4,6-Tribromophenol	96.0	%					
4-Terphenyl-d14	91.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0315 19:30	0316 19:10 RL
Acenaphthene	ND	ug/l	0.19				
2-Chloronaphthalene	ND	ug/l	0.19				
Fluoranthene	ND	ug/l	0.19				
Hexachlorobutadiene	ND	ug/l	0.48				
Naphthalene	ND	ug/l	0.19				
Benzo(a)anthracene	ND	ug/l	0.19				
Benzo(a)pyrene	ND	ug/l	0.19				
Benzo(b)fluoranthene	ND	ug/l	0.19				
Benzo(k)fluoranthene	ND	ug/l	0.19				
Chrysene	ND	ug/l	0.19				
Acenaphthylene	ND	ug/l	0.19				
Anthracene	ND	ug/l	0.19				
Benzo(ghi)perylene	0.54	ug/l	0.19				
Fluorene	ND	ug/l	0.19				
Phenanthrene	ND	ug/l	0.19				
Dibenzo(a,h)anthracene	ND	ug/l	0.19				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.19				
Pyrene	0.30	ug/l	0.19				
1-Methylnaphthalene	ND	ug/l	0.19				
2-Methylnaphthalene	ND	ug/l	0.19				
Pentachlorophenol	ND	ug/l	0.76				
Hexachlorobenzene	ND	ug/l	0.76				
Perylene	ND	ug/l	0.19				
Biphenyl	ND	ug/l	0.19				
2,6-Dimethylnaphthalene	ND	ug/l	0.19				
1-Methylphenanthrene	ND	ug/l	0.19				
Benzo(e)Pyrene	0.24	ug/l	0.19				
Hexachloroethane	ND	ug/l	0.76				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	50.0	%	21-120				
Phenol-d6	38.0	%	10-120				
Nitrobenzene-d5	79.0	%	23-120				
2-Fluorobiphenyl	78.0	%	43-120				
2,4,6-Tribromophenol	77.0	%	10-120				
4-Terphenyl-d14	88.0	%	33-120				
Polychlorinated Biphenyls				1	8082	0315 22:15	0317 01:54 JB
Aroclor 1221	ND	ug/l	0.556				
Aroclor 1232	ND	ug/l	0.556				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-07  
 MW/CB-1 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0315 22:15	0317 01:54	JB
Aroclor 1242/1016	ND	ug/l	0.556				
Aroclor 1248	ND	ug/l	0.556				
Aroclor 1254	ND	ug/l	0.556				
Aroclor 1260	ND	ug/l	0.556				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	73.0	%	30-150				
Decachlorobiphenyl	45.0	%	30-150				
Organochlorine Pesticides				1 8081	0315 22:20	0317 14:15	AK
Delta-BHC	ND	ug/l	0.022				
Lindane	ND	ug/l	0.022				
Alpha-BHC	ND	ug/l	0.022				
Beta-BHC	ND	ug/l	0.022				
Heptachlor	ND	ug/l	0.022				
Aldrin	ND	ug/l	0.022				
Heptachlor epoxide	ND	ug/l	0.022				
Endrin	ND	ug/l	0.043				
Endrin aldehyde	ND	ug/l	0.043				
Endrin ketone	ND	ug/l	0.043				
Dieldrin	ND	ug/l	0.043				
4,4'-DDE	ND	ug/l	0.043				
4,4'-DDD	ND	ug/l	0.043				
4,4'-DDT	ND	ug/l	0.043				
Endosulfan I	ND	ug/l	0.022				
Endosulfan II	ND	ug/l	0.043				
Endosulfan sulfate	ND	ug/l	0.043				
Methoxychlor	ND	ug/l	0.215				
Toxaphene	ND	ug/l	0.215				
Chlordane	ND	ug/l	0.215				
cis-Chlordane	ND	ug/l	0.022				
trans-Chlordane	ND	ug/l	0.022				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	71.0	%	30-150				
Decachlorobiphenyl	48.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502589-08  
 Sample Matrix: MW/CB-2 (GROUNDWATER)  
 Condition of Sample: Satisfactory  
 Number & Type of Containers: 6-Amber,2-Plastic,2-Vial

Date Collected: 14-MAR-2005 13:45  
 Date Received : 15-MAR-2005  
 Date Reported : 21-MAR-2005

Field Prep: Field Filtered

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	0.216	mg/l	0.010	1 6020	0316 16:00	0317 13:02	RW
Antimony, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 13:02	RW
Arsenic, Total	0.0023	mg/l	0.0004	1 6020	0316 16:00	0317 13:02	RW
Barium, Total	0.0521	mg/l	0.0002	1 6020	0316 16:00	0317 13:02	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 13:02	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0316 16:00	0317 13:02	RW
Calcium, Total	92.8	mg/l	0.200	1 6020	0316 16:00	0317 13:02	RW
Chromium, Total	0.0006	mg/l	0.0002	1 6020	0316 16:00	0317 13:02	RW
Cobalt, Total	0.0106	mg/l	0.0001	1 6020	0316 16:00	0317 13:02	RW
Copper, Total	0.0017	mg/l	0.0005	1 6020	0316 16:00	0317 13:02	RW
Iron, Total	1.14	mg/l	0.010	1 6020	0316 16:00	0317 13:02	RW
Lead, Total	0.0007	mg/l	0.0002	1 6020	0316 16:00	0317 13:02	RW
Magnesium, Total	19.5	mg/l	0.010	1 6020	0316 16:00	0317 13:02	RW
Manganese, Total	23.66	mg/l	0.0020	1 6020	0316 16:00	0317 16:49	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 13:39	DM
Nickel, Total	0.0056	mg/l	0.0005	1 6020	0316 16:00	0317 13:02	RW
Potassium, Total	8.30	mg/l	0.100	1 6020	0316 16:00	0317 13:02	RW
Selenium, Total	ND	mg/l	0.001	1 6020	0316 16:00	0317 13:02	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 13:02	RW
Sodium, Total	56.3	mg/l	0.100	1 6020	0316 16:00	0317 13:02	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 13:02	RW
Vanadium, Total	0.0007	mg/l	0.0002	1 6020	0316 16:00	0317 13:02	RW
Zinc, Total	0.0325	mg/l	0.0050	1 6020	0316 16:00	0317 13:02	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.018	mg/l	0.010	1 6020	0316 16:00	0317 15:20	RW
Antimony, Dissolved	0.0018	mg/l	0.0002	1 6020	0316 16:00	0317 15:20	RW
Arsenic, Dissolved	0.0013	mg/l	0.0004	1 6020	0316 16:00	0317 15:20	RW
Barium, Dissolved	0.0591	mg/l	0.0002	1 6020	0316 16:00	0317 15:20	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0318 14:10	RW
Cadmium, Dissolved	0.0004	mg/l	0.0004	1 6020	0316 16:00	0317 15:20	RW
Calcium, Dissolved	86.2	mg/l	0.200	1 6020	0316 16:00	0317 15:20	RW
Chromium, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0317 15:20	RW
Cobalt, Dissolved	0.0132	mg/l	0.0001	1 6020	0316 16:00	0317 15:20	RW
Copper, Dissolved	0.0238	mg/l	0.0005	1 6020	0316 16:00	0317 15:20	RW
Iron, Dissolved	0.394	mg/l	0.010	1 6020	0316 16:00	0317 15:20	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-08  
 MW/CB-2 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0009	mg/l	0.0002	1 6020	0316 16:00	0317 15:20	RW
Magnesium, Dissolved	18.9	mg/l	0.010	1 6020	0316 16:00	0317 15:20	RW
Manganese, Dissolved	29.31	mg/l	0.0020	1 6020	0316 16:00	0317 17:36	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:44	DM
Nickel, Dissolved	0.0122	mg/l	0.0005	1 6020	0316 16:00	0317 15:20	RW
Potassium, Dissolved	8.40	mg/l	0.100	1 6020	0316 16:00	0317 15:20	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0316 16:00	0317 15:20	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 15:20	RW
Sodium, Dissolved	57.4	mg/l	0.100	1 6020	0316 16:00	0317 15:20	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 15:20	RW
Vanadium, Dissolved	0.0004	mg/l	0.0002	1 6020	0316 16:00	0317 15:20	RW
Zinc, Dissolved	0.0207	mg/l	0.0050	1 6020	0316 16:00	0317 15:20	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0317 14:10 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	0.54	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	1.9	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-08  
MW/CB-2 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0317	14:10 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	0.93	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	0.51	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	102.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	103.	%					
Dibromofluoromethane	97.0	%					
SVOC's by GC/MS 8270				1	8270C	0315	19:30 0317 17:59 HL
Acenaphthene	ND	ug/l	4.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-08  
 MW/CB-2 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 17:59	HL
Benzidine	ND	ug/l	48.				
1,2,4-Trichlorobenzene	ND	ug/l	4.8				
Hexachlorobenzene	ND	ug/l	4.8				
Bis(2-chloroethyl)ether	ND	ug/l	4.8				
1-Chloronaphthalene	ND	ug/l	4.8				
2-Chloronaphthalene	ND	ug/l	5.7				
1,2-Dichlorobenzene	ND	ug/l	4.8				
1,3-Dichlorobenzene	ND	ug/l	4.8				
1,4-Dichlorobenzene	ND	ug/l	4.8				
3,3'-Dichlorobenzidine	ND	ug/l	48.				
2,4-Dinitrotoluene	ND	ug/l	5.7				
2,6-Dinitrotoluene	ND	ug/l	4.8				
Azobenzene	ND	ug/l	4.8				
Fluoranthene	ND	ug/l	4.8				
4-Chlorophenyl phenyl ether	ND	ug/l	4.8				
4-Bromophenyl phenyl ether	ND	ug/l	4.8				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8				
Bis(2-chloroethoxy)methane	ND	ug/l	4.8				
Hexachlorobutadiene	ND	ug/l	9.6				
Hexachlorocyclopentadiene	ND	ug/l	9.6				
Hexachloroethane	ND	ug/l	4.8				
Isophorone	ND	ug/l	4.8				
Naphthalene	ND	ug/l	4.8				
Nitrobenzene	ND	ug/l	4.8				
NDPA/DPA	ND	ug/l	14.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.8				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.6				
Butyl benzyl phthalate	ND	ug/l	4.8				
Di-n-butylphthalate	ND	ug/l	4.8				
Di-n-octylphthalate	ND	ug/l	4.8				
Diethyl phthalate	ND	ug/l	4.8				
Dimethyl phthalate	ND	ug/l	4.8				
Benzo(a)anthracene	ND	ug/l	4.8				
Benzo(a)pyrene	ND	ug/l	4.8				
Benzo(b)fluoranthene	ND	ug/l	4.8				
Benzo(k)fluoranthene	ND	ug/l	4.8				
Chrysene	ND	ug/l	4.8				
Acenaphthylene	ND	ug/l	4.8				
Anthracene	ND	ug/l	4.8				
Benzo(ghi)perylene	ND	ug/l	4.8				
Fluorene	ND	ug/l	4.8				
Phenanthrene	ND	ug/l	4.8				
Dibenzo(a,h)anthracene	ND	ug/l	4.8				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.7				
Pyrene	ND	ug/l	4.8				
Benzo(e)pyrene	ND	ug/l	4.8				
Biphenyl	ND	ug/l	4.8				
Perylene	ND	ug/l	4.8				
Aniline	ND	ug/l	9.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-08  
 MW/CB-2 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 17:59	HL
4-Chloroaniline	ND	ug/l	4.8				
1-Methylnaphthalene	ND	ug/l	4.8				
2-Nitroaniline	ND	ug/l	4.8				
3-Nitroaniline	ND	ug/l	4.8				
4-Nitroaniline	ND	ug/l	6.7				
Dibenzofuran	ND	ug/l	4.8				
a,a-Dimethylphenethylamine	ND	ug/l	48.				
Hexachloropropene	ND	ug/l	9.6				
Nitrosodi-n-butylamine	ND	ug/l	9.6				
2-Methylnaphthalene	ND	ug/l	7.6				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	19.				
Pentachlorobenzene	ND	ug/l	19.				
a-Naphthylamine	ND	ug/l	19.				
b-Naphthylamine	ND	ug/l	19.				
Phenacetin	ND	ug/l	9.6				
Dimethoate	ND	ug/l	19.				
4-Aminobiphenyl	ND	ug/l	9.6				
Pentachloronitrobenzene	ND	ug/l	9.6				
Isodrin	ND	ug/l	9.6				
p-Dimethylaminoazobenzene	ND	ug/l	9.6				
Chlorobenzilate	ND	ug/l	19.				
3-Methylcholanthrene	ND	ug/l	19.				
Ethyl Methanesulfonate	ND	ug/l	14.				
Acetophenone	ND	ug/l	19.				
Nitrosodipiperidine	ND	ug/l	19.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.6				
n-Nitrosodimethylamine	ND	ug/l	48.				
2,4,6-Trichlorophenol	ND	ug/l	4.8				
p-Chloro-m-cresol	ND	ug/l	4.8				
2-Chlorophenol	ND	ug/l	5.7				
2,4-Dichlorophenol	ND	ug/l	9.6				
2,4-Dimethylphenol	ND	ug/l	9.6				
2-Nitrophenol	ND	ug/l	19.				
4-Nitrophenol	ND	ug/l	9.6				
2,4-Dinitrophenol	ND	ug/l	19.				
4,6-Dinitro-o-cresol	ND	ug/l	19.				
Pentachlorophenol	ND	ug/l	19.				
Phenol	ND	ug/l	6.7				
2-Methylphenol	ND	ug/l	5.7				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.7				
2,4,5-Trichlorophenol	ND	ug/l	4.8				
2,6-Dichlorophenol	ND	ug/l	9.6				
Benzoic Acid	ND	ug/l	48.				
Benzyl Alcohol	ND	ug/l	9.6				
Carbazole	ND	ug/l	4.8				
Pyridine	ND	ug/l	48.				
2-Picoline	ND	ug/l	19.				
Pronamide	ND	ug/l	19.				
Methyl methanesulfonate	ND	ug/l	19.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-08  
 MW/CB-2 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 17:59 HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	53.0	%					
Phenol-d6	40.0	%					
Nitrobenzene-d5	89.0	%					
2-Fluorobiphenyl	85.0	%					
2,4,6-Tribromophenol	102.	%					
4-Terphenyl-d14	97.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0315 19:30	0316 19:56 RL
Acenaphthene	ND	ug/l	0.19				
2-Chloronaphthalene	ND	ug/l	0.19				
Fluoranthene	0.42	ug/l	0.19				
Hexachlorobutadiene	ND	ug/l	0.48				
Naphthalene	ND	ug/l	0.19				
Benzo(a)anthracene	ND	ug/l	0.19				
Benzo(a)pyrene	ND	ug/l	0.19				
Benzo(b)fluoranthene	ND	ug/l	0.19				
Benzo(k)fluoranthene	ND	ug/l	0.19				
Chrysene	ND	ug/l	0.19				
Acenaphthylene	ND	ug/l	0.19				
Anthracene	ND	ug/l	0.19				
Benzo(ghi)perylene	ND	ug/l	0.19				
Fluorene	ND	ug/l	0.19				
Phenanthrene	ND	ug/l	0.19				
Dibenzo(a,h)anthracene	ND	ug/l	0.19				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.19				
Pyrene	1.1	ug/l	0.19				
1-Methylnaphthalene	ND	ug/l	0.19				
2-Methylnaphthalene	ND	ug/l	0.19				
Pentachlorophenol	ND	ug/l	0.76				
Hexachlorobenzene	ND	ug/l	0.76				
Perylene	ND	ug/l	0.19				
Biphenyl	ND	ug/l	0.19				
2,6-Dimethylnaphthalene	ND	ug/l	0.19				
1-Methylphenanthrene	ND	ug/l	0.19				
Benzo(e)Pyrene	ND	ug/l	0.19				
Hexachloroethane	ND	ug/l	0.76				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	57.0	%		21-120			
Phenol-d6	43.0	%		10-120			
Nitrobenzene-d5	89.0	%		23-120			
2-Fluorobiphenyl	86.0	%		43-120			
2,4,6-Tribromophenol	81.0	%		10-120			
4-Terphenyl-d14	97.0	%		33-120			
Polychlorinated Biphenyls				1	8082	0315 22:15	0317 02:23 JB
Aroclor 1221	ND	ug/l	0.538				
Aroclor 1232	ND	ug/l	0.538				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-08  
 MW/CB-2 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0315 22:15	0317 02:23	JB
Aroclor 1242/1016	ND	ug/l	0.538				
Aroclor 1248	ND	ug/l	0.538				
Aroclor 1254	ND	ug/l	0.538				
Aroclor 1260	ND	ug/l	0.538				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	74.0	%	30-150				
Decachlorobiphenyl	59.0	%	30-150				
Organochlorine Pesticides				1 8081	0315 22:20	0316 20:48	AK
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	49.0	%	30-150				
Decachlorobiphenyl	65.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

**Laboratory Sample Number:** L0502589-09 **Date Collected:** 14-MAR-2005 14:10  
**Sample Matrix:** MW/CB-17 (GROUNDWATER) **Date Received :** 15-MAR-2005  
**Condition of Sample:** Satisfactory **Date Reported :** 21-MAR-2005  
**Field Prep:** Field Filtered  
**Number & Type of Containers:** 6-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	7.48	mg/l	0.010	1 6020	0316 16:00	0317 13:08	RW
Antimony, Total	0.0006	mg/l	0.0002	1 6020	0316 16:00	0317 13:08	RW
Arsenic, Total	0.0034	mg/l	0.0004	1 6020	0316 16:00	0317 13:08	RW
Barium, Total	0.1037	mg/l	0.0002	1 6020	0316 16:00	0317 13:08	RW
Beryllium, Total	0.0005	mg/l	0.0005	1 6020	0316 16:00	0317 13:08	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0316 16:00	0317 13:08	RW
Calcium, Total	58.9	mg/l	0.200	1 6020	0316 16:00	0317 13:08	RW
Chromium, Total	0.0127	mg/l	0.0002	1 6020	0316 16:00	0317 13:08	RW
Cobalt, Total	0.0038	mg/l	0.0001	1 6020	0316 16:00	0317 13:08	RW
Copper, Total	0.0531	mg/l	0.0005	1 6020	0316 16:00	0317 13:08	RW
Iron, Total	10.3	mg/l	0.010	1 6020	0316 16:00	0317 13:08	RW
Lead, Total	0.0142	mg/l	0.0002	1 6020	0316 16:00	0317 13:08	RW
Magnesium, Total	8.46	mg/l	0.010	1 6020	0316 16:00	0317 13:08	RW
Manganese, Total	0.1094	mg/l	0.0002	1 6020	0316 16:00	0317 13:08	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 13:41	DM
Nickel, Total	0.0131	mg/l	0.0005	1 6020	0316 16:00	0317 13:08	RW
Potassium, Total	11.4	mg/l	0.100	1 6020	0316 16:00	0317 13:08	RW
Selenium, Total	0.003	mg/l	0.001	1 6020	0316 16:00	0317 13:08	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 13:08	RW
Sodium, Total	64.7	mg/l	0.100	1 6020	0316 16:00	0317 13:08	RW
Thallium, Total	0.0001	mg/l	0.0001	1 6020	0316 16:00	0317 13:08	RW
Vanadium, Total	0.0132	mg/l	0.0002	1 6020	0316 16:00	0317 13:08	RW
Zinc, Total	0.0771	mg/l	0.0050	1 6020	0316 16:00	0317 13:08	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.011	mg/l	0.010	1 6020	0316 16:00	0317 15:26	RW
Antimony, Dissolved	0.0034	mg/l	0.0002	1 6020	0316 16:00	0317 15:26	RW
Arsenic, Dissolved	0.0005	mg/l	0.0004	1 6020	0316 16:00	0317 15:26	RW
Barium, Dissolved	0.0464	mg/l	0.0002	1 6020	0316 16:00	0317 15:26	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0318 14:15	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0316 16:00	0317 15:26	RW
Calcium, Dissolved	62.5	mg/l	0.200	1 6020	0316 16:00	0317 15:26	RW
Chromium, Dissolved	0.0003	mg/l	0.0002	1 6020	0316 16:00	0317 15:26	RW
Cobalt, Dissolved	0.0004	mg/l	0.0001	1 6020	0316 16:00	0317 15:26	RW
Copper, Dissolved	0.0153	mg/l	0.0005	1 6020	0316 16:00	0317 15:26	RW
Iron, Dissolved	0.127	mg/l	0.010	1 6020	0316 16:00	0317 15:26	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-09  
MW/CB-17 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0004	mg/l	0.0002	1 6020	0316 16:00	0317 15:26	RW
Magnesium, Dissolved	7.86	mg/l	0.010	1 6020	0316 16:00	0317 15:26	RW
Manganese, Dissolved	0.0556	mg/l	0.0002	1 6020	0316 16:00	0317 15:26	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:45	DM
Nickel, Dissolved	0.0060	mg/l	0.0005	1 6020	0316 16:00	0317 15:26	RW
Potassium, Dissolved	11.4	mg/l	0.100	1 6020	0316 16:00	0317 15:26	RW
Selenium, Dissolved	0.003	mg/l	0.001	1 6020	0316 16:00	0317 15:26	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 15:26	RW
Sodium, Dissolved	67.4	mg/l	0.100	1 6020	0316 16:00	0317 15:26	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 15:26	RW
Vanadium, Dissolved	0.0010	mg/l	0.0002	1 6020	0316 16:00	0317 15:26	RW
Zinc, Dissolved	0.0128	mg/l	0.0050	1 6020	0316 16:00	0317 15:26	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0317 14:46 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	1.1	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	2.2	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	7.3	ug/l	0.50				
o-Xylene	1.1	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-09  
 MW/CB-17 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0317	14:46 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	3.3	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	1.5	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	3.6	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	100.	%					
Toluene-d8	102.	%					
4-Bromofluorobenzene	98.0	%					
Dibromofluoromethane	101.	%					
SVOC's by GC/MS 8270				1	8270C	0315	19:30 0317 18:25 HL
Acenaphthene	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-09  
MW/CB-17 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 18:25	HL
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	21.	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-09  
 MW/CB-17 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 18:25	HL
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-09  
 MW/CB-17 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 18:25 HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	52.0	%					
Phenol-d6	40.0	%					
Nitrobenzene-d5	87.0	%					
2-Fluorobiphenyl	85.0	%					
2,4,6-Tribromophenol	94.0	%					
4-Terphenyl-d14	88.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0315 19:30	0316 20:41 RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	1.7	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	0.55	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	0.31	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	3.1	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	0.21	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	62.0	%		21-120			
Phenol-d6	49.0	%		10-120			
Nitrobenzene-d5	99.0	%		23-120			
2-Fluorobiphenyl	95.0	%		43-120			
2,4,6-Tribromophenol	89.0	%		10-120			
4-Terphenyl-d14	94.0	%		33-120			
Polychlorinated Biphenyls				1	8082	0315 22:15	0317 02:51 JB
Aroclor 1221	ND	ug/l	0.610				
Aroclor 1232	ND	ug/l	0.610				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-09  
 MW/CB-17 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0315 22:15	0317 02:51	JB
Aroclor 1242/1016	ND	ug/l	0.610				
Aroclor 1248	ND	ug/l	0.610				
Aroclor 1254	ND	ug/l	0.610				
Aroclor 1260	ND	ug/l	0.610				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	62.0	%	30-150				
Decachlorobiphenyl	43.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 14:49	AK
Delta-BHC	ND	ug/l	0.031				
Lindane	ND	ug/l	0.031				
Alpha-BHC	ND	ug/l	0.031				
Beta-BHC	ND	ug/l	0.031				
Heptachlor	ND	ug/l	0.031				
Aldrin	ND	ug/l	0.031				
Heptachlor epoxide	ND	ug/l	0.031				
Endrin	ND	ug/l	0.062				
Endrin aldehyde	ND	ug/l	0.062				
Endrin ketone	ND	ug/l	0.062				
Dieldrin	ND	ug/l	0.062				
4,4'-DDE	ND	ug/l	0.062				
4,4'-DDD	ND	ug/l	0.062				
4,4'-DDT	ND	ug/l	0.062				
Endosulfan I	ND	ug/l	0.031				
Endosulfan II	ND	ug/l	0.062				
Endosulfan sulfate	ND	ug/l	0.062				
Methoxychlor	ND	ug/l	0.308				
Toxaphene	ND	ug/l	0.308				
Chlordane	ND	ug/l	0.308				
cis-Chlordane	ND	ug/l	0.031				
trans-Chlordane	ND	ug/l	0.031				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	61.0	%	30-150				
Decachlorobiphenyl	45.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0502589-10	<b>Date Collected:</b> 10-MAR-2005 15:36
	<b>Date Received :</b> 15-MAR-2005
<b>Sample Matrix:</b> TRIP BLANK	<b>Date Reported :</b> 21-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260				1	8260B	0316 20:48 TT	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-10  
 TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0316 20:48 TT		
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	99.0	%					
Toluene-d8	103.	%					
4-Bromofluorobenzene	102.	%					
Dibromofluoromethane	99.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502589-11		Date Collected: 15-MAR-2005 12:10
	FIELD BLANK	Date Received : 15-MAR-2005
Sample Matrix: WATER		Date Reported : 21-MAR-2005
Condition of Sample: Satisfactory		Field Prep: Field Filtered
Number & Type of Containers: 6-Amber,2-Plastic,2-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	ND	mg/l	0.010	1 6020	0316 16:00	0317 13:18	RW
Antimony, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 13:18	RW
Arsenic, Total	ND	mg/l	0.0004	1 6020	0316 16:00	0317 13:18	RW
Barium, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 13:18	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 13:18	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0316 16:00	0317 13:18	RW
Calcium, Total	0.295	mg/l	0.200	1 6020	0316 16:00	0317 13:18	RW
Chromium, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 13:18	RW
Cobalt, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 13:18	RW
Copper, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 13:18	RW
Iron, Total	0.015	mg/l	0.010	1 6020	0316 16:00	0317 13:18	RW
Lead, Total	0.0004	mg/l	0.0002	1 6020	0316 16:00	0317 13:18	RW
Magnesium, Total	0.013	mg/l	0.010	1 6020	0316 16:00	0317 13:18	RW
Manganese, Total	0.0009	mg/l	0.0002	1 6020	0316 16:00	0317 13:18	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 13:46	DM
Nickel, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 13:18	RW
Potassium, Total	ND	mg/l	0.100	1 6020	0316 16:00	0317 13:18	RW
Selenium, Total	ND	mg/l	0.001	1 6020	0316 16:00	0317 13:18	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 13:18	RW
Sodium, Total	ND	mg/l	0.100	1 6020	0316 16:00	0317 13:18	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 13:18	RW
Vanadium, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 13:18	RW
Zinc, Total	ND	mg/l	0.0050	1 6020	0316 16:00	0317 13:18	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	ND	mg/l	0.010	1 6020	0316 16:00	0317 16:17	RW
Antimony, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0317 16:17	RW
Arsenic, Dissolved	ND	mg/l	0.0004	1 6020	0316 16:00	0317 16:17	RW
Barium, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0317 16:17	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0318 14:21	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0316 16:00	0317 16:17	RW
Calcium, Dissolved	0.370	mg/l	0.200	1 6020	0316 16:00	0317 16:17	RW
Chromium, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0317 16:17	RW
Cobalt, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 16:17	RW
Copper, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0317 16:17	RW
Iron, Dissolved	0.015	mg/l	0.010	1 6020	0316 16:00	0317 16:17	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-11  
 FIELD BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0317 16:17	RW
Magnesium, Dissolved	0.036	mg/l	0.010	1 6020	0316 16:00	0317 16:17	RW
Manganese, Dissolved	0.0004	mg/l	0.0002	1 6020	0316 16:00	0317 16:17	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:47	DM
Nickel, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0317 16:17	RW
Potassium, Dissolved	ND	mg/l	0.100	1 6020	0316 16:00	0317 16:17	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0316 16:00	0317 16:17	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 16:17	RW
Sodium, Dissolved	ND	mg/l	0.100	1 6020	0316 16:00	0317 16:17	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0317 16:17	RW
Vanadium, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0317 16:17	RW
Zinc, Dissolved	ND	mg/l	0.0050	1 6020	0316 16:00	0317 16:17	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0316 21:27 TT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-11  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0316	21:27 TT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	100.	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	104.	%					
Dibromofluoromethane	97.0	%					
SVOC's by GC/MS 8270				1	8270C	0315	19:30 0317 18:51 HL
Acenaphthene	ND	ug/l	4.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-11  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 18:51	HL
Benzidine	ND	ug/l	48.				
1,2,4-Trichlorobenzene	ND	ug/l	4.8				
Hexachlorobenzene	ND	ug/l	4.8				
Bis(2-chloroethyl)ether	ND	ug/l	4.8				
1-Chloronaphthalene	ND	ug/l	4.8				
2-Chloronaphthalene	ND	ug/l	5.7				
1,2-Dichlorobenzene	ND	ug/l	4.8				
1,3-Dichlorobenzene	ND	ug/l	4.8				
1,4-Dichlorobenzene	ND	ug/l	4.8				
3,3'-Dichlorobenzidine	ND	ug/l	48.				
2,4-Dinitrotoluene	ND	ug/l	5.7				
2,6-Dinitrotoluene	ND	ug/l	4.8				
Azobenzene	ND	ug/l	4.8				
Fluoranthene	ND	ug/l	4.8				
4-Chlorophenyl phenyl ether	ND	ug/l	4.8				
4-Bromophenyl phenyl ether	ND	ug/l	4.8				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.8				
Bis(2-chloroethoxy)methane	ND	ug/l	4.8				
Hexachlorobutadiene	ND	ug/l	9.6				
Hexachlorocyclopentadiene	ND	ug/l	9.6				
Hexachloroethane	ND	ug/l	4.8				
Isophorone	ND	ug/l	4.8				
Naphthalene	ND	ug/l	4.8				
Nitrobenzene	ND	ug/l	4.8				
NDPA/DPA	ND	ug/l	14.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.8				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.6				
Butyl benzyl phthalate	ND	ug/l	4.8				
Di-n-butylphthalate	ND	ug/l	4.8				
Di-n-octylphthalate	ND	ug/l	4.8				
Diethyl phthalate	ND	ug/l	4.8				
Dimethyl phthalate	ND	ug/l	4.8				
Benzo(a)anthracene	ND	ug/l	4.8				
Benzo(a)pyrene	ND	ug/l	4.8				
Benzo(b)fluoranthene	ND	ug/l	4.8				
Benzo(k)fluoranthene	ND	ug/l	4.8				
Chrysene	ND	ug/l	4.8				
Acenaphthylene	ND	ug/l	4.8				
Anthracene	ND	ug/l	4.8				
Benzo(ghi)perylene	ND	ug/l	4.8				
Fluorene	ND	ug/l	4.8				
Phenanthrene	ND	ug/l	4.8				
Dibenzo(a,h)anthracene	ND	ug/l	4.8				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.7				
Pyrene	ND	ug/l	4.8				
Benzo(e)pyrene	ND	ug/l	4.8				
Biphenyl	ND	ug/l	4.8				
Perylene	ND	ug/l	4.8				
Aniline	ND	ug/l	9.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-11  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 18:51	HL
4-Chloroaniline	ND	ug/l	4.8				
1-Methylnaphthalene	ND	ug/l	4.8				
2-Nitroaniline	ND	ug/l	4.8				
3-Nitroaniline	ND	ug/l	4.8				
4-Nitroaniline	ND	ug/l	6.7				
Dibenzofuran	ND	ug/l	4.8				
a,a-Dimethylphenethylamine	ND	ug/l	48.				
Hexachloropropene	ND	ug/l	9.6				
Nitrosodi-n-butylamine	ND	ug/l	9.6				
2-Methylnaphthalene	ND	ug/l	7.6				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	19.				
Pentachlorobenzene	ND	ug/l	19.				
a-Naphthylamine	ND	ug/l	19.				
b-Naphthylamine	ND	ug/l	19.				
Phenacetin	ND	ug/l	9.6				
Dimethoate	ND	ug/l	19.				
4-Aminobiphenyl	ND	ug/l	9.6				
Pentachloronitrobenzene	ND	ug/l	9.6				
Isodrin	ND	ug/l	9.6				
p-Dimethylaminoazobenzene	ND	ug/l	9.6				
Chlorobenzilate	ND	ug/l	19.				
3-Methylcholanthrene	ND	ug/l	19.				
Ethyl Methanesulfonate	ND	ug/l	14.				
Acetophenone	ND	ug/l	19.				
Nitrosodipiperidine	ND	ug/l	19.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.6				
n-Nitrosodimethylamine	ND	ug/l	48.				
2,4,6-Trichlorophenol	ND	ug/l	4.8				
p-Chloro-m-cresol	ND	ug/l	4.8				
2-Chlorophenol	ND	ug/l	5.7				
2,4-Dichlorophenol	ND	ug/l	9.6				
2,4-Dimethylphenol	ND	ug/l	9.6				
2-Nitrophenol	ND	ug/l	19.				
4-Nitrophenol	ND	ug/l	9.6				
2,4-Dinitrophenol	ND	ug/l	19.				
4,6-Dinitro-o-cresol	ND	ug/l	19.				
Pentachlorophenol	ND	ug/l	19.				
Phenol	ND	ug/l	6.7				
2-Methylphenol	ND	ug/l	5.7				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.7				
2,4,5-Trichlorophenol	ND	ug/l	4.8				
2,6-Dichlorophenol	ND	ug/l	9.6				
Benzoic Acid	ND	ug/l	48.				
Benzyl Alcohol	ND	ug/l	9.6				
Carbazole	ND	ug/l	4.8				
Pyridine	ND	ug/l	48.				
2-Picoline	ND	ug/l	19.				
Pronamide	ND	ug/l	19.				
Methyl methanesulfonate	ND	ug/l	19.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-11  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 18:51	HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	46.0	%					
Phenol-d6	33.0	%					
Nitrobenzene-d5	78.0	%					
2-Fluorobiphenyl	77.0	%					
2,4,6-Tribromophenol	92.0	%					
4-Terphenyl-d14	90.0	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0315 19:30	0316 21:26	RL
Acenaphthene	ND	ug/l	0.19				
2-Chloronaphthalene	ND	ug/l	0.19				
Fluoranthene	ND	ug/l	0.19				
Hexachlorobutadiene	ND	ug/l	0.48				
Naphthalene	ND	ug/l	0.19				
Benzo(a)anthracene	ND	ug/l	0.19				
Benzo(a)pyrene	ND	ug/l	0.19				
Benzo(b)fluoranthene	ND	ug/l	0.19				
Benzo(k)fluoranthene	ND	ug/l	0.19				
Chrysene	ND	ug/l	0.19				
Acenaphthylene	ND	ug/l	0.19				
Anthracene	ND	ug/l	0.19				
Benzo(ghi)perylene	ND	ug/l	0.19				
Fluorene	ND	ug/l	0.19				
Phenanthrene	ND	ug/l	0.19				
Dibenzo(a,h)anthracene	ND	ug/l	0.19				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.19				
Pyrene	ND	ug/l	0.19				
1-Methylnaphthalene	ND	ug/l	0.19				
2-Methylnaphthalene	ND	ug/l	0.19				
Pentachlorophenol	ND	ug/l	0.76				
Hexachlorobenzene	ND	ug/l	0.76				
Perylene	ND	ug/l	0.19				
Biphenyl	ND	ug/l	0.19				
2,6-Dimethylnaphthalene	ND	ug/l	0.19				
1-Methylphenanthrene	ND	ug/l	0.19				
Benzo(e)Pyrene	ND	ug/l	0.19				
Hexachloroethane	ND	ug/l	0.76				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	51.0	%		21-120			
Phenol-d6	38.0	%		10-120			
Nitrobenzene-d5	81.0	%		23-120			
2-Fluorobiphenyl	78.0	%		43-120			
2,4,6-Tribromophenol	81.0	%		10-120			
4-Terphenyl-d14	90.0	%		33-120			
Polychlorinated Biphenyls				1 8082	0315 22:15	0317 03:20	JB
Aroclor 1221	ND	ug/l	0.538				
Aroclor 1232	ND	ug/l	0.538				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502589-11  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0315 22:15	0317 03:20	JB
Aroclor 1242/1016	ND	ug/l	0.538				
Aroclor 1248	ND	ug/l	0.538				
Aroclor 1254	ND	ug/l	0.538				
Aroclor 1260	ND	ug/l	0.538				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	77.0	%	30-150				
Decachlorobiphenyl	50.0	%	30-150				
Organochlorine Pesticides				1 8081	0315 22:20	0316 21:45	AK
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	59.0	%	30-150				
Decachlorobiphenyl	54.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS**

Laboratory Job Number: L0502589

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Total Metals for sample(s) 01-09,11 (L0502589-03, WG196507-1)					
Aluminum, Total	0.261	0.290	mg/l	11	20
Antimony, Total	0.0013	0.0013	mg/l	5	20
Arsenic, Total	0.0010	0.001	mg/l	2	20
Barium, Total	0.0526	0.0531	mg/l	1	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	49.7	51.1	mg/l	3	20
Chromium, Total	0.0014	0.0016	mg/l	9	20
Cobalt, Total	0.0003	0.0003	mg/l	3	20
Copper, Total	0.0018	0.0018	mg/l	4	20
Iron, Total	0.534	0.539	mg/l	1	20
Lead, Total	0.0051	0.0056	mg/l	9	20
Magnesium, Total	6.66	6.84	mg/l	3	20
Manganese, Total	0.0393	0.0399	mg/l	2	20
Nickel, Total	0.0016	0.0018	mg/l	8	20
Potassium, Total	13.6	13.9	mg/l	2	20
Selenium, Total	0.001	0.001	mg/l	7	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	42.7	44.3	mg/l	4	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	0.0010	0.0011	mg/l	3	20
Zinc, Total	0.0414	0.0456	mg/l	9	20
Total Metals for sample(s) 01-09,11 (L0502589-02, WG196501-3)					
Mercury, Total	ND	ND	mg/l	NC	20
Dissolved Metals for sample(s) 01-09,11 (L0502589-01, WG196506-1)					
Aluminum, Dissolved	0.035	0.015	mg/l	83	20
Antimony, Dissolved	0.0012	0.0012	mg/l	2	20
Arsenic, Dissolved	ND	ND	mg/l	NC	20
Barium, Dissolved	0.4670	0.4699	mg/l	1	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	115.	116.	mg/l	1	20
Chromium, Dissolved	0.0003	0.0003	mg/l	7	20
Cobalt, Dissolved	0.0002	0.0002	mg/l	0	20
Copper, Dissolved	0.0030	0.0031	mg/l	4	20
Iron, Dissolved	3.25	3.24	mg/l	0	20
Lead, Dissolved	0.0005	0.0003	mg/l	48	20
Magnesium, Dissolved	43.0	43.4	mg/l	1	20
Manganese, Dissolved	4.631	4.688	mg/l	1	20
Nickel, Dissolved	0.0095	0.0095	mg/l	0	20
Potassium, Dissolved	8.02	8.14	mg/l	1	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	159.	167.	mg/l	5	20
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	0.0006	0.0006	mg/l	5	20

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0502589

Continued

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Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Dissolved Metals for sample(s) 01-09,11 (L0502589-01, WG196506-1)					
Zinc, Dissolved	0.0119	0.0050	mg/l	81	20
Dissolved Metals for sample(s) 01-09,11 (L0502589-02, WG196500-3)					
Mercury, Dissolved	ND	ND	mg/l	NC	20

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**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0502589

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 01-09,11 (WG196507-4)		
Aluminum, Total	98	80-120
Antimony, Total	97	80-120
Arsenic, Total	98	80-120
Barium, Total	100	80-120
Beryllium, Total	97	80-120
Cadmium, Total	108	80-120
Calcium, Total	113	80-120
Chromium, Total	103	80-120
Cobalt, Total	104	80-120
Copper, Total	106	80-120
Iron, Total	105	80-120
Lead, Total	105	80-120
Magnesium, Total	104	80-120
Manganese, Total	104	80-120
Nickel, Total	105	80-120
Potassium, Total	102	80-120
Selenium, Total	103	80-120
Silver, Total	104	80-120
Sodium, Total	99	80-120
Thallium, Total	98	80-120
Vanadium, Total	102	80-120
Zinc, Total	101	80-120
Total Metals LCS for sample(s) 01-09,11 (WG196501-1)		
Mercury, Total	106	70-130
Dissolved Metals LCS for sample(s) 01-09,11 (WG196506-4)		
Aluminum, Dissolved	100	80-120
Antimony, Dissolved	95	80-120
Arsenic, Dissolved	94	80-120
Barium, Dissolved	99	80-120
Beryllium, Dissolved	106	80-120
Cadmium, Dissolved	109	80-120
Chromium, Dissolved	102	80-120
Cobalt, Dissolved	103	80-120
Copper, Dissolved	104	80-120
Iron, Dissolved	110	80-120
Lead, Dissolved	104	80-120
Magnesium, Dissolved	104	80-120
Manganese, Dissolved	103	80-120
Nickel, Dissolved	104	80-120
Potassium, Dissolved	103	80-120
Selenium, Dissolved	93	80-120
Silver, Dissolved	101	80-120
Sodium, Dissolved	99	80-120
Thallium, Dissolved	96	80-120
Vanadium, Dissolved	101	80-120
Zinc, Dissolved	101	80-120

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502589

Continued

Parameter	% Recovery	QC Criteria
Dissolved Metals LCS for sample(s) 01-09,11 (WG196500-1)		
Mercury, Dissolved	106	70-130
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-09 (WG196647-3)		
Chlorobenzene	90	
Benzene	90	
Toluene	90	
1,1-Dichloroethene	90	
Trichloroethene	85	
Surrogate(s)		
1,2-Dichloroethane-d4	110	
Toluene-d8	103	
4-Bromofluorobenzene	98	
Dibromofluoromethane	107	
Volatile Organics by GC/MS 8260 LCS for sample(s) 10-11 (WG196474-7)		
Chlorobenzene	105	
Benzene	103	
Toluene	104	
1,1-Dichloroethene	102	
Trichloroethene	96	
Surrogate(s)		
1,2-Dichloroethane-d4	106	
Toluene-d8	107	
4-Bromofluorobenzene	109	
Dibromofluoromethane	99	
SVOC's by GC/MS 8270 LCS for sample(s) 01-09,11 (WG196450-2)		
Acenaphthene	66	
1,2,4-Trichlorobenzene	69	
2-Chloronaphthalene	72	
1,2-Dichlorobenzene	61	
1,4-Dichlorobenzene	59	
2,4-Dinitrotoluene	80	
2,6-Dinitrotoluene	80	
Fluoranthene	83	
4-Chlorophenyl phenyl ether	70	
n-Nitrosodi-n-propylamine	58	
Butyl benzyl phthalate	84	
Anthracene	41	
Pyrene	80	
Hexachloropropene	62	
P-Chloro-M-Cresol	73	
2-Chlorophenol	62	
2-Nitrophenol	65	
4-Nitrophenol	40	
2,4-Dinitrophenol	74	

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502589

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 01-09,11 (WG196450-2)		
Pentachlorophenol	89	
Phenol	25	
Surrogate(s)		
2-Fluorophenol	43	
Phenol-d6	32	
Nitrobenzene-d5	72	
2-Fluorobiphenyl	75	
2,4,6-Tribromophenol	92	
4-Terphenyl-d14	88	
PAH by GC/MS SIM 8270M LCS for sample(s) 01-09,11 (WG196462-2)		
Acenaphthene	61	46-118
2-Chloronaphthalene	70	
Fluoranthene	68	
Anthracene	49	
Pyrene	81	26-127
Pentachlorophenol	85	9-103
Surrogate(s)		
2-Fluorophenol	54	21-120
Phenol-d6	43	10-120
Nitrobenzene-d5	85	23-120
2-Fluorobiphenyl	73	43-120
2,4,6-Tribromophenol	95	10-120
4-Terphenyl-d14	71	33-120
Polychlorinated Biphenyls LCS for sample(s) 01-09,11 (WG196407-2)		
Aroclor 1242/1016	87	30-150
Aroclor 1260	95	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	85	30-150
Decachlorobiphenyl	59	30-150
Organochlorine Pesticides LCS for sample(s) 01-05,07-08,11 (WG196452-2)		
Delta-BHC	60	
Lindane	65	
Alpha-BHC	65	
Beta-BHC	63	
Heptachlor	64	
Aldrin	59	
Heptachlor epoxide	66	
Endrin	79	
Endrin aldehyde	67	
Endrin ketone	88	
Dieldrin	67	
4,4'-DDE	70	



ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502589

Continued

Parameter	% Recovery	QC Criteria
Organochlorine Pesticides LCS for sample(s) 01-05,07-08,11 (WG196452-2)		
4,4'-DDD	74	
4,4'-DDT	70	
Endosulfan I	65	
Endosulfan II	73	
Endosulfan sulfate	93	
Methoxychlor	85	
cis-Chlordane	70	
trans-Chlordane	65	
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	57	30-150
Decachlorobiphenyl	64	30-150
Organochlorine Pesticides LCS for sample(s) 06,09 (WG196653-2)		
Delta-BHC	58	
Lindane	60	
Alpha-BHC	60	
Beta-BHC	56	
Heptachlor	53	
Aldrin	49	
Heptachlor epoxide	59	
Endrin	71	
Endrin aldehyde	55	
Endrin ketone	91	
Dieldrin	61	
4,4'-DDE	60	
4,4'-DDD	65	
4,4'-DDT	68	
Endosulfan I	59	
Endosulfan II	65	
Endosulfan sulfate	93	
Methoxychlor	74	
cis-Chlordane	60	
trans-Chlordane	56	
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	49	30-150
Decachlorobiphenyl	51	30-150
Total Metals SPIKE for sample(s) 01-09,11 (L0502589-03, WG196507-2)		
Aluminum, Total	104	80-120
Antimony, Total	98	80-120
Arsenic, Total	105	80-120
Barium, Total	103	80-120
Beryllium, Total	100	80-120
Cadmium, Total	112	80-120
Calcium, Total	142	80-120
Chromium, Total	106	80-120

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502589

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 01-09,11 (L0502589-03, WG196507-2)		
Cobalt, Total	107	80-120
Copper, Total	108	80-120
Iron, Total	109	80-120
Lead, Total	110	80-120
Magnesium, Total	113	80-120
Manganese, Total	107	80-120
Nickel, Total	107	80-120
Potassium, Total	114	80-120
Selenium, Total	97	80-120
Silver, Total	75	80-120
Sodium, Total	129	80-120
Thallium, Total	101	80-120
Vanadium, Total	106	80-120
Zinc, Total	106	80-120
Total Metals SPIKE for sample(s) 01-09,11 (L0502589-03, WG196501-2)		
Mercury, Total	116	70-130
Dissolved Metals SPIKE for sample(s) 01-09,11 (L0502589-01, WG196506-2)		
Aluminum, Dissolved	100	80-120
Antimony, Dissolved	98	80-120
Arsenic, Dissolved	103	80-120
Barium, Dissolved	101	80-120
Beryllium, Dissolved	108	80-120
Cadmium, Dissolved	109	80-120
Calcium, Dissolved	180	80-120
Chromium, Dissolved	102	80-120
Cobalt, Dissolved	103	80-120
Copper, Dissolved	103	80-120
Iron, Dissolved	122	80-120
Lead, Dissolved	106	80-120
Magnesium, Dissolved	128	80-120
Manganese, Dissolved	158	80-120
Nickel, Dissolved	103	80-120
Potassium, Dissolved	106	80-120
Selenium, Dissolved	46	80-120
Silver, Dissolved	100	80-120
Sodium, Dissolved	140	80-120
Thallium, Dissolved	98	80-120
Vanadium, Dissolved	102	80-120
Zinc, Dissolved	99	80-120
Dissolved Metals SPIKE for sample(s) 01-09,11 (L0502589-03, WG196500-2)		
Mercury, Dissolved	121	70-130

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0502589

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 10-11 (L0502499-34, WG196474-2)					
Chlorobenzene	108	103	5		
Benzene	103	97	6		
Toluene	108	101	7		
1,1-Dichloroethene	83	72	14		
Trichloroethene	100	93	7		
Surrogate(s)					
1,2-Dichloroethane-d4	98	99	1		
Toluene-d8	100	98	2		
4-Bromofluorobenzene	97	98	1		
Dibromofluoromethane	98	93	5		
Volatile Organics by GC/MS 8260 for sample(s) 01-09 (L0502589-01, WG196647-2)					
Chlorobenzene	105	100	5		
Benzene	103	98	5		
Toluene	98	96	2		
1,1-Dichloroethene	113	109	4		
Trichloroethene	106	100	6		
Surrogate(s)					
1,2-Dichloroethane-d4	116	111	4		
Toluene-d8	106	104	2		
4-Bromofluorobenzene	103	103	0		
Dibromofluoromethane	110	110	0		
SVOC's by GC/MS 8270 for sample(s) 01-09,11 (L0502589-03, WG196450-4)					
Acenaphthene	83	92	10		
1,2,4-Trichlorobenzene	83	92	10		
2-Chloronaphthalene	87	97	11		
1,2-Dichlorobenzene	74	78	5		
1,4-Dichlorobenzene	69	74	7		
2,4-Dinitrotoluene	87	97	11		
2,6-Dinitrotoluene	97	110	13		
Fluoranthene	92	100	8		
4-Chlorophenyl phenyl ether	87	97	11		
n-Nitrosodi-n-propylamine	64	69	8		
Butyl benzyl phthalate	92	97	5		
Anthracene	46	51	10		
Pyrene	92	97	5		
Hexachloropropene	83	92	10		
P-Chloro-M-Cresol	92	99	7		
2-Chlorophenol	69	76	10		
2-Nitrophenol	74	83	11		
4-Nitrophenol	76	83	9		
2,4-Dinitrophenol	90	99	10		
Pentachlorophenol	109	118	9		
Phenol	48	55	14		

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0502589

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 01-09,11 (L0502589-03, WG196450-4)					
Surrogate(s)					
2-Fluorophenol	63	70	11		
Phenol-d6	59	66	11		
Nitrobenzene-d5	79	89	12		
2-Fluorobiphenyl	93	100	7		
2,4,6-Tribromophenol	109	115	5		
4-Terphenyl-d14	97	102	5		
PAH by GC/MS SIM 8270M for sample(s) 01-09,11 (L0502589-03, WG196462-4)					
Acenaphthene	86	91	6	40	46-118
2-Chloronaphthalene	92	87	6	40	
Fluoranthene	96	96	0	40	
Anthracene	50	55	10	40	
Pyrene	96	91	5	40	26-127
Pentachlorophenol	108	111	2	40	9-103
Surrogate(s)					
2-Fluorophenol	86	84	2		21-120
Phenol-d6	81	79	3		10-120
Nitrobenzene-d5	105	105	0		23-120
2-Fluorobiphenyl	94	93	1		43-120
2,4,6-Tribromophenol	83	85	2		10-120
4-Terphenyl-d14	96	97	1		33-120
Polychlorinated Biphenyls for sample(s) 01-09,11 (L0502368-01, WG196407-4)					
Aroclor 1242/1016	83	84	1	30	30-150
Aroclor 1260	85	87	2	30	30-150
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	81	84	4		30-150
Decachlorobiphenyl	56	65	15		30-150
Organochlorine Pesticides for sample(s) 01-05,07-08,11 (L0502589-01, WG196452-4)					
Delta-BHC	73	51	35	30	
Lindane	84	77	9	30	
Alpha-BHC	84	77	9	30	
Beta-BHC	77	72	7	30	
Heptachlor	87	80	8	30	
Aldrin	80	73	9	30	
Heptachlor epoxide	87	80	8	30	
Endrin	97	88	10	30	
Endrin aldehyde	11	9	16	30	
Endrin ketone	111	101	9	30	
Dieldrin	83	76	9	30	
4,4'-DDE	80	75	6	30	
4,4'-DDD	87	79	10	30	

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0502589

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Organochlorine Pesticides for sample(s) 01-05,07-08,11 (L0502589-01, WG196452-4)					
4,4'-DDT	80	70	13	30	
Endosulfan I	84	77	9	30	
Endosulfan II	85	77	10	30	
Endosulfan sulfate	103	82	23	30	
Methoxychlor	93	86	8	30	
cis-Chlordane	89	81	9	30	
trans-Chlordane	87	79	10	30	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	69	67	3		30-150
Decachlorobiphenyl	63	60	5		30-150
Organochlorine Pesticides for sample(s) 06,09 (L0502658-02, WG196653-4)					
Delta-BHC	69	71	3	30	
Lindane	69	77	11	30	
Alpha-BHC	74	79	7	30	
Beta-BHC	77	80	4	30	
Heptachlor	60	62	3	30	
Aldrin	63	72	13	30	
Heptachlor epoxide	73	80	9	30	
Endrin	91	92	1	30	
Endrin aldehyde	76	81	6	30	
Endrin ketone	104	106	2	30	
Dieldrin	82	86	5	30	
4,4'-DDE	78	86	10	30	
4,4'-DDD	85	86	1	30	
4,4'-DDT	88	93	6	30	
Endosulfan I	71	76	7	30	
Endosulfan II	95	95	0	30	
Endosulfan sulfate	106	114	7	30	
Methoxychlor	93	99	6	30	
cis-Chlordane	74	79	7	30	
trans-Chlordane	77	84	9	30	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	61	64	5		30-150
Decachlorobiphenyl	65	83	24		30-150

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0502589

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-09,11 (WG196507-3)							
Total Metals							
Aluminum, Total	ND	mg/l	0.010	1 6020	0316 16:00	0317 11:06	RW
Antimony, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 11:06	RW
Arsenic, Total	ND	mg/l	0.0004	1 6020	0316 16:00	0317 11:06	RW
Barium, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 11:06	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 11:06	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0316 16:00	0317 11:06	RW
Calcium, Total	ND	mg/l	0.200	1 6020	0316 16:00	0317 11:06	RW
Chromium, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 11:06	RW
Cobalt, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 11:06	RW
Copper, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 11:06	RW
Iron, Total	ND	mg/l	0.010	1 6020	0316 16:00	0317 11:06	RW
Lead, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 11:06	RW
Magnesium, Total	ND	mg/l	0.010	1 6020	0316 16:00	0317 11:06	RW
Manganese, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 11:06	RW
Nickel, Total	ND	mg/l	0.0005	1 6020	0316 16:00	0317 11:06	RW
Potassium, Total	ND	mg/l	0.100	1 6020	0316 16:00	0317 11:06	RW
Selenium, Total	ND	mg/l	0.001	1 6020	0316 16:00	0317 11:06	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 11:06	RW
Sodium, Total	ND	mg/l	0.100	1 6020	0316 16:00	0317 11:06	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0316 16:00	0317 11:06	RW
Vanadium, Total	ND	mg/l	0.0002	1 6020	0316 16:00	0317 11:06	RW
Zinc, Total	ND	mg/l	0.0050	1 6020	0316 16:00	0317 11:06	RW
Blank Analysis for sample(s) 01-09,11 (WG196501-4)							
Total Metals							
Mercury, Total	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:49	DM
Blank Analysis for sample(s) 01-09,11 (WG196506-3)							
Dissolved Metals							
Aluminum, Dissolved	ND	mg/l	0.010	1 6020	0316 16:00	0318 13:13	RW
Antimony, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0318 13:13	RW
Arsenic, Dissolved	ND	mg/l	0.0004	1 6020	0316 16:00	0318 13:13	RW
Barium, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0318 13:13	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0318 13:13	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0316 16:00	0318 13:13	RW
Calcium, Dissolved	ND	mg/l	0.200	1 6020	0316 16:00	0318 13:13	RW
Chromium, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0318 13:13	RW
Cobalt, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0318 13:13	RW
Copper, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0318 13:13	RW
Iron, Dissolved	ND	mg/l	0.010	1 6020	0316 16:00	0318 13:13	RW
Lead, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0318 13:13	RW
Magnesium, Dissolved	ND	mg/l	0.010	1 6020	0316 16:00	0318 13:13	RW
Manganese, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0318 13:13	RW

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502589

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-09,11 (WG196506-3)							
Dissolved Metals							
Nickel, Dissolved	ND	mg/l	0.0005	1 6020	0316 16:00	0318 13:13	RW
Potassium, Dissolved	ND	mg/l	0.100	1 6020	0316 16:00	0318 13:13	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0316 16:00	0318 13:13	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0318 13:13	RW
Sodium, Dissolved	ND	mg/l	0.100	1 6020	0316 16:00	0318 13:13	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0316 16:00	0318 13:13	RW
Vanadium, Dissolved	ND	mg/l	0.0002	1 6020	0316 16:00	0318 13:13	RW
Zinc, Dissolved	ND	mg/l	0.0050	1 6020	0316 16:00	0318 13:13	RW
Blank Analysis for sample(s) 01-09,11 (WG196500-4)							
Dissolved Metals							
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0316 16:00	0317 11:20	DM
Blank Analysis for sample(s) 10-11 (WG196474-8)							
Volatile Organics by GC/MS 8260							
				1 8260B	0316 15:29		TT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502589

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 10-11 (WG196474-8)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0316	15:29 TT
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502589

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 10-11 (WG196474-8)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0316	15:29 TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	100.	%					
Toluene-d8	103.	%					
4-Bromofluorobenzene	99.0	%					
Dibromofluoromethane	92.0	%					
Blank Analysis for sample(s) 01-09 (WG196647-4)							
Volatile Organics by GC/MS 8260				1	8260B	0317	09:21 BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502589

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-09 (WG196647-4)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0317	09:21 BT
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	113.	%					
Toluene-d8	103.	%					
4-Bromofluorobenzene	104.	%					
Dibromofluoromethane	102.	%					
Blank Analysis for sample(s) 01-09,11 (WG196450-1)							
SVOC's by GC/MS 8270				1	8270C	0315	19:30 0317 12:01 HL
Acenaphthene	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502589

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-09,11 (WG196450-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 12:01	HL
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502589

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-09,11 (WG196450-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0315 19:30	0317 12:01	HL
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502589

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-09,11 (WG196450-1)							
SVOC's by GC/MS 8270 continued				1	8270C	0315 19:30	0317 12:01 HL
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	55.0	%					
Phenol-d6	41.0	%					
Nitrobenzene-d5	98.0	%					
2-Fluorobiphenyl	88.0	%					
2,4,6-Tribromophenol	104.	%					
4-Terphenyl-d14	96.0	%					
Blank Analysis for sample(s) 01-09,11 (WG196462-1)							
PAH by GC/MS SIM 8270M				1	8270C-M	0315 19:30	0316 12:47 RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0502589

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-09,11 (WG196462-1)							
PAH by GC/MS SIM 8270M continued				1	8270C-M	0315 19:30	0316 12:47 RL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	62.0	%		21-120			
Phenol-d6	49.0	%		10-120			
Nitrobenzene-d5	101.	%		23-120			
2-Fluorobiphenyl	80.0	%		43-120			
2,4,6-Tribromophenol	113.	%		10-120			
4-Terphenyl-d14	82.0	%		33-120			
Blank Analysis for sample(s) 01-09,11 (WG196407-1)							
Polychlorinated Biphenyls				1	8082	0315 11:30	0317 11:34 JB
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	86.0	%		30-150			
Decachlorobiphenyl	81.0	%		30-150			
Blank Analysis for sample(s) 01-05,07-08,11 (WG196452-1)							
Organochlorine Pesticides				1	8081	0315 22:20	0317 11:23 AK
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502589

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-05,07-08,11 (WG196452-1)							
Organochlorine Pesticides continued				1 8081	0315 22:20	0317 11:23	AK
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	76.0	%		30-150			
Decachlorobiphenyl	76.0	%		30-150			
Blank Analysis for sample(s) 06,09 (WG196653-1)							
Organochlorine Pesticides				1 8081	0317 15:00	0318 20:37	AK
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	68.0	%		30-150			
Decachlorobiphenyl	79.0	%		30-150			

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.  
METHOD Method number by which analysis was performed.  
ID Initials of the analyst.  
ND Not detected in comparison to the reported detection limit.  
NI Not Ignitable.  
ug/cart Micrograms per Cartridge.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. 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, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. 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, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: AKRF, Inc. Laboratory Job Number: L0502658  
Address: 440 Park Avenue South  
New York, NY 10016 Date Received: 16-MAR-2005  
Attn: Mr. Axel Schwendt Date Reported: 24-MAR-2005  
Project Number: 10470-0213 Delivery Method: Alpha  
Site: COLUMBIA

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0502658-01	MW/CB-20 (GROUNDWATER)	HARLEM, NY
L0502658-02	MW/CB-12 (GROUNDWATER)	HARLEM, NY
L0502658-03	MW/CB-9 (GROUNDWATER)	HARLEM, NY
L0502658-04	MW/CB-14 (GROUNDWATER)	HARLEM, NY
L0502658-05	MW/CB-8 (GROUNDWATER)	HARLEM, NY
L0502658-06	MW/CB-22 (GROUNDWATER)	HARLEM, NY
L0502658-07	MW/CB-21 (GROUNDWATER)	HARLEM, NY
L0502658-08	MW/CB-7 (GROUNDWATER)	HARLEM, NY
L0502658-09	MW/CB-13 (GROUNDWATER)	HARLEM, NY
L0502658-10	MW/CB-16 (GROUNDWATER)	HARLEM, NY
L0502658-11	FIELD BLANK	HARLEM, NY
L0502658-12	TRIP BLANK	HARLEM, NY

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

---

Authorized by: Scott McLean  
This document electronically signed

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0502658

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Volatile Organics

L0502658-06 has elevated limits of detection due to the 2.5x dilution required by the elevated concentrations of target compounds in the sample.

SemiVolatile Organics

The LCS and MS/MSD % recoveries for 4-Nitrophenol are above the acceptance criteria for the method.

The LCS % recoveries for 2,4-Dinitrotoluene and 4-Chlorophenyl phenyl ether are above the acceptance criteria for the method.

The MS/MSD % recoveries for Pentachlorophenol, and the MSD % recovery for p-Chloro-m-cresol, are above the acceptance criteria for the method.

PCB

The surrogate % recoveries are below the acceptance criteria for the method on L0502658-08.

Pesticides

The surrogate % recovery for Decachlorobiphenyl is below the acceptance criteria for the method on L0502658-08.

Dissolved Metals

L0502658-02 and -04 through -07 required 10x dilutions for Calcium and Sodium.

L0502658-08 through -10 required 10x dilutions for Calcium.

L0502658-08 through -10 required 100x dilutions for Sodium.

L0502658-08 required a 5x dilution for all elements (except Calcium and Sodium) due to internal standard failure.

L0502658-09 and -10 required 2x dilutions for all elements (except Calcium and Sodium) due to internal standard failure.

The RPD for the laboratory duplicate of Aluminum is above the acceptance criteria for the method.

The MS % recovery for Calcium is invalid because the sample concentration is greater than four times the spike amount added.

Silver is present in the method blank, however, all samples are non-detect for Silver.

Total Metals

L0502658-01 through -07 and -10 required 10x dilutions for Aluminum, Calcium, and Sodium.

L0502658-02 required a 10x dilution for Manganese.

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ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0502658

Continued

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L0502658-08 and -09 required 10x dilutions for Aluminum and Calcium.

L0502658-08 and -09 required 100x dilutions for Sodium.

L0502658-08 and 09 required 5x dilutions for all elements (except Calcium and Sodium) due to internal standard failure.

The RPDs for the laboratory duplicates of Chromium and Lead are above the acceptance criteria for the method.

The MS % recoveries for Calcium and Sodium are invalid because the sample concentration is greater than four times the spike amount added.

The MS % recovery for Zinc is above the acceptance criteria for the method.

The MS % recovery for Mercury is above the acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 108%.

Silver is present in the method blank, however, all samples (except L0502658-05 and -10) are non-detect for Silver. The Silver concentrations in L0502658-05 and -10 should be considered estimates.

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0502658-01	Date Collected:	16-MAR-2005 08:15
	MW/CB-20 (GROUNDWATER)	Date Received :	16-MAR-2005
Sample Matrix:	WATER	Date Reported :	24-MAR-2005
Condition of Sample:	Satisfactory	Field Prep:	Field Filtered
Number & Type of Containers:	6-Amber, 2-Plastic, 2-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	0.211	mg/l	0.010	1 6020	0317 12:30	0321 23:13	RW
Antimony, Total	ND	mg/l	0.0002	1 6020	0317 12:30	0321 23:13	RW
Arsenic, Total	ND	mg/l	0.0004	1 6020	0317 12:30	0321 23:13	RW
Barium, Total	0.1569	mg/l	0.0002	1 6020	0317 12:30	0321 23:13	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0317 12:30	0321 23:13	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0317 12:30	0321 23:13	RW
Calcium, Total	62.1	mg/l	2.00	1 6020	0317 12:30	0321 17:52	RW
Chromium, Total	0.0015	mg/l	0.0002	1 6020	0317 12:30	0321 23:13	RW
Cobalt, Total	0.0006	mg/l	0.0001	1 6020	0317 12:30	0321 23:13	RW
Copper, Total	0.0024	mg/l	0.0005	1 6020	0317 12:30	0321 23:13	RW
Iron, Total	0.640	mg/l	0.010	1 6020	0317 12:30	0321 23:13	RW
Lead, Total	0.0025	mg/l	0.0002	1 6020	0317 12:30	0321 23:13	RW
Magnesium, Total	16.2	mg/l	0.010	1 6020	0317 12:30	0321 23:13	RW
Manganese, Total	0.2340	mg/l	0.0002	1 6020	0317 12:30	0321 23:13	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0318 17:20	0321 11:55	DM
Nickel, Total	0.0019	mg/l	0.0005	1 6020	0317 12:30	0321 23:13	RW
Potassium, Total	9.57	mg/l	0.100	1 6020	0317 12:30	0321 23:13	RW
Selenium, Total	0.002	mg/l	0.001	1 6020	0317 12:30	0321 23:13	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0317 12:30	0321 23:13	RW
Sodium, Total	114.	mg/l	1.00	1 6020	0317 12:30	0321 17:52	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0317 12:30	0321 23:13	RW
Vanadium, Total	0.0010	mg/l	0.0002	1 6020	0317 12:30	0321 23:13	RW
Zinc, Total	0.0061	mg/l	0.0050	1 6020	0317 12:30	0321 23:13	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.013	mg/l	0.010	1 6020	0317 12:30	0318 15:02	RW
Antimony, Dissolved	0.0017	mg/l	0.0002	1 6020	0317 12:30	0318 15:02	RW
Arsenic, Dissolved	ND	mg/l	0.0004	1 6020	0317 12:30	0318 15:02	RW
Barium, Dissolved	0.1364	mg/l	0.0002	1 6020	0317 12:30	0318 15:02	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30	0318 15:02	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0317 12:30	0318 15:02	RW
Calcium, Dissolved	54.0	mg/l	0.200	1 6020	0317 12:30	0318 15:02	RW
Chromium, Dissolved	0.0005	mg/l	0.0002	1 6020	0317 12:30	0318 15:02	RW
Cobalt, Dissolved	0.0004	mg/l	0.0001	1 6020	0317 12:30	0318 15:02	RW
Copper, Dissolved	0.0242	mg/l	0.0005	1 6020	0317 12:30	0318 15:02	RW
Iron, Dissolved	0.121	mg/l	0.010	1 6020	0317 12:30	0318 15:02	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-01  
MW/CB-20 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0013	mg/l	0.0002	1 6020	0317 12:30	0318 15:02	RW
Magnesium, Dissolved	14.3	mg/l	0.010	1 6020	0317 12:30	0318 15:02	RW
Manganese, Dissolved	0.1488	mg/l	0.0002	1 6020	0317 12:30	0318 15:02	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 12:36	DM
Nickel, Dissolved	0.0062	mg/l	0.0005	1 6020	0317 12:30	0318 15:02	RW
Potassium, Dissolved	9.92	mg/l	0.100	1 6020	0317 12:30	0318 15:02	RW
Selenium, Dissolved	0.002	mg/l	0.001	1 6020	0317 12:30	0318 15:02	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0318 15:02	RW
Sodium, Dissolved	101.	mg/l	0.100	1 6020	0317 12:30	0318 15:02	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0318 15:02	RW
Vanadium, Dissolved	0.0004	mg/l	0.0002	1 6020	0317 12:30	0318 15:02	RW
Zinc, Dissolved	0.0164	mg/l	0.0050	1 6020	0317 12:30	0318 15:02	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 12:40 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	7.7	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	0.94	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-01  
MW/CB-20 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	12:40 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	113.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	103.	%					
Dibromofluoromethane	108.	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0319 21:18 HL
Acenaphthene	ND	ug/l	5.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-01  
 MW/CB-20 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0319 21:18 HL
Benzidine	ND	ug/l	59.				
1,2,4-Trichlorobenzene	ND	ug/l	5.9				
Hexachlorobenzene	ND	ug/l	5.9				
Bis(2-chloroethyl)ether	ND	ug/l	5.9				
1-Chloronaphthalene	ND	ug/l	5.9				
2-Chloronaphthalene	ND	ug/l	7.0				
1,2-Dichlorobenzene	ND	ug/l	5.9				
1,3-Dichlorobenzene	ND	ug/l	5.9				
1,4-Dichlorobenzene	ND	ug/l	5.9				
3,3'-Dichlorobenzidine	ND	ug/l	59.				
2,4-Dinitrotoluene	ND	ug/l	7.0				
2,6-Dinitrotoluene	ND	ug/l	5.9				
Azobenzene	ND	ug/l	5.9				
Fluoranthene	ND	ug/l	5.9				
4-Chlorophenyl phenyl ether	ND	ug/l	5.9				
4-Bromophenyl phenyl ether	ND	ug/l	5.9				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.9				
Bis(2-chloroethoxy)methane	ND	ug/l	5.9				
Hexachlorobutadiene	ND	ug/l	12.				
Hexachlorocyclopentadiene	ND	ug/l	12.				
Hexachloroethane	ND	ug/l	5.9				
Isophorone	ND	ug/l	5.9				
Naphthalene	ND	ug/l	5.9				
Nitrobenzene	ND	ug/l	5.9				
NDPA/DPA	ND	ug/l	18.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.9				
Bis(2-ethylhexyl)phthalate	ND	ug/l	12.				
Butyl benzyl phthalate	ND	ug/l	5.9				
Di-n-butylphthalate	ND	ug/l	5.9				
Di-n-octylphthalate	ND	ug/l	5.9				
Diethyl phthalate	ND	ug/l	5.9				
Dimethyl phthalate	ND	ug/l	5.9				
Benzo(a)anthracene	ND	ug/l	5.9				
Benzo(a)pyrene	ND	ug/l	5.9				
Benzo(b)fluoranthene	ND	ug/l	5.9				
Benzo(k)fluoranthene	ND	ug/l	5.9				
Chrysene	ND	ug/l	5.9				
Acenaphthylene	ND	ug/l	5.9				
Anthracene	ND	ug/l	5.9				
Benzo(ghi)perylene	ND	ug/l	5.9				
Fluorene	ND	ug/l	5.9				
Phenanthrene	ND	ug/l	5.9				
Dibenzo(a,h)anthracene	ND	ug/l	5.9				
Indeno(1,2,3-cd)pyrene	ND	ug/l	8.2				
Pyrene	ND	ug/l	5.9				
Benzo(e)pyrene	ND	ug/l	5.9				
Biphenyl	ND	ug/l	5.9				
Perylene	ND	ug/l	5.9				
Aniline	ND	ug/l	12.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-01  
 MW/CB-20 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0319 21:18 HL
4-Chloroaniline	ND	ug/l	5.9				
1-Methylnaphthalene	ND	ug/l	5.9				
2-Nitroaniline	ND	ug/l	5.9				
3-Nitroaniline	ND	ug/l	5.9				
4-Nitroaniline	ND	ug/l	8.2				
Dibenzofuran	ND	ug/l	5.9				
a,a-Dimethylphenethylamine	ND	ug/l	59.				
Hexachloropropene	ND	ug/l	12.				
Nitrosodi-n-butylamine	ND	ug/l	12.				
2-Methylnaphthalene	ND	ug/l	9.4				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	24.				
Pentachlorobenzene	ND	ug/l	24.				
a-Naphthylamine	ND	ug/l	24.				
b-Naphthylamine	ND	ug/l	24.				
Phenacetin	ND	ug/l	12.				
Dimethoate	ND	ug/l	24.				
4-Aminobiphenyl	ND	ug/l	12.				
Pentachloronitrobenzene	ND	ug/l	12.				
Isodrin	ND	ug/l	12.				
p-Dimethylaminoazobenzene	ND	ug/l	12.				
Chlorobenzilate	ND	ug/l	24.				
3-Methylcholanthrene	ND	ug/l	24.				
Ethyl Methanesulfonate	ND	ug/l	18.				
Acetophenone	ND	ug/l	24.				
Nitrosodipiperidine	ND	ug/l	24.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	12.				
n-Nitrosodimethylamine	ND	ug/l	59.				
2,4,6-Trichlorophenol	ND	ug/l	5.9				
p-Chloro-m-cresol	ND	ug/l	5.9				
2-Chlorophenol	ND	ug/l	7.0				
2,4-Dichlorophenol	ND	ug/l	12.				
2,4-Dimethylphenol	ND	ug/l	12.				
2-Nitrophenol	ND	ug/l	24.				
4-Nitrophenol	ND	ug/l	12.				
2,4-Dinitrophenol	ND	ug/l	24.				
4,6-Dinitro-o-cresol	ND	ug/l	24.				
Pentachlorophenol	ND	ug/l	24.				
Phenol	ND	ug/l	8.2				
2-Methylphenol	ND	ug/l	7.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	7.0				
2,4,5-Trichlorophenol	ND	ug/l	5.9				
2,6-Dichlorophenol	ND	ug/l	12.				
Benzoic Acid	ND	ug/l	59.				
Benzyl Alcohol	ND	ug/l	12.				
Carbazole	ND	ug/l	5.9				
Pyridine	ND	ug/l	59.				
2-Picoline	ND	ug/l	24.				
Pronamide	ND	ug/l	24.				
Methyl methanesulfonate	ND	ug/l	24.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-01  
 MW/CB-20 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 21:18	HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	37.0	%					
Phenol-d6	34.0	%					
Nitrobenzene-d5	85.0	%					
2-Fluorobiphenyl	79.0	%					
2,4,6-Tribromophenol	87.0	%					
4-Terphenyl-d14	94.0	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0317 09:40	0318 15:54	RL
Acenaphthene	ND	ug/l	0.24				
2-Chloronaphthalene	ND	ug/l	0.24				
Fluoranthene	0.56	ug/l	0.24				
Hexachlorobutadiene	ND	ug/l	0.59				
Naphthalene	ND	ug/l	0.24				
Benzo(a)anthracene	ND	ug/l	0.24				
Benzo(a)pyrene	ND	ug/l	0.24				
Benzo(b)fluoranthene	ND	ug/l	0.24				
Benzo(k)fluoranthene	ND	ug/l	0.24				
Chrysene	ND	ug/l	0.24				
Acenaphthylene	ND	ug/l	0.24				
Anthracene	ND	ug/l	0.24				
Benzo(ghi)perylene	ND	ug/l	0.24				
Fluorene	ND	ug/l	0.24				
Phenanthrene	ND	ug/l	0.24				
Dibenzo(a,h)anthracene	ND	ug/l	0.24				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.24				
Pyrene	1.6	ug/l	0.24				
1-Methylnaphthalene	ND	ug/l	0.24				
2-Methylnaphthalene	ND	ug/l	0.24				
Pentachlorophenol	ND	ug/l	0.94				
Hexachlorobenzene	ND	ug/l	0.94				
Perylene	ND	ug/l	0.24				
Biphenyl	ND	ug/l	0.24				
2,6-Dimethylnaphthalene	ND	ug/l	0.24				
1-Methylphenanthrene	ND	ug/l	0.24				
Benzo(e)Pyrene	ND	ug/l	0.24				
Hexachloroethane	ND	ug/l	0.94				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	45.0	%		21-120			
Phenol-d6	37.0	%		10-120			
Nitrobenzene-d5	69.0	%		23-120			
2-Fluorobiphenyl	70.0	%		43-120			
2,4,6-Tribromophenol	67.0	%		10-120			
4-Terphenyl-d14	86.0	%		33-120			
Polychlorinated Biphenyls				1 8082	0317 13:00	0318 16:52	AK
Aroclor 1221	ND	ug/l	0.575				
Aroclor 1232	ND	ug/l	0.575				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-01  
 MW/CB-20 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0317 13:00	0318 16:52	AK
Aroclor 1242/1016	ND	ug/l	0.575				
Aroclor 1248	ND	ug/l	0.575				
Aroclor 1254	ND	ug/l	0.575				
Aroclor 1260	ND	ug/l	0.575				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	68.0	%	30-150				
Decachlorobiphenyl	70.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 15:53	AK
Delta-BHC	ND	ug/l	0.026				
Lindane	ND	ug/l	0.026				
Alpha-BHC	ND	ug/l	0.026				
Beta-BHC	ND	ug/l	0.026				
Heptachlor	ND	ug/l	0.026				
Aldrin	ND	ug/l	0.026				
Heptachlor epoxide	ND	ug/l	0.026				
Endrin	ND	ug/l	0.052				
Endrin aldehyde	ND	ug/l	0.052				
Endrin ketone	ND	ug/l	0.052				
Dieldrin	ND	ug/l	0.052				
4,4'-DDE	ND	ug/l	0.052				
4,4'-DDD	ND	ug/l	0.052				
4,4'-DDT	ND	ug/l	0.052				
Endosulfan I	ND	ug/l	0.026				
Endosulfan II	ND	ug/l	0.052				
Endosulfan sulfate	ND	ug/l	0.052				
Methoxychlor	ND	ug/l	0.260				
Toxaphene	ND	ug/l	0.260				
Chlordane	ND	ug/l	0.260				
cis-Chlordane	ND	ug/l	0.026				
trans-Chlordane	ND	ug/l	0.026				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	69.0	%	30-150				
Decachlorobiphenyl	79.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502658-02	Date Collected: 16-MAR-2005 09:20
MW/CB-12 (GROUNDWATER)	Date Received : 16-MAR-2005
Sample Matrix: WATER	Date Reported : 24-MAR-2005
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 6-Amber,2-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
<b>Total Metals</b>						
Aluminum, Total	16.5	mg/l	0.100	1 6020	0317 12:30 0321 18:13	RW
Antimony, Total	0.0004	mg/l	0.0002	1 6020	0317 12:30 0321 23:24	RW
Arsenic, Total	0.0074	mg/l	0.0004	1 6020	0317 12:30 0321 23:24	RW
Barium, Total	0.5576	mg/l	0.0002	1 6020	0317 12:30 0321 23:24	RW
Beryllium, Total	0.0015	mg/l	0.0005	1 6020	0317 12:30 0321 23:24	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0317 12:30 0321 23:24	RW
Calcium, Total	114.	mg/l	2.00	1 6020	0317 12:30 0321 18:13	RW
Chromium, Total	0.0492	mg/l	0.0002	1 6020	0317 12:30 0321 23:24	RW
Cobalt, Total	0.0164	mg/l	0.0001	1 6020	0317 12:30 0321 23:24	RW
Copper, Total	0.0848	mg/l	0.0005	1 6020	0317 12:30 0321 23:24	RW
Iron, Total	23.7	mg/l	0.010	1 6020	0317 12:30 0321 23:24	RW
Lead, Total	0.0779	mg/l	0.0002	1 6020	0317 12:30 0321 23:24	RW
Magnesium, Total	32.2	mg/l	0.010	1 6020	0317 12:30 0321 23:24	RW
Manganese, Total	8.375	mg/l	0.0020	1 6020	0317 12:30 0321 18:13	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0318 17:20 0321 11:56	DM
Nickel, Total	0.0563	mg/l	0.0005	1 6020	0317 12:30 0321 23:24	RW
Potassium, Total	11.0	mg/l	0.100	1 6020	0317 12:30 0321 23:24	RW
Selenium, Total	0.002	mg/l	0.001	1 6020	0317 12:30 0321 23:24	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0317 12:30 0321 23:24	RW
Sodium, Total	195.	mg/l	1.00	1 6020	0317 12:30 0321 18:13	RW
Thallium, Total	0.0003	mg/l	0.0001	1 6020	0317 12:30 0321 23:24	RW
Vanadium, Total	0.0435	mg/l	0.0002	1 6020	0317 12:30 0321 23:24	RW
Zinc, Total	0.0773	mg/l	0.0050	1 6020	0317 12:30 0321 23:24	RW

<b>Dissolved Metals</b>						
PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Aluminum, Dissolved	ND	mg/l	0.010	1 6020	0317 12:30 0318 15:18	RW
Antimony, Dissolved	0.0038	mg/l	0.0002	1 6020	0317 12:30 0318 15:18	RW
Arsenic, Dissolved	0.0011	mg/l	0.0004	1 6020	0317 12:30 0318 15:18	RW
Barium, Dissolved	0.2903	mg/l	0.0002	1 6020	0317 12:30 0318 15:18	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30 0318 15:18	RW
Cadmium, Dissolved	0.0007	mg/l	0.0004	1 6020	0317 12:30 0318 15:18	RW
Calcium, Dissolved	99.4	mg/l	0.200	1 6020	0317 12:30 0318 15:18	RW
Chromium, Dissolved	0.0002	mg/l	0.0002	1 6020	0317 12:30 0318 15:18	RW
Cobalt, Dissolved	0.0003	mg/l	0.0001	1 6020	0317 12:30 0318 15:18	RW
Copper, Dissolved	0.0054	mg/l	0.0005	1 6020	0317 12:30 0318 15:18	RW
Iron, Dissolved	1.28	mg/l	0.010	1 6020	0317 12:30 0318 15:18	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-02  
MW/CB-12 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0075	mg/l	0.0002	1 6020	0317 12:30	0318 15:18	RW
Magnesium, Dissolved	29.1	mg/l	0.010	1 6020	0317 12:30	0318 15:18	RW
Manganese, Dissolved	4.193	mg/l	0.0002	1 6020	0317 12:30	0318 15:18	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 12:37	DM
Nickel, Dissolved	0.0107	mg/l	0.0005	1 6020	0317 12:30	0318 15:18	RW
Potassium, Dissolved	9.98	mg/l	0.100	1 6020	0317 12:30	0318 15:18	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0317 12:30	0318 15:18	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0318 15:18	RW
Sodium, Dissolved	175.	mg/l	1.00	1 6020	0317 12:30	0321 16:54	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0318 15:18	RW
Vanadium, Dissolved	0.0006	mg/l	0.0002	1 6020	0317 12:30	0318 15:18	RW
Zinc, Dissolved	0.0148	mg/l	0.0050	1 6020	0317 12:30	0318 15:18	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 13:16 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	3.8	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-02  
 MW/CB-12 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	13:16 BT
cis-1,2-Dichloroethene	1.2	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	7.2	ug/l	0.50				
sec-Butylbenzene	10.	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	5.0	ug/l	0.50				
p-Isopropyltoluene	2.0	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	12.	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	136.	%					
Toluene-d8	114.	%					
4-Bromofluorobenzene	156.	%					
Dibromofluoromethane	90.0	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0319 21:44 HL
Acenaphthene	ND	ug/l	6.2				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-02  
MW/CB-12 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0319 21:44 HL
Benzidine	ND	ug/l	62.				
1,2,4-Trichlorobenzene	ND	ug/l	6.2				
Hexachlorobenzene	ND	ug/l	6.2				
Bis(2-chloroethyl)ether	ND	ug/l	6.2				
1-Chloronaphthalene	ND	ug/l	6.2				
2-Chloronaphthalene	ND	ug/l	7.4				
1,2-Dichlorobenzene	ND	ug/l	6.2				
1,3-Dichlorobenzene	ND	ug/l	6.2				
1,4-Dichlorobenzene	ND	ug/l	6.2				
3,3'-Dichlorobenzidine	ND	ug/l	62.				
2,4-Dinitrotoluene	ND	ug/l	7.4				
2,6-Dinitrotoluene	ND	ug/l	6.2				
Azobenzene	ND	ug/l	6.2				
Fluoranthene	ND	ug/l	6.2				
4-Chlorophenyl phenyl ether	ND	ug/l	6.2				
4-Bromophenyl phenyl ether	ND	ug/l	6.2				
Bis(2-chloroisopropyl)ether	ND	ug/l	6.2				
Bis(2-chloroethoxy)methane	ND	ug/l	6.2				
Hexachlorobutadiene	ND	ug/l	12.				
Hexachlorocyclopentadiene	ND	ug/l	12.				
Hexachloroethane	ND	ug/l	6.2				
Isophorone	ND	ug/l	6.2				
Naphthalene	ND	ug/l	6.2				
Nitrobenzene	ND	ug/l	6.2				
NDPA/DPA	ND	ug/l	18.				
n-Nitrosodi-n-propylamine	ND	ug/l	6.2				
Bis(2-ethylhexyl)phthalate	ND	ug/l	12.				
Butyl benzyl phthalate	ND	ug/l	6.2				
Di-n-butylphthalate	ND	ug/l	6.2				
Di-n-octylphthalate	ND	ug/l	6.2				
Diethyl phthalate	ND	ug/l	6.2				
Dimethyl phthalate	ND	ug/l	6.2				
Benzo(a)anthracene	ND	ug/l	6.2				
Benzo(a)pyrene	ND	ug/l	6.2				
Benzo(b)fluoranthene	ND	ug/l	6.2				
Benzo(k)fluoranthene	ND	ug/l	6.2				
Chrysene	ND	ug/l	6.2				
Acenaphthylene	ND	ug/l	6.2				
Anthracene	ND	ug/l	6.2				
Benzo(ghi)perylene	ND	ug/l	6.2				
Fluorene	ND	ug/l	6.2				
Phenanthrene	ND	ug/l	6.2				
Dibenzo(a,h)anthracene	ND	ug/l	6.2				
Indeno(1,2,3-cd)pyrene	ND	ug/l	8.6				
Pyrene	ND	ug/l	6.2				
Benzo(e)pyrene	ND	ug/l	6.2				
Biphenyl	ND	ug/l	6.2				
Perylene	ND	ug/l	6.2				
Aniline	ND	ug/l	12.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-02  
MW/CB-12 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0319 21:44 HL
4-Chloroaniline	ND	ug/l	6.2				
1-Methylnaphthalene	ND	ug/l	6.2				
2-Nitroaniline	ND	ug/l	6.2				
3-Nitroaniline	ND	ug/l	6.2				
4-Nitroaniline	ND	ug/l	8.6				
Dibenzofuran	ND	ug/l	6.2				
a,a-Dimethylphenethylamine	ND	ug/l	62.				
Hexachloropropene	ND	ug/l	12.				
Nitrosodi-n-butylamine	ND	ug/l	12.				
2-Methylnaphthalene	ND	ug/l	9.9				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	25.				
Pentachlorobenzene	ND	ug/l	25.				
a-Naphthylamine	ND	ug/l	25.				
b-Naphthylamine	ND	ug/l	25.				
Phenacetin	ND	ug/l	12.				
Dimethoate	ND	ug/l	25.				
4-Aminobiphenyl	ND	ug/l	12.				
Pentachloronitrobenzene	ND	ug/l	12.				
Isodrin	ND	ug/l	12.				
p-Dimethylaminoazobenzene	ND	ug/l	12.				
Chlorobenzilate	ND	ug/l	25.				
3-Methylcholanthrene	ND	ug/l	25.				
Ethyl Methanesulfonate	ND	ug/l	18.				
Acetophenone	ND	ug/l	25.				
Nitrosodipiperidine	ND	ug/l	25.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	12.				
n-Nitrosodimethylamine	ND	ug/l	62.				
2,4,6-Trichlorophenol	ND	ug/l	6.2				
p-Chloro-m-cresol	ND	ug/l	6.2				
2-Chlorophenol	ND	ug/l	7.4				
2,4-Dichlorophenol	ND	ug/l	12.				
2,4-Dimethylphenol	ND	ug/l	12.				
2-Nitrophenol	ND	ug/l	25.				
4-Nitrophenol	ND	ug/l	12.				
2,4-Dinitrophenol	ND	ug/l	25.				
4,6-Dinitro-o-cresol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	25.				
Phenol	ND	ug/l	8.6				
2-Methylphenol	ND	ug/l	7.4				
3-Methylphenol/4-Methylphenol	ND	ug/l	7.4				
2,4,5-Trichlorophenol	ND	ug/l	6.2				
2,6-Dichlorophenol	ND	ug/l	12.				
Benzoic Acid	ND	ug/l	62.				
Benzyl Alcohol	ND	ug/l	12.				
Carbazole	ND	ug/l	6.2				
Pyridine	ND	ug/l	62.				
2-Picoline	ND	ug/l	25.				
Pronamide	ND	ug/l	25.				
Methyl methanesulfonate	ND	ug/l	25.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-02  
 MW/CB-12 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 21:44	HL
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	41.0	%					
Phenol-d6	36.0	%					
Nitrobenzene-d5	93.0	%					
2-Fluorobiphenyl	83.0	%					
2,4,6-Tribromophenol	108.	%					
4-Terphenyl-d14	94.0	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0317 09:40	0318 16:40	RL
Acenaphthene	ND	ug/l	0.25				
2-Chloronaphthalene	ND	ug/l	0.25				
Fluoranthene	3.7	ug/l	0.25				
Hexachlorobutadiene	ND	ug/l	0.62				
Naphthalene	1.2	ug/l	0.25				
Benzo(a)anthracene	ND	ug/l	0.25				
Benzo(a)pyrene	ND	ug/l	0.25				
Benzo(b)fluoranthene	ND	ug/l	0.25				
Benzo(k)fluoranthene	ND	ug/l	0.25				
Chrysene	ND	ug/l	0.25				
Acenaphthylene	ND	ug/l	0.25				
Anthracene	ND	ug/l	0.25				
Benzo(ghi)perylene	1.3	ug/l	0.25				
Fluorene	ND	ug/l	0.25				
Phenanthrene	1.5	ug/l	0.25				
Dibenzo(a,h)anthracene	ND	ug/l	0.25				
Indeno(1,2,3-cd)Pyrene	0.26	ug/l	0.25				
Pyrene	6.7	ug/l	0.25				
1-Methylnaphthalene	1.8	ug/l	0.25				
2-Methylnaphthalene	ND	ug/l	0.25				
Pentachlorophenol	ND	ug/l	0.99				
Hexachlorobenzene	ND	ug/l	0.99				
Perylene	ND	ug/l	0.25				
Biphenyl	ND	ug/l	0.25				
2,6-Dimethylnaphthalene	ND	ug/l	0.25				
1-Methylphenanthrene	ND	ug/l	0.25				
Benzo(e)Pyrene	0.43	ug/l	0.25				
Hexachloroethane	ND	ug/l	0.99				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	38.0	%	21-120				
Phenol-d6	31.0	%	10-120				
Nitrobenzene-d5	59.0	%	23-120				
2-Fluorobiphenyl	63.0	%	43-120				
2,4,6-Tribromophenol	63.0	%	10-120				
4-Terphenyl-d14	72.0	%	33-120				
Polychlorinated Biphenyls				1 8082	0321 17:00	0323 09:58	AK
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-02  
 MW/CB-12 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0321 17:00	0323 09:58	AK
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	77.0	%	30-150				
Decachlorobiphenyl	57.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 22:02	AK
Delta-BHC	ND	ug/l	0.024				
Lindane	ND	ug/l	0.024				
Alpha-BHC	ND	ug/l	0.024				
Beta-BHC	ND	ug/l	0.024				
Heptachlor	ND	ug/l	0.024				
Aldrin	ND	ug/l	0.024				
Heptachlor epoxide	ND	ug/l	0.024				
Endrin	ND	ug/l	0.048				
Endrin aldehyde	ND	ug/l	0.048				
Endrin ketone	ND	ug/l	0.048				
Dieldrin	ND	ug/l	0.048				
4,4'-DDE	ND	ug/l	0.048				
4,4'-DDD	ND	ug/l	0.048				
4,4'-DDT	ND	ug/l	0.048				
Endosulfan I	ND	ug/l	0.024				
Endosulfan II	ND	ug/l	0.048				
Endosulfan sulfate	ND	ug/l	0.048				
Methoxychlor	ND	ug/l	0.238				
Toxaphene	ND	ug/l	0.238				
Chlordane	ND	ug/l	0.238				
cis-Chlordane	ND	ug/l	0.024				
trans-Chlordane	ND	ug/l	0.024				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	65.0	%	30-150				
Decachlorobiphenyl	69.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-03  
 MW/CB-9 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0006	mg/l	0.0002	1 6020	0317 12:30	0318 15:23	RW
Magnesium, Dissolved	13.8	mg/l	0.010	1 6020	0317 12:30	0318 15:23	RW
Manganese, Dissolved	0.6268	mg/l	0.0002	1 6020	0317 12:30	0318 15:23	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 12:41	DM
Nickel, Dissolved	0.0015	mg/l	0.0005	1 6020	0317 12:30	0318 15:23	RW
Potassium, Dissolved	3.56	mg/l	0.100	1 6020	0317 12:30	0318 15:23	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0317 12:30	0318 15:23	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0318 15:23	RW
Sodium, Dissolved	23.2	mg/l	0.100	1 6020	0317 12:30	0318 15:23	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0318 15:23	RW
Vanadium, Dissolved	0.0019	mg/l	0.0002	1 6020	0317 12:30	0318 15:23	RW
Zinc, Dissolved	0.0138	mg/l	0.0050	1 6020	0317 12:30	0318 15:23	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 13:52 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-03  
MW/CB-9 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	13:52 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	102.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	105.	%					
Dibromofluoromethane	100.	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0319 22:09 HL
Acenaphthene	ND	ug/l	5.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-03  
 MW/CB-9 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 22:09	HL
Benzidine	ND	ug/l	56.				
1,2,4-Trichlorobenzene	ND	ug/l	5.6				
Hexachlorobenzene	ND	ug/l	5.6				
Bis(2-chloroethyl)ether	ND	ug/l	5.6				
1-Chloronaphthalene	ND	ug/l	5.6				
2-Chloronaphthalene	ND	ug/l	6.7				
1,2-Dichlorobenzene	ND	ug/l	5.6				
1,3-Dichlorobenzene	ND	ug/l	5.6				
1,4-Dichlorobenzene	ND	ug/l	5.6				
3,3'-Dichlorobenzidine	ND	ug/l	56.				
2,4-Dinitrotoluene	ND	ug/l	6.7				
2,6-Dinitrotoluene	ND	ug/l	5.6				
Azobenzene	ND	ug/l	5.6				
Fluoranthene	ND	ug/l	5.6				
4-Chlorophenyl phenyl ether	ND	ug/l	5.6				
4-Bromophenyl phenyl ether	ND	ug/l	5.6				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.6				
Bis(2-chloroethoxy)methane	ND	ug/l	5.6				
Hexachlorobutadiene	ND	ug/l	11.				
Hexachlorocyclopentadiene	ND	ug/l	11.				
Hexachloroethane	ND	ug/l	5.6				
Isophorone	ND	ug/l	5.6				
Naphthalene	ND	ug/l	5.6				
Nitrobenzene	ND	ug/l	5.6				
NDPA/DPA	ND	ug/l	17.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.6				
Bis(2-ethylhexyl)phthalate	ND	ug/l	11.				
Butyl benzyl phthalate	ND	ug/l	5.6				
Di-n-butylphthalate	ND	ug/l	5.6				
Di-n-octylphthalate	ND	ug/l	5.6				
Diethyl phthalate	ND	ug/l	5.6				
Dimethyl phthalate	ND	ug/l	5.6				
Benzo(a)anthracene	ND	ug/l	5.6				
Benzo(a)pyrene	ND	ug/l	5.6				
Benzo(b)fluoranthene	ND	ug/l	5.6				
Benzo(k)fluoranthene	ND	ug/l	5.6				
Chrysene	ND	ug/l	5.6				
Acenaphthylene	ND	ug/l	5.6				
Anthracene	ND	ug/l	5.6				
Benzo(ghi)perylene	ND	ug/l	5.6				
Fluorene	ND	ug/l	5.6				
Phenanthrene	ND	ug/l	5.6				
Dibenzo(a,h)anthracene	ND	ug/l	5.6				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.9				
Pyrene	ND	ug/l	5.6				
Benzo(e)pyrene	ND	ug/l	5.6				
Biphenyl	ND	ug/l	5.6				
Perylene	ND	ug/l	5.6				
Aniline	ND	ug/l	11.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-03  
 MW/CB-9 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 22:09	HL
4-Chloroaniline	ND	ug/l	5.6				
1-Methylnaphthalene	ND	ug/l	5.6				
2-Nitroaniline	ND	ug/l	5.6				
3-Nitroaniline	ND	ug/l	5.6				
4-Nitroaniline	ND	ug/l	7.9				
Dibenzofuran	ND	ug/l	5.6				
a,a-Dimethylphenethylamine	ND	ug/l	56.				
Hexachloropropene	ND	ug/l	11.				
Nitrosodi-n-butylamine	ND	ug/l	11.				
2-Methylnaphthalene	ND	ug/l	9.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	22.				
Pentachlorobenzene	ND	ug/l	22.				
a-Naphthylamine	ND	ug/l	22.				
b-Naphthylamine	ND	ug/l	22.				
Phenacetin	ND	ug/l	11.				
Dimethoate	ND	ug/l	22.				
4-Aminobiphenyl	ND	ug/l	11.				
Pentachloronitrobenzene	ND	ug/l	11.				
Isodrin	ND	ug/l	11.				
p-Dimethylaminoazobenzene	ND	ug/l	11.				
Chlorobenzilate	ND	ug/l	22.				
3-Methylcholanthrene	ND	ug/l	22.				
Ethyl Methanesulfonate	ND	ug/l	17.				
Acetophenone	ND	ug/l	22.				
Nitrosodipiperidine	ND	ug/l	22.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	11.				
n-Nitrosodimethylamine	ND	ug/l	56.				
2,4,6-Trichlorophenol	ND	ug/l	5.6				
p-Chloro-m-cresol	ND	ug/l	5.6				
2-Chlorophenol	ND	ug/l	6.7				
2,4-Dichlorophenol	ND	ug/l	11.				
2,4-Dimethylphenol	ND	ug/l	11.				
2-Nitrophenol	ND	ug/l	22.				
4-Nitrophenol	ND	ug/l	11.				
2,4-Dinitrophenol	ND	ug/l	22.				
4,6-Dinitro-o-cresol	ND	ug/l	22.				
Pentachlorophenol	ND	ug/l	22.				
Phenol	ND	ug/l	7.9				
2-Methylphenol	ND	ug/l	6.7				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.7				
2,4,5-Trichlorophenol	ND	ug/l	5.6				
2,6-Dichlorophenol	ND	ug/l	11.				
Benzoic Acid	ND	ug/l	56.				
Benzyl Alcohol	ND	ug/l	11.				
Carbazole	ND	ug/l	5.6				
Pyridine	ND	ug/l	56.				
2-Picoline	ND	ug/l	22.				
Pronamide	ND	ug/l	22.				
Methyl methanesulfonate	ND	ug/l	22.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-03  
 MW/CB-9 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0319 22:09 HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	43.0	%					
Phenol-d6	39.0	%					
Nitrobenzene-d5	100.	%					
2-Fluorobiphenyl	95.0	%					
2,4,6-Tribromophenol	111.	%					
4-Terphenyl-d14	101.	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0317 09:40	0318 17:25 RL
Acenaphthene	ND	ug/l	0.22				
2-Chloronaphthalene	ND	ug/l	0.22				
Fluoranthene	9.5	ug/l	0.22				
Hexachlorobutadiene	ND	ug/l	0.56				
Naphthalene	ND	ug/l	0.22				
Benzo(a)anthracene	ND	ug/l	0.22				
Benzo(a)pyrene	ND	ug/l	0.22				
Benzo(b)fluoranthene	ND	ug/l	0.22				
Benzo(k)fluoranthene	ND	ug/l	0.22				
Chrysene	ND	ug/l	0.22				
Acenaphthylene	ND	ug/l	0.22				
Anthracene	ND	ug/l	0.22				
Benzo(ghi)perylene	1.1	ug/l	0.22				
Fluorene	ND	ug/l	0.22				
Phenanthrene	2.4	ug/l	0.22				
Dibenzo(a,h)anthracene	ND	ug/l	0.22				
Indeno(1,2,3-cd)Pyrene	0.23	ug/l	0.22				
Pyrene	19.	ug/l	0.22				
1-Methylnaphthalene	ND	ug/l	0.22				
2-Methylnaphthalene	ND	ug/l	0.22				
Pentachlorophenol	ND	ug/l	0.90				
Hexachlorobenzene	ND	ug/l	0.90				
Perylene	ND	ug/l	0.22				
Biphenyl	ND	ug/l	0.22				
2,6-Dimethylnaphthalene	ND	ug/l	0.22				
1-Methylphenanthrene	ND	ug/l	0.22				
Benzo(e)Pyrene	0.38	ug/l	0.22				
Hexachloroethane	ND	ug/l	0.90				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	48.0	%		21-120			
Phenol-d6	40.0	%		10-120			
Nitrobenzene-d5	78.0	%		23-120			
2-Fluorobiphenyl	82.0	%		43-120			
2,4,6-Tribromophenol	77.0	%		10-120			
4-Terphenyl-d14	85.0	%		33-120			
Polychlorinated Biphenyls				1	8082	0321 17:00	0322 15:30 AK
Aroclor 1221	ND	ug/l	0.538				
Aroclor 1232	ND	ug/l	0.538				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-03  
 MW/CB-9 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0321 17:00	0322 15:30	AK
Aroclor 1242/1016	ND	ug/l	0.538				
Aroclor 1248	ND	ug/l	0.538				
Aroclor 1254	ND	ug/l	0.538				
Aroclor 1260	ND	ug/l	0.538				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	59.0	%	30-150				
Decachlorobiphenyl	47.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 16:21	AK
Delta-BHC	ND	ug/l	0.022				
Lindane	ND	ug/l	0.022				
Alpha-BHC	ND	ug/l	0.022				
Beta-BHC	ND	ug/l	0.022				
Heptachlor	ND	ug/l	0.022				
Aldrin	ND	ug/l	0.022				
Heptachlor epoxide	ND	ug/l	0.022				
Endrin	ND	ug/l	0.044				
Endrin aldehyde	ND	ug/l	0.044				
Endrin ketone	ND	ug/l	0.044				
Dieldrin	ND	ug/l	0.044				
4,4'-DDE	ND	ug/l	0.044				
4,4'-DDD	ND	ug/l	0.044				
4,4'-DDT	ND	ug/l	0.044				
Endosulfan I	ND	ug/l	0.022				
Endosulfan II	ND	ug/l	0.044				
Endosulfan sulfate	ND	ug/l	0.044				
Methoxychlor	ND	ug/l	0.222				
Toxaphene	ND	ug/l	0.222				
Chlordane	ND	ug/l	0.222				
cis-Chlordane	ND	ug/l	0.022				
trans-Chlordane	ND	ug/l	0.022				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	72.0	%	30-150				
Decachlorobiphenyl	54.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

**Laboratory Sample Number:** L0502658-04 **Date Collected:** 16-MAR-2005 10:25  
**Date Received :** 16-MAR-2005  
**Sample Matrix:** MW/CB-14 (GROUNDWATER) **Date Reported :** 24-MAR-2005  
 WATER  
**Condition of Sample:** Satisfactory **Field Prep:** Field Filtered  
**Number & Type of Containers:** 6-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	47.6	mg/l	0.100	1 6020	0317 12:30	0321 18:23	RW
Antimony, Total	0.0007	mg/l	0.0002	1 6020	0317 12:30	0321 23:35	RW
Arsenic, Total	0.0146	mg/l	0.0004	1 6020	0317 12:30	0321 23:35	RW
Barium, Total	0.6555	mg/l	0.0002	1 6020	0317 12:30	0321 23:35	RW
Beryllium, Total	0.0030	mg/l	0.0005	1 6020	0317 12:30	0321 23:35	RW
Cadmium, Total	0.0011	mg/l	0.0004	1 6020	0317 12:30	0321 23:35	RW
Calcium, Total	72.1	mg/l	2.00	1 6020	0317 12:30	0321 18:23	RW
Chromium, Total	0.0580	mg/l	0.0002	1 6020	0317 12:30	0321 23:35	RW
Cobalt, Total	0.0220	mg/l	0.0001	1 6020	0317 12:30	0321 23:35	RW
Copper, Total	0.0740	mg/l	0.0005	1 6020	0317 12:30	0321 23:35	RW
Iron, Total	47.3	mg/l	0.010	1 6020	0317 12:30	0321 23:35	RW
Lead, Total	0.0554	mg/l	0.0002	1 6020	0317 12:30	0321 23:35	RW
Magnesium, Total	15.6	mg/l	0.010	1 6020	0317 12:30	0321 23:35	RW
Manganese, Total	1.709	mg/l	0.0002	1 6020	0317 12:30	0321 23:35	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0318 17:20	0321 12:10	DM
Nickel, Total	0.0532	mg/l	0.0005	1 6020	0317 12:30	0321 23:35	RW
Potassium, Total	12.9	mg/l	0.100	1 6020	0317 12:30	0321 23:35	RW
Selenium, Total	0.008	mg/l	0.001	1 6020	0317 12:30	0321 23:35	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0317 12:30	0321 23:35	RW
Sodium, Total	257.	mg/l	1.00	1 6020	0317 12:30	0321 18:23	RW
Thallium, Total	0.0005	mg/l	0.0001	1 6020	0317 12:30	0321 23:35	RW
Vanadium, Total	0.0635	mg/l	0.0002	1 6020	0317 12:30	0321 23:35	RW
Zinc, Total	0.1519	mg/l	0.0050	1 6020	0317 12:30	0321 23:35	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.032	mg/l	0.010	1 6020	0317 12:30	0321 20:19	RW
Antimony, Dissolved	0.0044	mg/l	0.0002	1 6020	0317 12:30	0321 20:19	RW
Arsenic, Dissolved	0.0017	mg/l	0.0004	1 6020	0317 12:30	0321 20:19	RW
Barium, Dissolved	0.1659	mg/l	0.0002	1 6020	0317 12:30	0321 20:19	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30	0321 20:19	RW
Cadmium, Dissolved	0.0014	mg/l	0.0004	1 6020	0317 12:30	0321 20:19	RW
Calcium, Dissolved	65.9	mg/l	2.00	1 6020	0317 12:30	0321 16:59	RW
Chromium, Dissolved	0.0026	mg/l	0.0002	1 6020	0317 12:30	0321 20:19	RW
Cobalt, Dissolved	0.0003	mg/l	0.0001	1 6020	0317 12:30	0321 20:19	RW
Copper, Dissolved	0.0191	mg/l	0.0005	1 6020	0317 12:30	0321 20:19	RW
Iron, Dissolved	0.270	mg/l	0.010	1 6020	0317 12:30	0321 20:19	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-04  
 MW/CB-14 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0013	mg/l	0.0002	1 6020	0317 12:30	0321 20:19	RW
Magnesium, Dissolved	8.38	mg/l	0.010	1 6020	0317 12:30	0321 20:19	RW
Manganese, Dissolved	0.1829	mg/l	0.0002	1 6020	0317 12:30	0321 20:19	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 12:45	DM
Nickel, Dissolved	0.0071	mg/l	0.0005	1 6020	0317 12:30	0321 20:19	RW
Potassium, Dissolved	11.5	mg/l	0.100	1 6020	0317 12:30	0321 20:19	RW
Selenium, Dissolved	0.005	mg/l	0.001	1 6020	0317 12:30	0321 20:19	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 20:19	RW
Sodium, Dissolved	241.	mg/l	1.00	1 6020	0317 12:30	0321 16:59	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 20:19	RW
Vanadium, Dissolved	0.0024	mg/l	0.0002	1 6020	0317 12:30	0321 20:19	RW
Zinc, Dissolved	0.0282	mg/l	0.0050	1 6020	0317 12:30	0321 20:19	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 14:28 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	14.	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	0.64	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-04  
 MW/CB-14 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	14:28 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	105.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	105.	%					
Dibromofluoromethane	101.	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0319 22:34 HL
Acenaphthene	ND	ug/l	5.7				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-04  
MW/CB-14 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 22:34	HL
Benzidine	ND	ug/l	57.				
1,2,4-Trichlorobenzene	ND	ug/l	5.7				
Hexachlorobenzene	ND	ug/l	5.7				
Bis(2-chloroethyl)ether	ND	ug/l	5.7				
1-Chloronaphthalene	ND	ug/l	5.7				
2-Chloronaphthalene	ND	ug/l	6.9				
1,2-Dichlorobenzene	ND	ug/l	5.7				
1,3-Dichlorobenzene	ND	ug/l	5.7				
1,4-Dichlorobenzene	ND	ug/l	5.7				
3,3'-Dichlorobenzidine	ND	ug/l	57.				
2,4-Dinitrotoluene	ND	ug/l	6.9				
2,6-Dinitrotoluene	ND	ug/l	5.7				
Azobenzene	ND	ug/l	5.7				
Fluoranthene	ND	ug/l	5.7				
4-Chlorophenyl phenyl ether	ND	ug/l	5.7				
4-Bromophenyl phenyl ether	ND	ug/l	5.7				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.7				
Bis(2-chloroethoxy)methane	ND	ug/l	5.7				
Hexachlorobutadiene	ND	ug/l	11.				
Hexachlorocyclopentadiene	ND	ug/l	11.				
Hexachloroethane	ND	ug/l	5.7				
Isophorone	ND	ug/l	5.7				
Naphthalene	ND	ug/l	5.7				
Nitrobenzene	ND	ug/l	5.7				
NDPA/DPA	ND	ug/l	17.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.7				
Bis(2-ethylhexyl)phthalate	ND	ug/l	11.				
Butyl benzyl phthalate	ND	ug/l	5.7				
Di-n-butylphthalate	ND	ug/l	5.7				
Di-n-octylphthalate	ND	ug/l	5.7				
Diethyl phthalate	ND	ug/l	5.7				
Dimethyl phthalate	ND	ug/l	5.7				
Benzo(a)anthracene	ND	ug/l	5.7				
Benzo(a)pyrene	ND	ug/l	5.7				
Benzo(b)fluoranthene	ND	ug/l	5.7				
Benzo(k)fluoranthene	ND	ug/l	5.7				
Chrysene	ND	ug/l	5.7				
Acenaphthylene	ND	ug/l	5.7				
Anthracene	ND	ug/l	5.7				
Benzo(ghi)perylene	ND	ug/l	5.7				
Fluorene	ND	ug/l	5.7				
Phenanthrene	ND	ug/l	5.7				
Dibenzo(a,h)anthracene	ND	ug/l	5.7				
Indeno(1,2,3-cd)pyrene	ND	ug/l	8.0				
Pyrene	ND	ug/l	5.7				
Benzo(e)pyrene	ND	ug/l	5.7				
Biphenyl	ND	ug/l	5.7				
Perylene	ND	ug/l	5.7				
Aniline	ND	ug/l	11.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-04  
MW/CB-14 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 22:34	HL
4-Chloroaniline	ND	ug/l	5.7				
1-Methylnaphthalene	ND	ug/l	5.7				
2-Nitroaniline	ND	ug/l	5.7				
3-Nitroaniline	ND	ug/l	5.7				
4-Nitroaniline	ND	ug/l	8.0				
Dibenzofuran	ND	ug/l	5.7				
a,a-Dimethylphenethylamine	ND	ug/l	57.				
Hexachloropropene	ND	ug/l	11.				
Nitrosodi-n-butylamine	ND	ug/l	11.				
2-Methylnaphthalene	ND	ug/l	9.2				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	23.				
Pentachlorobenzene	ND	ug/l	23.				
a-Naphthylamine	ND	ug/l	23.				
b-Naphthylamine	ND	ug/l	23.				
Phenacetin	ND	ug/l	11.				
Dimethoate	ND	ug/l	23.				
4-Aminobiphenyl	ND	ug/l	11.				
Pentachloronitrobenzene	ND	ug/l	11.				
Isodrin	ND	ug/l	11.				
p-Dimethylaminoazobenzene	ND	ug/l	11.				
Chlorobenzilate	ND	ug/l	23.				
3-Methylcholanthrene	ND	ug/l	23.				
Ethyl Methanesulfonate	ND	ug/l	17.				
Acetophenone	ND	ug/l	23.				
Nitrosodipiperidine	ND	ug/l	23.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	11.				
n-Nitrosodimethylamine	ND	ug/l	57.				
2,4,6-Trichlorophenol	ND	ug/l	5.7				
p-Chloro-m-cresol	ND	ug/l	5.7				
2-Chlorophenol	ND	ug/l	6.9				
2,4-Dichlorophenol	ND	ug/l	11.				
2,4-Dimethylphenol	ND	ug/l	11.				
2-Nitrophenol	ND	ug/l	23.				
4-Nitrophenol	ND	ug/l	11.				
2,4-Dinitrophenol	ND	ug/l	23.				
4,6-Dinitro-o-cresol	ND	ug/l	23.				
Pentachlorophenol	ND	ug/l	23.				
Phenol	ND	ug/l	8.0				
2-Methylphenol	ND	ug/l	6.9				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.9				
2,4,5-Trichlorophenol	ND	ug/l	5.7				
2,6-Dichlorophenol	ND	ug/l	11.				
Benzoic Acid	ND	ug/l	57.				
Benzyl Alcohol	ND	ug/l	11.				
Carbazole	ND	ug/l	5.7				
Pyridine	ND	ug/l	57.				
2-Picoline	ND	ug/l	23.				
Pronamide	ND	ug/l	23.				
Methyl methanesulfonate	ND	ug/l	23.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-04  
 MW/CB-14 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0319 22:34 HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	38.0	%					
Phenol-d6	35.0	%					
Nitrobenzene-d5	95.0	%					
2-Fluorobiphenyl	86.0	%					
2,4,6-Tribromophenol	104.	%					
4-Terphenyl-d14	93.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0317 09:40	0318 18:11 RL
Acenaphthene	ND	ug/l	0.23				
2-Chloronaphthalene	ND	ug/l	0.23				
Fluoranthene	ND	ug/l	0.23				
Hexachlorobutadiene	ND	ug/l	0.57				
Naphthalene	ND	ug/l	0.23				
Benzo(a)anthracene	ND	ug/l	0.23				
Benzo(a)pyrene	ND	ug/l	0.23				
Benzo(b)fluoranthene	ND	ug/l	0.23				
Benzo(k)fluoranthene	ND	ug/l	0.23				
Chrysene	ND	ug/l	0.23				
Acenaphthylene	ND	ug/l	0.23				
Anthracene	ND	ug/l	0.23				
Benzo(ghi)perylene	ND	ug/l	0.23				
Fluorene	ND	ug/l	0.23				
Phenanthrene	ND	ug/l	0.23				
Dibenzo(a,h)anthracene	ND	ug/l	0.23				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.23				
Pyrene	1.2	ug/l	0.23				
1-Methylnaphthalene	ND	ug/l	0.23				
2-Methylnaphthalene	ND	ug/l	0.23				
Pentachlorophenol	ND	ug/l	0.92				
Hexachlorobenzene	ND	ug/l	0.92				
Perylene	ND	ug/l	0.23				
Biphenyl	ND	ug/l	0.23				
2,6-Dimethylnaphthalene	ND	ug/l	0.23				
1-Methylphenanthrene	ND	ug/l	0.23				
Benzo(e)Pyrene	ND	ug/l	0.23				
Hexachloroethane	ND	ug/l	0.92				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	46.0	%		21-120			
Phenol-d6	39.0	%		10-120			
Nitrobenzene-d5	78.0	%		23-120			
2-Fluorobiphenyl	76.0	%		43-120			
2,4,6-Tribromophenol	74.0	%		10-120			
4-Terphenyl-d14	77.0	%		33-120			
Polychlorinated Biphenyls				1	8082	0317 13:00	0318 18:18 AK
Aroclor 1221	ND	ug/l	0.549				
Aroclor 1232	ND	ug/l	0.549				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-04  
 MW/CB-14 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0317 13:00	0318 18:18	AK
Aroclor 1242/1016	ND	ug/l	0.549				
Aroclor 1248	ND	ug/l	0.549				
Aroclor 1254	ND	ug/l	0.549				
Aroclor 1260	ND	ug/l	0.549				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	58.0	%	30-150				
Decachlorobiphenyl	32.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 16:50	AK
Delta-BHC	ND	ug/l	0.023				
Lindane	ND	ug/l	0.023				
Alpha-BHC	ND	ug/l	0.023				
Beta-BHC	ND	ug/l	0.023				
Heptachlor	ND	ug/l	0.023				
Aldrin	ND	ug/l	0.023				
Heptachlor epoxide	ND	ug/l	0.023				
Endrin	ND	ug/l	0.045				
Endrin aldehyde	ND	ug/l	0.045				
Endrin ketone	ND	ug/l	0.045				
Dieldrin	ND	ug/l	0.045				
4,4'-DDE	ND	ug/l	0.045				
4,4'-DDD	ND	ug/l	0.045				
4,4'-DDT	ND	ug/l	0.045				
Endosulfan I	ND	ug/l	0.023				
Endosulfan II	ND	ug/l	0.045				
Endosulfan sulfate	ND	ug/l	0.045				
Methoxychlor	ND	ug/l	0.225				
Toxaphene	ND	ug/l	0.225				
Chlordane	ND	ug/l	0.225				
cis-Chlordane	ND	ug/l	0.023				
trans-Chlordane	ND	ug/l	0.023				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	64.0	%	30-150				
Decachlorobiphenyl	50.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502658-05 Date Collected: 16-MAR-2005 11:00  
 MW/CB-8 (GROUNDWATER) Date Received : 16-MAR-2005  
 Sample Matrix: WATER Date Reported : 24-MAR-2005  
 Condition of Sample: Satisfactory Field Prep: Field Filtered  
 Number & Type of Containers: 6-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	22.9	mg/l	0.100	1 6020	0317 12:30	0321 18:29	RW
Antimony, Total	0.0004	mg/l	0.0002	1 6020	0317 12:30	0321 23:40	RW
Arsenic, Total	0.0064	mg/l	0.0004	1 6020	0317 12:30	0321 23:40	RW
Barium, Total	0.2038	mg/l	0.0002	1 6020	0317 12:30	0321 23:40	RW
Beryllium, Total	0.0012	mg/l	0.0005	1 6020	0317 12:30	0321 23:40	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0317 12:30	0321 23:40	RW
Calcium, Total	120.	mg/l	2.00	1 6020	0317 12:30	0321 18:29	RW
Chromium, Total	0.0379	mg/l	0.0002	1 6020	0317 12:30	0321 23:40	RW
Cobalt, Total	0.0111	mg/l	0.0001	1 6020	0317 12:30	0321 23:40	RW
Copper, Total	0.0401	mg/l	0.0005	1 6020	0317 12:30	0321 23:40	RW
Iron, Total	21.1	mg/l	0.010	1 6020	0317 12:30	0321 23:40	RW
Lead, Total	0.0276	mg/l	0.0002	1 6020	0317 12:30	0321 23:40	RW
Magnesium, Total	26.3	mg/l	0.010	1 6020	0317 12:30	0321 23:40	RW
Manganese, Total	1.784	mg/l	0.0002	1 6020	0317 12:30	0321 23:40	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0318 17:20	0321 12:12	DM
Nickel, Total	0.0267	mg/l	0.0005	1 6020	0317 12:30	0321 23:40	RW
Potassium, Total	18.8	mg/l	0.100	1 6020	0317 12:30	0321 23:40	RW
Selenium, Total	0.004	mg/l	0.001	1 6020	0317 12:30	0321 23:40	RW
Silver, Total	0.0003	mg/l	0.0001	1 6020	0317 12:30	0321 23:40	RW
Sodium, Total	226.	mg/l	1.00	1 6020	0317 12:30	0321 18:29	RW
Thallium, Total	0.0002	mg/l	0.0001	1 6020	0317 12:30	0321 23:40	RW
Vanadium, Total	0.0301	mg/l	0.0002	1 6020	0317 12:30	0321 23:40	RW
Zinc, Total	0.0822	mg/l	0.0050	1 6020	0317 12:30	0321 23:40	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.017	mg/l	0.010	1 6020	0317 12:30	0321 20:24	RW
Antimony, Dissolved	0.0069	mg/l	0.0002	1 6020	0317 12:30	0321 20:24	RW
Arsenic, Dissolved	0.0009	mg/l	0.0004	1 6020	0317 12:30	0321 20:24	RW
Barium, Dissolved	0.0891	mg/l	0.0002	1 6020	0317 12:30	0321 20:24	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30	0321 20:24	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0317 12:30	0321 20:24	RW
Calcium, Dissolved	99.5	mg/l	2.00	1 6020	0317 12:30	0321 17:04	RW
Chromium, Dissolved	0.0003	mg/l	0.0002	1 6020	0317 12:30	0321 20:24	RW
Cobalt, Dissolved	0.0008	mg/l	0.0001	1 6020	0317 12:30	0321 20:24	RW
Copper, Dissolved	0.0086	mg/l	0.0005	1 6020	0317 12:30	0321 20:24	RW
Iron, Dissolved	0.352	mg/l	0.010	1 6020	0317 12:30	0321 20:24	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-05  
 MW/CB-8 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0004	mg/l	0.0002	1 6020	0317 12:30	0321 20:24	RW
Magnesium, Dissolved	22.3	mg/l	0.010	1 6020	0317 12:30	0321 20:24	RW
Manganese, Dissolved	1.388	mg/l	0.0002	1 6020	0317 12:30	0321 20:24	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 12:54	DM
Nickel, Dissolved	0.0047	mg/l	0.0005	1 6020	0317 12:30	0321 20:24	RW
Potassium, Dissolved	20.2	mg/l	0.100	1 6020	0317 12:30	0321 20:24	RW
Selenium, Dissolved	0.002	mg/l	0.001	1 6020	0317 12:30	0321 20:24	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 20:24	RW
Sodium, Dissolved	231.	mg/l	1.00	1 6020	0317 12:30	0321 17:04	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 20:24	RW
Vanadium, Dissolved	0.0011	mg/l	0.0002	1 6020	0317 12:30	0321 20:24	RW
Zinc, Dissolved	0.0149	mg/l	0.0050	1 6020	0317 12:30	0321 20:24	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 15:04 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	8.4	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	0.69	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-05  
 MW/CB-8 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	15:04 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	107.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	106.	%					
Dibromofluoromethane	105.	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0319 22:59 HL
Acenaphthene	ND	ug/l	5.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-05  
 MW/CB-8 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 22:59	HL
Benzidine	ND	ug/l	56.				
1,2,4-Trichlorobenzene	ND	ug/l	5.6				
Hexachlorobenzene	ND	ug/l	5.6				
Bis(2-chloroethyl)ether	ND	ug/l	5.6				
1-Chloronaphthalene	ND	ug/l	5.6				
2-Chloronaphthalene	ND	ug/l	6.7				
1,2-Dichlorobenzene	ND	ug/l	5.6				
1,3-Dichlorobenzene	ND	ug/l	5.6				
1,4-Dichlorobenzene	ND	ug/l	5.6				
3,3'-Dichlorobenzidine	ND	ug/l	56.				
2,4-Dinitrotoluene	ND	ug/l	6.7				
2,6-Dinitrotoluene	ND	ug/l	5.6				
Azobenzene	ND	ug/l	5.6				
Fluoranthene	ND	ug/l	5.6				
4-Chlorophenyl phenyl ether	ND	ug/l	5.6				
4-Bromophenyl phenyl ether	ND	ug/l	5.6				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.6				
Bis(2-chloroethoxy)methane	ND	ug/l	5.6				
Hexachlorobutadiene	ND	ug/l	11.				
Hexachlorocyclopentadiene	ND	ug/l	11.				
Hexachloroethane	ND	ug/l	5.6				
Isophorone	ND	ug/l	5.6				
Naphthalene	ND	ug/l	5.6				
Nitrobenzene	ND	ug/l	5.6				
NDPA/DPA	ND	ug/l	17.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.6				
Bis(2-ethylhexyl)phthalate	ND	ug/l	11.				
Butyl benzyl phthalate	ND	ug/l	5.6				
Di-n-butylphthalate	ND	ug/l	5.6				
Di-n-octylphthalate	ND	ug/l	5.6				
Diethyl phthalate	ND	ug/l	5.6				
Dimethyl phthalate	ND	ug/l	5.6				
Benzo(a)anthracene	ND	ug/l	5.6				
Benzo(a)pyrene	ND	ug/l	5.6				
Benzo(b)fluoranthene	ND	ug/l	5.6				
Benzo(k)fluoranthene	ND	ug/l	5.6				
Chrysene	ND	ug/l	5.6				
Acenaphthylene	ND	ug/l	5.6				
Anthracene	ND	ug/l	5.6				
Benzo(ghi)perylene	ND	ug/l	5.6				
Fluorene	ND	ug/l	5.6				
Phenanthrene	ND	ug/l	5.6				
Dibenzo(a,h)anthracene	ND	ug/l	5.6				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.8				
Pyrene	8.8	ug/l	5.6				
Benzo(e)pyrene	ND	ug/l	5.6				
Biphenyl	ND	ug/l	5.6				
Perylene	ND	ug/l	5.6				
Aniline	ND	ug/l	11.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-05  
MW/CB-8 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 22:59	HL
4-Chloroaniline	ND	ug/l	5.6				
1-Methylnaphthalene	ND	ug/l	5.6				
2-Nitroaniline	ND	ug/l	5.6				
3-Nitroaniline	ND	ug/l	5.6				
4-Nitroaniline	ND	ug/l	7.8				
Dibenzofuran	ND	ug/l	5.6				
a,a-Dimethylphenethylamine	ND	ug/l	56.				
Hexachloropropene	ND	ug/l	11.				
Nitrosodi-n-butylamine	ND	ug/l	11.				
2-Methylnaphthalene	ND	ug/l	8.9				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	22.				
Pentachlorobenzene	ND	ug/l	22.				
a-Naphthylamine	ND	ug/l	22.				
b-Naphthylamine	ND	ug/l	22.				
Phenacetin	ND	ug/l	11.				
Dimethoate	ND	ug/l	22.				
4-Aminobiphenyl	ND	ug/l	11.				
Pentachloronitrobenzene	ND	ug/l	11.				
Isodrin	ND	ug/l	11.				
p-Dimethylaminoazobenzene	ND	ug/l	11.				
Chlorobenzilate	ND	ug/l	22.				
3-Methylcholanthrene	ND	ug/l	22.				
Ethyl Methanesulfonate	ND	ug/l	17.				
Acetophenone	ND	ug/l	22.				
Nitrosodipiperidine	ND	ug/l	22.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	11.				
n-Nitrosodimethylamine	ND	ug/l	56.				
2,4,6-Trichlorophenol	ND	ug/l	5.6				
p-Chloro-m-cresol	ND	ug/l	5.6				
2-Chlorophenol	ND	ug/l	6.7				
2,4-Dichlorophenol	ND	ug/l	11.				
2,4-Dimethylphenol	ND	ug/l	11.				
2-Nitrophenol	ND	ug/l	22.				
4-Nitrophenol	ND	ug/l	11.				
2,4-Dinitrophenol	ND	ug/l	22.				
4,6-Dinitro-o-cresol	ND	ug/l	22.				
Pentachlorophenol	ND	ug/l	22.				
Phenol	ND	ug/l	7.8				
2-Methylphenol	ND	ug/l	6.7				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.7				
2,4,5-Trichlorophenol	ND	ug/l	5.6				
2,6-Dichlorophenol	ND	ug/l	11.				
Benzoic Acid	ND	ug/l	56.				
Benzyl Alcohol	ND	ug/l	11.				
Carbazole	ND	ug/l	5.6				
Pyridine	ND	ug/l	56.				
2-Picoline	ND	ug/l	22.				
Pronamide	ND	ug/l	22.				
Methyl methanesulfonate	ND	ug/l	22.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-05  
 MW/CB-8 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 22:59	HL
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	32.0	%					
Phenol-d6	29.0	%					
Nitrobenzene-d5	78.0	%					
2-Fluorobiphenyl	71.0	%					
2,4,6-Tribromophenol	102.	%					
4-Terphenyl-d14	84.0	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0317 09:40	0318 18:56	RL
Acenaphthene	ND	ug/l	0.22				
2-Chloronaphthalene	ND	ug/l	0.22				
Fluoranthene	5.4	ug/l	0.22				
Hexachlorobutadiene	ND	ug/l	0.56				
Naphthalene	ND	ug/l	0.22				
Benzo(a)anthracene	ND	ug/l	0.22				
Benzo(a)pyrene	0.38	ug/l	0.22				
Benzo(b)fluoranthene	0.33	ug/l	0.22				
Benzo(k)fluoranthene	0.28	ug/l	0.22				
Chrysene	0.28	ug/l	0.22				
Acenaphthylene	ND	ug/l	0.22				
Anthracene	ND	ug/l	0.22				
Benzo(ghi)perylene	2.6	ug/l	0.22				
Fluorene	ND	ug/l	0.22				
Phenanthrene	0.96	ug/l	0.22				
Dibenzo(a,h)anthracene	ND	ug/l	0.22				
Indeno(1,2,3-cd)Pyrene	0.50	ug/l	0.22				
Pyrene	11.	ug/l	0.22				
1-Methylnaphthalene	ND	ug/l	0.22				
2-Methylnaphthalene	ND	ug/l	0.22				
Pentachlorophenol	ND	ug/l	0.89				
Hexachlorobenzene	ND	ug/l	0.89				
Perylene	0.23	ug/l	0.22				
Biphenyl	ND	ug/l	0.22				
2,6-Dimethylnaphthalene	ND	ug/l	0.22				
1-Methylphenanthrene	ND	ug/l	0.22				
Benzo(e)Pyrene	0.76	ug/l	0.22				
Hexachloroethane	ND	ug/l	0.89				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	38.0	%	21-120				
Phenol-d6	31.0	%	10-120				
Nitrobenzene-d5	64.0	%	23-120				
2-Fluorobiphenyl	63.0	%	43-120				
2,4,6-Tribromophenol	72.0	%	10-120				
4-Terphenyl-d14	74.0	%	33-120				
Polychlorinated Biphenyls				1 8082	0321 17:00	0322 14:33	AK
Aroclor 1221	ND	ug/l	0.549				
Aroclor 1232	ND	ug/l	0.549				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-05  
 MW/CB-8 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0321 17:00	0322 14:33	AK
Aroclor 1242/1016	ND	ug/l	0.549				
Aroclor 1248	ND	ug/l	0.549				
Aroclor 1254	ND	ug/l	0.549				
Aroclor 1260	ND	ug/l	0.549				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	53.0	%	30-150				
Decachlorobiphenyl	68.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 17:18	AK
Delta-BHC	ND	ug/l	0.022				
Lindane	ND	ug/l	0.022				
Alpha-BHC	ND	ug/l	0.022				
Beta-BHC	ND	ug/l	0.022				
Heptachlor	ND	ug/l	0.022				
Aldrin	ND	ug/l	0.022				
Heptachlor epoxide	ND	ug/l	0.022				
Endrin	ND	ug/l	0.044				
Endrin aldehyde	ND	ug/l	0.044				
Endrin ketone	ND	ug/l	0.044				
Dieldrin	ND	ug/l	0.044				
4,4'-DDE	ND	ug/l	0.044				
4,4'-DDD	ND	ug/l	0.044				
4,4'-DDT	ND	ug/l	0.044				
Endosulfan I	ND	ug/l	0.022				
Endosulfan II	ND	ug/l	0.044				
Endosulfan sulfate	ND	ug/l	0.044				
Methoxychlor	ND	ug/l	0.220				
Toxaphene	ND	ug/l	0.220				
Chlordane	ND	ug/l	0.220				
cis-Chlordane	ND	ug/l	0.022				
trans-Chlordane	ND	ug/l	0.022				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	62.0	%	30-150				
Decachlorobiphenyl	38.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0502658-06 Date Collected: 16-MAR-2005 11:30  
 MW/CB-22 (GROUNDWATER) Date Received : 16-MAR-2005  
 Sample Matrix: WATER Date Reported : 24-MAR-2005  
 Condition of Sample: Satisfactory Field Prep: Field Filtered  
 Number & Type of Containers: 6-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
<b>Total Metals</b>						
Aluminum, Total	2.85	mg/l	0.100	1 6020	0317 12:30 0321 18:50	RW
Antimony, Total	0.0003	mg/l	0.0002	1 6020	0317 12:30 0321 23:46	RW
Arsenic, Total	0.0162	mg/l	0.0004	1 6020	0317 12:30 0321 23:46	RW
Barium, Total	0.2156	mg/l	0.0002	1 6020	0317 12:30 0321 23:46	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0317 12:30 0321 23:46	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0317 12:30 0321 23:46	RW
Calcium, Total	252.	mg/l	2.00	1 6020	0317 12:30 0321 18:50	RW
Chromium, Total	0.0070	mg/l	0.0002	1 6020	0317 12:30 0321 23:46	RW
Cobalt, Total	0.002	mg/l	0.0001	1 6020	0317 12:30 0321 23:46	RW
Copper, Total	0.0090	mg/l	0.0005	1 6020	0317 12:30 0321 23:46	RW
Iron, Total	11.8	mg/l	0.010	1 6020	0317 12:30 0321 23:46	RW
Lead, Total	0.050	mg/l	0.0002	1 6020	0317 12:30 0321 23:46	RW
Magnesium, Total	39.6	mg/l	0.010	1 6020	0317 12:30 0321 23:46	RW
Manganese, Total	4.210	mg/l	0.0002	1 6020	0317 12:30 0321 23:46	RW
Mercury, Total	0.0002	mg/l	0.0002	1 7470A	0318 17:20 0321 12:14	DM
Nickel, Total	0.0050	mg/l	0.0005	1 6020	0317 12:30 0321 23:46	RW
Potassium, Total	22.0	mg/l	0.100	1 6020	0317 12:30 0321 23:46	RW
Selenium, Total	0.001	mg/l	0.001	1 6020	0317 12:30 0321 23:46	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0317 12:30 0321 23:46	RW
Sodium, Total	162.	mg/l	1.00	1 6020	0317 12:30 0321 18:50	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0317 12:30 0321 23:46	RW
Vanadium, Total	0.0044	mg/l	0.0002	1 6020	0317 12:30 0321 23:46	RW
Zinc, Total	0.0322	mg/l	0.0050	1 6020	0317 12:30 0321 23:46	RW
<b>Dissolved Metals</b>						
Aluminum, Dissolved	ND	mg/l	0.010	1 6020	0317 12:30 0321 20:30	RW
Antimony, Dissolved	0.002	mg/l	0.0002	1 6020	0317 12:30 0321 20:30	RW
Arsenic, Dissolved	0.0124	mg/l	0.0004	1 6020	0317 12:30 0321 20:30	RW
Barium, Dissolved	0.1352	mg/l	0.0002	1 6020	0317 12:30 0321 20:30	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30 0321 20:30	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0317 12:30 0321 20:30	RW
Calcium, Dissolved	191.	mg/l	2.00	1 6020	0317 12:30 0321 17:10	RW
Chromium, Dissolved	0.0002	mg/l	0.0002	1 6020	0317 12:30 0321 20:30	RW
Cobalt, Dissolved	0.0012	mg/l	0.0001	1 6020	0317 12:30 0321 20:30	RW
Copper, Dissolved	0.0056	mg/l	0.0005	1 6020	0317 12:30 0321 20:30	RW
Iron, Dissolved	4.79	mg/l	0.010	1 6020	0317 12:30 0321 20:30	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-06  
 MW/CB-22 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0003	mg/l	0.0002	1 6020	0317 12:30	0321 20:30	RW
Magnesium, Dissolved	28.5	mg/l	0.010	1 6020	0317 12:30	0321 20:30	RW
Manganese, Dissolved	3.514	mg/l	0.0002	1 6020	0317 12:30	0321 20:30	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 12:55	DM
Nickel, Dissolved	0.0046	mg/l	0.0005	1 6020	0317 12:30	0321 20:30	RW
Potassium, Dissolved	20.1	mg/l	0.100	1 6020	0317 12:30	0321 20:30	RW
Selenium, Dissolved	0.001	mg/l	0.001	1 6020	0317 12:30	0321 20:30	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 20:30	RW
Sodium, Dissolved	90.0	mg/l	1.00	1 6020	0317 12:30	0321 17:10	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 20:30	RW
Vanadium, Dissolved	0.0003	mg/l	0.0002	1 6020	0317 12:30	0321 20:30	RW
Zinc, Dissolved	0.0155	mg/l	0.0050	1 6020	0317 12:30	0321 20:30	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 15:41 BT		
Methylene chloride	ND	ug/l	12.				
1,1-Dichloroethane	ND	ug/l	1.9				
Chloroform	ND	ug/l	1.9				
Carbon tetrachloride	ND	ug/l	1.2				
1,2-Dichloropropane	ND	ug/l	4.4				
Dibromochloromethane	ND	ug/l	1.2				
1,1,2-Trichloroethane	ND	ug/l	1.9				
Tetrachloroethene	ND	ug/l	1.2				
Chlorobenzene	ND	ug/l	1.2				
Trichlorofluoromethane	ND	ug/l	6.2				
1,2-Dichloroethane	ND	ug/l	1.2				
1,1,1-Trichloroethane	ND	ug/l	1.2				
Bromodichloromethane	ND	ug/l	1.2				
trans-1,3-Dichloropropene	ND	ug/l	1.2				
cis-1,3-Dichloropropene	ND	ug/l	1.2				
1,1-Dichloropropene	ND	ug/l	6.2				
Bromoform	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.2				
Benzene	ND	ug/l	1.2				
Toluene	7.8	ug/l	1.9				
Ethylbenzene	ND	ug/l	1.2				
Chloromethane	ND	ug/l	6.2				
Bromomethane	ND	ug/l	2.5				
Vinyl chloride	ND	ug/l	2.5				
Chloroethane	ND	ug/l	2.5				
1,1-Dichloroethene	ND	ug/l	1.2				
trans-1,2-Dichloroethene	ND	ug/l	1.9				
Trichloroethene	ND	ug/l	1.2				
1,2-Dichlorobenzene	ND	ug/l	6.2				
1,3-Dichlorobenzene	ND	ug/l	6.2				
1,4-Dichlorobenzene	ND	ug/l	6.2				
Methyl tert butyl ether	ND	ug/l	2.5				
p/m-Xylene	250	ug/l	1.2				
o-Xylene	4.7	ug/l	1.2				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-06  
 MW/CB-22 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	15:41 BT
cis-1,2-Dichloroethene	ND	ug/l	1.2				
Dibromomethane	ND	ug/l	12.				
1,4-Dichlorobutane	ND	ug/l	12.				
Iodomethane	ND	ug/l	12.				
1,2,3-Trichloropropane	ND	ug/l	12.				
Styrene	ND	ug/l	1.2				
Dichlorodifluoromethane	ND	ug/l	12.				
Acetone	ND	ug/l	12.				
Carbon disulfide	ND	ug/l	12.				
2-Butanone	ND	ug/l	12.				
Vinyl acetate	ND	ug/l	12.				
4-Methyl-2-pentanone	ND	ug/l	12.				
2-Hexanone	ND	ug/l	12.				
Ethyl methacrylate	ND	ug/l	12.				
Acrolein	ND	ug/l	31.				
Acrylonitrile	ND	ug/l	12.				
Bromochloromethane	ND	ug/l	6.2				
Tetrahydrofuran	ND	ug/l	25.				
2,2-Dichloropropane	ND	ug/l	6.2				
1,2-Dibromoethane	ND	ug/l	5.0				
1,3-Dichloropropane	ND	ug/l	6.2				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.2				
Bromobenzene	ND	ug/l	6.2				
n-Butylbenzene	ND	ug/l	1.2				
sec-Butylbenzene	3.9	ug/l	1.2				
tert-Butylbenzene	ND	ug/l	6.2				
o-Chlorotoluene	ND	ug/l	6.2				
p-Chlorotoluene	ND	ug/l	6.2				
1,2-Dibromo-3-chloropropane	ND	ug/l	6.2				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropylbenzene	31.	ug/l	1.2				
p-Isopropyltoluene	1.3	ug/l	1.2				
Naphthalene	22.	ug/l	6.2				
n-Propylbenzene	25.	ug/l	1.2				
1,2,3-Trichlorobenzene	ND	ug/l	6.2				
1,2,4-Trichlorobenzene	ND	ug/l	6.2				
1,3,5-Trimethylbenzene	28.	ug/l	6.2				
1,2,4-Trimethylbenzene	35.	ug/l	6.2				
trans-1,4-Dichloro-2-butene	ND	ug/l	6.2				
Ethyl ether	ND	ug/l	6.2				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	92.0	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	105.	%					
Dibromofluoromethane	91.0	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0319 23:24 HL
Acenaphthene	ND	ug/l	5.4				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-06  
MW/CB-22 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 23:24	HL
Benzidine	ND	ug/l	54.				
1,2,4-Trichlorobenzene	ND	ug/l	5.4				
Hexachlorobenzene	ND	ug/l	5.4				
Bis(2-chloroethyl)ether	ND	ug/l	5.4				
1-Chloronaphthalene	ND	ug/l	5.4				
2-Chloronaphthalene	ND	ug/l	6.4				
1,2-Dichlorobenzene	ND	ug/l	5.4				
1,3-Dichlorobenzene	ND	ug/l	5.4				
1,4-Dichlorobenzene	ND	ug/l	5.4				
3,3'-Dichlorobenzidine	ND	ug/l	54.				
2,4-Dinitrotoluene	ND	ug/l	6.4				
2,6-Dinitrotoluene	ND	ug/l	5.4				
Azobenzene	ND	ug/l	5.4				
Fluoranthene	9.1	ug/l	5.4				
4-Chlorophenyl phenyl ether	ND	ug/l	5.4				
4-Bromophenyl phenyl ether	ND	ug/l	5.4				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.4				
Bis(2-chloroethoxy)methane	ND	ug/l	5.4				
Hexachlorobutadiene	ND	ug/l	11.				
Hexachlorocyclopentadiene	ND	ug/l	11.				
Hexachloroethane	ND	ug/l	5.4				
Isophorone	ND	ug/l	5.4				
Naphthalene	ND	ug/l	5.4				
Nitrobenzene	ND	ug/l	5.4				
NDPA/DPA	ND	ug/l	16.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.4				
Bis(2-ethylhexyl)phthalate	ND	ug/l	11.				
Butyl benzyl phthalate	ND	ug/l	5.4				
Di-n-butylphthalate	ND	ug/l	5.4				
Di-n-octylphthalate	ND	ug/l	5.4				
Diethyl phthalate	ND	ug/l	5.4				
Dimethyl phthalate	ND	ug/l	5.4				
Benzo(a)anthracene	ND	ug/l	5.4				
Benzo(a)pyrene	ND	ug/l	5.4				
Benzo(b)fluoranthene	ND	ug/l	5.4				
Benzo(k)fluoranthene	ND	ug/l	5.4				
Chrysene	ND	ug/l	5.4				
Acenaphthylene	ND	ug/l	5.4				
Anthracene	ND	ug/l	5.4				
Benzo(ghi)perylene	ND	ug/l	5.4				
Fluorene	ND	ug/l	5.4				
Phenanthrene	ND	ug/l	5.4				
Dibenzo(a,h)anthracene	ND	ug/l	5.4				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.5				
Pyrene	19.	ug/l	5.4				
Benzo(e)pyrene	ND	ug/l	5.4				
Biphenyl	ND	ug/l	5.4				
Perylene	ND	ug/l	5.4				
Aniline	ND	ug/l	11.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-06  
 MW/CB-22 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0319 23:24 HL
4-Chloroaniline	ND	ug/l	5.4				
1-Methylnaphthalene	ND	ug/l	5.4				
2-Nitroaniline	ND	ug/l	5.4				
3-Nitroaniline	ND	ug/l	5.4				
4-Nitroaniline	ND	ug/l	7.5				
Dibenzofuran	ND	ug/l	5.4				
a,a-Dimethylphenethylamine	ND	ug/l	54.				
Hexachloropropene	ND	ug/l	11.				
Nitrosodi-n-butylamine	ND	ug/l	11.				
2-Methylnaphthalene	ND	ug/l	8.6				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	22.				
Pentachlorobenzene	ND	ug/l	22.				
a-Naphthylamine	ND	ug/l	22.				
b-Naphthylamine	ND	ug/l	22.				
Phenacetin	ND	ug/l	11.				
Dimethoate	ND	ug/l	22.				
4-Aminobiphenyl	ND	ug/l	11.				
Pentachloronitrobenzene	ND	ug/l	11.				
Isodrin	ND	ug/l	11.				
p-Dimethylaminoazobenzene	ND	ug/l	11.				
Chlorobenzilate	ND	ug/l	22.				
3-Methylcholanthrene	ND	ug/l	22.				
Ethyl Methanesulfonate	ND	ug/l	16.				
Acetophenone	ND	ug/l	22.				
Nitrosodipiperidine	ND	ug/l	22.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	11.				
n-Nitrosodimethylamine	ND	ug/l	54.				
2,4,6-Trichlorophenol	ND	ug/l	5.4				
p-Chloro-m-cresol	ND	ug/l	5.4				
2-Chlorophenol	ND	ug/l	6.4				
2,4-Dichlorophenol	ND	ug/l	11.				
2,4-Dimethylphenol	ND	ug/l	11.				
2-Nitrophenol	ND	ug/l	22.				
4-Nitrophenol	ND	ug/l	11.				
2,4-Dinitrophenol	ND	ug/l	22.				
4,6-Dinitro-o-cresol	ND	ug/l	22.				
Pentachlorophenol	ND	ug/l	22.				
Phenol	ND	ug/l	7.5				
2-Methylphenol	ND	ug/l	6.4				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.4				
2,4,5-Trichlorophenol	ND	ug/l	5.4				
2,6-Dichlorophenol	ND	ug/l	11.				
Benzoic Acid	ND	ug/l	54.				
Benzyl Alcohol	ND	ug/l	11.				
Carbazole	ND	ug/l	5.4				
Pyridine	ND	ug/l	54.				
2-Picoline	ND	ug/l	22.				
Pronamide	ND	ug/l	22.				
Methyl methanesulfonate	ND	ug/l	22.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-06  
 MW/CB-22 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 23:24	HL
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	36.0	%					
Phenol-d6	30.0	%					
Nitrobenzene-d5	83.0	%					
2-Fluorobiphenyl	74.0	%					
2,4,6-Tribromophenol	114.	%					
4-Terphenyl-d14	101.	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0317 09:40	0318 19:42	RL
Acenaphthene	ND	ug/l	0.22				
2-Chloronaphthalene	ND	ug/l	0.22				
Fluoranthene	12.	ug/l	0.22				
Hexachlorobutadiene	ND	ug/l	0.54				
Naphthalene	5.4	ug/l	0.22				
Benzo(a)anthracene	ND	ug/l	0.22				
Benzo(a)pyrene	0.23	ug/l	0.22				
Benzo(b)fluoranthene	ND	ug/l	0.22				
Benzo(k)fluoranthene	ND	ug/l	0.22				
Chrysene	0.23	ug/l	0.22				
Acenaphthylene	ND	ug/l	0.22				
Anthracene	ND	ug/l	0.22				
Benzo(ghi)perylene	1.2	ug/l	0.22				
Fluorene	ND	ug/l	0.22				
Phenanthrene	1.7	ug/l	0.22				
Dibenzo(a,h)anthracene	ND	ug/l	0.22				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.22				
Pyrene	23.	ug/l	0.22				
1-Methylnaphthalene	0.45	ug/l	0.22				
2-Methylnaphthalene	ND	ug/l	0.22				
Pentachlorophenol	ND	ug/l	0.86				
Hexachlorobenzene	ND	ug/l	0.86				
Perylene	ND	ug/l	0.22				
Biphenyl	ND	ug/l	0.22				
2,6-Dimethylnaphthalene	ND	ug/l	0.22				
1-Methylphenanthrene	ND	ug/l	0.22				
Benzo(e)Pyrene	0.46	ug/l	0.22				
Hexachloroethane	ND	ug/l	0.86				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	41.0	%	21-120				
Phenol-d6	32.0	%	10-120				
Nitrobenzene-d5	66.0	%	23-120				
2-Fluorobiphenyl	66.0	%	43-120				
2,4,6-Tribromophenol	73.0	%	10-120				
4-Terphenyl-d14	83.0	%	33-120				
Polychlorinated Biphenyls				1 8082	0317 13:00	0318 19:44	AK
Aroclor 1221	ND	ug/l	0.549				
Aroclor 1232	ND	ug/l	0.549				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-06  
 MW/CB-22 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0317 13:00	0318 19:44	AK
Aroclor 1242/1016	ND	ug/l	0.549				
Aroclor 1248	ND	ug/l	0.549				
Aroclor 1254	ND	ug/l	0.549				
Aroclor 1260	ND	ug/l	0.549				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	61.0	%	30-150				
Decachlorobiphenyl	41.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 17:46	AK
Delta-BHC	ND	ug/l	0.021				
Lindane	ND	ug/l	0.021				
Alpha-BHC	ND	ug/l	0.021				
Beta-BHC	ND	ug/l	0.021				
Heptachlor	ND	ug/l	0.021				
Aldrin	ND	ug/l	0.021				
Heptachlor epoxide	ND	ug/l	0.021				
Endrin	ND	ug/l	0.043				
Endrin aldehyde	ND	ug/l	0.043				
Endrin ketone	ND	ug/l	0.043				
Dieldrin	ND	ug/l	0.043				
4,4'-DDE	ND	ug/l	0.043				
4,4'-DDD	ND	ug/l	0.043				
4,4'-DDT	ND	ug/l	0.043				
Endosulfan I	ND	ug/l	0.021				
Endosulfan II	ND	ug/l	0.043				
Endosulfan sulfate	ND	ug/l	0.043				
Methoxychlor	ND	ug/l	0.213				
Toxaphene	ND	ug/l	0.213				
Chlordane	ND	ug/l	0.213				
cis-Chlordane	ND	ug/l	0.021				
trans-Chlordane	ND	ug/l	0.021				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	59.0	%	30-150				
Decachlorobiphenyl	49.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

**Laboratory Sample Number:** L0502658-07  
**Sample Matrix:** MW/CB-21 (GROUNDWATER)  
 WATER

**Date Collected:** 16-MAR-2005 12:00  
**Date Received :** 16-MAR-2005  
**Date Reported :** 24-MAR-2005

**Condition of Sample:** Satisfactory      **Field Prep:** Field Filtered

**Number & Type of Containers:** 6-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
<b>Total Metals</b>						
Aluminum, Total	18.0	mg/l	0.100	1 6020	0317 12:30 0321 18:55	RW
Antimony, Total	0.0004	mg/l	0.0002	1 6020	0317 12:30 0322 00:51	RW
Arsenic, Total	0.0063	mg/l	0.0004	1 6020	0317 12:30 0322 00:51	RW
Barium, Total	0.8211	mg/l	0.0002	1 6020	0317 12:30 0322 00:51	RW
Beryllium, Total	0.0011	mg/l	0.0005	1 6020	0317 12:30 0322 00:51	RW
Cadmium, Total	0.0006	mg/l	0.0004	1 6020	0317 12:30 0322 00:51	RW
Calcium, Total	584.	mg/l	2.00	1 6020	0317 12:30 0321 18:55	RW
Chromium, Total	0.0240	mg/l	0.0002	1 6020	0317 12:30 0322 00:51	RW
Cobalt, Total	0.0109	mg/l	0.0001	1 6020	0317 12:30 0322 00:51	RW
Copper, Total	0.0219	mg/l	0.0005	1 6020	0317 12:30 0322 00:51	RW
Iron, Total	23.8	mg/l	0.010	1 6020	0317 12:30 0322 00:51	RW
Lead, Total	0.0236	mg/l	0.0002	1 6020	0317 12:30 0322 00:51	RW
Magnesium, Total	56.0	mg/l	0.010	1 6020	0317 12:30 0322 00:51	RW
Manganese, Total	1.155	mg/l	0.0002	1 6020	0317 12:30 0322 00:51	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0318 17:20 0321 12:16	DM
Nickel, Total	0.0250	mg/l	0.0005	1 6020	0317 12:30 0322 00:51	RW
Potassium, Total	37.6	mg/l	0.100	1 6020	0317 12:30 0322 00:51	RW
Selenium, Total	0.008	mg/l	0.001	1 6020	0317 12:30 0322 00:51	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0317 12:30 0322 00:51	RW
Sodium, Total	418.	mg/l	1.00	1 6020	0317 12:30 0321 18:55	RW
Thallium, Total	0.0002	mg/l	0.0001	1 6020	0317 12:30 0322 00:51	RW
Vanadium, Total	0.0268	mg/l	0.0002	1 6020	0317 12:30 0322 00:51	RW
Zinc, Total	0.0798	mg/l	0.0050	1 6020	0317 12:30 0322 00:51	RW
<b>Dissolved Metals</b>						
Aluminum, Dissolved	ND	mg/l	0.010	1 6020	0317 12:30 0321 20:35	RW
Antimony, Dissolved	0.0022	mg/l	0.0002	1 6020	0317 12:30 0321 20:35	RW
Arsenic, Dissolved	0.0010	mg/l	0.0004	1 6020	0317 12:30 0321 20:35	RW
Barium, Dissolved	0.6809	mg/l	0.0002	1 6020	0317 12:30 0321 20:35	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30 0321 20:35	RW
Cadmium, Dissolved	0.0007	mg/l	0.0004	1 6020	0317 12:30 0321 20:35	RW
Calcium, Dissolved	582.	mg/l	2.00	1 6020	0317 12:30 0321 17:15	RW
Chromium, Dissolved	0.0002	mg/l	0.0002	1 6020	0317 12:30 0321 20:35	RW
Cobalt, Dissolved	0.0017	mg/l	0.0001	1 6020	0317 12:30 0321 20:35	RW
Copper, Dissolved	0.0020	mg/l	0.0005	1 6020	0317 12:30 0321 20:35	RW
Iron, Dissolved	1.84	mg/l	0.010	1 6020	0317 12:30 0321 20:35	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-07  
 MW/CB-21 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 20:35	RW
Magnesium, Dissolved	55.3	mg/l	0.010	1 6020	0317 12:30	0321 20:35	RW
Manganese, Dissolved	0.9874	mg/l	0.0002	1 6020	0317 12:30	0321 20:35	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 12:57	DM
Nickel, Dissolved	0.0062	mg/l	0.0005	1 6020	0317 12:30	0321 20:35	RW
Potassium, Dissolved	40.0	mg/l	0.100	1 6020	0317 12:30	0321 20:35	RW
Selenium, Dissolved	0.005	mg/l	0.001	1 6020	0317 12:30	0321 20:35	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 20:35	RW
Sodium, Dissolved	405.	mg/l	1.00	1 6020	0317 12:30	0321 17:15	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 20:35	RW
Vanadium, Dissolved	0.0004	mg/l	0.0002	1 6020	0317 12:30	0321 20:35	RW
Zinc, Dissolved	0.0139	mg/l	0.0050	1 6020	0317 12:30	0321 20:35	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 16:17 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	3.3	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-07  
 MW/CB-21 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	16:17 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%					
Toluene-d8	99.0	%					
4-Bromofluorobenzene	104.	%					
Dibromofluoromethane	101.	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0319 23:49 HL
Acenaphthene	ND	ug/l	5.4				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-07  
 MW/CB-21 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 23:49	HL
Benzidine	ND	ug/l	54.				
1,2,4-Trichlorobenzene	ND	ug/l	5.4				
Hexachlorobenzene	ND	ug/l	5.4				
Bis(2-chloroethyl)ether	ND	ug/l	5.4				
1-Chloronaphthalene	ND	ug/l	5.4				
2-Chloronaphthalene	ND	ug/l	6.4				
1,2-Dichlorobenzene	ND	ug/l	5.4				
1,3-Dichlorobenzene	ND	ug/l	5.4				
1,4-Dichlorobenzene	ND	ug/l	5.4				
3,3'-Dichlorobenzidine	ND	ug/l	54.				
2,4-Dinitrotoluene	ND	ug/l	6.4				
2,6-Dinitrotoluene	ND	ug/l	5.4				
Azobenzene	ND	ug/l	5.4				
Fluoranthene	ND	ug/l	5.4				
4-Chlorophenyl phenyl ether	ND	ug/l	5.4				
4-Bromophenyl phenyl ether	ND	ug/l	5.4				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.4				
Bis(2-chloroethoxy)methane	ND	ug/l	5.4				
Hexachlorobutadiene	ND	ug/l	11.				
Hexachlorocyclopentadiene	ND	ug/l	11.				
Hexachloroethane	ND	ug/l	5.4				
Isophorone	ND	ug/l	5.4				
Naphthalene	ND	ug/l	5.4				
Nitrobenzene	ND	ug/l	5.4				
NDPA/DPA	ND	ug/l	16.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.4				
Bis(2-ethylhexyl)phthalate	ND	ug/l	11.				
Butyl benzyl phthalate	ND	ug/l	5.4				
Di-n-butylphthalate	ND	ug/l	5.4				
Di-n-octylphthalate	ND	ug/l	5.4				
Diethyl phthalate	ND	ug/l	5.4				
Dimethyl phthalate	ND	ug/l	5.4				
Benzo(a)anthracene	ND	ug/l	5.4				
Benzo(a)pyrene	ND	ug/l	5.4				
Benzo(b)fluoranthene	ND	ug/l	5.4				
Benzo(k)fluoranthene	ND	ug/l	5.4				
Chrysene	ND	ug/l	5.4				
Acenaphthylene	ND	ug/l	5.4				
Anthracene	ND	ug/l	5.4				
Benzo(ghi)perylene	ND	ug/l	5.4				
Fluorene	ND	ug/l	5.4				
Phenanthrene	ND	ug/l	5.4				
Dibenzo(a,h)anthracene	ND	ug/l	5.4				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.5				
Pyrene	ND	ug/l	5.4				
Benzo(e)pyrene	ND	ug/l	5.4				
Biphenyl	ND	ug/l	5.4				
Perylene	ND	ug/l	5.4				
Aniline	ND	ug/l	11.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-07  
 MW/CB-21 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0319 23:49 HL
4-Chloroaniline	ND	ug/l	5.4				
1-Methylnaphthalene	ND	ug/l	5.4				
2-Nitroaniline	ND	ug/l	5.4				
3-Nitroaniline	ND	ug/l	5.4				
4-Nitroaniline	ND	ug/l	7.5				
Dibenzofuran	ND	ug/l	5.4				
a,a-Dimethylphenethylamine	ND	ug/l	54.				
Hexachloropropene	ND	ug/l	11.				
Nitrosodi-n-butylamine	ND	ug/l	11.				
2-Methylnaphthalene	ND	ug/l	8.6				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	22.				
Pentachlorobenzene	ND	ug/l	22.				
a-Naphthylamine	ND	ug/l	22.				
b-Naphthylamine	ND	ug/l	22.				
Phenacetin	ND	ug/l	11.				
Dimethoate	ND	ug/l	22.				
4-Aminobiphenyl	ND	ug/l	11.				
Pentachloronitrobenzene	ND	ug/l	11.				
Isodrin	ND	ug/l	11.				
p-Dimethylaminoazobenzene	ND	ug/l	11.				
Chlorobenzilate	ND	ug/l	22.				
3-Methylcholanthrene	ND	ug/l	22.				
Ethyl Methanesulfonate	ND	ug/l	16.				
Acetophenone	ND	ug/l	22.				
Nitrosodipiperidine	ND	ug/l	22.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	11.				
n-Nitrosodimethylamine	ND	ug/l	54.				
2,4,6-Trichlorophenol	ND	ug/l	5.4				
p-Chloro-m-cresol	ND	ug/l	5.4				
2-Chlorophenol	ND	ug/l	6.4				
2,4-Dichlorophenol	ND	ug/l	11.				
2,4-Dimethylphenol	ND	ug/l	11.				
2-Nitrophenol	ND	ug/l	22.				
4-Nitrophenol	ND	ug/l	11.				
2,4-Dinitrophenol	ND	ug/l	22.				
4,6-Dinitro-o-cresol	ND	ug/l	22.				
Pentachlorophenol	ND	ug/l	22.				
Phenol	ND	ug/l	7.5				
2-Methylphenol	ND	ug/l	6.4				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.4				
2,4,5-Trichlorophenol	ND	ug/l	5.4				
2,6-Dichlorophenol	ND	ug/l	11.				
Benzoic Acid	ND	ug/l	54.				
Benzyl Alcohol	ND	ug/l	11.				
Carbazole	ND	ug/l	5.4				
Pyridine	ND	ug/l	54.				
2-Picoline	ND	ug/l	22.				
Pronamide	ND	ug/l	22.				
Methyl methanesulfonate	ND	ug/l	22.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-07  
 MW/CB-21 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 23:49	HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	37.0	%					
Phenol-d6	32.0	%					
Nitrobenzene-d5	87.0	%					
2-Fluorobiphenyl	86.0	%					
2,4,6-Tribromophenol	111.	%					
4-Terphenyl-d14	92.0	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0317 09:40	0318 20:27	RL
Acenaphthene	ND	ug/l	0.22				
2-Chloronaphthalene	ND	ug/l	0.22				
Fluoranthene	ND	ug/l	0.22				
Hexachlorobutadiene	ND	ug/l	0.54				
Naphthalene	ND	ug/l	0.22				
Benzo(a)anthracene	ND	ug/l	0.22				
Benzo(a)pyrene	ND	ug/l	0.22				
Benzo(b)fluoranthene	ND	ug/l	0.22				
Benzo(k)fluoranthene	ND	ug/l	0.22				
Chrysene	ND	ug/l	0.22				
Acenaphthylene	ND	ug/l	0.22				
Anthracene	ND	ug/l	0.22				
Benzo(ghi)perylene	ND	ug/l	0.22				
Fluorene	ND	ug/l	0.22				
Phenanthrene	ND	ug/l	0.22				
Dibenzo(a,h)anthracene	ND	ug/l	0.22				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.22				
Pyrene	0.65	ug/l	0.22				
1-Methylnaphthalene	ND	ug/l	0.22				
2-Methylnaphthalene	ND	ug/l	0.22				
Pentachlorophenol	ND	ug/l	0.86				
Hexachlorobenzene	ND	ug/l	0.86				
Perylene	ND	ug/l	0.22				
Biphenyl	ND	ug/l	0.22				
2,6-Dimethylnaphthalene	ND	ug/l	0.22				
1-Methylphenanthrene	ND	ug/l	0.22				
Benzo(e)Pyrene	ND	ug/l	0.22				
Hexachloroethane	ND	ug/l	0.86				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	42.0	%		21-120			
Phenol-d6	34.0	%		10-120			
Nitrobenzene-d5	73.0	%		23-120			
2-Fluorobiphenyl	76.0	%		43-120			
2,4,6-Tribromophenol	81.0	%		10-120			
4-Terphenyl-d14	83.0	%		33-120			
Polychlorinated Biphenyls				1 8082	0317 13:00	0318 20:13	AK
Aroclor 1221	ND	ug/l	0.556				
Aroclor 1232	ND	ug/l	0.556				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-07  
 MW/CB-21 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0317 13:00	0318 20:13	AK
Aroclor 1242/1016	ND	ug/l	0.556				
Aroclor 1248	ND	ug/l	0.556				
Aroclor 1254	ND	ug/l	0.556				
Aroclor 1260	ND	ug/l	0.556				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	68.0	%	30-150				
Decachlorobiphenyl	50.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 13:52	AK
Delta-BHC	ND	ug/l	0.021				
Lindane	ND	ug/l	0.021				
Alpha-BHC	ND	ug/l	0.021				
Beta-BHC	ND	ug/l	0.021				
Heptachlor	ND	ug/l	0.021				
Aldrin	ND	ug/l	0.021				
Heptachlor epoxide	ND	ug/l	0.021				
Endrin	ND	ug/l	0.042				
Endrin aldehyde	ND	ug/l	0.042				
Endrin ketone	ND	ug/l	0.042				
Dieldrin	ND	ug/l	0.042				
4,4'-DDE	ND	ug/l	0.042				
4,4'-DDD	ND	ug/l	0.042				
4,4'-DDT	ND	ug/l	0.042				
Endosulfan I	ND	ug/l	0.021				
Endosulfan II	ND	ug/l	0.042				
Endosulfan sulfate	ND	ug/l	0.042				
Methoxychlor	ND	ug/l	0.210				
Toxaphene	ND	ug/l	0.210				
Chlordane	ND	ug/l	0.210				
cis-Chlordane	ND	ug/l	0.021				
trans-Chlordane	ND	ug/l	0.021				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	60.0	%	30-150				
Decachlorobiphenyl	51.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0502658-08	Date Collected:	16-MAR-2005 12:30
	MW/CB-7 (GROUNDWATER)	Date Received :	16-MAR-2005
Sample Matrix:	WATER	Date Reported :	24-MAR-2005
Condition of Sample:	Satisfactory	Field Prep:	Field Filtered
Number & Type of Containers:	6-Amber,2-Plastic,2-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	16.2	mg/l	0.100	1 6020	0317 12:30	0321 19:00	RW
Antimony, Total	ND	mg/l	0.0010	1 6020	0317 12:30	0322 01:21	RW
Arsenic, Total	0.0023	mg/l	0.0020	1 6020	0317 12:30	0322 01:21	RW
Barium, Total	1.462	mg/l	0.0010	1 6020	0317 12:30	0322 01:21	RW
Beryllium, Total	ND	mg/l	0.0025	1 6020	0317 12:30	0322 01:21	RW
Cadmium, Total	ND	mg/l	0.0020	1 6020	0317 12:30	0322 01:21	RW
Calcium, Total	889.	mg/l	2.00	1 6020	0317 12:30	0321 19:00	RW
Chromium, Total	0.0357	mg/l	0.0010	1 6020	0317 12:30	0322 01:21	RW
Cobalt, Total	0.0163	mg/l	0.0005	1 6020	0317 12:30	0322 01:21	RW
Copper, Total	0.0396	mg/l	0.0025	1 6020	0317 12:30	0322 01:21	RW
Iron, Total	27.9	mg/l	0.050	1 6020	0317 12:30	0322 01:21	RW
Lead, Total	0.0082	mg/l	0.0010	1 6020	0317 12:30	0322 01:21	RW
Magnesium, Total	28.0	mg/l	0.050	1 6020	0317 12:30	0322 01:21	RW
Manganese, Total	0.2738	mg/l	0.0010	1 6020	0317 12:30	0322 01:21	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0318 17:20	0321 12:18	DM
Nickel, Total	0.0353	mg/l	0.0025	1 6020	0317 12:30	0322 01:21	RW
Potassium, Total	76.3	mg/l	0.500	1 6020	0317 12:30	0322 01:21	RW
Selenium, Total	0.005	mg/l	0.005	1 6020	0317 12:30	0322 01:21	RW
Silver, Total	ND	mg/l	0.0005	1 6020	0317 12:30	0322 01:21	RW
Sodium, Total	7720	mg/l	10.0	1 6020	0317 12:30	0321 20:03	RW
Thallium, Total	ND	mg/l	0.0005	1 6020	0317 12:30	0322 01:21	RW
Vanadium, Total	0.0573	mg/l	0.0010	1 6020	0317 12:30	0322 01:21	RW
Zinc, Total	0.1396	mg/l	0.0250	1 6020	0317 12:30	0322 01:21	RW

<b>Dissolved Metals</b>							
Aluminum, Dissolved	ND	mg/l	0.050	1 6020	0317 12:30	0321 22:26	RW
Antimony, Dissolved	0.0018	mg/l	0.0010	1 6020	0317 12:30	0321 22:26	RW
Arsenic, Dissolved	0.0032	mg/l	0.0020	1 6020	0317 12:30	0321 22:26	RW
Barium, Dissolved	1.372	mg/l	0.0010	1 6020	0317 12:30	0321 22:26	RW
Beryllium, Dissolved	ND	mg/l	0.0025	1 6020	0317 12:30	0321 22:26	RW
Cadmium, Dissolved	ND	mg/l	0.0020	1 6020	0317 12:30	0321 22:26	RW
Calcium, Dissolved	932.	mg/l	2.00	1 6020	0317 12:30	0321 17:20	RW
Chromium, Dissolved	0.0018	mg/l	0.0010	1 6020	0317 12:30	0321 22:26	RW
Cobalt, Dissolved	0.0013	mg/l	0.0005	1 6020	0317 12:30	0321 22:26	RW
Copper, Dissolved	0.0223	mg/l	0.0025	1 6020	0317 12:30	0321 22:26	RW
Iron, Dissolved	3.69	mg/l	0.050	1 6020	0317 12:30	0321 22:26	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-08  
 MW/CB-7 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	ND	mg/l	0.0010	1 6020	0317 12:30	0321 22:26	RW
Magnesium, Dissolved	16.9	mg/l	0.050	1 6020	0317 12:30	0321 22:26	RW
Manganese, Dissolved	0.0069	mg/l	0.0010	1 6020	0317 12:30	0321 22:26	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 12:59	DM
Nickel, Dissolved	0.0124	mg/l	0.0025	1 6020	0317 12:30	0321 22:26	RW
Potassium, Dissolved	71.1	mg/l	0.500	1 6020	0317 12:30	0321 22:26	RW
Selenium, Dissolved	ND	mg/l	0.005	1 6020	0317 12:30	0321 22:26	RW
Silver, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30	0321 22:26	RW
Sodium, Dissolved	8440	mg/l	10.0	1 6020	0317 12:30	0321 19:32	RW
Thallium, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30	0321 22:26	RW
Vanadium, Dissolved	0.0240	mg/l	0.0010	1 6020	0317 12:30	0321 22:26	RW
Zinc, Dissolved	ND	mg/l	0.0250	1 6020	0317 12:30	0321 22:26	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 16:53 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	0.55	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	0.80	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-08  
MW/CB-7 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	16:53 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	7.5	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	107.	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	99.0	%					
Dibromofluoromethane	103.	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0320 00:14 HL
Acenaphthene	ND	ug/l	6.8				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-08  
 MW/CB-7 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0320 00:14	HL
Benzidine	ND	ug/l	68.				
1,2,4-Trichlorobenzene	ND	ug/l	6.8				
Hexachlorobenzene	ND	ug/l	6.8				
Bis(2-chloroethyl)ether	ND	ug/l	6.8				
1-Chloronaphthalene	ND	ug/l	6.8				
2-Chloronaphthalene	ND	ug/l	8.2				
1,2-Dichlorobenzene	ND	ug/l	6.8				
1,3-Dichlorobenzene	ND	ug/l	6.8				
1,4-Dichlorobenzene	ND	ug/l	6.8				
3,3'-Dichlorobenzidine	ND	ug/l	68.				
2,4-Dinitrotoluene	ND	ug/l	8.2				
2,6-Dinitrotoluene	ND	ug/l	6.8				
Azobenzene	ND	ug/l	6.8				
Fluoranthene	ND	ug/l	6.8				
4-Chlorophenyl phenyl ether	ND	ug/l	6.8				
4-Bromophenyl phenyl ether	ND	ug/l	6.8				
Bis(2-chloroisopropyl)ether	ND	ug/l	6.8				
Bis(2-chloroethoxy)methane	ND	ug/l	6.8				
Hexachlorobutadiene	ND	ug/l	14.				
Hexachlorocyclopentadiene	ND	ug/l	14.				
Hexachloroethane	ND	ug/l	6.8				
Isophorone	ND	ug/l	6.8				
Naphthalene	ND	ug/l	6.8				
Nitrobenzene	ND	ug/l	6.8				
NDPA/DPA	ND	ug/l	20.				
n-Nitrosodi-n-propylamine	ND	ug/l	6.8				
Bis(2-ethylhexyl)phthalate	ND	ug/l	14.				
Butyl benzyl phthalate	ND	ug/l	6.8				
Di-n-butylphthalate	ND	ug/l	6.8				
Di-n-octylphthalate	ND	ug/l	6.8				
Diethyl phthalate	ND	ug/l	6.8				
Dimethyl phthalate	ND	ug/l	6.8				
Benzo(a)anthracene	ND	ug/l	6.8				
Benzo(a)pyrene	ND	ug/l	6.8				
Benzo(b)fluoranthene	ND	ug/l	6.8				
Benzo(k)fluoranthene	ND	ug/l	6.8				
Chrysene	ND	ug/l	6.8				
Acenaphthylene	ND	ug/l	6.8				
Anthracene	ND	ug/l	6.8				
Benzo(ghi)perylene	ND	ug/l	6.8				
Fluorene	ND	ug/l	6.8				
Phenanthrene	ND	ug/l	6.8				
Dibenzo(a,h)anthracene	ND	ug/l	6.8				
Indeno(1,2,3-cd)pyrene	ND	ug/l	9.6				
Pyrene	12.	ug/l	6.8				
Benzo(e)pyrene	ND	ug/l	6.8				
Biphenyl	ND	ug/l	6.8				
Perylene	ND	ug/l	6.8				
Aniline	ND	ug/l	14.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-08  
 MW/CB-7 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0320 00:14 HL
4-Chloroaniline	ND	ug/l	6.8				
1-Methylnaphthalene	ND	ug/l	6.8				
2-Nitroaniline	ND	ug/l	6.8				
3-Nitroaniline	ND	ug/l	6.8				
4-Nitroaniline	ND	ug/l	9.6				
Dibenzofuran	ND	ug/l	6.8				
a,a-Dimethylphenethylamine	ND	ug/l	68.				
Hexachloropropene	ND	ug/l	14.				
Nitrosodi-n-butylamine	ND	ug/l	14.				
2-Methylnaphthalene	ND	ug/l	11.				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	27.				
Pentachlorobenzene	ND	ug/l	27.				
a-Naphthylamine	ND	ug/l	27.				
b-Naphthylamine	ND	ug/l	27.				
Phenacetin	ND	ug/l	14.				
Dimethoate	ND	ug/l	27.				
4-Aminobiphenyl	ND	ug/l	14.				
Pentachloronitrobenzene	ND	ug/l	14.				
Isodrin	ND	ug/l	14.				
p-Dimethylaminoazobenzene	ND	ug/l	14.				
Chlorobenzilate	ND	ug/l	27.				
3-Methylcholanthrene	ND	ug/l	27.				
Ethyl Methanesulfonate	ND	ug/l	20.				
Acetophenone	ND	ug/l	27.				
Nitrosodipiperidine	ND	ug/l	27.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	14.				
n-Nitrosodimethylamine	ND	ug/l	68.				
2,4,6-Trichlorophenol	ND	ug/l	6.8				
p-Chloro-m-cresol	ND	ug/l	6.8				
2-Chlorophenol	ND	ug/l	8.2				
2,4-Dichlorophenol	ND	ug/l	14.				
2,4-Dimethylphenol	ND	ug/l	14.				
2-Nitrophenol	ND	ug/l	27.				
4-Nitrophenol	ND	ug/l	14.				
2,4-Dinitrophenol	ND	ug/l	27.				
4,6-Dinitro-o-cresol	ND	ug/l	27.				
Pentachlorophenol	ND	ug/l	27.				
Phenol	ND	ug/l	9.6				
2-Methylphenol	ND	ug/l	8.2				
3-Methylphenol/4-Methylphenol	ND	ug/l	8.2				
2,4,5-Trichlorophenol	ND	ug/l	6.8				
2,6-Dichlorophenol	ND	ug/l	14.				
Benzoic Acid	ND	ug/l	68.				
Benzyl Alcohol	ND	ug/l	14.				
Carbazole	ND	ug/l	6.8				
Pyridine	ND	ug/l	68.				
2-Picoline	ND	ug/l	27.				
Pronamide	ND	ug/l	27.				
Methyl methanesulfonate	ND	ug/l	27.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-08  
 MW/CB-7 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0320 00:14 HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	43.0	%					
Phenol-d6	40.0	%					
Nitrobenzene-d5	80.0	%					
2-Fluorobiphenyl	76.0	%					
2,4,6-Tribromophenol	100.	%					
4-Terphenyl-d14	91.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0317 09:40	0318 21:13 RL
Acenaphthene	ND	ug/l	0.27				
2-Chloronaphthalene	ND	ug/l	0.27				
Fluoranthene	7.7	ug/l	0.27				
Hexachlorobutadiene	ND	ug/l	0.68				
Naphthalene	ND	ug/l	0.27				
Benzo(a)anthracene	ND	ug/l	0.27				
Benzo(a)pyrene	ND	ug/l	0.27				
Benzo(b)fluoranthene	ND	ug/l	0.27				
Benzo(k)fluoranthene	ND	ug/l	0.27				
Chrysene	ND	ug/l	0.27				
Acenaphthylene	ND	ug/l	0.27				
Anthracene	ND	ug/l	0.27				
Benzo(ghi)perylene	ND	ug/l	0.27				
Fluorene	ND	ug/l	0.27				
Phenanthrene	1.4	ug/l	0.27				
Dibenzo(a,h)anthracene	ND	ug/l	0.27				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.27				
Pyrene	14.	ug/l	0.27				
1-Methylnaphthalene	ND	ug/l	0.27				
2-Methylnaphthalene	ND	ug/l	0.27				
Pentachlorophenol	ND	ug/l	1.1				
Hexachlorobenzene	ND	ug/l	1.1				
Perylene	ND	ug/l	0.27				
Biphenyl	ND	ug/l	0.27				
2,6-Dimethylnaphthalene	ND	ug/l	0.27				
1-Methylphenanthrene	ND	ug/l	0.27				
Benzo(e)Pyrene	ND	ug/l	0.27				
Hexachloroethane	ND	ug/l	1.1				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	46.0	%		21-120			
Phenol-d6	41.0	%		10-120			
Nitrobenzene-d5	66.0	%		23-120			
2-Fluorobiphenyl	65.0	%		43-120			
2,4,6-Tribromophenol	73.0	%		10-120			
4-Terphenyl-d14	76.0	%		33-120			
Polychlorinated Biphenyls				1	8082	0317 13:00	0318 20:41 AK
Aroclor 1221	ND	ug/l	0.685				
Aroclor 1232	ND	ug/l	0.685				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-08  
 MW/CB-7 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0317 13:00	0318 20:41	AK
Aroclor 1242/1016	ND	ug/l	0.685				
Aroclor 1248	ND	ug/l	0.685				
Aroclor 1254	ND	ug/l	0.685				
Aroclor 1260	ND	ug/l	0.685				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	26.0	%	30-150				
Decachlorobiphenyl	28.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 18:15	AK
Delta-BHC	ND	ug/l	0.030				
Lindane	ND	ug/l	0.030				
Alpha-BHC	ND	ug/l	0.030				
Beta-BHC	ND	ug/l	0.030				
Heptachlor	ND	ug/l	0.030				
Aldrin	ND	ug/l	0.030				
Heptachlor epoxide	ND	ug/l	0.030				
Endrin	ND	ug/l	0.061				
Endrin aldehyde	ND	ug/l	0.061				
Endrin ketone	ND	ug/l	0.061				
Dieldrin	ND	ug/l	0.061				
4,4'-DDE	ND	ug/l	0.061				
4,4'-DDD	ND	ug/l	0.061				
4,4'-DDT	ND	ug/l	0.061				
Endosulfan I	ND	ug/l	0.030				
Endosulfan II	ND	ug/l	0.061				
Endosulfan sulfate	ND	ug/l	0.061				
Methoxychlor	ND	ug/l	0.303				
Toxaphene	ND	ug/l	0.303				
Chlordane	ND	ug/l	0.303				
cis-Chlordane	ND	ug/l	0.030				
trans-Chlordane	ND	ug/l	0.030				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	34.0	%	30-150				
Decachlorobiphenyl	21.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-09  
 MW/CB-13 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	ND	mg/l	0.0004	1 6020	0317 12:30	0321 22:05	RW
Magnesium, Dissolved	48.6	mg/l	0.020	1 6020	0317 12:30	0321 22:05	RW
Manganese, Dissolved	1.758	mg/l	0.0004	1 6020	0317 12:30	0321 22:05	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 13:01	DM
Nickel, Dissolved	0.0100	mg/l	0.0010	1 6020	0317 12:30	0321 22:05	RW
Potassium, Dissolved	82.8	mg/l	0.200	1 6020	0317 12:30	0321 22:05	RW
Selenium, Dissolved	0.006	mg/l	0.002	1 6020	0317 12:30	0321 22:05	RW
Silver, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 22:05	RW
Sodium, Dissolved	6500	mg/l	10.0	1 6020	0317 12:30	0321 19:52	RW
Thallium, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 22:05	RW
Vanadium, Dissolved	0.0007	mg/l	0.0004	1 6020	0317 12:30	0321 22:05	RW
Zinc, Dissolved	0.0157	mg/l	0.0100	1 6020	0317 12:30	0321 22:05	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 17:29 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	0.74	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	4.0	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-09  
 MW/CB-13 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	17:29 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	107.	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	102.	%					
Dibromofluoromethane	106.	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0320 00:40 HL
Acenaphthene	ND	ug/l	5.6				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-09  
 MW/CB-13 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0320 00:40	HL
Benzidine	ND	ug/l	56.				
1,2,4-Trichlorobenzene	ND	ug/l	5.6				
Hexachlorobenzene	ND	ug/l	5.6				
Bis(2-chloroethyl)ether	ND	ug/l	5.6				
1-Chloronaphthalene	ND	ug/l	5.6				
2-Chloronaphthalene	ND	ug/l	6.7				
1,2-Dichlorobenzene	ND	ug/l	5.6				
1,3-Dichlorobenzene	ND	ug/l	5.6				
1,4-Dichlorobenzene	ND	ug/l	5.6				
3,3'-Dichlorobenzidine	ND	ug/l	56.				
2,4-Dinitrotoluene	ND	ug/l	6.7				
2,6-Dinitrotoluene	ND	ug/l	5.6				
Azobenzene	ND	ug/l	5.6				
Fluoranthene	ND	ug/l	5.6				
4-Chlorophenyl phenyl ether	ND	ug/l	5.6				
4-Bromophenyl phenyl ether	ND	ug/l	5.6				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.6				
Bis(2-chloroethoxy)methane	ND	ug/l	5.6				
Hexachlorobutadiene	ND	ug/l	11.				
Hexachlorocyclopentadiene	ND	ug/l	11.				
Hexachloroethane	ND	ug/l	5.6				
Isophorone	ND	ug/l	5.6				
Naphthalene	ND	ug/l	5.6				
Nitrobenzene	ND	ug/l	5.6				
NDPA/DPA	ND	ug/l	17.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.6				
Bis(2-ethylhexyl)phthalate	ND	ug/l	11.				
Butyl benzyl phthalate	ND	ug/l	5.6				
Di-n-butylphthalate	ND	ug/l	5.6				
Di-n-octylphthalate	ND	ug/l	5.6				
Diethyl phthalate	ND	ug/l	5.6				
Dimethyl phthalate	ND	ug/l	5.6				
Benzo(a)anthracene	ND	ug/l	5.6				
Benzo(a)pyrene	ND	ug/l	5.6				
Benzo(b)fluoranthene	ND	ug/l	5.6				
Benzo(k)fluoranthene	ND	ug/l	5.6				
Chrysene	ND	ug/l	5.6				
Acenaphthylene	ND	ug/l	5.6				
Anthracene	ND	ug/l	5.6				
Benzo(ghi)perylene	ND	ug/l	5.6				
Fluorene	ND	ug/l	5.6				
Phenanthrene	ND	ug/l	5.6				
Dibenzo(a,h)anthracene	ND	ug/l	5.6				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.9				
Pyrene	6.2	ug/l	5.6				
Benzo(e)pyrene	ND	ug/l	5.6				
Biphenyl	ND	ug/l	5.6				
Perylene	ND	ug/l	5.6				
Aniline	ND	ug/l	11.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-09  
 MW/CB-13 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0320 00:40	HL
4-Chloroaniline	ND	ug/l	5.6				
1-Methylnaphthalene	ND	ug/l	5.6				
2-Nitroaniline	ND	ug/l	5.6				
3-Nitroaniline	ND	ug/l	5.6				
4-Nitroaniline	ND	ug/l	7.9				
Dibenzofuran	ND	ug/l	5.6				
a,a-Dimethylphenethylamine	ND	ug/l	56.				
Hexachloropropene	ND	ug/l	11.				
Nitrosodi-n-butylamine	ND	ug/l	11.				
2-Methylnaphthalene	ND	ug/l	9.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	22.				
Pentachlorobenzene	ND	ug/l	22.				
a-Naphthylamine	ND	ug/l	22.				
b-Naphthylamine	ND	ug/l	22.				
Phenacetin	ND	ug/l	11.				
Dimethoate	ND	ug/l	22.				
4-Aminobiphenyl	ND	ug/l	11.				
Pentachloronitrobenzene	ND	ug/l	11.				
Isodrin	ND	ug/l	11.				
p-Dimethylaminoazobenzene	ND	ug/l	11.				
Chlorobenzilate	ND	ug/l	22.				
3-Methylcholanthrene	ND	ug/l	22.				
Ethyl Methanesulfonate	ND	ug/l	17.				
Acetophenone	ND	ug/l	22.				
Nitrosodipiperidine	ND	ug/l	22.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	11.				
n-Nitrosodimethylamine	ND	ug/l	56.				
2,4,6-Trichlorophenol	ND	ug/l	5.6				
p-Chloro-m-cresol	ND	ug/l	5.6				
2-Chlorophenol	ND	ug/l	6.7				
2,4-Dichlorophenol	ND	ug/l	11.				
2,4-Dimethylphenol	ND	ug/l	11.				
2-Nitrophenol	ND	ug/l	22.				
4-Nitrophenol	ND	ug/l	11.				
2,4-Dinitrophenol	ND	ug/l	22.				
4,6-Dinitro-o-cresol	ND	ug/l	22.				
Pentachlorophenol	ND	ug/l	22.				
Phenol	ND	ug/l	7.9				
2-Methylphenol	ND	ug/l	6.7				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.7				
2,4,5-Trichlorophenol	ND	ug/l	5.6				
2,6-Dichlorophenol	ND	ug/l	11.				
Benzoic Acid	ND	ug/l	56.				
Benzyl Alcohol	ND	ug/l	11.				
Carbazole	ND	ug/l	5.6				
Pyridine	ND	ug/l	56.				
2-Picoline	ND	ug/l	22.				
Pronamide	ND	ug/l	22.				
Methyl methanesulfonate	ND	ug/l	22.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-09  
 MW/CB-13 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0320 00:40 HL
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	43.0	%					
Phenol-d6	34.0	%					
Nitrobenzene-d5	87.0	%					
2-Fluorobiphenyl	83.0	%					
2,4,6-Tribromophenol	114.	%					
4-Terphenyl-d14	90.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0317 09:40	0318 21:58 RL
Acenaphthene	ND	ug/l	0.22				
2-Chloronaphthalene	ND	ug/l	0.22				
Fluoranthene	4.1	ug/l	0.22				
Hexachlorobutadiene	ND	ug/l	0.56				
Naphthalene	ND	ug/l	0.22				
Benzo(a)anthracene	ND	ug/l	0.22				
Benzo(a)pyrene	ND	ug/l	0.22				
Benzo(b)fluoranthene	ND	ug/l	0.22				
Benzo(k)fluoranthene	ND	ug/l	0.22				
Chrysene	ND	ug/l	0.22				
Acenaphthylene	ND	ug/l	0.22				
Anthracene	ND	ug/l	0.22				
Benzo(ghi)perylene	ND	ug/l	0.22				
Fluorene	ND	ug/l	0.22				
Phenanthrene	0.67	ug/l	0.22				
Dibenzo(a,h)anthracene	ND	ug/l	0.22				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.22				
Pyrene	8.1	ug/l	0.22				
1-Methylnaphthalene	ND	ug/l	0.22				
2-Methylnaphthalene	ND	ug/l	0.22				
Pentachlorophenol	ND	ug/l	0.90				
Hexachlorobenzene	ND	ug/l	0.90				
Perylene	ND	ug/l	0.22				
Biphenyl	ND	ug/l	0.22				
2,6-Dimethylnaphthalene	ND	ug/l	0.22				
1-Methylphenanthrene	ND	ug/l	0.22				
Benzo(e)Pyrene	ND	ug/l	0.22				
Hexachloroethane	ND	ug/l	0.90				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	45.0	%	21-120				
Phenol-d6	36.0	%	10-120				
Nitrobenzene-d5	72.0	%	23-120				
2-Fluorobiphenyl	71.0	%	43-120				
2,4,6-Tribromophenol	82.0	%	10-120				
4-Terphenyl-d14	81.0	%	33-120				
Polychlorinated Biphenyls				1	8082	0321 17:00	0322 15:59 AK
Aroclor 1221	ND	ug/l	0.556				
Aroclor 1232	ND	ug/l	0.556				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-09  
 MW/CB-13 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0321 17:00	0322 15:59	AK
Aroclor 1242/1016	ND	ug/l	0.556				
Aroclor 1248	ND	ug/l	0.556				
Aroclor 1254	ND	ug/l	0.556				
Aroclor 1260	ND	ug/l	0.556				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	68.0	%	30-150				
Decachlorobiphenyl	38.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 18:43	AK
Delta-BHC	ND	ug/l	0.025				
Lindane	ND	ug/l	0.025				
Alpha-BHC	ND	ug/l	0.025				
Beta-BHC	ND	ug/l	0.025				
Heptachlor	ND	ug/l	0.025				
Aldrin	ND	ug/l	0.025				
Heptachlor epoxide	ND	ug/l	0.025				
Endrin	ND	ug/l	0.049				
Endrin aldehyde	ND	ug/l	0.049				
Endrin ketone	ND	ug/l	0.049				
Dieldrin	ND	ug/l	0.049				
4,4'-DDE	ND	ug/l	0.049				
4,4'-DDD	ND	ug/l	0.049				
4,4'-DDT	ND	ug/l	0.049				
Endosulfan I	ND	ug/l	0.025				
Endosulfan II	ND	ug/l	0.049				
Endosulfan sulfate	ND	ug/l	0.049				
Methoxychlor	ND	ug/l	0.247				
Toxaphene	ND	ug/l	0.247				
Chlordane	ND	ug/l	0.247				
cis-Chlordane	ND	ug/l	0.025				
trans-Chlordane	ND	ug/l	0.025				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	70.0	%	30-150				
Decachlorobiphenyl	34.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

**Laboratory Sample Number:** L0502658-10 **Date Collected:** 16-MAR-2005 13:45  
**Date Received :** 16-MAR-2005  
**Sample Matrix:** MW/CB-16 (GROUNDWATER) **Date Reported :** 24-MAR-2005  
 WATER  
**Condition of Sample:** Satisfactory **Field Prep:** Field Filtered  
**Number & Type of Containers:** 6-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	18.9	mg/l	0.100	1 6020	0317 12:30	0321 19:21	RW
Antimony, Total	0.0003	mg/l	0.0002	1 6020	0317 12:30	0322 02:51	RW
Arsenic, Total	0.0049	mg/l	0.0004	1 6020	0317 12:30	0322 02:51	RW
Barium, Total	0.3400	mg/l	0.0002	1 6020	0317 12:30	0322 02:51	RW
Beryllium, Total	0.0015	mg/l	0.0005	1 6020	0317 12:30	0322 02:51	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0317 12:30	0322 02:51	RW
Calcium, Total	156.	mg/l	2.00	1 6020	0317 12:30	0321 19:21	RW
Chromium, Total	0.0236	mg/l	0.0002	1 6020	0317 12:30	0322 02:51	RW
Cobalt, Total	0.0146	mg/l	0.0001	1 6020	0317 12:30	0322 02:51	RW
Copper, Total	0.0341	mg/l	0.0005	1 6020	0317 12:30	0322 02:51	RW
Iron, Total	23.2	mg/l	0.010	1 6020	0317 12:30	0322 02:51	RW
Lead, Total	0.0192	mg/l	0.0002	1 6020	0317 12:30	0322 02:51	RW
Magnesium, Total	38.7	mg/l	0.010	1 6020	0317 12:30	0322 02:51	RW
Manganese, Total	1.988	mg/l	0.0002	1 6020	0317 12:30	0322 02:51	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0318 17:20	0321 12:21	DM
Nickel, Total	0.0357	mg/l	0.0005	1 6020	0317 12:30	0322 02:51	RW
Potassium, Total	15.0	mg/l	0.100	1 6020	0317 12:30	0322 02:51	RW
Selenium, Total	0.009	mg/l	0.001	1 6020	0317 12:30	0322 02:51	RW
Silver, Total	0.0003	mg/l	0.0001	1 6020	0317 12:30	0322 02:51	RW
Sodium, Total	19.5	mg/l	1.00	1 6020	0317 12:30	0321 19:21	RW
Thallium, Total	0.0004	mg/l	0.0001	1 6020	0317 12:30	0322 02:51	RW
Vanadium, Total	0.0308	mg/l	0.0002	1 6020	0317 12:30	0322 02:51	RW
Zinc, Total	0.0917	mg/l	0.0050	1 6020	0317 12:30	0322 02:51	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.041	mg/l	0.020	1 6020	0317 12:30	0321 23:08	RW
Antimony, Dissolved	0.0024	mg/l	0.0004	1 6020	0317 12:30	0321 23:08	RW
Arsenic, Dissolved	0.0010	mg/l	0.0008	1 6020	0317 12:30	0321 23:08	RW
Barium, Dissolved	0.6130	mg/l	0.0004	1 6020	0317 12:30	0321 23:08	RW
Beryllium, Dissolved	ND	mg/l	0.0010	1 6020	0317 12:30	0321 23:08	RW
Cadmium, Dissolved	0.0017	mg/l	0.0008	1 6020	0317 12:30	0321 23:08	RW
Calcium, Dissolved	400.	mg/l	2.00	1 6020	0317 12:30	0321 17:46	RW
Chromium, Dissolved	0.0004	mg/l	0.0004	1 6020	0317 12:30	0321 23:08	RW
Cobalt, Dissolved	0.0020	mg/l	0.0002	1 6020	0317 12:30	0321 23:08	RW
Copper, Dissolved	0.0048	mg/l	0.0010	1 6020	0317 12:30	0321 23:08	RW
Iron, Dissolved	1.72	mg/l	0.020	1 6020	0317 12:30	0321 23:08	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-10  
 MW/CB-16 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0005	mg/l	0.0004	1 6020	0317 12:30	0321 23:08	RW
Magnesium, Dissolved	36.8	mg/l	0.020	1 6020	0317 12:30	0321 23:08	RW
Manganese, Dissolved	1.501	mg/l	0.0004	1 6020	0317 12:30	0321 23:08	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 13:03	DM
Nickel, Dissolved	0.0072	mg/l	0.0010	1 6020	0317 12:30	0321 23:08	RW
Potassium, Dissolved	55.0	mg/l	0.200	1 6020	0317 12:30	0321 23:08	RW
Selenium, Dissolved	0.004	mg/l	0.002	1 6020	0317 12:30	0321 23:08	RW
Silver, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 23:08	RW
Sodium, Dissolved	3640	mg/l	10.0	1 6020	0317 12:30	0321 19:58	RW
Thallium, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 23:08	RW
Vanadium, Dissolved	0.0040	mg/l	0.0004	1 6020	0317 12:30	0321 23:08	RW
Zinc, Dissolved	0.0169	mg/l	0.0100	1 6020	0317 12:30	0321 23:08	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 18:05 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	7.7	ug/l	1.0				
p/m-Xylene	1.2	ug/l	0.50				
o-Xylene	1.4	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-10  
 MW/CB-16 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	18:05 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	1.0	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	2.7	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	104.	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	103.	%					
Dibromofluoromethane	102.	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0320 01:05 HL
Acenaphthene	ND	ug/l	6.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-10  
 MW/CB-16 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0320 01:05	HL
Benzidine	ND	ug/l	60.				
1,2,4-Trichlorobenzene	ND	ug/l	6.0				
Hexachlorobenzene	ND	ug/l	6.0				
Bis(2-chloroethyl)ether	ND	ug/l	6.0				
1-Chloronaphthalene	ND	ug/l	6.0				
2-Chloronaphthalene	ND	ug/l	7.1				
1,2-Dichlorobenzene	ND	ug/l	6.0				
1,3-Dichlorobenzene	ND	ug/l	6.0				
1,4-Dichlorobenzene	ND	ug/l	6.0				
3,3'-Dichlorobenzidine	ND	ug/l	60.				
2,4-Dinitrotoluene	ND	ug/l	7.1				
2,6-Dinitrotoluene	ND	ug/l	6.0				
Azobenzene	ND	ug/l	6.0				
Fluoranthene	10.	ug/l	6.0				
4-Chlorophenyl phenyl ether	ND	ug/l	6.0				
4-Bromophenyl phenyl ether	ND	ug/l	6.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	6.0				
Bis(2-chloroethoxy)methane	ND	ug/l	6.0				
Hexachlorobutadiene	ND	ug/l	12.				
Hexachlorocyclopentadiene	ND	ug/l	12.				
Hexachloroethane	ND	ug/l	6.0				
Isophorone	ND	ug/l	6.0				
Naphthalene	ND	ug/l	6.0				
Nitrobenzene	ND	ug/l	6.0				
NDPA/DPA	ND	ug/l	18.				
n-Nitrosodi-n-propylamine	ND	ug/l	6.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	12.				
Butyl benzyl phthalate	ND	ug/l	6.0				
Di-n-butylphthalate	ND	ug/l	6.0				
Di-n-octylphthalate	ND	ug/l	6.0				
Diethyl phthalate	ND	ug/l	6.0				
Dimethyl phthalate	ND	ug/l	6.0				
Benzo(a)anthracene	ND	ug/l	6.0				
Benzo(a)pyrene	ND	ug/l	6.0				
Benzo(b)fluoranthene	ND	ug/l	6.0				
Benzo(k)fluoranthene	ND	ug/l	6.0				
Chrysene	ND	ug/l	6.0				
Acenaphthylene	ND	ug/l	6.0				
Anthracene	ND	ug/l	6.0				
Benzo(ghi)perylene	ND	ug/l	6.0				
Fluorene	ND	ug/l	6.0				
Phenanthrene	6.2	ug/l	6.0				
Dibenzo(a,h)anthracene	ND	ug/l	6.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	8.3				
Pyrene	24.	ug/l	6.0				
Benzo(e)pyrene	ND	ug/l	6.0				
Biphenyl	ND	ug/l	6.0				
Perylene	ND	ug/l	6.0				
Aniline	ND	ug/l	12.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-10  
 MW/CB-16 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0320 01:05	HL
4-Chloroaniline	ND	ug/l	6.0				
1-Methylnaphthalene	ND	ug/l	6.0				
2-Nitroaniline	ND	ug/l	6.0				
3-Nitroaniline	ND	ug/l	6.0				
4-Nitroaniline	ND	ug/l	8.3				
Dibenzofuran	ND	ug/l	6.0				
a,a-Dimethylphenethylamine	ND	ug/l	60.				
Hexachloropropene	ND	ug/l	12.				
Nitrosodi-n-butylamine	ND	ug/l	12.				
2-Methylnaphthalene	ND	ug/l	9.5				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	24.				
Pentachlorobenzene	ND	ug/l	24.				
a-Naphthylamine	ND	ug/l	24.				
b-Naphthylamine	ND	ug/l	24.				
Phenacetin	ND	ug/l	12.				
Dimethoate	ND	ug/l	24.				
4-Aminobiphenyl	ND	ug/l	12.				
Pentachloronitrobenzene	ND	ug/l	12.				
Isodrin	ND	ug/l	12.				
p-Dimethylaminoazobenzene	ND	ug/l	12.				
Chlorobenzilate	ND	ug/l	24.				
3-Methylcholanthrene	ND	ug/l	24.				
Ethyl Methanesulfonate	ND	ug/l	18.				
Acetophenone	ND	ug/l	24.				
Nitrosodipiperidine	ND	ug/l	24.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	12.				
n-Nitrosodimethylamine	ND	ug/l	60.				
2,4,6-Trichlorophenol	ND	ug/l	6.0				
p-Chloro-m-cresol	ND	ug/l	6.0				
2-Chlorophenol	ND	ug/l	7.1				
2,4-Dichlorophenol	ND	ug/l	12.				
2,4-Dimethylphenol	ND	ug/l	12.				
2-Nitrophenol	ND	ug/l	24.				
4-Nitrophenol	ND	ug/l	12.				
2,4-Dinitrophenol	ND	ug/l	24.				
4,6-Dinitro-o-cresol	ND	ug/l	24.				
Pentachlorophenol	ND	ug/l	24.				
Phenol	ND	ug/l	8.3				
2-Methylphenol	ND	ug/l	7.1				
3-Methylphenol/4-Methylphenol	ND	ug/l	7.1				
2,4,5-Trichlorophenol	ND	ug/l	6.0				
2,6-Dichlorophenol	ND	ug/l	12.				
Benzoic Acid	ND	ug/l	60.				
Benzyl Alcohol	ND	ug/l	12.				
Carbazole	ND	ug/l	6.0				
Pyridine	ND	ug/l	60.				
2-Picoline	ND	ug/l	24.				
Pronamide	ND	ug/l	24.				
Methyl methanesulfonate	ND	ug/l	24.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-10  
 MW/CB-16 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1	8270C	0317 09:40	0320 01:05 HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	41.0	%					
Phenol-d6	35.0	%					
Nitrobenzene-d5	92.0	%					
2-Fluorobiphenyl	88.0	%					
2,4,6-Tribromophenol	110.	%					
4-Terphenyl-d14	83.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	0317 09:40	0318 22:42 RL
Acenaphthene	ND	ug/l	0.24				
2-Chloronaphthalene	ND	ug/l	0.24				
Fluoranthene	13.	ug/l	0.24				
Hexachlorobutadiene	ND	ug/l	0.60				
Naphthalene	0.41	ug/l	0.24				
Benzo(a)anthracene	ND	ug/l	0.24				
Benzo(a)pyrene	ND	ug/l	0.24				
Benzo(b)fluoranthene	ND	ug/l	0.24				
Benzo(k)fluoranthene	ND	ug/l	0.24				
Chrysene	ND	ug/l	0.24				
Acenaphthylene	ND	ug/l	0.24				
Anthracene	ND	ug/l	0.24				
Benzo(ghi)perylene	ND	ug/l	0.24				
Fluorene	0.49	ug/l	0.24				
Phenanthrene	7.1	ug/l	0.24				
Dibenzo(a,h)anthracene	ND	ug/l	0.24				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.24				
Pyrene	28.	ug/l	0.24				
1-Methylnaphthalene	0.27	ug/l	0.24				
2-Methylnaphthalene	ND	ug/l	0.24				
Pentachlorophenol	ND	ug/l	0.95				
Hexachlorobenzene	ND	ug/l	0.95				
Perylene	ND	ug/l	0.24				
Biphenyl	ND	ug/l	0.24				
2,6-Dimethylnaphthalene	ND	ug/l	0.24				
1-Methylphenanthrene	ND	ug/l	0.24				
Benzo(e)Pyrene	ND	ug/l	0.24				
Hexachloroethane	ND	ug/l	0.95				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	43.0	%		21-120			
Phenol-d6	36.0	%		10-120			
Nitrobenzene-d5	75.0	%		23-120			
2-Fluorobiphenyl	71.0	%		43-120			
2,4,6-Tribromophenol	78.0	%		10-120			
4-Terphenyl-d14	75.0	%		33-120			
Polychlorinated Biphenyls				1	8082	0321 17:00	0322 16:27 AK
Aroclor 1221	ND	ug/l	0.588				
Aroclor 1232	ND	ug/l	0.588				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-10  
 MW/CB-16 (GROUNDWATER)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0321 17:00	0322 16:27	AK
Aroclor 1242/1016	ND	ug/l	0.588				
Aroclor 1248	ND	ug/l	0.588				
Aroclor 1254	ND	ug/l	0.588				
Aroclor 1260	ND	ug/l	0.588				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	71.0	%	30-150				
Decachlorobiphenyl	45.0	%	30-150				
Organochlorine Pesticides				1 8081	0317 15:00	0318 19:12	AK
Delta-BHC	ND	ug/l	0.024				
Lindane	ND	ug/l	0.024				
Alpha-BHC	ND	ug/l	0.024				
Beta-BHC	ND	ug/l	0.024				
Heptachlor	ND	ug/l	0.024				
Aldrin	ND	ug/l	0.024				
Heptachlor epoxide	ND	ug/l	0.024				
Endrin	ND	ug/l	0.048				
Endrin aldehyde	ND	ug/l	0.048				
Endrin ketone	ND	ug/l	0.048				
Dieldrin	ND	ug/l	0.048				
4,4'-DDE	ND	ug/l	0.048				
4,4'-DDD	ND	ug/l	0.048				
4,4'-DDT	ND	ug/l	0.048				
Endosulfan I	ND	ug/l	0.024				
Endosulfan II	ND	ug/l	0.048				
Endosulfan sulfate	ND	ug/l	0.048				
Methoxychlor	ND	ug/l	0.241				
Toxaphene	ND	ug/l	0.241				
Chlordane	ND	ug/l	0.241				
cis-Chlordane	ND	ug/l	0.024				
trans-Chlordane	ND	ug/l	0.024				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	54.0	%	30-150				
Decachlorobiphenyl	40.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0502658-11	<b>Date Collected:</b> 16-MAR-2005 14:15
FIELD BLANK	<b>Date Received :</b> 16-MAR-2005
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 24-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> Field Filtered
<b>Number &amp; Type of Containers:</b> 6-Amber,2-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Total Metals</b>							
Aluminum, Total	0.017	mg/l	0.010	1 6020	0317 12:30	0321 16:49	RW
Antimony, Total	ND	mg/l	0.0002	1 6020	0317 12:30	0321 16:49	RW
Arsenic, Total	ND	mg/l	0.0004	1 6020	0317 12:30	0321 16:49	RW
Barium, Total	0.0003	mg/l	0.0002	1 6020	0317 12:30	0321 16:49	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0317 12:30	0321 16:49	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0317 12:30	0321 16:49	RW
Calcium, Total	ND	mg/l	0.200	1 6020	0317 12:30	0321 16:49	RW
Chromium, Total	ND	mg/l	0.0002	1 6020	0317 12:30	0321 16:49	RW
Cobalt, Total	ND	mg/l	0.0001	1 6020	0317 12:30	0321 16:49	RW
Copper, Total	0.0045	mg/l	0.0005	1 6020	0317 12:30	0321 16:49	RW
Iron, Total	0.027	mg/l	0.010	1 6020	0317 12:30	0321 16:49	RW
Lead, Total	0.0003	mg/l	0.0002	1 6020	0317 12:30	0321 16:49	RW
Magnesium, Total	0.011	mg/l	0.010	1 6020	0317 12:30	0321 16:49	RW
Manganese, Total	0.0006	mg/l	0.0002	1 6020	0317 12:30	0321 16:49	RW
Mercury, Total	ND	mg/l	0.0002	1 7470A	0318 17:20	0321 12:23	DM
Nickel, Total	ND	mg/l	0.0005	1 6020	0317 12:30	0321 16:49	RW
Potassium, Total	ND	mg/l	0.100	1 6020	0317 12:30	0321 16:49	RW
Selenium, Total	ND	mg/l	0.001	1 6020	0317 12:30	0321 16:49	RW
Silver, Total	ND	mg/l	0.0001	1 6020	0317 12:30	0321 16:49	RW
Sodium, Total	ND	mg/l	0.100	1 6020	0317 12:30	0321 16:49	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0317 12:30	0321 16:49	RW
Vanadium, Total	ND	mg/l	0.0002	1 6020	0317 12:30	0321 16:49	RW
Zinc, Total	0.0127	mg/l	0.0050	1 6020	0317 12:30	0321 16:49	RW
<b>Dissolved Metals</b>							
Aluminum, Dissolved	0.018	mg/l	0.010	1 6020	0317 12:30	0321 14:59	RW
Antimony, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 14:59	RW
Arsenic, Dissolved	ND	mg/l	0.0004	1 6020	0317 12:30	0321 14:59	RW
Barium, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 14:59	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30	0321 14:59	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0317 12:30	0321 14:59	RW
Calcium, Dissolved	ND	mg/l	0.200	1 6020	0317 12:30	0321 14:59	RW
Chromium, Dissolved	0.0003	mg/l	0.0002	1 6020	0317 12:30	0321 14:59	RW
Cobalt, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 14:59	RW
Copper, Dissolved	0.0109	mg/l	0.0005	1 6020	0317 12:30	0321 14:59	RW
Iron, Dissolved	0.040	mg/l	0.010	1 6020	0317 12:30	0321 14:59	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-11  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
<b>Dissolved Metals</b>							
Lead, Dissolved	0.0006	mg/l	0.0002	1 6020	0317 12:30	0321 14:59	RW
Magnesium, Dissolved	ND	mg/l	0.010	1 6020	0317 12:30	0321 14:59	RW
Manganese, Dissolved	0.0006	mg/l	0.0002	1 6020	0317 12:30	0321 14:59	RW
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 13:04	DM
Nickel, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30	0321 14:59	RW
Potassium, Dissolved	ND	mg/l	0.100	1 6020	0317 12:30	0321 14:59	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0317 12:30	0321 14:59	RW
Silver, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 14:59	RW
Sodium, Dissolved	ND	mg/l	0.100	1 6020	0317 12:30	0321 14:59	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 14:59	RW
Vanadium, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 14:59	RW
Zinc, Dissolved	0.0282	mg/l	0.0050	1 6020	0317 12:30	0321 14:59	RW
<b>Volatile Organics by GC/MS 8260</b>				1 8260B	0318 18:41 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-11  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	18:41 BT
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	32.	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%					
Toluene-d8	99.0	%					
4-Bromofluorobenzene	104.	%					
Dibromofluoromethane	107.	%					
SVOC's by GC/MS 8270				1	8270C	0317	09:40 0320 01:30 HL
Acenaphthene	ND	ug/l	5.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-11  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0320 01:30	HL
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-11  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0320 01:30	HL
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-11  
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0320 01:30	HL
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	36.0	%					
Phenol-d6	26.0	%					
Nitrobenzene-d5	77.0	%					
2-Fluorobiphenyl	73.0	%					
2,4,6-Tribromophenol	86.0	%					
4-Terphenyl-d14	97.0	%					
PAH by GC/MS SIM 8270M				1 8270C-M	0317 09:40	0318 23:27	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	38.0	%		21-120			
Phenol-d6	28.0	%		10-120			
Nitrobenzene-d5	64.0	%		23-120			
2-Fluorobiphenyl	63.0	%		43-120			
2,4,6-Tribromophenol	68.0	%		10-120			
4-Terphenyl-d14	87.0	%		33-120			
Polychlorinated Biphenyls				1 8082	0317 13:00	0318 16:24	AK
Aroclor 1221	ND	ug/l	0.575				
Aroclor 1232	ND	ug/l	0.575				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-11  
 FIELD BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls continued				1 8082	0317 13:00	0318 16:24	AK
Aroclor 1242/1016	ND	ug/l	0.575				
Aroclor 1248	ND	ug/l	0.575				
Aroclor 1254	ND	ug/l	0.575				
Aroclor 1260	ND	ug/l	0.575				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	75.0	%		30-150			
Decachlorobiphenyl	66.0	%		30-150			
Organochlorine Pesticides				1 8081	0317 15:00	0318 19:40	AK
Delta-BHC	ND	ug/l	0.023				
Lindane	ND	ug/l	0.023				
Alpha-BHC	ND	ug/l	0.023				
Beta-BHC	ND	ug/l	0.023				
Heptachlor	ND	ug/l	0.023				
Aldrin	ND	ug/l	0.023				
Heptachlor epoxide	ND	ug/l	0.023				
Endrin	ND	ug/l	0.046				
Endrin aldehyde	ND	ug/l	0.046				
Endrin ketone	ND	ug/l	0.046				
Dieldrin	ND	ug/l	0.046				
4,4'-DDE	ND	ug/l	0.046				
4,4'-DDD	ND	ug/l	0.046				
4,4'-DDT	ND	ug/l	0.046				
Endosulfan I	ND	ug/l	0.023				
Endosulfan II	ND	ug/l	0.046				
Endosulfan sulfate	ND	ug/l	0.046				
Methoxychlor	ND	ug/l	0.230				
Toxaphene	ND	ug/l	0.230				
Chlordane	ND	ug/l	0.230				
cis-Chlordane	ND	ug/l	0.023				
trans-Chlordane	ND	ug/l	0.023				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	64.0	%		30-150			
Decachlorobiphenyl	72.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0502658-12	<b>Date Collected:</b> 11-MAR-2005 15:30
	<b>Date Received :</b> 16-MAR-2005
<b>Sample Matrix:</b> TRIP BLANK WATER	<b>Date Reported :</b> 24-MAR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B	0318 19:17 BT	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	0.50			
o-Xylene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,4-Dichlorobutane	ND	ug/l	5.0			
Iodomethane	ND	ug/l	5.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0502658-12  
 TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0318 19:17		BT
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	109.	%					
Toluene-d8	103.	%					
4-Bromofluorobenzene	108.	%					
Dibromofluoromethane	104.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS**

Laboratory Job Number: L0502658

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Total Metals for sample(s) 01-11 (L0502658-01, WG196610-1)					
Aluminum, Total	0.211	0.220	mg/l	0	20
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Barium, Total	0.1569	0.1597	mg/l	2	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	62.1	63.0	mg/l	1	20
Chromium, Total	0.0015	0.0012	mg/l	22	20
Cobalt, Total	0.0006	0.0006	mg/l	2	20
Copper, Total	0.0024	0.0022	mg/l	5	20
Iron, Total	0.640	0.620	mg/l	3	20
Lead, Total	0.0025	0.0019	mg/l	25	20
Magnesium, Total	16.2	16.4	mg/l	1	20
Manganese, Total	0.2340	0.2390	mg/l	2	20
Nickel, Total	0.0019	0.0019	mg/l	1	20
Potassium, Total	9.57	9.77	mg/l	2	20
Selenium, Total	0.002	0.002	mg/l	4	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	114.	116.	mg/l	2	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	0.0010	0.0010	mg/l	3	20
Zinc, Total	0.0061	ND	mg/l	NC	20
Total Metals for sample(s) 01-11 (L0502658-02, WG196690-3)					
Mercury, Total	ND	ND	mg/l	NC	20
Dissolved Metals for sample(s) 01-11 (L0502658-01, WG196664-1)					
Aluminum, Dissolved	0.013	0.023	mg/l	52	20
Antimony, Dissolved	0.0017	0.0017	mg/l	2	20
Arsenic, Dissolved	ND	ND	mg/l	NC	20
Barium, Dissolved	0.1364	0.1373	mg/l	1	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	54.0	54.3	mg/l	1	20
Chromium, Dissolved	0.0005	0.0005	mg/l	10	20
Cobalt, Dissolved	0.0004	0.0004	mg/l	0	20
Copper, Dissolved	0.0242	0.0243	mg/l	0	20
Iron, Dissolved	0.121	0.144	mg/l	17	20
Lead, Dissolved	0.0013	0.0015	mg/l	16	20
Magnesium, Dissolved	14.3	14.5	mg/l	1	20
Manganese, Dissolved	0.1488	0.1491	mg/l	0	20
Nickel, Dissolved	0.0062	0.0063	mg/l	1	20
Potassium, Dissolved	9.92	9.93	mg/l	0	20
Selenium, Dissolved	0.002	0.002	mg/l	1	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	101.	102.	mg/l	1	20
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	0.0004	0.0004	mg/l	0	20

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0502658

Continued

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Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Dissolved Metals for sample(s) 01-11 (L0502658-01, WG196664-1)					
Zinc, Dissolved	0.0164	0.0175	mg/l	7	20
Dissolved Metals for sample(s) 01-11 (L0502658-02, WG196603-3)					
Mercury, Dissolved	ND	ND	mg/l	NC	20

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**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0502658

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 01-11 (WG196610-4)		
Aluminum, Total	96	80-120
Antimony, Total	97	80-120
Arsenic, Total	96	80-120
Barium, Total	99	80-120
Beryllium, Total	92	80-120
Cadmium, Total	107	80-120
Calcium, Total	102	80-120
Chromium, Total	101	80-120
Cobalt, Total	102	80-120
Copper, Total	104	80-120
Iron, Total	104	80-120
Lead, Total	106	80-120
Magnesium, Total	102	80-120
Manganese, Total	102	80-120
Nickel, Total	104	80-120
Potassium, Total	102	80-120
Selenium, Total	96	80-120
Silver, Total	103	80-120
Sodium, Total	94	80-120
Thallium, Total	98	80-120
Vanadium, Total	101	80-120
Zinc, Total	101	80-120
Total Metals LCS for sample(s) 01-11 (WG196690-1)		
Mercury, Total	108	70-130
Dissolved Metals LCS for sample(s) 01-11 (WG196664-4)		
Aluminum, Dissolved	94	80-120
Antimony, Dissolved	94	80-120
Arsenic, Dissolved	93	80-120
Barium, Dissolved	95	80-120
Beryllium, Dissolved	90	80-120
Cadmium, Dissolved	105	80-120
Calcium, Dissolved	96	80-120
Chromium, Dissolved	99	80-120
Cobalt, Dissolved	100	80-120
Copper, Dissolved	100	80-120
Iron, Dissolved	100	80-120
Lead, Dissolved	101	80-120
Magnesium, Dissolved	98	80-120
Manganese, Dissolved	100	80-120
Nickel, Dissolved	101	80-120
Potassium, Dissolved	98	80-120
Selenium, Dissolved	95	80-120
Silver, Dissolved	101	80-120
Sodium, Dissolved	91	80-120
Thallium, Dissolved	94	80-120
Vanadium, Dissolved	98	80-120

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502658

Continued

Parameter	% Recovery	QC Criteria
Dissolved Metals LCS for sample(s) 01-11 (WG196664-4)		
Zinc, Dissolved	98	80-120
Dissolved Metals LCS for sample(s) 01-11 (WG196603-1)		
Mercury, Dissolved	101	70-130
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-12 (WG196730-3)		
Chlorobenzene	85	
Benzene	81	
Toluene	84	
1,1-Dichloroethene	86	
Trichloroethene	82	
Surrogate(s)		
1,2-Dichloroethane-d4	120	
Toluene-d8	104	
4-Bromofluorobenzene	100	
Dibromofluoromethane	111	
SVOC's by GC/MS 8270 LCS for sample(s) 01-11 (WG196578-2)		
Acenaphthene	118	
1,2,4-Trichlorobenzene	55	
2-Chloronaphthalene	68	
1,2-Dichlorobenzene	50	
1,4-Dichlorobenzene	49	
2,4-Dinitrotoluene	148	
2,6-Dinitrotoluene	91	
Fluoranthene	92	
4-Chlorophenyl phenyl ether	141	
n-Nitrosodi-n-propylamine	46	
Butyl benzyl phthalate	92	
Anthracene	45	
Pyrene	86	
Hexachloropropene	54	
p-Chloro-M-Cresol	85	
2-Chlorophenol	58	
2-Nitrophenol	62	
4-Nitrophenol	95	
2,4-Dinitrophenol	127	
Pentachlorophenol	99	
Phenol	24	
Surrogate(s)		
2-Fluorophenol	35	
Phenol-d6	30	
Nitrobenzene-d5	71	
2-Fluorobiphenyl	72	
2,4,6-Tribromophenol	114	
4-Terphenyl-d14	101	

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502658

Continued

Parameter	% Recovery	QC Criteria
PAH by GC/MS SIM 8270M LCS for sample(s) 01-11 (WG196576-2)		
Acenaphthene	55	46-118
2-Chloronaphthalene	57	
Fluoranthene	76	
Anthracene	44	
Pyrene	63	26-127
Pentachlorophenol	85	9-103
Surrogate(s)		
2-Fluorophenol	45	21-120
Phenol-d6	38	10-120
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	57	43-120
2,4,6-Tribromophenol	87	10-120
4-Terphenyl-d14	71	33-120
Polychlorinated Biphenyls LCS for sample(s) 01,04,06-08,11 (WG196594-2)		
Aroclor 1242/1016	84	30-150
Aroclor 1260	97	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	81	30-150
Decachlorobiphenyl	80	30-150
Polychlorinated Biphenyls LCS for sample(s) 02-03,05,09-10 (WG196969-2)		
Aroclor 1242/1016	59	30-150
Aroclor 1260	76	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	50	30-150
Decachlorobiphenyl	74	30-150
Organochlorine Pesticides LCS for sample(s) 01-11 (WG196653-2)		
Delta-BHC	58	
Lindane	60	
Alpha-BHC	60	
Beta-BHC	56	
Heptachlor	53	
Aldrin	49	
Heptachlor epoxide	59	
Endrin	71	
Endrin aldehyde	55	
Endrin ketone	91	
Dieldrin	61	
4,4'-DDE	60	
4,4'-DDD	65	
4,4'-DDT	68	
Endosulfan I	59	
Endosulfan II	65	

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0502658

Continued

Parameter	% Recovery	QC Criteria
Organochlorine Pesticides LCS for sample(s) 01-11 (WG196653-2)		
Endosulfan sulfate	93	
Methoxychlor	74	
cis-Chlordane	60	
trans-Chlordane	56	
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	49	30-150
Decachlorobiphenyl	51	30-150
Total Metals SPIKE for sample(s) 01-11 (L0502658-01, WG196610-2)		
Aluminum, Total	108	80-120
Antimony, Total	103	80-120
Arsenic, Total	107	80-120
Barium, Total	106	80-120
Beryllium, Total	110	80-120
Cadmium, Total	114	80-120
Calcium, Total	127	80-120
Chromium, Total	104	80-120
Cobalt, Total	106	80-120
Copper, Total	108	80-120
Iron, Total	118	80-120
Lead, Total	110	80-120
Magnesium, Total	118	80-120
Manganese, Total	113	80-120
Nickel, Total	108	80-120
Potassium, Total	119	80-120
Selenium, Total	100	80-120
Silver, Total	107	80-120
Sodium, Total	160	80-120
Thallium, Total	102	80-120
Vanadium, Total	105	80-120
Zinc, Total	122	80-120
Total Metals SPIKE for sample(s) 01-11 (L0502658-03, WG196690-2)		
Mercury, Total	132	70-130
Dissolved Metals SPIKE for sample(s) 01-11 (L0502658-01, WG196664-2)		
Aluminum, Dissolved	99	80-120
Antimony, Dissolved	97	80-120
Arsenic, Dissolved	103	80-120
Barium, Dissolved	101	80-120
Beryllium, Dissolved	105	80-120
Cadmium, Dissolved	107	80-120
Calcium, Dissolved	130	80-120
Chromium, Dissolved	99	80-120
Cobalt, Dissolved	102	80-120
Copper, Dissolved	103	80-120
Iron, Dissolved	111	80-120



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0502658

Continued

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Parameter	% Recovery	QC Criteria
Dissolved Metals SPIKE for sample(s) 01-11 (L0502658-01, WG196664-2)		
Lead, Dissolved	104	80-120
Magnesium, Dissolved	110	80-120
Manganese, Dissolved	102	80-120
Nickel, Dissolved	102	80-120
Potassium, Dissolved	107	80-120
Selenium, Dissolved	101	80-120
Silver, Dissolved	98	80-120
Sodium, Dissolved	110	80-120
Thallium, Dissolved	98	80-120
Vanadium, Dissolved	100	80-120
Zinc, Dissolved	102	80-120
Dissolved Metals SPIKE for sample(s) 01-11 (L0502658-03, WG196603-2)		
Mercury, Dissolved	116	70-130

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ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0502658

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-12 (L0502658-01, WG196730-2)					
Chlorobenzene	103	97	6		
Benzene	104	97	7		
Toluene	103	100	3		
1,1-Dichloroethene	104	100	4		
Trichloroethene	107	98	9		
Surrogate(s)					
1,2-Dichloroethane-d4	116	114	2		
Toluene-d8	103	105	2		
4-Bromofluorobenzene	97	97	0		
Dibromofluoromethane	115	111	4		
SVOC's by GC/MS 8270 for sample(s) 01-11 (L0502658-01, WG196578-4)					
Acenaphthene	79	84	6		
1,2,4-Trichlorobenzene	70	75	7		
2-Chloronaphthalene	79	84	6		
1,2-Dichlorobenzene	62	62	0		
1,4-Dichlorobenzene	62	62	0		
2,4-Dinitrotoluene	97	92	5		
2,6-Dinitrotoluene	97	92	5		
Fluoranthene	100	97	3		
4-Chlorophenyl phenyl ether	97	92	5		
n-Nitrosodi-n-propylamine	53	53	0		
Butyl benzyl phthalate	100	92	8		
Anthracene	44	44	0		
Pyrene	97	92	5		
Hexachloropropene	79	79	0		
p-Chloro-m-Cresol	97	99	2		
2-Chlorophenol	66	68	3		
2-Nitrophenol	70	73	4		
4-Nitrophenol	95	94	0		
2,4-Dinitrophenol	86	84	2		
Pentachlorophenol	112	106	0		
Phenol	46	48	4		
Surrogate(s)					
2-Fluorophenol	48	50	4		
Phenol-d6	59	61	3		
Nitrobenzene-d5	78	82	5		
2-Fluorobiphenyl	88	91	3		
2,4,6-Tribromophenol	117	110	6		
4-Terphenyl-d14	110	104	6		
PAH by GC/MS SIM 8270M for sample(s) 01-11 (L0502658-01, WG196576-4)					
Acenaphthene	62	66	6	40	46-118
2-Chloronaphthalene	70	75	7	40	
Fluoranthene	88	88	0	40	
Anthracene	44	48	9	40	

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0502658

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
PAH by GC/MS SIM 8270M for sample(s) 01-11 (L0502658-01, WG196576-4)					
Pyrene	70	70	0	40	26-127
Pentachlorophenol	99	97	2	40	9-103
Surrogate(s)					
2-Fluorophenol	67	69	3		21-120
Phenol-d6	70	73	4		10-120
Nitrobenzene-d5	82	83	1		23-120
2-Fluorobiphenyl	73	74	1		43-120
2,4,6-Tribromophenol	97	91	6		10-120
4-Terphenyl-d14	77	76	1		33-120
Polychlorinated Biphenyls for sample(s) 01,04,06-08,11 (L0502658-11, WG196594-4)					
Aroclor 1242/1016	77	77	0	30	30-150
Aroclor 1260	93	92	1	30	30-150
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	79	75	5		30-150
Decachlorobiphenyl	78	76	3		30-150
Polychlorinated Biphenyls for sample(s) 02-03,05,09-10 (L0502658-05, WG196969-4)					
Aroclor 1242/1016	67	71	6	30	30-150
Aroclor 1260	79	80	1	30	30-150
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	56	66	16		30-150
Decachlorobiphenyl	74	71	4		30-150
Organochlorine Pesticides for sample(s) 01-11 (L0502658-02, WG196653-4)					
Delta-BHC	69	71	3	30	
Lindane	69	77	11	30	
Alpha-BHC	74	79	7	30	
Beta-BHC	77	80	4	30	
Heptachlor	60	62	3	30	
Aldrin	63	72	13	30	
Heptachlor epoxide	73	80	9	30	
Endrin	91	92	1	30	
Endrin aldehyde	76	81	6	30	
Endrin ketone	104	106	2	30	
Dieldrin	82	86	5	30	
4,4'-DDE	78	86	10	30	
4,4'-DDD	85	86	1	30	
4,4'-DDT	88	93	6	30	
Endosulfan I	71	76	7	30	
Endosulfan II	95	95	0	30	
Endosulfan sulfate	106	114	7	30	
Methoxychlor	93	99	6	30	
cis-Chlordane	74	79	7	30	

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0502658

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Organochlorine Pesticides for sample(s) 01-11 (L0502658-02, WG196653-4)					
trans-Chlordane	77	84	9	30	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	61	64	5		30-150
Decachlorobiphenyl	65	83	24		30-150

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0502658

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-11 (WG196610-3)							
Total Metals							
Aluminum, Total	ND	mg/l	0.010	1 6020	0317 12:30	0321 15:46	RW
Antimony, Total	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:46	RW
Arsenic, Total	ND	mg/l	0.0004	1 6020	0317 12:30	0321 15:46	RW
Barium, Total	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:46	RW
Beryllium, Total	ND	mg/l	0.0005	1 6020	0317 12:30	0321 15:46	RW
Cadmium, Total	ND	mg/l	0.0004	1 6020	0317 12:30	0321 15:46	RW
Calcium, Total	ND	mg/l	0.200	1 6020	0317 12:30	0321 15:46	RW
Chromium, Total	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:46	RW
Cobalt, Total	ND	mg/l	0.0001	1 6020	0317 12:30	0321 15:46	RW
Copper, Total	ND	mg/l	0.0005	1 6020	0317 12:30	0321 15:46	RW
Iron, Total	ND	mg/l	0.010	1 6020	0317 12:30	0321 15:46	RW
Lead, Total	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:46	RW
Magnesium, Total	ND	mg/l	0.010	1 6020	0317 12:30	0321 15:46	RW
Manganese, Total	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:46	RW
Nickel, Total	ND	mg/l	0.0005	1 6020	0317 12:30	0321 15:46	RW
Potassium, Total	ND	mg/l	0.100	1 6020	0317 12:30	0321 15:46	RW
Selenium, Total	ND	mg/l	0.001	1 6020	0317 12:30	0321 15:46	RW
Silver, Total	0.0001	mg/l	0.0001	1 6020	0317 12:30	0321 15:46	RW
Sodium, Total	ND	mg/l	0.100	1 6020	0317 12:30	0321 15:46	RW
Thallium, Total	ND	mg/l	0.0001	1 6020	0317 12:30	0321 15:46	RW
Vanadium, Total	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:46	RW
Zinc, Total	ND	mg/l	0.0050	1 6020	0317 12:30	0321 15:46	RW
Blank Analysis for sample(s) 01-11 (WG196690-4)							
Total Metals							
Mercury, Total	ND	mg/l	0.0002	1 7470A	0318 17:20	0321 11:36	DM
Blank Analysis for sample(s) 01-11 (WG196664-3)							
Dissolved Metals							
Aluminum, Dissolved	ND	mg/l	0.010	1 6020	0317 12:30	0321 15:40	RW
Antimony, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:40	RW
Arsenic, Dissolved	ND	mg/l	0.0004	1 6020	0317 12:30	0321 15:40	RW
Barium, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:40	RW
Beryllium, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30	0321 15:40	RW
Cadmium, Dissolved	ND	mg/l	0.0004	1 6020	0317 12:30	0321 15:40	RW
Calcium, Dissolved	ND	mg/l	0.200	1 6020	0317 12:30	0321 15:40	RW
Chromium, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:40	RW
Cobalt, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 15:40	RW
Copper, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30	0321 15:40	RW
Iron, Dissolved	ND	mg/l	0.010	1 6020	0317 12:30	0321 15:40	RW
Lead, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:40	RW
Magnesium, Dissolved	ND	mg/l	0.010	1 6020	0317 12:30	0321 15:40	RW
Manganese, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:40	RW

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-11 (WG196664-3)							
Dissolved Metals							
Nickel, Dissolved	ND	mg/l	0.0005	1 6020	0317 12:30	0321 15:40	RW
Potassium, Dissolved	ND	mg/l	0.100	1 6020	0317 12:30	0321 15:40	RW
Selenium, Dissolved	ND	mg/l	0.001	1 6020	0317 12:30	0321 15:40	RW
Silver, Dissolved	0.0001	mg/l	0.0001	1 6020	0317 12:30	0321 15:40	RW
Sodium, Dissolved	ND	mg/l	0.100	1 6020	0317 12:30	0321 15:40	RW
Thallium, Dissolved	ND	mg/l	0.0001	1 6020	0317 12:30	0321 15:40	RW
Vanadium, Dissolved	ND	mg/l	0.0002	1 6020	0317 12:30	0321 15:40	RW
Zinc, Dissolved	ND	mg/l	0.0050	1 6020	0317 12:30	0321 15:40	RW
Blank Analysis for sample(s) 01-11 (WG196603-4)							
Dissolved Metals							
Mercury, Dissolved	ND	mg/l	0.0002	1 7470A	0317 16:00	0318 12:32	DM
Blank Analysis for sample(s) 01-12 (WG196730-4)							
Volatile Organics by GC/MS 8260				1 8260B	0318 10:52 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-12 (WG196730-4)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	10:52 BT
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502658

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-12 (WG196730-4)							
Volatile Organics by GC/MS 8260 continued				1	8260B	0318	10:52 BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	120.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	105.	%					
Dibromofluoromethane	106.	%					
Blank Analysis for sample(s) 01-11 (WG196578-1)							
SVOC's by GC/MS 8270				1	8270C	0317 09:40	0319 19:38 HL
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	10.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-11 (WG196578-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 19:38	HL
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	10.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	8.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	20.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-11 (WG196578-1)							
SVOC's by GC/MS 8270 continued				1 8270C	0317 09:40	0319 19:38	HL
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				

Surrogate(s)	Recovery		QC Criteria
2-Fluorophenol	42.0	%	
Phenol-d6	35.0	%	
Nitrobenzene-d5	90.0	%	
2-Fluorobiphenyl	86.0	%	
2,4,6-Tribromophenol	113.	%	
4-Terphenyl-d14	106.	%	

Blank Analysis for sample(s) 01-11 (WG196578-1)							
SVOC's by GC/MS 8270				1 8270C	0317 09:40	0319 19:38	HL
No Tentatively Identified Compounds							

Blank Analysis for sample(s) 01-11 (WG196576-1)							
PAH by GC/MS SIM 8270M				1 8270C-M	0317 09:40	0318 13:54	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502658

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-11 (WG196576-1)							
PAH by GC/MS SIM 8270M continued				1	8270C-M	0317 09:40	0318 13:54 RL
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	47.0	%	21-120				
Phenol-d6	39.0	%	10-120				
Nitrobenzene-d5	68.0	%	23-120				
2-Fluorobiphenyl	62.0	%	43-120				
2,4,6-Tribromophenol	84.0	%	10-120				
4-Terphenyl-d14	76.0	%	33-120				
Blank Analysis for sample(s) 01,04,06-08,11 (WG196594-1)							
Polychlorinated Biphenyls				1	8082	0317 13:00	0318 14:29 AK
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	67.0	%	30-150				
Decachlorobiphenyl	63.0	%	30-150				
Blank Analysis for sample(s) 02-03,05,09-10 (WG196969-1)							
Polychlorinated Biphenyls				1	8082	0321 17:00	0323 09:29 AK
Aroclor 1221	ND	ug/l	0.500				
Aroclor 1232	ND	ug/l	0.500				
Aroclor 1242/1016	ND	ug/l	0.500				
Aroclor 1248	ND	ug/l	0.500				
Aroclor 1254	ND	ug/l	0.500				
Aroclor 1260	ND	ug/l	0.500				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	72.0	%	30-150				
Decachlorobiphenyl	72.0	%	30-150				

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0502658

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-11 (WG196653-1)							
Organochlorine Pesticides				1 8081	0317 15:00	0318 20:37	AK
Delta-BHC	ND	ug/l	0.020				
Lindane	ND	ug/l	0.020				
Alpha-BHC	ND	ug/l	0.020				
Beta-BHC	ND	ug/l	0.020				
Heptachlor	ND	ug/l	0.020				
Aldrin	ND	ug/l	0.020				
Heptachlor epoxide	ND	ug/l	0.020				
Endrin	ND	ug/l	0.040				
Endrin aldehyde	ND	ug/l	0.040				
Endrin ketone	ND	ug/l	0.040				
Dieldrin	ND	ug/l	0.040				
4,4'-DDE	ND	ug/l	0.040				
4,4'-DDD	ND	ug/l	0.040				
4,4'-DDT	ND	ug/l	0.040				
Endosulfan I	ND	ug/l	0.020				
Endosulfan II	ND	ug/l	0.040				
Endosulfan sulfate	ND	ug/l	0.040				
Methoxychlor	ND	ug/l	0.200				
Toxaphene	ND	ug/l	0.200				
Chlordane	ND	ug/l	0.200				
cis-Chlordane	ND	ug/l	0.020				
trans-Chlordane	ND	ug/l	0.020				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	68.0	%		30-150			
Decachlorobiphenyl	79.0	%		30-150			

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.  
METHOD Method number by which analysis was performed.  
ID Initials of the analyst.  
ND Not detected in comparison to the reported detection limit.  
NI Not Ignitable.  
ug/cart Micrograms per Cartridge.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. 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, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. 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, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

**APPENDIX D**  
**INVESTIGATION DERIVED WASTE MANIFEST**

# Brookside Environmental, Inc.

757 Foxhurst Rd., Baldwin, New York 11510  
 (516) 377-6300 Fax (516) 377-6846

Transporter Permit #1A-644  
 EPA ID #NYR000081661

GENERATOR	<b>NON-HAZARDOUS MANIFEST</b>		1. Customer's US EPA ID NO. <i>Not Reg'd</i>	Document No.	2. Page 1 <i>1</i>			
	3. Customer's Name and Mailing Address <i>Columbia University 3233 Broadway New York, New York</i>				A. Document Number			
	4. Phone <i>212-280-1754</i>				B. State ID			
	5. Transporter 1 Company Name <i>Manuel Express</i>		6. US EPA ID Number <i>NSD 986 1007-380</i>		C. State Transporter's ID <i>NS 324</i>			
	7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone <i>732 424-8441</i>			
	9. Designated Facility Name and Site Address <i>MAXI Environmental Services 26319 Old Trail Road Abingdon, Va 24210</i>		10. US EPA ID Number <i>VAR 000503920</i>		E. State Transporter's ID			
					F. Transporter's Phone			
					G. State Facility's ID			
					H. Facility's Phone <i>276 628-1156</i>			
	TRANSPORTER	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers	13. Total Quantity	14. Unit Wt/Vol	L. Waste No.
a. <i>Waste Petroleum Mixture Solid NON-RCRA / NON-DOT Hazardous</i>			<i>xx11 DM</i>	<i>4,000</i>	<i>P</i>			
b. <i>Waste Petroleum Mixture, Liquid NON-RCRA / NON-DOT Hazardous</i>			<i>xx8 DM</i>	<i>440</i>	<i>G</i>			
c.								
d.								
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information <i>a) Drill Cuttings - Soil, PPE b) Recycle water / Decon water</i>								
16. CUSTOMER CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.								
Printed / Type Name <i>Steve Green</i>			Signature <i>[Signature]</i>		DATE <i>01/05</i>			
FACILITY		17. Transporter 1 Acknowledgement of Receipt of Materials						
	Printed / Type Name <i>EFRAIN SANCHEZ</i>			Signature <i>[Signature]</i>		DATE <i>01/05</i>		
	18. Transporter 2 Acknowledgement of Receipt of Materials							
	Printed / Type Name			Signature		DATE		
20. Facility Owner or Operator. Certification of receipt of waste materials covered by this manifest except as noted in item 19.								
Printed / Typed Name			DATE					