WATTS ENGINEERS

PHASE II
FIELD INVESTIGATION AND SITE ASSESSMENT REPORT

FOR

GALLAGHER BEACH
BUFFALO, NEW YORK

AUGUST 2004

PREPARED FOR:

WENDEL DUCHSCHERER
95 JOHN MUIR DRIVE
SUITE 100
BUFFALO, NEW YORK 14228-1163

FOR SUBMISSION TO:

NEW YORK STATE
OFFICE OF PARKS, RECREATION AND HISTORIC PRESERVATION
WESTERN DISTRICT - NIAGARA FRONTIER REGION
PO BOX 1132
NIAGARA FALLS, NEW YORK 14303-0132

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WATTS ENGINEERING AND ARCHITECTURE, P.C.
3826 MAIN STREET
BUFFALO, NEW YORK 14226

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1.0 PROJECT PURPOSE AND SCOPE

The Field Investigation was performed by Watts Engineering and Architecture, P.C., (Watts Engineers) at the request of Wendel-Duchscherer on behalf of the New York State Office of Parks, Recreation, and Historic Preservation (NYSOPRHP). This report covers a portion of Gallagher Beach scheduled for redevelopment as part of Phase III for Gallagher Beach State Park. The Phase III development calls for expansion of the public park including the addition of parking lots and access roadways, pedestrian and bike paths, benches, a playground, a splashground and public restroom facility.

The property is located in an area of historical fill activities and contains materials such as slag and cinder, brick and masonry, metal scrap, Buffalo River and Buffalo Harbor dredge spoils, and soil believed to have been excavated from across the City of Buffalo to facilitate construction/redevelopment at former industrial sites. This soil investigation was performed to determine if special material handling requirements, disposal, capping, and worker health and safety precautions are required for the materials found both near the surface, and at depth in a area where the playground and building structure are proposed.

2.0 SOIL/FILL IDENTIFICATION, CHARACTERIZATION, AND SAMPLE COLLECTION

The field investigation was conducted on Thursday, July 15, 2004. The investigation involved excavation of four test pits, the screening and selection of six soil samples in the field, and subsequent laboratory analytical testing. Test pit locations were selected to represent the following conditions:

- One surface soil sample from approximately 0 to 6+/- inches scraped from the intended playground area and placed into a staged pile [Sample - Comp. Pile].
- Two shallow subsurface soil samples collected from test pits at a depth of 6 to 42+/- inches from within the intended playground area [Samples - Test Pit 3 and Test Pit 4].
- Three samples collected from Test Pit number 1 at the location of the proposed building structure. Samples were collected at depths representing surface, shallow subsurface, and deep subsurface soil conditions [Samples - Test Pit 1 0-2 ft, Test Pit 1 2-6 ft, and Test Pit 1 7-9 ft].

Excavation services were provided by SJB Contract Drilling and Testing Inc., as a subcontractor to NYSOPRHP. All work was observed and documented by Andrew Klimek and Matt Holquist, Watts Engineers on-site representatives.

Each sample was visually inspected. The soils were not screened for the presence of volatile organic compounds in the field because of the persistent rain that was occurring at the time of the investigation. Photographs were taken during the field investigation and are found in **Appendix A.**

2.1 Evaluation of Subsurface Soils

It can be inferred from the field investigation that fill is present in all locations where test pits were excavated. The upper 6 to 8 feet of soil documents at least several episodes of fill placement. A very thin coating of topsoil/fill, generally less than a few inches is found at the surface and has been graded to allow for the establishment of grassy vegetation. Underlying soils are generally rich in lacustrine reddish-brown silty clay intermixed with brick, concrete, masonry block, steel, gravel, and wood. In Test Pits 3 and 4 the wood (some is dimensional lumber but most is natural tree debris) constitutes a significant percentage of the bulk material. A fairly continuous grayish-green sandy slag layer was present at a depth of between 2 and 3.5 feet across the site. Between 6 and 8 feet the fill transitions quickly to grayish-black organic rich dredge spoil. Soils from Test Pit 1 exhibited fairly strong organic odor.

2.2 Sample Collection Summary

Soil samples were collected directly from the side walls of the test pit excavation or from material brought up by the backhoe and placed adjacent to the excavation. Samples were designated based on a combination of their origin and depth (when more than one sample was collected from the same location). All sampling equipment was pre-cleaned prior to use and dedicated to one location only. Pertinent information was recorded on a chain-of custody form. The samples were then packaged, placed on ice and hand-delivered Severn-Trent Laboratories (STL), Inc., located in Amherst, New York.

3.0 LABORATORY ANALYSIS AND RESULTS

This section presents a summary of the analytical data for the soil/fill samples collected during the field investigation. Six (6) samples were analyzed for the following parameters:

- Target Compound List (TCL) Volatile Organics via EPA SW-846 Method 8260
- Target Compound List (TCL) Semi-Volatile Organics via EPA SW-846 Method 8270
- Target Compound List (TCL) Pesticides/PCBs via EPA SW-846 Method 8081/8082
- Target Compound List (TCL) Herbicides via EPA SW-846 Method 8151
- Target Analyte List (TAL) Inorganics plus Cyanide via EPA SW-846 Method 8463

A copy of the chain-of-custody form and laboratory analytical results received from Severn Trent Laboratories is found in **Appendix B.**

Watts Engineers has summarized the laboratory results in **Tables 3-1, 3-2, 3-3, 3-4, and 3-5**. These tables also contain New York State Department of Environmental Conservation (NYSDEC) recommended soil cleanup objectives so a comparison of the results can be made to applicable regulatory guidance values.

Table 3-1 summarizes the TCL volatile organic analytical results for the six samples. Acetone, 2-butanone, chlorobenzene, and methylene chloride were detected in some of the samples. Where detected, the concentrations were found below NYSDEC recommended cleanup objectives. Methylene chloride is a common laboratory contaminant and is often detected at low concentrations as a residual from the cleaning process associated with the glassware and laboratory instrumentation. As a result of its presence in the laboratory blank (B), its identification has been qualified in this regard.

Table 3-2 summaries the TCL semi-volatile organic analytical results for the six samples. While several semi-volatile compounds were detected, only those shaded in the table were detected at elevated concentrations when compared to NYSDEC recommended soil cleanup objectives. However, each of these compounds were estimated (J) since their concentrations were at or below the laboratory quantitation limit. The exceedences were limited to the soil sample collected from Test Pit 3. The semi-volatiles detected above recommended soil cleanup objectives include a class of compounds known as polynuclear aromatic hydrocarbons (PAHs). Specific compounds detected above the recommended cleanup objectives included benzo(a)anthracene and chrysene. These compounds have very low recommended soil cleanup objectives due to their carcinogenic nature, however, they are very commonly observed in samples collected during field investigations.

Table 3-3 summarizes the TCL pesticide and herbicide results for the six soil samples collected for laboratory analysis. While a large number of pesticides were detected, none were identified in any of the samples at concentrations above the NYSDEC recommended soil cleanup objectives.

Table 3-4 summarizes the TCL PCB results for the six soil samples collected for laboratory analysis. While some PCBs were detected, none were identified in any of the samples at concentrations above the NYSDEC recommended soil cleanup objectives. From the sample results it appears that the deeper soil/fill layers have greater concentrations of PCBs.

Table 3-5 summarizes the TAL inorganic (metal) and cyanide results for the six samples. Several inorganic compounds were detected at concentrations either above normal soil background levels or NYSDEC recommended soil cleanup objectives. Inorganics detected at elevated levels included antimony, arsenic, beryllium, cadmium, calcium, chromium, copper, cyanide, iron, magnesium, mercury, nickel, and zinc. In addition, while not tested for directly, the concentrations of lead detected in the soil from Test Pit 1 at a depth of 2 to 6 feet and 7 to 9 feet; and, chromium detected in the soil from Test Pit 1 at a depth of 7 to 9 feet may potentially fail the Resource Conservation and Recovery Act (RCRA) disposal test for a hazardous waste known as the Toxicity Characteristic Leaching Procedure (TCLP). If the samples failed TCLP testing for either one of these two compounds (lead or chromium), the soil would be characterized as a hazardous waste based on the characteristic of toxicity.

TABLE 3-1
VOLATILE ORGANIC COMPOUNDS IN SOIL/FILL SAMPLES
GALLAGHER BEACH - ANALYTICAL DATA SUMMARY

	Soil Concentration (µg/kg - ppb)						
Compound	Sample TP-1 (0-2)	Sample TP-1 (2-6)	Sample TP-1 (7-9)	Sample TP-3	Sample TP-4	Sample PILE COMP	NYSDEC Recommended Soil Cleanup Objectives[1] (µg/kg - ppb)
Sample Date	7/15/04	7/15/04	7/15/04	7/15/04	7/15/04	7/15/04	
Sample Depths (ft)	0-2	2-6	7-9	0-3	0-3	NA	
Acetone	ND	69	66	ND	ND	ND	200
Benzene	ND	ND	ND	ND	ND	ND	60
Bromodichloromethane	ND	ND	ND	ND	ND	ND	N/A
Bromoform	ND	ND	ND	ND	ND	ND	N/A
Bromomethane	ND	ND	ND	ND	ND	ND	N/A
2-Butanone	ND	ND	12 J	ND	ND	ND	300
Carbon Disulfide	ND	ND	ND	ND	ND	ND	2700
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	600
Chlorobenzene	ND	ND	16	ND	ND	ND	1700
Chloromethane	ND	ND	ND	ND	ND	ND	N/A
Chloroethane	ND	ND	ND	ND	ND	ND	1900
Chloroform	ND	ND	ND	ND	ND	ND	300
Dibromochloromethane	ND	ND	ND	ND	ND	ND	N/A
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	200
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	100
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	400
1,2-Dichloroethene (cis)	ND	ND	ND	ND	ND	ND	250
1,2-Dichloroethene (trans)	ND	ND	ND	ND	ND	ND	300
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	300
1,3-Dichloropropene (cis)	ND	ND	ND	ND	ND	ND	300
1,3-Dichloropropene (trans)	ND	ND	ND	ND	ND	ND	300
Ethylbenzene	ND	ND	ND	ND	ND	ND	5500
2-Hexanone	ND	ND	ND	ND	ND	ND	N/A
Methylene Chloride	9	13 B	15	13 B	15	10 B	100

TABLE 3-1
VOLATILE ORGANIC COMPOUNDS IN SOIL/FILL SAMPLES
GALLAGHER BEACH - ANALYTICAL DATA SUMMARY

	Soil Concentration (µg/kg - ppb)						
Compound	**Sample TP-1 (0-2)**	**Sample TP-1 (2-6)**	**Sample TP-1 (7-9)**	**Sample TP-3**	**Sample TP-4**	**Sample PILE COMP**	**NYSDEC Recommended Soil Cleanup Objectives[1] (µg/kg - ppb)**
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	1000
Tetrachloroethene	ND	ND	ND	ND	ND	ND	1400
1,1,1-Trichlorethane	ND	ND	ND	ND	ND	ND	800
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	N/A
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	600
Styrene	ND	ND	ND	ND	ND	ND	N/A
Toluene	ND	ND	ND	ND	ND	ND	1500
Trichloroethene	ND	ND	ND	ND	ND	ND	700
Vinyl Chloride	ND	ND	ND	ND	ND	ND	200
Xylenes	ND	ND	ND	ND	ND	ND	1200

NOTES:
ND = Not Detected
N/A = Not Available
MDL = Method detection Limit
J = Estimated Value (below Laboratory Quantitation Limit)
B = Compound detected in associated blank as well as sample

[1] NYSDEC Technical and Administrative Guidance Memorandum HWR-94-4046, revised January 24, 1994. As per TAGM 4046; Total volatiles <10,000 ppb, total semi-volatiles <500,000 ppb, and individual semi-volatiles <50,000 ppb.

Exceeds NYSDEC recommended soil cleanup objective.

TABLE 3-2
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL/FILL SAMPLES
GALLAGHER BEACH - ANALYTICAL DATA SUMMARY

Compound	Soil Concentration (µg/kg - ppb)						NYSDEC Recommended Soil Cleanup Objectives[2] (µg/kg - ppb)
	Sample TP-1 (0-2)	Sample TP-1 (2-6)	Sample TP-1 (7-9)	Sample TP-3	Sample TP-4	Sample PILE COMP	
Sample Date	7/15/04	7/15/04	7/15/04	7/15/04	7/15/04	7/15/04	
Sample Depths (ft)	0-2	2-6	7-9	0-3	0-3	NA	
Phenol	ND	ND	ND	ND	ND	ND	30 or MDL
Bis(2-Chloroethyl) ether	ND	ND	ND	ND	ND	ND	N/A
2-Chlorophenol	ND	ND	ND	ND	ND	ND	800
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	1,600
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	8,500
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	7,900
2-Methylphenol	ND	ND	ND	ND	ND	ND	100 or MDL
2,2'-Oxybis (1-chloropropane)	ND	ND	ND	ND	ND	ND	N/A
4-Methylphenol	ND	ND	ND	ND	ND	ND	900
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	N/A
Hexachloroethane	ND	ND	ND	ND	ND	ND	N/A
Nitrobenzene	ND	ND	ND	ND	ND	ND	200 or MDL
Isophorone	ND	ND	ND	ND	ND	ND	4,400
2-Nitrophenol	ND	ND	ND	ND	ND	ND	330 or MDL
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	N/A
bis (2-Chloroethoxy) methane	ND	ND	ND	ND	ND	ND	N/A
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	400
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	3,400
Naphthalene	ND	ND	ND	ND	ND	ND	13,000
4-Chloroaniline	ND	ND	ND	ND	ND	ND	220 or MDL
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	N/A
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	240 or MDL
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	36,400
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	N/A
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	N/A
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	100
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	N/A

TABLE 3-2
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL/FILL SAMPLES
GALLAGHER BEACH - ANALYTICAL DATA SUMMARY

Compound	Soil Concentration (µg/kg - ppb)						
	Sample TP-1 (0-2)	Sample TP-1 (2-6)	Sample TP-1 (7-9)	Sample TP-3	Sample TP-4	Sample PILE COMP	NYSDEC Recommended Soil Cleanup Objectives[2] (µg/kg - ppb)
2-Nitroaniline	ND	ND	ND	ND	ND	ND	430 or MDL
Dimethylphthalate	ND	ND	ND	ND	ND	ND	2,000
Acenaphthylene	ND	ND	ND	ND	ND	ND	41,000
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	1,000
3-Nitroaniline	ND	ND	ND	ND	ND	ND	500 or MDL
Acenaphthene	ND	ND	ND	ND	ND	ND	50,000
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	200 or MDL
4-Nitrophenol	ND	ND	ND	ND	ND	ND	100 or MDL
Dibenzofuran	ND	ND	ND	ND	ND	ND	6,200
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	N/A
Diethylphthalate	ND	ND	ND	ND	ND	ND	7,100
4-Chlorophenylphenylether	ND	ND	ND	ND	ND	ND	N/A
Fluorene	ND	ND	ND	ND	ND	ND	50,000
4-Nitroaniline	ND	ND	ND	ND	ND	ND	N/A
2-Methyl-4,6-dinitrophenol	ND	ND	ND	ND	ND	ND	N/A
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	N/A
4-Bromophenylphenylether	ND	ND	ND	ND	ND	ND	N/A
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	410
Pentachlorophenol	ND	ND	ND	ND	ND	ND	1,000 or MDL
Phenanthrene	ND	2,800 J	ND	2,200	ND	ND	50,000
Anthracene	ND	ND	ND	ND	ND	ND	50,000
Carbazole	ND	ND	ND	ND	ND	ND	N/A
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	8,100
Fluoranthene	ND	3700 J	ND	2,600	ND	ND	50,000
Pyrene	ND	3700 J	ND	2,400	ND	ND	50,000
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	50,000
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	N/A
Benzo(a)Anthracene	ND	ND	ND	1200 J	ND	ND	224 or MDL
Chrysene	ND	ND	ND	1200 J	ND	ND	400
bis (2-Ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	50,000

TABLE 3-2
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL/FILL SAMPLES
GALLAGHER BEACH - ANALYTICAL DATA SUMMARY

Compound	Soil Concentration (µg/kg - ppb)						
	Sample TP-1 (0-2)	Sample TP-1 (2-6)	Sample TP-1 (7-9)	Sample TP-3	Sample TP-4	Sample PILE COMP	NYSDEC Recommended Soil Cleanup Objectives[2] (µg/kg - ppb)
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	8,100
Benzo(b) fluoranthene	ND	ND	ND	ND	ND	ND	1,100
Benzo(k) fluoranthene	ND	ND	ND	940 J	ND	ND	1,100
Benzo(a) pyrene	ND	ND	ND	ND	ND	ND	61 or MDL
Indeno(1,2.3-cd) pyrene	ND	ND	ND	ND	ND	ND	3,200
Dibenzo(a.h) anthracene	ND	ND	ND	ND	ND	ND	14 or MDL
Benzo(ghi) perylene	ND	ND	ND	ND	ND	ND	50,000

NOTES
ND = Not Detected
N/A = Not Available
MDL = Method Detection Limit
J = Estimated Value (below Laboratory Quantitation Limit)
na = Not Applicable

[1] NYSDEC Technical and Administrative Guidance Memorandum HWR-94-4046, revised January 24, 1994. As per TAGM 4046; total volatiles <10,000 ppb, total semi-volatiles <500,000 ppb, and individual semi-volatiles <50,000 ppb.

☐ Exceeds NYSDEC recommended soil cleanup objective.

TABLE 3-3
PESTICIDE/HERBICIDES COMPOUNDS IN SOIL/FILL SAMPLES
GALLAGHER BEACH - ANALYTICAL DATA SUMMARY

Compound	Soil Concentration (µg/kg - dry (ppb))						NYSDEC Recommended Soil Cleanup Objectives[2] (µg/kg - ppb)
	Sample TP-1 (0-2)	Sample TP-1 (2-6)	Sample TP-1 (7-9)	Sample TP-3	Sample TP-4	Sample PILE COMP	
Sample Date	7/15/04	7/15/04	7/15/04	7/15/04	7/15/04	7/15/04	
Sample Depths (ft)	0-2	2-6	7-9	0-3	0-3	NA	
Pesticides							
4,4-DDT	3.6	12	19	8.8	2.4	3.7	2100
4.4 - DDD	ND	ND	ND	2.9	ND	ND	2900
4,4 - DDE	ND	4.8	11	ND	ND	ND	2100
Aldrin	ND	ND	ND	0.46 J	ND	ND	41
Dieldrin	4.3	2.9 J	ND	0.69 J	0.65 J	1.4 J	44
beta-BHC	ND	ND	ND	6.5	0.52 J	1.3 J	200
delta-BHC	ND	ND	ND	2.5	ND	ND	300
Endrin	1.0 J	1.2 J	3.3 J	ND	ND	ND	100
Endosulfan Sulfate	ND	ND	ND	12	ND	ND	1000
Endosulfan II	ND	ND	ND	ND	2.3	ND	900
Heptachlor	ND	0.93 J	3.1 J	0.50 J	ND	ND	100
Methoxychlor	ND	ND	ND	2.5	ND	ND	N/A
Herbicides							
2,4,-D	ND	ND	ND	ND	ND	ND	500
2,4.5 -TP (Silvex)	ND	ND	ND	ND	ND	ND	700
2,4,5 - T	ND	ND	ND	ND	ND	ND	1900

NOTES:
ND = Not Detected
N/A = Not Available
MDL = Method Detection Limit
J = Estimated Value (below Laboratory Quantitation Limit)
na = Not Applicable

[1] NYSDEC Technical and Administrative Guidance Memorandum HWR-94-4046, revised April. 1995. As per TAGM 4046: total pesticides <10,000 ppb.

Exceeds NYSDEC recommended soil cleanup objective.

TABLE 3-4
PCB COMPOUNDS IN SOIL/FILL SAMPLES
GALLAGHER BEACH - ANALYTICAL DATA SUMMARY

Compound	Soil Concentration (µg/kg - dry (ppb))						NYSDEC Recommended Soil Cleanup Objectives[2] (µg/kg - ppb)
	Sample TP-1 (0-2)	Sample TP-1 (2-6)	Sample TP-1 (7-9)	Sample TP-3	Sample TP-4	Sample PILE COMP	
Sample Date	7/15/04	7/15/04	7/15/04	7/15/04	7/15/04	7/15/04	
Sample Depths (ft)	0-2	2-6	7-9	0-3	0-3	NA	
PCBs							
Aroclor 1260	22	ND	170	ND	ND	20 J	1000 (surface) 10,000 (subsurface
Aroclor 1254	40	94 J	320	ND	ND	37	1000 (surface) 10,000 (subsurface)
Aroclor 1221	ND	ND	ND	ND	ND	ND	1000 (surface) 10,000 (subsurface
Aroclor 1232	ND	ND	ND	ND	ND	ND	1000 (surface) 10,000 (subsurface
Aroclor 1248	18 J	240	360	ND	ND	ND	1000 (surface) 10,000 (subsurface)
Aroclor 1016	ND	ND	ND	ND	ND	ND	1000 (surface) 10,000 (subsurface
Aroclor 1242	ND	ND	ND	ND	ND	ND	1000 (surface) 10,000 (subsurface)

NOTES:
ND = Not Detected
N/A = Not Available
MDL = Method Detection Limit
J = Estimated Value (below Laboratory Quantitation Limit)
na = Not Applicable

[1] NYSDEC Technical and Administrative Guidance Memorandum HWR-94-4046, revised April. 1995. As per TAGM 4046.

Exceeds NYSDEC recommended soil cleanup objective.

TABLE 3-5
TARGET ANALYTE LIST INORGANICS (METALS) IN SOIL/FILL SAMPLES
GALLAGHER BEACH - ANALYTICAL DATA SUMMARY

Parameter	Soil Concentration (mg/kg - dry [ppm])						NYSDEC Guidance Values (ppm)	
	Sample TP-1 (0-2)	Sample TP-1 (2-6)	Sample TP-1 (7-9)	Sample TP-3	Sample TP-4	Sample PILE COMP	Eastern USA/NYS Background[1]	Recommended Soil Cleanup Objectives[1] (mg/kg - ppm)
Sample Date	7/15/04	7/15/04	7/15/04	7/15/04	7/15/04	7/15/04		
Sample Depths (ft)	0-2	2-6	7-9	0-3	0-3	NA		
Aluminum	16,800	9,300	15,400	11,100	11,300	16,400	33,000	SB
Antimony	ND	ND	36.1	ND	ND	ND	N/A	SB
Arsenic	7.0	7.5	36.1	3.0	4.2	8.4	3-12	7.5 or SB
Barium	82.2	107	146	67.4	104	115	15-600	300 or SB
Beryllium	0.9	0.7	0.82	1.4	1.2	1.1	0-1.75	0.16 or SB
Cadmium	1.0	1.1	7.4	0.45	0.68	1.2	0.1-1	1 or SB
Calcium	14,200	60,500	23,600	82,300	70,400	32,400	130-35,000	SB
Chromium	25.4	23	165	6.8	11.5	24	1.5-40	10
Cobalt	13.0	4.8	15.7	2.8	4.6	9.4	2.5-60	30 or SB
Copper	22.2	36.7	158	31.9	20.1	86.4	1-50	25 or SB
Cyanide (total)	ND	ND	ND	1.4	2.1	1.2	N/A	SB
Iron	29,400	14,500	46,100	7,650	12,800	23,300	2000-550,000	2000 or SB
Lead	24.2	223	248	64.5	80.4	61.3	200-500[2]	SB
Magnesium	4,670	21,800	9,420	27,600	23,200	9,240	100-5000	SB
Manganese	568	456	545	462	602	752	50-5000	SB
Mercury	0.06	0.56	2.4	0.14	0.14	0.11	0.001-0.2	0.1
Nickel	33.9	13.1	50.4	6.7	11.5	25.4	0.5-25	13 or SB
Potassium	1,960	1,800	2,340	1,210	1,690	2,650	8500-43000	SB
Selenium	ND	ND	ND	ND	ND	ND	0.1-3.9	2 or SB
Silver	ND	ND	0.82	ND	ND	ND	N/A	SB
Sodium	ND	277	266	307	248	230	6000-8000	SB
Thallium	ND	ND	ND	ND	ND	ND	N/A	SB
Vanadium	27.8	17.8	28.4	10.1	17.0	28.2	1-300	150 or SB
Zinc	103	165	555	96.8	97.2	154	9-50	20 or SB

NOTES
N/A = Not Available
SB = Site Background
na = Not Applicable

[1] NYSDEC Technical and Administrative Guidance Memorandum HDW-94-4046, Revised April. 1995.
[2] Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm. Source is NYSDEC TAGM HWR 94-4046.

Exceeds NYSDEC recommended soil cleanup objective.

4.0 ASSESSMENT OF ENVIRONMENTAL SITE CONDITIONS

Several contaminants were detected in the samples collected for laboratory analysis. Compounds detected above NYSDEC recommended cleanup objectives included a few semi-volatile organics (PAHs) at low concentrations in Test Pit 3, and a wide variety of inorganics found in all six samples. All other compounds were detected at concentrations below NYSDEC recommended soil cleanup objectives.

PAHs are often the result of any hydrocarbon combustion process and are commonly found at many industrial and commercial locations with a long history of occupation. PAHs are a group of chemicals that are formed during the incomplete burning of coal, oil and gas, garbage, or other organic substances and the emissions that result from these sources. They can also be found in substances such as crude oil, coal, coal tar pitch, creosote, and road and roofing tar. Typical routes of exposure to PAHs include inhalation of vapors and particulates, or from skin contact. The PAHs that were detected were all identified at low concentrations and simple engineering controls such as certified clean soil barrier should prevent any possible exposure to these compounds.

The various inorganics (metals) detected in the samples may be attributed to the slag found across the site likely generated from local steel manufacturing plants. Iron is alloyed with carbon to produce steel. The addition of other elements (e.g., aluminum, manganese, chromium, copper, cobalt, and nickel) impart special characteristics to the steel. This may explain the elevated concentrations of several of these compounds found in analyzed soil/fill samples. The typical routes of exposure for these compounds include inhalation, ingestion, and dermal contact. The presence of slag could also account for the elevated PAH concentrations.

5.0 RECOMMENDATIONS

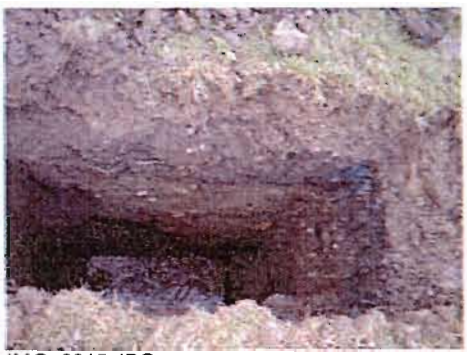
The inorganic and PAH contamination found at this site are commonly associated with fill from former manufacturing sites that have had a long history of industrial use (i.e., brownfield sites). The NYSDEC will probably determine that the contaminant concentrations detected at this site are a potential concern for the intended use of the property as a playground and splashground for children.

Areas intended for active recreational use such as a playground area should have a layer of clean soil brought in from off-site to prevent exposure to the underlying fill materials. The NYSDEC and New York State Department of Health (NYSDOH) should be consulted with regards to the thickness of any soil barrier. Most recommendations call for a two-foot layer as the desirable thickness. Other active areas such as the proposed splashground should prevent exposure by design, since the concrete slab would effectively function as a cap or barrier to the underlying fill materials. Across the rest of the site, the current proposal calls for passive recreational use, primarily walking trails and benches. Passive recreational users are unlikely to have any exposure to the identified compounds at concentrations that would pose a threat to human health.

Any workers involved with subsurface excavation, trenching, and future utility installation, should take precautions if their work involves handling these fill materials. Precautions would include wearing gloves to prevent direct dermal contact, keeping the fill moist or wet to minimize the generation of dust and particulates, and abstaining from any activities that would increase the likelihood of hand to mouth transfer (i.e., eating, drinking, smoking) while working within these fill materials. Any excess materials should be staged for sampling and characterization with regards to disposal. Analysis is recommended to include both the total concentrations of TAL and TCL analytes examined in this investigation as well as TCLP testing to confirm that the materials are not considered hazardous waste under RCRA. The surficial fill materials should be able to be re-used on-site but not as clean soils in active recreational areas. Fill from depths greater than 6 feet and characterized by their dark gray-black color appear to represent more contaminated dredge spoils. If excavated, these materials will likely require disposal in an off-site landfill.

APPENDIX A
PHOTOGRAPHS

IMG_3314.JPG



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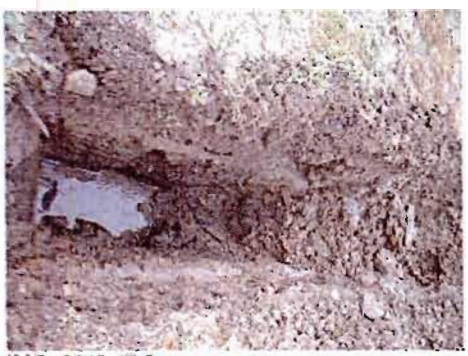
IMG_3316.JPG

IMG_3317.JPG

IMG_3318.JPG



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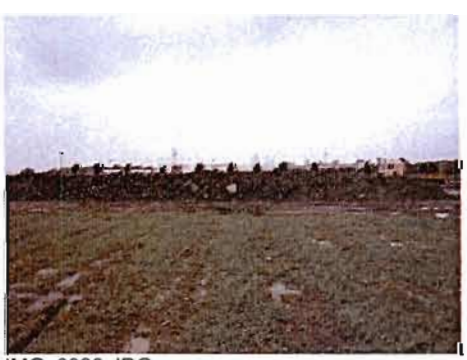

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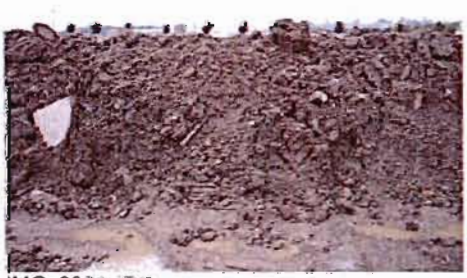
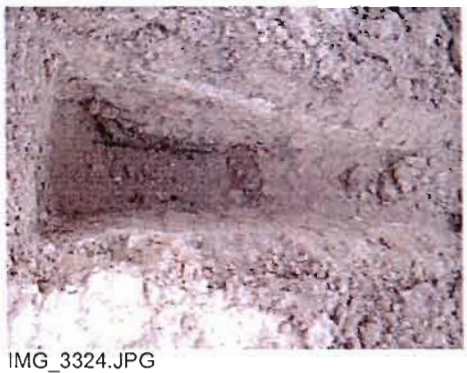


IMG_3321.JPG

IMG_3322.JPG

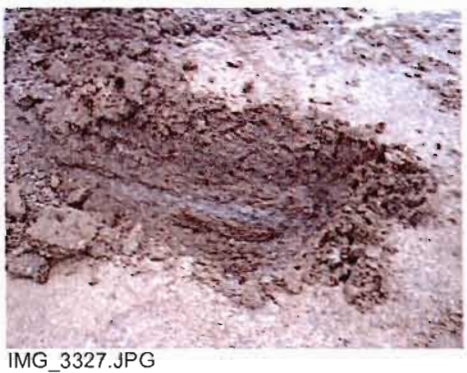
IMG_3323.JPG



IMG_3324.JPG

IMG_3325.JPG

IMG_3326.JPG



IMG_3327.JPG

IMG_3328.JPG

APPENDIX B
LABORATORY ANALYTICAL REPORT

SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A04-6713

STL Project#: NY2A893617
Site Name: Gallagher Beach
Task: Gallagher Beach

Mr. Andrew Klimek
Watts Engineers
3826 Main St.
Buffalo, NY 14226

STL Buffalo

Jeff R. Yohe
Project Manager

07/27/2004

STL Buffalo
Current Certifications

STATE	Program	Cert # / Lab ID
A2LA (ISO 17025)	SDWA, CWA, RCRA	0732-01
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Canada	GENERAL	SCC 1007-15/10B
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-4650
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390
Wyoming UST	UST	NA

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A4671303	Y2133.08-PILE COMP	07/15/2004	15:55	07/16/2004	11:53
A4671301	Y2133.08-TP3-0'-3'	07/15/2004	15:45	07/16/2004	11:53
A4671302	Y2133.08-TP4-0'-3'	07/15/2004	15:50	07/16/2004	11:53

METHODS SUMMARY

Job#: A04-6713

STL Project#: NY2A893617
Site Name: Gallagher Beach

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - TCL HERBICIDES	SW8463 8151
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010
Cyanide - Total	SW8463 9012A

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A04-6713

STL Project#: NY2A893617
Site Name: Gallagher Beach

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-6713
Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The analyte Methylene Chloride was detected in the Method Blank A4B1321202 (VBLK88) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Bromomethane was detected in the Method Blank A4B1321204 (VBLK89) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC/MS Semivolatile Data

The spike recovery of 4-Nitrophenol was below laboratory derived quality control limits in the Matrix Spike Y2133.08-TP4-0'-3' and Matrix Spike Duplicate Y2133.08-TP4-0'-3'. The Matrix Spike Blank A4B13030 was compliant for all compounds. No corrective action was required.

The relative percent difference between the Matrix Spike Y2133.08-TP4-0'-3' and the Matrix Spike Duplicate Y2133.08-TP4-0'-3' exceed quality control criteria for Pentachlorophenol, though all individual recoveries are compliant. No action required.

GC Extractable Data

For method 8081, the recovery of surrogate Decachlorobiphenyl in sample Y2133.08-PILE COMP is outside of established quality control limits due to the sample matrix. The recovery of surrogate Tetrachloro-m-xylene is within quality control limits; no corrective action is required.

For method 8081, the recoveries of several in sample Y2133.08-TP3-0'-3' Matrix Spike and Matrix Spike Duplicate exceeded QC limits due to matrix effects. The Matrix Spike Blank recoveries are compliant, no action required.

All sample extract required treatment with Copper prior to analysis due to the presence of elemental Sulfur, and were florisil treated to minimize matrix interferences.

Metals Data

The LCS recovery for Antimony fell outside of the quality control limits, however, the LCS value was within the manufacturer's recommended acceptance limits. No corrective action was taken.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
Y2133.08-TP3-0'-3'	A4671301	8270	5.00	012
Y2133.08-TP3-0'-3'	A4671301	Calcium - Total	5.00	008
Y2133.08-TP4-0'-3'	A4671302	8270	5.00	012
Y2133.08-TP4-0'-3'	A4671302	Calcium - Total	5.00	008
Y2133.08-TP4-0'-3'	A4671302MS	8270	5.00	012
Y2133.08-TP4-0'-3'	A4671302SD	8270	5.00	012
Y2133.08-PILE COMP	A4671303	8270	5.00	012

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		Y2133.08-PILE COMP		Y2133.08-TP3-0'-3'		Y2133.08-TP4-0'-3'			
Job No	Lab ID	A04-6713	A4671303	A04-6713	A4671301	A04-6713	A4671302		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	32	ND	28	ND	30	NA	
Benzene	UG/KG	ND	6	ND	6	ND	6	NA	
Bromodichloromethane	UG/KG	ND	6	ND	6	ND	6	NA	
Bromoform	UG/KG	ND	6	ND	6	ND	6	NA	
Bromomethane	UG/KG	ND	6	ND	6	ND	6	NA	
2-Butanone	UG/KG	ND	32	ND	28	ND	30	NA	
Carbon Disulfide	UG/KG	ND	6	ND	6	ND	6	NA	
Carbon Tetrachloride	UG/KG	ND	6	ND	6	ND	6	NA	
Chlorobenzene	UG/KG	ND	6	ND	6	ND	6	NA	
Chloroethane	UG/KG	ND	6	ND	6	ND	6	NA	
Chloroform	UG/KG	ND	6	ND	6	ND	6	NA	
Chloromethane	UG/KG	ND	6	ND	6	ND	6	NA	
Cyclohexane	UG/KG	ND	6	ND	6	ND	6	NA	
1,2-Dibromoethane	UG/KG	ND	6	ND	6	ND	6	NA	
Dibromochloromethane	UG/KG	ND	6	ND	6	ND	6	NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND	6	ND	6	NA	
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	NA	
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	NA	
1,4-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	NA	
Dichlorodifluoromethane	UG/KG	ND	6	ND	6	ND	6	NA	
1,1-Dichloroethane	UG/KG	ND	6	ND	6	ND	6	NA	
1,2-Dichloroethane	UG/KG	ND	6	ND	6	ND	6	NA	
1,1-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	NA	
cis-1,2-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	NA	
trans-1,2-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	NA	
1,2-Dichloropropane	UG/KG	ND	6	ND	6	ND	6	NA	
cis-1,3-Dichloropropene	UG/KG	ND	6	ND	6	ND	6	NA	
trans-1,3-Dichloropropene	UG/KG	ND	6	ND	6	ND	6	NA	
Ethylbenzene	UG/KG	ND	6	ND	6	ND	6	NA	
2-Hexanone	UG/KG	ND	32	ND	28	ND	30	NA	
Isopropylbenzene	UG/KG	ND	6	ND	6	ND	6	NA	
Methyl acetate	UG/KG	ND	6	ND	6	ND	6	NA	
Methylcyclohexane	UG/KG	ND	6	ND	6	ND	6	NA	
Methylene chloride	UG/KG	10 B	6	13 B	6	15	6	NA	
4-Methyl-2-pentanone	UG/KG	ND	32	ND	28	ND	30	NA	
Methyl tert butyl ether	UG/KG	ND	6	ND	6	ND	6	NA	
Styrene	UG/KG	ND	6	ND	6	ND	6	NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	6	ND	6	ND	6	NA	
Tetrachloroethene	UG/KG	ND	6	ND	6	ND	6	NA	
Toluene	UG/KG	ND	6	ND	6	ND	6	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	ND	6	NA	
1,1,1-Trichloroethane	UG/KG	ND	6	ND	6	ND	6	NA	
1,1,2-Trichloroethane	UG/KG	ND	6	ND	6	ND	6	NA	

10/72

NA = Not Applicable ND = Not Detected

Client ID		Y2133.08-PILE COMP		Y2133.08-TP3-0'-3'		Y2133.08-TP4-0'-3'			
Job No	Lab ID	A04-6713	A4671303	A04-6713	A4671301	A04-6713	A4671302		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	6	ND	6	ND	6	NA	
Trichlorofluoromethane	UG/KG	ND	6	ND	6	ND	6	NA	
Trichloroethene	UG/KG	ND	6	ND	6	ND	6	NA	
Vinyl acetate	UG/KG	ND	32	ND	28	ND	30	NA	
Vinyl chloride	UG/KG	ND	13	ND	11	ND	12	NA	
Total Xylenes	UG/KG	ND	19	ND	17	ND	18	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	91	50-200	97	50-200	98	50-200	NA	
1,4-Difluorobenzene	%	92	50-200	96	50-200	96	50-200	NA	
1,4-Dichlorobenzene-D4	%	66	50-200	73	50-200	96	50-200	NA	
Toluene-D8	%	85	71-125	82	71-125	82	71-125	NA	
p-Bromofluorobenzene	%	75	68-124	74	68-124	80	68-124	NA	
1,2-Dichloroethane-D4	%	84	61-136	82	61-136	83	61-136	NA	

NA = Not Applicable ND = Not Detected

Client ID		Y2133.08-PILE COMP		Y2133.08-TP3-0'-3'		Y2133.08-TP4-0'-3'			
Job No	Lab ID	A04-6713	A4671303	A04-6713	A4671301	A04-6713	A4671302		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Acenaphthylene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Acetophenone	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Anthracene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Atrazine	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Benzaldehyde	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Benzo(a)anthracene	UG/KG	ND	2100	1200 J	1900	ND	2000	NA	
Benzo(b)fluoranthene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Benzo(k)fluoranthene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Benzo(ghi)perylene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Benzo(a)pyrene	UG/KG	ND	2100	940 J	1900	ND	2000	NA	
Benzoic acid	UG/KG	ND	10000	ND	9000	ND	9600	NA	
Benzyl alcohol	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Biphenyl	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Bis(2-chloroethoxy) methane	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Bis(2-chloroethyl) ether	UG/KG	ND	2100	ND	1900	ND	2000	NA	
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Bis(2-ethylhexyl) phthalate	UG/KG	ND	2100	ND	1900	ND	2000	NA	
4-Bromophenyl phenyl ether	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Butyl benzyl phthalate	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Caprolactam	UG/KG	ND	2100	ND	1900	ND	2000	NA	
4-Chloroaniline	UG/KG	ND	2100	ND	1900	ND	2000	NA	
4-Chloro-3-methylphenol	UG/KG	ND	2100	ND	1900	ND	2000	NA	
2-Chloronaphthalene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
2-Chlorophenol	UG/KG	ND	2100	ND	1900	ND	2000	NA	
4-Chlorophenyl phenyl ether	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Chrysene	UG/KG	ND	2100	1200 J	1900	ND	2000	NA	
Dibenzo(a,h)anthracene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Dibenzofuran	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Di-n-butyl phthalate	UG/KG	ND	2100	ND	1900	ND	2000	NA	
1,2-Dichlorobenzene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
1,3-Dichlorobenzene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
1,4-Dichlorobenzene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
3,3'-Dichlorobenzidine	UG/KG	ND	4100	ND	3700	ND	4000	NA	
2,4-Dichlorophenol	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Diethyl phthalate	UG/KG	ND	2100	ND	1900	ND	2000	NA	
2,4-Dimethylphenol	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Dimethyl phthalate	UG/KG	ND	2100	ND	1900	ND	2000	NA	
4,6-Dinitro-2-methylphenol	UG/KG	ND	10000	ND	9000	ND	9600	NA	
2,4-Dinitrophenol	UG/KG	ND	10000	ND	9000	ND	9600	NA	
2,4-Dinitrotoluene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
2,6-Dinitrotoluene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Di-n-octyl phthalate	UG/KG	ND	2800	ND	2500	ND	2700	NA	

NA = Not Applicable ND = Not Detected

Client ID		Y2133.08-PILE COMP		Y2133.08-TP3-0'-3'		Y2133.08-TP4-0'-3'			
Job No / Lab ID		A04-6713 / A4671303		A04-6713 / A4671301		A04-6713 / A4671302			
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/KG	ND	2100	2600	1900	ND	2000	NA	
Fluorene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Hexachlorobenzene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Hexachlorobutadiene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Hexachlorocyclopentadiene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Hexachloroethane	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Isophorone	UG/KG	ND	2100	ND	1900	ND	2000	NA	
2-Methylnaphthalene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
2-Methylphenol	UG/KG	ND	2100	ND	1900	ND	2000	NA	
4-Methylphenol	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Naphthalene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
2-Nitroaniline	UG/KG	ND	10000	ND	9000	ND	9600	NA	
3-Nitroaniline	UG/KG	ND	10000	ND	9000	ND	9600	NA	
4-Nitroaniline	UG/KG	ND	10000	ND	9000	ND	9600	NA	
Nitrobenzene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
2-Nitrophenol	UG/KG	ND	2100	ND	1900	ND	2000	NA	
4-Nitrophenol	UG/KG	ND	10000	ND	9000	ND	9600	NA	
N-nitrosodiphenylamine	UG/KG	ND	2100	ND	1900	ND	2000	NA	
N-Nitroso-Di-n-propylamine	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Pentachlorophenol	UG/KG	ND	10000	ND	9000	ND	9600	NA	
Phenanthrene	UG/KG	ND	2100	2200	1900	ND	2000	NA	
Phenol	UG/KG	ND	2100	ND	1900	ND	2000	NA	
Pyrene	UG/KG	ND	2100	2400	1900	ND	2000	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	2100	ND	1900	ND	2000	NA	
2,4,5-Trichlorophenol	UG/KG	ND	5000	ND	4500	ND	4800	NA	
2,4,6-Trichlorophenol	UG/KG	ND	2100	ND	1900	ND	2000	NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	98	50-200	95	50-200	96	50-200	NA	
Naphthalene-D8	%	96	50-200	93	50-200	96	50-200	NA	
Acenaphthene-D10	%	93	50-200	88	50-200	93	50-200	NA	
Phenanthrene-D10	%	86	50-200	84	50-200	89	50-200	NA	
Chrysene-D12	%	84	50-200	81	50-200	83	50-200	NA	
Perylene-D12	%	110	50-200	104	50-200	104	50-200	NA	
Nitrobenzene-D5	%	61	30-127	63	30-127	72	30-127	NA	
2-Fluorobiphenyl	%	74	36-138	78	36-138	82	36-138	NA	
p-Terphenyl-d14	%	102	41-167	93	41-167	102	41-167	NA	
Phenol-D5	%	64	34-120	63	34-120	70	34-120	NA	
2-Fluorophenol	%	59	26-120	63	26-120	69	26-120	NA	
2,4,6-Tribromophenol	%	84	42-140	76	42-140	76	42-140	NA	

NA = Not Applicable ND = Not Detected

Client ID		Y2133.08-PILE COMP		Y2133.08-TP3-0'-3'		Y2133.08-TP4-0'-3'			
Job No	Lab ID	A04-6713	A4671303	A04-6713	A4671301	A04-6713	A4671302		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	ND	2.1	0.46 J	1.9	ND	2.0	NA	
alpha-BHC	UG/KG	ND	2.1	ND	1.9	ND	2.0	NA	
beta-BHC	UG/KG	1.3 J	2.1	6.5	1.9	0.52 J	2.0	NA	
gamma-BHC (Lindane)	UG/KG	ND	2.1	ND	1.9	ND	2.0	NA	
delta-BHC	UG/KG	ND	2.1	2.5	1.9	ND	2.0	NA	
Chlordane	UG/KG	ND	21	ND	19	ND	20	NA	
4,4'-DDD	UG/KG	ND	2.1	2.9	1.9	ND	2.0	NA	
4,4'-DDE	UG/KG	ND	2.1	ND	1.9	ND	2.0	NA	
4,4'-DDT	UG/KG	3.7	2.1	8.8	1.9	2.4	2.0	NA	
Dieldrin	UG/KG	1.4 J	2.1	0.69 J	1.9	0.65 J	2.0	NA	
Endosulfan I	UG/KG	ND	2.1	ND	1.9	ND	2.0	NA	
Endosulfan II	UG/KG	ND	2.1	ND	1.9	2.3	2.0	NA	
Endosulfan Sulfate	UG/KG	ND	2.1	12	1.9	ND	2.0	NA	
Endrin	UG/KG	ND	2.1	ND	1.9	ND	2.0	NA	
Endrin aldehyde	UG/KG	ND	2.1	ND	1.9	ND	2.0	NA	
Heptachlor	UG/KG	ND	2.1	0.50 J	1.9	ND	2.0	NA	
Heptachlor epoxide	UG/KG	ND	2.1	ND	1.9	ND	2.0	NA	
Methoxychlor	UG/KG	ND	2.1	2.5	1.9	ND	2.0	NA	
Toxaphene	UG/KG	ND	41	ND	38	ND	40	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	46	38-132	52	38-132	62	38-132	NA	
Decachlorobiphenyl	%	171 *	46-151	66	46-151	116	46-151	NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Y2133.08-PILE COMP A04-6713 A4671303 07/15/2004		Y2133.08-TP3-0'-3' A04-6713 A4671301 07/15/2004		Y2133.08-TP4-0'-3' A04-6713 A4671302 07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	21	ND	19	ND	20	NA	
Aroclor 1221	UG/KG	ND	21	ND	19	ND	20	NA	
Aroclor 1232	UG/KG	ND	21	ND	19	ND	20	NA	
Aroclor 1242	UG/KG	ND	21	ND	19	ND	20	NA	
Aroclor 1248	UG/KG	ND	21	ND	19	ND	20	NA	
Aroclor 1254	UG/KG	37	21	ND	19	ND	20	NA	
Aroclor 1260	UG/KG	20 J	21	ND	19	ND	20	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	88	32-148	79	32-148	90	32-148	NA	
Decachlorobiphenyl	%	86	36-153	86	36-153	74	36-153	NA	

NA = Not Applicable ND = Not Detected

Client ID		Y2133.08-PILE COMP		Y2133.08-TP3-0'-3'		Y2133.08-TP4-0'-3'			
Job No	Lab ID	A04-6713	A4671303	A04-6713	A4671301	A04-6713	A4671302		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
2,4-D	UG/KG	ND	21	ND	19	ND	20	NA	
2,4,5-TP (Silvex)	UG/KG	ND	21	ND	19	ND	20	NA	
2,4,5-T	UG/KG	ND	21	ND	19	ND	20	NA	
SURROGATE(S)									
Dichlorophenyl Acetic Acid	%	48	10-120	80	10-120	70	10-120	NA	

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NA = Not Applicable ND = Not Detected

Client ID		Y2133.08-PILE COMP		Y2133.08-TP3-0'-3'		Y2133.08-TP4-0'-3'			
Job No	Lab ID	A04-6713	A4671303	A04-6713	A4671301	A04-6713	A4671302		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/KG	16400	12.9	11100	11.8	11300	12.0	NA	
Antimony - Total	MG/KG	ND	19.4	ND	17.7	ND	18.0	NA	
Arsenic - Total	MG/KG	8.4	2.6	3.0	2.4	4.2	2.4	NA	
Barium - Total	MG/KG	115	0.64	67.4	0.59	104	0.60	NA	
Beryllium - Total	MG/KG	1.1	0.26	1.4	0.24	1.2	0.24	NA	
Cadmium - Total	MG/KG	1.2	0.26	0.45	0.24	0.68	0.24	NA	
Calcium - Total	MG/KG	32400	12.9	82300	59.1	70400	60.1	NA	
Chromium - Total	MG/KG	24.0	0.64	6.8	0.59	11.5	0.60	NA	
Cobalt - Total	MG/KG	9.4	0.64	2.8	0.59	4.6	0.60	NA	
Copper - Total	MG/KG	86.4	1.3	31.9	1.2	20.1	1.2	NA	
Iron - Total	MG/KG	23300	12.9	7650	11.8	12800	12.0	NA	
Lead - Total	MG/KG	61.3	1.3	64.5	1.2	80.4	1.2	NA	
Magnesium - Total	MG/KG	9240	25.8	27600	23.6	23200	24.0	NA	
Manganese - Total	MG/KG	752	0.26	462	0.24	602	0.24	NA	
Mercury - Total	MG/KG	0.11	0.026	0.14	0.024	0.14	0.023	NA	
Nickel - Total	MG/KG	25.4	0.64	6.7	0.59	11.5	0.60	NA	
Potassium - Total	MG/KG	2650	38.7	1210	35.5	1690	36.0	NA	
Selenium - Total	MG/KG	ND	5.2	ND	4.7	ND	4.8	NA	
Silver - Total	MG/KG	ND	0.64	ND	0.59	ND	0.60	NA	
Sodium - Total	MG/KG	230	181	307	166	248	168	NA	
Thallium - Total	MG/KG	ND	7.7	ND	7.1	ND	7.2	NA	
Vanadium - Total	MG/KG	28.2	0.64	10.1	0.59	17.0	0.60	NA	
Zinc - Total	MG/KG	154	2.6	96.8	2.4	97.2	2.4	NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Y2133.08-PILE COMP A04-6713 A4671303 07/15/2004		Y2133.08-TP3-0'-3' A04-6713 A4671301 07/15/2004		Y2133.08-TP4-0'-3' A04-6713 A4671302 07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	UG/G	1.2	1.0	1.4	1.0	2.1	1.0	NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Batch No: A4B13212

MS/MSD Batch QC Results

Lab Sample ID: A4654901 A4654901MS A4654901SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
METHOD 8260 - VOLATILE ORGANIC												
Methylene chloride	UG/KG	15.7	64.0	64.3	75.1	76.7	64	63	64	2	20.0	49-127

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

MS/MSD Batch QC Results

Lab Sample ID: A4652504 A4652504MS A4652504SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
LAN - METHOD 8082/POLYCHLORINATED BIPHEN												
Aroclor 1254	UG/KG	0	216	201	197	201	110	100	105	10	30.0	52-153
Total Polychlorinated Biphenyls (8082)	UG/KG	0	216	201	197	201	110	100	105	10	30.0	52-153

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A4671301 A4671301MS A4671301SD

Analyte	Units of Measure	Concentration Sample	Matrix Spike	Spike Duplicate	Spike Amount MS	MSD	% Recovery MS	MSD	Avg	% RPD	QC LIMITS RPD	REC.
METHOD 8081 - TCL PESTICIDES												
Aldrin	UG/KG	0.461	9.21	11.2	19.1	18.8	46 *	57	52	21	30.0	48-128
alpha-BHC	UG/KG	0	9.25	9.97	19.1	18.8	48	53	51	10	30.0	47-123
beta-BHC	UG/KG	6.54	17.5	19.3	19.1	18.8	58	68	63	16	30.0	56-129
delta-BHC	UG/KG	2.50	11.8	14.9	19.1	18.8	49	66	58	30	30.0	42-127
gamma-BHC (Lindane)	UG/KG	0	13.1	13.7	19.1	18.8	69	73	71	6	30.0	42-136
4,4'-DDD	UG/KG	2.88	12.8	14.2	19.1	18.8	52	60	56	14	30.0	42-133
4,4'-DDE	UG/KG	0	14.7	16.5	19.1	18.8	77	88	83	13	30.0	44-136
4,4'-DDT	UG/KG	8.81	18.4	20.5	19.1	18.8	50	62	56	21	30.0	49-148
Dieldrin	UG/KG	0.692	13.5	14.6	19.1	18.8	67	74	71	10	30.0	51-132
Endosulfan I	UG/KG	0	11.0	12.8	19.1	18.8	58	68	63	16	30.0	42-132
Endosulfan II	UG/KG	0	8.18	9.45	19.1	18.8	43 *	50	47	15	30.0	44-135
Endosulfan Sulfate	UG/KG	11.9	6.12	7.94	19.1	18.8	-30 *	-21 *	-26	35 *	30.0	42-136
Endrin aldehyde	UG/KG	0	4.28	7.00	19.1	18.8	22 *	37	30	51 *	30.0	37-123
Endrin	UG/KG	0	15.5	17.9	19.1	18.8	81	96	89	17	30.0	41-132
Heptachlor	UG/KG	0.500	11.8	13.8	19.1	18.8	59	71	65	18	30.0	43-127
Heptachlor epoxide	UG/KG	0	9.79	11.9	19.1	18.8	51	63	57	21	30.0	45-128
Methoxychlor	UG/KG	2.46	17.7	11.9	19.1	18.8	80	50	65	46 *	30.0	42-140

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Date: 07/27/2004 11:34:10
Batch No: A4B12991

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A4670701 A4670701MS A4670701SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
MERCURY ANALYSIS TOTAL MERCURY	MG/KG	0.0656	0.515	0.464	0.418	0.434	108	92	100	16	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A4671901 A4671901MS A4671901SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
MERCURY ANALYSIS TOTAL MERCURY	MG/KG	1.24	2.00	1.43	0.344	0.351	223 *	56 *	140	120 *	20.0	80-120

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A4657812 A4657812MS

Analyte	Units of Measure	Concentration		Spike Amount	% Recovery MS	QC LIMITS
		Sample	Matrix Spike			
CYANIDE ANALYSIS ALLIED METHOD 335.4 - TOTAL CYANIDE	MG/L	0	0.0938	0.100	94	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK88		VBLK89					
Job No	Lab ID	A04-6713	A4B1321202	A04-6713	A4B1321204				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	NA		NA	
Benzene	UG/KG	ND	5	ND	5	NA		NA	
Bromodichloromethane	UG/KG	ND	5	ND	5	NA		NA	
Bromoform	UG/KG	ND	5	ND	5	NA		NA	
Bromomethane	UG/KG	ND	5	1 J	5	NA		NA	
2-Butanone	UG/KG	ND	25	ND	25	NA		NA	
Carbon Disulfide	UG/KG	ND	5	ND	5	NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	ND	5	NA		NA	
Chlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
Chloroethane	UG/KG	ND	5	ND	5	NA		NA	
Chloroform	UG/KG	ND	5	ND	5	NA		NA	
Chloromethane	UG/KG	ND	5	ND	5	NA		NA	
Cyclohexane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dibromoethane	UG/KG	ND	5	ND	5	NA		NA	
Dibromochloromethane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
Dichlorodifluoromethane	UG/KG	ND	5	ND	5	NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,1-Dichloroethene	UG/KG	ND	5	ND	5	NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichloropropane	UG/KG	ND	5	ND	5	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	5	ND	5	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	NA		NA	
Ethylbenzene	UG/KG	ND	5	ND	5	NA		NA	
2-Hexanone	UG/KG	ND	25	ND	25	NA		NA	
Isopropylbenzene	UG/KG	ND	5	ND	5	NA		NA	
Methyl acetate	UG/KG	ND	5	ND	5	NA		NA	
Methylcyclohexane	UG/KG	ND	5	ND	5	NA		NA	
Methylene chloride	UG/KG	4 J	5	ND	5	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	25	ND	25	NA		NA	
Methyl tert butyl ether	UG/KG	ND	5	ND	5	NA		NA	
Styrene	UG/KG	ND	5	ND	5	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	ND	5	NA		NA	
Tetrachloroethene	UG/KG	ND	5	ND	5	NA		NA	
Toluene	UG/KG	ND	5	ND	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	5	ND	5	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		VBLK88		VBLK89					
Job No	Lab ID	A04-6713	A4B1321202	A04-6713	A4B1321204				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	5	ND	5	NA		NA	
Trichlorofluoromethane	UG/KG	ND	5	ND	5	NA		NA	
Trichloroethene	UG/KG	ND	5	ND	5	NA		NA	
Vinyl acetate	UG/KG	ND	25	ND	25	NA		NA	
Vinyl chloride	UG/KG	ND	10	ND	10	NA		NA	
Total Xylenes	UG/KG	ND	15	ND	15	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	79	50-200	81	50-200	NA		NA	
1,4-Difluorobenzene	%	80	50-200	81	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	58	50-200	80	50-200	NA		NA	
Toluene-D8	%	90	71-125	81	71-125	NA		NA	
p-Bromofluorobenzene	%	79	68-124	82	68-124	NA		NA	
1,2-Dichloroethane-D4	%	92	61-136	87	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		MSB 88 A04-6713 A4B1321201		MSB 89 A04-6713 A4B1321203					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	210	25	200	25	NA		NA	
Benzene	UG/KG	50	5	47	5	NA		NA	
Bromodichloromethane	UG/KG	50	5	46	5	NA		NA	
Bromoform	UG/KG	46	5	42	5	NA		NA	
Bromomethane	UG/KG	39	5	38 B	5	NA		NA	
2-Butanone	UG/KG	230	25	230	25	NA		NA	
Carbon Disulfide	UG/KG	38	5	35	5	NA		NA	
Carbon Tetrachloride	UG/KG	53	5	38	5	NA		NA	
Chlorobenzene	UG/KG	48	5	45	5	NA		NA	
Chloroethane	UG/KG	48	5	41	5	NA		NA	
Chloroform	UG/KG	51	5	48	5	NA		NA	
Chloromethane	UG/KG	50	5	44	5	NA		NA	
Cyclohexane	UG/KG	49	5	45	5	NA		NA	
1,2-Dibromoethane	UG/KG	46	5	46	5	NA		NA	
Dibromochloromethane	UG/KG	48	5	44	5	NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	42	5	45	5	NA		NA	
1,2-Dichlorobenzene	UG/KG	48	5	45	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	49	5	45	5	NA		NA	
1,4-Dichlorobenzene	UG/KG	48	5	46	5	NA		NA	
Dichlorodifluoromethane	UG/KG	42	5	39	5	NA		NA	
1,1-Dichloroethane	UG/KG	48	5	46	5	NA		NA	
1,2-Dichloroethane	UG/KG	50	5	48	5	NA		NA	
1,1-Dichloroethene	UG/KG	37	5	35	5	NA		NA	
cis-1,2-Dichloroethene	UG/KG	48	5	45	5	NA		NA	
trans-1,2-Dichloroethene	UG/KG	49	5	46	5	NA		NA	
1,2-Dichloropropane	UG/KG	49	5	47	5	NA		NA	
cis-1,3-Dichloropropene	UG/KG	49	5	47	5	NA		NA	
trans-1,3-Dichloropropene	UG/KG	46	5	45	5	NA		NA	
Ethylbenzene	UG/KG	50	5	46	5	NA		NA	
2-Hexanone	UG/KG	220	25	220	25	NA		NA	
Isopropylbenzene	UG/KG	50	5	44	5	NA		NA	
Methyl acetate	UG/KG	30	5	34	5	NA		NA	
Methylcyclohexane	UG/KG	50	5	45	5	NA		NA	
Methylene chloride	UG/KG	43 B	5	41	5	NA		NA	
4-Methyl-2-pentanone	UG/KG	230	25	230	25	NA		NA	
Methyl tert butyl ether	UG/KG	50	5	48	5	NA		NA	
Styrene	UG/KG	47	5	45	5	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	49	5	47	5	NA		NA	
Tetrachloroethene	UG/KG	48	5	44	5	NA		NA	
Toluene	UG/KG	48	5	45	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	39	5	48	5	NA		NA	
1,1,1-Trichloroethane	UG/KG	50	5	46	5	NA		NA	
1,1,2-Trichloroethane	UG/KG	47	5	46	5	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB 88		MSB 89					
Job No	Lab ID	A04-6713	A4B1321201	A04-6713	A4B1321203				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	37	5	34	5	NA		NA	
Trichlorofluoromethane	UG/KG	52	5	44	5	NA		NA	
Trichloroethene	UG/KG	51	5	47	5	NA		NA	
Vinyl acetate	UG/KG	230	25	280	25	NA		NA	
Vinyl chloride	UG/KG	49	10	47	10	NA		NA	
Total Xylenes	UG/KG	140	15	130	15	NA		NA	
==========IS/SURROGATE(S)==========									
Chlorobenzene-D5	%	94	50-200	101	50-200	NA		NA	
1,4-Difluorobenzene	%	90	50-200	98	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	93	50-200	106	50-200	NA		NA	
Toluene-D8	%	81	71-125	80	71-125	NA		NA	
p-Bromofluorobenzene	%	81	68-124	81	68-124	NA		NA	
1,2-Dichloroethane-D4	%	81	61-136	81	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID	S Blank							
Job No Lab ID	A04-6713	A4B1303002						
Sample Date								
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	330	NA		NA		NA	
Acenaphthylene	UG/KG	ND	330	NA		NA		NA	
Acetophenone	UG/KG	ND	330	NA		NA		NA	
Anthracene	UG/KG	ND	330	NA		NA		NA	
Atrazine	UG/KG	ND	330	NA		NA		NA	
Benzaldehyde	UG/KG	ND	330	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	330	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	330	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	330	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	330	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	330	NA		NA		NA	
Benzoic acid	UG/KG	ND	1600	NA		NA		NA	
Benzyl alcohol	UG/KG	ND	330	NA		NA		NA	
Biphenyl	UG/KG	ND	330	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/KG	ND	330	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/KG	ND	330	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	330	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/KG	ND	330	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/KG	ND	330	NA		NA		NA	
Butyl benzyl phthalate	UG/KG	ND	330	NA		NA		NA	
Caprolactam	UG/KG	ND	330	NA		NA		NA	
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
4-Chloro-3-methylphenol	UG/KG	ND	330	NA		NA		NA	
2-Chloronaphthalene	UG/KG	ND	330	NA		NA		NA	
2-Chlorophenol	UG/KG	ND	330	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/KG	ND	330	NA		NA		NA	
Chrysene	UG/KG	ND	330	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	330	NA		NA		NA	
Dibenzofuran	UG/KG	ND	330	NA		NA		NA	
Di-n-butyl phthalate	UG/KG	ND	330	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	330	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	330	NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	330	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/KG	ND	650	NA		NA		NA	
2,4-Dichlorophenol	UG/KG	ND	330	NA		NA		NA	
Diethyl phthalate	UG/KG	ND	330	NA		NA		NA	
2,4-Dimethylphenol	UG/KG	ND	330	NA		NA		NA	
Dimethyl phthalate	UG/KG	ND	330	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/KG	ND	1600	NA		NA		NA	
2,4-Dinitrophenol	UG/KG	ND	1600	NA		NA		NA	
2,4-Dinitrotoluene	UG/KG	ND	330	NA		NA		NA	
2,6-Dinitrotoluene	UG/KG	ND	330	NA		NA		NA	
Di-n-octyl phthalate	UG/KG	ND	440	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		S Blank							
Job No	Lab ID	A04-6713	A4B1303002						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/KG	ND	330	NA		NA		NA	
Fluorene	UG/KG	ND	330	NA		NA		NA	
Hexachlorobenzene	UG/KG	ND	330	NA		NA		NA	
Hexachlorobutadiene	UG/KG	ND	330	NA		NA		NA	
Hexachlorocyclopentadiene	UG/KG	ND	330	NA		NA		NA	
Hexachloroethane	UG/KG	ND	330	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	330	NA		NA		NA	
Isophorone	UG/KG	ND	330	NA		NA		NA	
2-Methylnaphthalene	UG/KG	ND	330	NA		NA		NA	
2-Methylphenol	UG/KG	ND	330	NA		NA		NA	
4-Methylphenol	UG/KG	ND	330	NA		NA		NA	
Naphthalene	UG/KG	ND	330	NA		NA		NA	
2-Nitroaniline	UG/KG	ND	1600	NA		NA		NA	
3-Nitroaniline	UG/KG	ND	1600	NA		NA		NA	
4-Nitroaniline	UG/KG	ND	1600	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
2-Nitrophenol	UG/KG	ND	330	NA		NA		NA	
4-Nitrophenol	UG/KG	ND	1600	NA		NA		NA	
N-nitrosodiphenylamine	UG/KG	ND	330	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/KG	ND	330	NA		NA		NA	
Pentachlorophenol	UG/KG	ND	1600	NA		NA		NA	
Phenanthrene	UG/KG	ND	330	NA		NA		NA	
Phenol	UG/KG	ND	330	NA		NA		NA	
Pyrene	UG/KG	ND	330	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	330	NA		NA		NA	
2,4,5-Trichlorophenol	UG/KG	ND	790	NA		NA		NA	
2,4,6-Trichlorophenol	UG/KG	ND	330	NA		NA		NA	
==========IS/SURROGATE(S)==========									
1,4-Dichlorobenzene-D4	%	107	50-200	NA		NA		NA	
Naphthalene-D8	%	110	50-200	NA		NA		NA	
Acenaphthene-D10	%	106	50-200	NA		NA		NA	
Phenanthrene-D10	%	97	50-200	NA		NA		NA	
Chrysene-D12	%	94	50-200	NA		NA		NA	
Perylene-D12	%	130	50-200	NA		NA		NA	
Nitrobenzene-D5	%	54	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	65	36-138	NA		NA		NA	
p-Terphenyl-d14	%	101	41-167	NA		NA		NA	
Phenol-D5	%	53	34-120	NA		NA		NA	
2-Fluorophenol	%	50	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	89	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank		Y2133.08-TP4-0'-3'		Y2133.08-TP4-0'-3'			
Job No Lab ID		A04-6713 A4B1303001		A04-6713 A4671302MS		A04-6713 A4671302SD			
Sample Date				07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	2700	330	3100	2000	3200	2000	NA	
Acenaphthylene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Acetophenone	UG/KG	ND	330	ND	2000	ND	2000	NA	
Anthracene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Atrazine	UG/KG	ND	330	ND	2000	ND	2000	NA	
Benzaldehyde	UG/KG	ND	330	ND	2000	ND	2000	NA	
Benzo(a)anthracene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Benzo(b)fluoranthene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Benzo(k)fluoranthene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Benzo(ghi)perylene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Benzo(a)pyrene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Benzoic acid	UG/KG	ND	1600	ND	9500	ND	9600	NA	
Benzyl alcohol	UG/KG	ND	330	ND	2000	ND	2000	NA	
Biphenyl	UG/KG	ND	330	ND	2000	ND	2000	NA	
Bis(2-chloroethoxy) methane	UG/KG	ND	330	ND	2000	ND	2000	NA	
Bis(2-chloroethyl) ether	UG/KG	ND	330	ND	2000	ND	2000	NA	
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	330	ND	2000	ND	2000	NA	
Bis(2-ethylhexyl) phthalate	UG/KG	ND	330	ND	2000	ND	2000	NA	
4-Bromophenyl phenyl ether	UG/KG	ND	330	ND	2000	ND	2000	NA	
Butyl benzyl phthalate	UG/KG	ND	330	ND	2000	ND	2000	NA	
Caprolactam	UG/KG	ND	330	ND	2000	ND	2000	NA	
4-Chloroaniline	UG/KG	ND	330	ND	2000	ND	2000	NA	
4-Chloro-3-methylphenol	UG/KG	2600	330	3000	2000	2800	2000	NA	
2-Chloronaphthalene	UG/KG	ND	330	ND	2000	ND	2000	NA	
2-Chlorophenol	UG/KG	2000	330	2700	2000	2400	2000	NA	
4-Chlorophenyl phenyl ether	UG/KG	ND	330	ND	2000	ND	2000	NA	
Chrysene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Dibenzo(a,h)anthracene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Dibenzofuran	UG/KG	ND	330	ND	2000	ND	2000	NA	
Di-n-butyl phthalate	UG/KG	ND	330	ND	2000	ND	2000	NA	
1,2-Dichlorobenzene	UG/KG	ND	330	ND	2000	ND	2000	NA	
1,3-Dichlorobenzene	UG/KG	ND	330	ND	2000	ND	2000	NA	
1,4-Dichlorobenzene	UG/KG	1900	330	2600	2000	2400	2000	NA	
3,3'-Dichlorobenzidine	UG/KG	ND	650	ND	3900	ND	3900	NA	
2,4-Dichlorophenol	UG/KG	ND	330	ND	2000	ND	2000	NA	
Diethyl phthalate	UG/KG	ND	330	ND	2000	ND	2000	NA	
2,4-Dimethylphenol	UG/KG	ND	330	ND	2000	ND	2000	NA	
Dimethyl phthalate	UG/KG	ND	330	ND	2000	ND	2000	NA	
4,6-Dinitro-2-methylphenol	UG/KG	ND	1600	ND	9500	ND	9600	NA	
2,4-Dinitrophenol	UG/KG	ND	1600	ND	9500	ND	9600	NA	
2,4-Dinitrotoluene	UG/KG	2600	330	2800	2000	2800	2000	NA	
2,6-Dinitrotoluene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Di-n-octyl phthalate	UG/KG	ND	440	ND	2600	ND	2700	NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank		Y2133.08-TP4-0'-3'		Y2133.08-TP4-0'-3'			
Job No	Lab ID	A04-6713	A4B1303001	A04-6713	A4671302MS	A04-6713	A4671302SD		
Sample Date				07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Fluorene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Hexachlorobenzene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Hexachlorobutadiene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Hexachlorocyclopentadiene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Hexachloroethane	UG/KG	ND	330	ND	2000	ND	2000	NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Isophorone	UG/KG	ND	330	ND	2000	ND	2000	NA	
2-Methylnaphthalene	UG/KG	ND	330	ND	2000	ND	2000	NA	
2-Methylphenol	UG/KG	ND	330	ND	2000	ND	2000	NA	
4-Methylphenol	UG/KG	ND	330	ND	2000	ND	2000	NA	
Naphthalene	UG/KG	ND	330	ND	2000	ND	2000	NA	
2-Nitroaniline	UG/KG	ND	1600	ND	9500	ND	9600	NA	
3-Nitroaniline	UG/KG	ND	1600	ND	9500	ND	9600	NA	
4-Nitroaniline	UG/KG	ND	1600	ND	9500	ND	9600	NA	
Nitrobenzene	UG/KG	ND	330	ND	2000	ND	2000	NA	
2-Nitrophenol	UG/KG	ND	330	ND	2000	ND	2000	NA	
4-Nitrophenol	UG/KG	2300	1600	ND	9500	ND	9600	NA	
N-nitrosodiphenylamine	UG/KG	ND	330	ND	2000	ND	2000	NA	
N-Nitroso-Di-n-propylamine	UG/KG	2600	330	2800	2000	2800	2000	NA	
Pentachlorophenol	UG/KG	3900	1600	ND	9500	ND	9600	NA	
Phenanthrene	UG/KG	ND	330	ND	2000	ND	2000	NA	
Phenol	UG/KG	1900	330	2600	2000	2300	2000	NA	
Pyrene	UG/KG	3800	330	4300	2000	4700	2000	NA	
1,2,4-Trichlorobenzene	UG/KG	2000	330	2700	2000	2700	2000	NA	
2,4,5-Trichlorophenol	UG/KG	ND	790	ND	4700	ND	4800	NA	
2,4,6-Trichlorophenol	UG/KG	ND	330	ND	2000	ND	2000	NA	
======IS/SURROGATE(S)======									
1,4-Dichlorobenzene-D4	%	113	50-200	97	50-200	100	50-200	NA	
Naphthalene-D8	%	120	50-200	98	50-200	101	50-200	NA	
Acenaphthene-D10	%	114	50-200	93	50-200	96	50-200	NA	
Phenanthrene-D10	%	104	50-200	92	50-200	93	50-200	NA	
Chrysene-D12	%	98	50-200	83	50-200	85	50-200	NA	
Perylene-D12	%	144	50-200	106	50-200	112	50-200	NA	
Nitrobenzene-D5	%	64	30-127	66	30-127	57	30-127	NA	
2-Fluorobiphenyl	%	78	36-138	78	36-138	77	36-138	NA	
p-Terphenyl-d14	%	114	41-167	98	41-167	102	41-167	NA	
Phenol-D5	%	65	34-120	69	34-120	64	34-120	NA	
2-Fluorophenol	%	59	26-120	66	26-120	60	26-120	NA	
2,4,6-Tribromophenol	%	100	42-140	82	42-140	82	42-140	NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Sample Date	Lab ID	Method Blank A04-6713	A4B1303202						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	ND	1.6	NA		NA		NA	
alpha-BHC	UG/KG	ND	1.6	NA		NA		NA	
beta-BHC	UG/KG	ND	1.6	NA		NA		NA	
gamma-BHC (Lindane)	UG/KG	ND	1.6	NA		NA		NA	
delta-BHC	UG/KG	ND	1.6	NA		NA		NA	
Chlordane	UG/KG	ND	16	NA		NA		NA	
4,4'-DDD	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDE	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDT	UG/KG	ND	1.6	NA		NA		NA	
Dieldrin	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan I	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan II	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan Sulfate	UG/KG	ND	1.6	NA		NA		NA	
Endrin	UG/KG	ND	1.6	NA		NA		NA	
Endrin aldehyde	UG/KG	ND	1.6	NA		NA		NA	
Heptachlor	UG/KG	ND	1.6	NA		NA		NA	
Heptachlor epoxide	UG/KG	ND	1.6	NA		NA		NA	
Methoxychlor	UG/KG	ND	1.6	NA		NA		NA	
Toxaphene	UG/KG	ND	33	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	84	38-132	NA		NA		NA	
Decachlorobiphenyl	%	114	46-151	NA		NA		NA	

NA = Not Applicable ND = Not Detected

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID		Method Blank							
Job No	Lab ID	A04-6713	A4B1303402						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	17	NA		NA		NA	
Aroclor 1221	UG/KG	ND	17	NA		NA		NA	
Aroclor 1232	UG/KG	ND	17	NA		NA		NA	
Aroclor 1242	UG/KG	ND	17	NA		NA		NA	
Aroclor 1248	UG/KG	ND	17	NA		NA		NA	
Aroclor 1254	UG/KG	ND	17	NA		NA		NA	
Aroclor 1260	UG/KG	ND	17	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	81	32-148	NA		NA		NA	
Decachlorobiphenyl	%	94	36-153	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A04-6713 A4B1303503							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
2,4-D	UG/KG	ND	16	NA		NA		NA	
2,4,5-TP (Silvex)	UG/KG	ND	16	NA		NA		NA	
2,4,5-T	UG/KG	ND	16	NA		NA		NA	
SURROGATE(S)									
Dichlorophenyl Acetic Acid	%	68	10-120	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A04-6713 A4B1303201		Y2133.08-TP3-0'-3' A04-6713 A4671301MS 07/15/2004		Y2133.08-TP3-0'-3' A04-6713 A4671301SD 07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	15	1.6	9.2	1.9	11	1.9	NA	
alpha-BHC	UG/KG	14	1.6	9.2	1.9	10	1.9	NA	
beta-BHC	UG/KG	16	1.6	18	1.9	19	1.9	NA	
gamma-BHC (Lindane)	UG/KG	14	1.6	13	1.9	14	1.9	NA	
delta-BHC	UG/KG	15	1.6	12	1.9	15	1.9	NA	
Chlordane	UG/KG	ND	16	ND	19	ND	19	NA	
4,4'-DDD	UG/KG	17	1.6	13	1.9	14	1.9	NA	
4,4'-DDE	UG/KG	20	1.6	15	1.9	16	1.9	NA	
4,4'-DDT	UG/KG	17	1.6	18	1.9	20	1.9	NA	
Dieldrin	UG/KG	16	1.6	14	1.9	15	1.9	NA	
Endosulfan I	UG/KG	18	1.6	11	1.9	13	1.9	NA	
Endosulfan II	UG/KG	13	1.6	8.2	1.9	9.4	1.9	NA	
Endosulfan Sulfate	UG/KG	17	1.6	6.1	1.9	7.9	1.9	NA	
Endrin	UG/KG	16	1.6	16	1.9	18	1.9	NA	
Endrin aldehyde	UG/KG	15	1.6	4.3	1.9	7.0	1.9	NA	
Heptachlor	UG/KG	16	1.6	12	1.9	14	1.9	NA	
Heptachlor epoxide	UG/KG	16	1.6	9.8	1.9	12	1.9	NA	
Methoxychlor	UG/KG	18	1.6	18	1.9	12	1.9	NA	
Toxaphene	UG/KG	ND	32	ND	38	ND	37	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	87	38-132	48	38-132	58	38-132	NA	
Decachlorobiphenyl	%	121	46-151	82	46-151	126	46-151	NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A04-6713	A4B1303401						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	
Aroclor 1221	UG/KG	ND	16	NA		NA		NA	
Aroclor 1232	UG/KG	ND	16	NA		NA		NA	
Aroclor 1242	UG/KG	ND	16	NA		NA		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA		NA	
Aroclor 1254	UG/KG	160	16	NA		NA		NA	
Aroclor 1260	UG/KG	ND	16	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	90	32-148	NA		NA		NA	
Decachlorobiphenyl	%	95	36-153	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A04-6713 A4B1303501		Matrix Spike Blk Dup A04-6713 A4B1303502					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
2,4-D	UG/KG	44	16	52	17	NA		NA	
2,4,5-TP (Silvex)	UG/KG	41	16	48	17	NA		NA	
2,4,5-T	UG/KG	34	16	40	17	NA		NA	
SURROGATE(S)									
Dichlorophenyl Acetic Acid	%	70	10-120	76	10-120	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank		Method Blank					
Job No	Lab ID	A04-6713	A4B1299102	A04-6713	A4B1308702				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Mercury - Total	MG/KG	ND	0.020	NA		NA		NA	
Iron - Total	MG/KG	NA		ND	10	NA		NA	
Magnesium - Total	MG/KG	NA		ND	20.0	NA		NA	
Thallium - Total	MG/KG	NA		ND	6.0	NA		NA	
Silver - Total	MG/KG	NA		ND	0.50	NA		NA	
Cobalt - Total	MG/KG	NA		ND	0.50	NA		NA	
Calcium - Total	MG/KG	NA		ND	10	NA		NA	
Aluminum - Total	MG/KG	NA		ND	10	NA		NA	
Arsenic - Total	MG/KG	NA		ND	2.0	NA		NA	
Antimony - Total	MG/KG	NA		ND	15.0	NA		NA	
Barium - Total	MG/KG	NA		ND	0.50	NA		NA	
Beryllium - Total	MG/KG	NA		ND	0.20	NA		NA	
Cadmium - Total	MG/KG	NA		ND	0.20	NA		NA	
Selenium - Total	MG/KG	NA		ND	4.0	NA		NA	
Chromium - Total	MG/KG	NA		ND	0.50	NA		NA	
Copper - Total	MG/KG	NA		ND	1.0	NA		NA	
Lead - Total	MG/KG	NA		ND	1.0	NA		NA	
Manganese - Total	MG/KG	NA		ND	0.20	NA		NA	
Nickel - Total	MG/KG	NA		ND	0.50	NA		NA	
Potassium - Total	MG/KG	NA		ND	30.0	NA		NA	
Sodium - Total	MG/KG	NA		ND	140	NA		NA	
Vanadium - Total	MG/KG	NA		ND	0.50	NA		NA	
Zinc - Total	MG/KG	NA		ND	2.0	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS		LCS CLP Soils					
Job No	Lab ID	A04-6713	A4B1299101	A04-6713	A4B1308701				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Mercury - Total	MG/KG	3.7	0.24	NA		NA		NA	
Manganese - Total	MG/KG	NA		561	0.20	NA		NA	
Sodium - Total	MG/KG	NA		413	141	NA		NA	
Copper - Total	MG/KG	NA		116	1.0	NA		NA	
Aluminum - Total	MG/KG	NA		6360	10.1	NA		NA	
Arsenic - Total	MG/KG	NA		102	2.0	NA		NA	
Antimony - Total	MG/KG	NA		46.4	15.2	NA		NA	
Barium - Total	MG/KG	NA		323	0.50	NA		NA	
Beryllium - Total	MG/KG	NA		129	0.20	NA		NA	
Cadmium - Total	MG/KG	NA		94.3	0.20	NA		NA	
Selenium - Total	MG/KG	NA		166	4.0	NA		NA	
Calcium - Total	MG/KG	NA		3140	10.1	NA		NA	
Chromium - Total	MG/KG	NA		158	0.50	NA		NA	
Cobalt - Total	MG/KG	NA		132	0.50	NA		NA	
Iron - Total	MG/KG	NA		9560	10.1	NA		NA	
Lead - Total	MG/KG	NA		99.5	1.0	NA		NA	
Magnesium - Total	MG/KG	NA		1940	20.2	NA		NA	
Nickel - Total	MG/KG	NA		124	0.50	NA		NA	
Potassium - Total	MG/KG	NA		1860	30.3	NA		NA	
Silver - Total	MG/KG	NA		79.4	0.50	NA		NA	
Thallium - Total	MG/KG	NA		148	6.1	NA		NA	
Vanadium - Total	MG/KG	NA		110	0.50	NA		NA	
Zinc - Total	MG/KG	NA		183	2.0	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Sample Date	Lab ID	Method Blank A04-6713	A4B1301204						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	UG/G	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS							
Job No	Lab ID	A04-6713	A4B1301203						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	UG/G	238	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK88 MSB 88
Lab Sample ID: A4B1321202 A4B1321201

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/KG	37.1	50.0	74	65-146
Trichloroethene	UG/KG	51.1	50.0	102	74-127
Benzene	UG/KG	50.3	50.0	101	74-128
Toluene	UG/KG	48.3	50.0	97	74-123
Chlorobenzene	UG/KG	47.9	50.0	96	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK89 MSB 89
Lab Sample ID: A4B1321204 A4B1321203

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/KG	35.2	50.0	70	65-146
Trichloroethene	UG/KG	46.9	50.0	94	74-127
Benzene	UG/KG	47.1	50.0	94	74-128
Toluene	UG/KG	45.4	50.0	91	74-123
Chlorobenzene	UG/KG	45.4	50.0	91	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Y2133.08-TP4-0'-3' Y2133.08-TP4-0'-3' Y2133.08-TP4-0'-3'
Lab Sample ID: A4671302 A4671302MS A4671302SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS												
Phenol	UG/KG	0	2600	2349	3942	3988	66	59	63	11	25.0	35-120
2-Chlorophenol	UG/KG	0	2679	2458	3942	3988	68	62	65	9	26.0	34-118
1,4-Dichlorobenzene	UG/KG	0	2556	2449	3942	3988	65	61	63	6	30.0	30-120
N-Nitroso-Di-n-propylamine	UG/KG	0	2827	2771	3942	3988	72	69	71	4	20.0	42-131
1,2,4-Trichlorobenzene	UG/KG	0	2721	2700	3942	3988	69	68	69	1	24.0	32-120
4-Chloro-3-methylphenol	UG/KG	0	2973	2830	3942	3988	75	71	73	5	20.0	45-135
Acenaphthene	UG/KG	0	3140	3249	3942	3988	80	81	81	1	16.0	49-131
4-Nitrophenol	UG/KG	0	506	527	3942	3988	13 *	13 *	13	0	25.0	36-142
2,4-Dinitrotoluene	UG/KG	0	2812	2841	3942	3988	71	71	71	0	19.0	45-138
Pentachlorophenol	UG/KG	0	1317	1791	3942	3988	33	45	39	31 *	27.0	28-135
Pyrene	UG/KG	670	4341	4737	3942	3988	93	102	98	9	25.0	48-154

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: S Blank Matrix Spike Blank
Lab Sample ID: A4B1303002 A4B1303001

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS					
Phenol	UG/KG	1945	3307	59	35-120
2-Chlorophenol	UG/KG	2041	3307	62	34-118
1,4-Dichlorobenzene	UG/KG	1871	3307	56	30-120
N-Nitroso-Di-n-propylamine	UG/KG	2551	3307	77	42-131
1,2,4-Trichlorobenzene	UG/KG	2033	3307	61	32-120
4-Chloro-3-methylphenol	UG/KG	2561	3307	77	45-135
Acenaphthene	UG/KG	2696	3307	82	49-131
4-Nitrophenol	UG/KG	2287	3307	69	36-142
2,4-Dinitrotoluene	UG/KG	2620	3307	79	45-138
Pentachlorophenol	UG/KG	3894	3307	118	28-135
Pyrene	UG/KG	3853	3307	116	48-154

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Y2133.08-TP3-0'-3' Y2133.08-TP3-0'-3' Y2133.08-TP3-0'-3'
Lab Sample ID: A4671301 A4671301MS A4671301SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
METHOD 8081 - TCL PESTICIDES												
Aldrin	UG/KG	0.461	9.21	11.2	19.1	18.8	46 *	57	52	21	30.0	48-128
alpha-BHC	UG/KG	0	9.25	9.97	19.1	18.8	48	53	51	10	30.0	47-123
beta-BHC	UG/KG	6.54	17.5	19.3	19.1	18.8	58	68	63	16	30.0	56-129
delta-BHC	UG/KG	2.50	11.8	14.9	19.1	18.8	49	66	58	30	30.0	42-127
gamma-BHC (Lindane)	UG/KG	0	13.1	13.7	19.1	18.8	69	73	71	6	30.0	42-136
4,4'-DDD	UG/KG	2.88	12.8	14.2	19.1	18.8	52	60	56	14	30.0	42-133
4,4'-DDE	UG/KG	0	14.7	16.5	19.1	18.8	77	88	83	13	30.0	44-136
4,4'-DDT	UG/KG	8.81	18.4	20.5	19.1	18.8	50	62	56	21	30.0	49-148
Dieldrin	UG/KG	0.692	13.5	14.6	19.1	18.8	67	74	71	10	30.0	51-132
Endosulfan I	UG/KG	0	11.0	12.8	19.1	18.8	58	68	63	16	30.0	42-132
Endosulfan II	UG/KG	0	8.18	9.45	19.1	18.8	43 *	50	47	15	30.0	44-135
Endosulfan Sulfate	UG/KG	11.9	6.12	7.94	19.1	18.8	-30 *	-21 *	-26	35 *	30.0	42-136
Endrin aldehyde	UG/KG	0	4.28	7.00	19.1	18.8	22 *	37	30	51 *	30.0	37-123
Endrin	UG/KG	0	15.5	17.9	19.1	18.8	81	96	89	17	30.0	41-132
Heptachlor	UG/KG	0.500	11.8	13.8	19.1	18.8	59	71	65	18	30.0	43-127
Heptachlor epoxide	UG/KG	0	9.79	11.9	19.1	18.8	51	63	57	21	30.0	45-128
Methoxychlor	UG/KG	2.46	17.7	11.9	19.1	18.8	80	50	65	46 *	30.0	42-140

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A4B1303202

Matrix Spike Blank
A4B1303201

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8081 - TCL PESTICIDES					
Aldrin	UG/KG	14.6	16.3	90	48-128
alpha-BHC	UG/KG	13.9	16.3	86	47-123
beta-BHC	UG/KG	16.3	16.3	100	56-129
delta-BHC	UG/KG	14.7	16.3	90	42-127
gamma-BHC (Lindane)	UG/KG	14.4	16.3	89	42-136
4,4'-DDD	UG/KG	16.9	16.3	104	42-133
4,4'-DDE	UG/KG	19.9	16.3	122	44-136
4,4'-DDT	UG/KG	16.7	16.3	103	49-148
Dieldrin	UG/KG	15.9	16.3	98	51-132
Endosulfan I	UG/KG	17.9	16.3	110	42-132
Endosulfan II	UG/KG	13.2	16.3	81	44-135
Endosulfan Sulfate	UG/KG	16.7	16.3	103	42-136
Endrin aldehyde	UG/KG	14.9	16.3	91	37-123
Endrin	UG/KG	15.9	16.3	98	41-132
Heptachlor	UG/KG	15.9	16.3	98	43-127
Heptachlor epoxide	UG/KG	15.8	16.3	97	45-128
Methoxychlor	UG/KG	17.7	16.3	109	42-140

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A4B1303402

Matrix Spike Blank
A4B1303401

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8082 - POLYCHLORINATED BIPHENYLS					
Aroclor 1254	UG/KG	165	164	100	52-153

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank | Matrix Spike Blank | Matrix Spike Blk Dup
Lab Sample ID: A4B1303503 | A4B1303501 | A4B1303502

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			% RPD	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		RPD	REC.
METHOD 8151 - TCL HERBICIDES											
2,4-D	UG/KG	44.5	52.3	64.9	66.4	68	79	74	15	50.0	13-132
2,4,5-TP (Silvex)	UG/KG	41.2	48.2	64.9	66.4	63	72	68	13	50.0	28-114
2,4,5-T	UG/KG	33.8	40.5	64.9	66.4	52	61	57	16	50.0	20-110

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A4B1299102 A4B1299101

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL TCL METALS					
TOTAL MERCURY	MG/KG	3.73	4.00	93	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A4B1308702 A4B1308701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL TCL METALS					
TOTAL ALUMINUM	MG/KG	6362	6360	100	80-120
TOTAL ANTIMONY	MG/KG	46.45	65.20	71 *	80-120
TOTAL ARSENIC	MG/KG	102.3	110.0	93	80-120
TOTAL BARIUM	MG/KG	323.1	334.0	97	80-120
TOTAL BERYLLIUM	MG/KG	128.8	133.0	97	80-120
TOTAL CADMIUM	MG/KG	94.31	101.0	93	80-120
TOTAL CALCIUM	MG/KG	3144	3320	94	80-120
TOTAL CHROMIUM	MG/KG	158.4	167.0	95	80-120
TOTAL COBALT	MG/KG	132.1	136.0	97	80-120
TOTAL COPPER	MG/KG	115.5	118.0	98	80-120
TOTAL IRON	MG/KG	9559	11400	84	80-120
TOTAL LEAD	MG/KG	99.49	102.0	98	80-120
TOTAL MAGNESIUM	MG/KG	1941	1980	98	80-120
TOTAL MANGANESE	MG/KG	561.0	534.0	105	80-120
TOTAL NICKEL	MG/KG	124.3	127.0	98	80-120
TOTAL POTASSIUM	MG/KG	1861	1930	96	80-120
TOTAL SELENIUM	MG/KG	165.5	166.0	100	80-120
TOTAL SILVER	MG/KG	79.43	82.90	96	80-120
TOTAL SODIUM	MG/KG	412.9	452.0	91	80-120
TOTAL THALLIUM	MG/KG	148.4	152.0	98	80-120
TOTAL VANADIUM	MG/KG	110.1	118.0	93	80-120
TOTAL ZINC	MG/KG	183.0	193.0	95	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A4B1301204 A4B1301203

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	UG/G	237.5	277.0	86	60-118

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Y2133.08-PILE COMP A04-6713 A4671303	Y2133.08-TP3-0'-3' A04-6713 A4671301	Y2133.08-TP4-0'-3' A04-6713 A4671302		
Sample Date	07/15/2004 15:55	07/15/2004 15:45	07/15/2004 15:50		
Received Date	07/16/2004 11:53	07/16/2004 11:53	07/16/2004 11:53		
Extraction Date					
Analysis Date	07/20/2004 17:17	07/20/2004 16:41	07/20/2004 16:59		
Extraction HT Met?	-	-	-		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	5.05 GRAMS	5.19 GRAMS	5.05 GRAMS		
% Dry	78.40	86.62	82.41		

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NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MSB 88 A04-6713 A4B1321201	MSB 89 A04-6713 A4B1321203			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/20/2004 14:48	07/20/2004 15:07			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

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NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	VBLK88 A04-6713 A4B1321202	VBLK89 A04-6713 A4B1321204			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/20/2004 14:11	07/20/2004 14:30			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

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NA = Not Applicable

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Y2133.08-PILE COMP A04-6713 A4671303	Y2133.08-TP3-0'-3' A04-6713 A4671301	Y2133.08-TP4-0'-3' A04-6713 A4671302		
Sample Date	07/15/2004 15:55	07/15/2004 15:45	07/15/2004 15:50		
Received Date	07/16/2004 11:53	07/16/2004 11:53	07/16/2004 11:53		
Extraction Date	07/19/2004 07:00	07/19/2004 07:00	07/19/2004 07:00		
Analysis Date	07/21/2004 17:02	07/21/2004 15:14	07/21/2004 15:41		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	5.0	5.0	5.0		
Sample wt/vol	30.47 GRAMS	30.7 GRAMS	30.37 GRAMS		
% Dry	78.40	86.62	82.41		

NA = Not Applicable

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A04-6713 A4B1303001	Y2133.08-TP4-0'-3' A04-6713 A4671302MS	Y2133.08-TP4-0'-3' A04-6713 A4671302SD		
Sample Date		07/15/2004 15:50	07/15/2004 15:50		
Received Date		07/16/2004 11:53	07/16/2004 11:53		
Extraction Date	07/19/2004 07:00	07/19/2004 07:00	07/19/2004 07:00		
Analysis Date	07/19/2004 19:12	07/21/2004 16:08	07/21/2004 16:35		
Extraction HT Met?	-	YES	YES		
Analytical HT Met?	-	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	5.0	5.0		
Sample wt/vol	30.23 GRAMS	30.78 GRAMS	30.42 GRAMS		
% Dry	100.00	82.41	82.41		

NA = Not Applicable

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	S Blank A04-6713 A4B1303002				
Sample Date					
Received Date					
Extraction Date	07/19/2004 07:00				
Analysis Date	07/19/2004 19:39				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.32 GRAMS				
% Dry	100.00				

NA = Not Applicable

METHOD 8081 - TCL PESTICIDES

Client Sample ID Job No & Lab Sample ID	Y2133.08-PILE COMP A04-6713 A4671303	Y2133.08-TP3-0'-3' A04-6713 A4671301	Y2133.08-TP4-0'-3' A04-6713 A4671302		
Sample Date	07/15/2004 15:55	07/15/2004 15:45	07/15/2004 15:50		
Received Date	07/16/2004 11:53	07/16/2004 11:53	07/16/2004 11:53		
Extraction Date	07/19/2004 07:00	07/19/2004 07:00	07/19/2004 07:00		
Analysis Date	07/23/2004 00:27	07/22/2004 22:05	07/22/2004 23:52		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	30.58 GRAMS	30.0 GRAMS	30.04 GRAMS		
% Dry	78.40	86.62	82.41		

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Y2133.08-PILE COMP A04-6713 A4671303	Y2133.08-TP3-0'-3' A04-6713 A4671301	Y2133.08-TP4-0'-3' A04-6713 A4671302		
Sample Date	07/15/2004 15:55	07/15/2004 15:45	07/15/2004 15:50		
Received Date	07/16/2004 11:53	07/16/2004 11:53	07/16/2004 11:53		
Extraction Date	07/19/2004 07:00	07/19/2004 07:00	07/19/2004 07:00		
Analysis Date	07/20/2004 11:33	07/20/2004 11:07	07/20/2004 11:20		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	30.11 GRAMS	30.99 GRAMS	30.49 GRAMS		
% Dry	78.40	86.62	82.41		

METHOD 8151 - TCL HERBICIDES

Client Sample ID Job No & Lab Sample ID	Y2133.08-PILE COMP A04-6713 A4671303	Y2133.08-TP3-0'-3' A04-6713 A4671301	Y2133.08-TP4-0'-3' A04-6713 A4671302		
Sample Date	07/15/2004 15:55	07/15/2004 15:45	07/15/2004 15:50		
Received Date	07/16/2004 11:53	07/16/2004 11:53	07/16/2004 11:53		
Extraction Date	07/19/2004 07:00	07/19/2004 07:00	07/19/2004 07:00		
Analysis Date	07/22/2004 00:23	07/21/2004 22:50	07/21/2004 23:36		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	30.6 GRAMS	30.24 GRAMS	30.87 GRAMS		
% Dry	78.40	86.62	82.41		

62/72

NA = Not Applicable

METHOD 8081 - TCL PESTICIDES

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A04-6713 A4B1303201	Matrix Spike Blank A04-6713 A4B1303401	Matrix Spike Blank A04-6713 A4B1303501	Matrix Spike Blk Dup A04-6713 A4B1303502	Y2133.08-TP3-0'-3' A04-6713 A4671301MS
Sample Date					07/15/2004 15:45
Received Date					07/16/2004 11:53
Extraction Date	07/19/2004 07:00				07/19/2004 07:00
Analysis Date	07/21/2004 20:20				07/22/2004 22:41
Extraction HT Met?	-	NA	NA	NA	YES
Analytical HT Met?	-				YES
Sample Matrix	SOIL LOW				SOIL LOW
Dilution Factor	1.0				1.0
Sample wt/vol	30.67 GRAMS				30.18 GRAMS
% Dry	100.00				86.62

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A04-6713 A4B1303201	Matrix Spike Blank A04-6713 A4B1303401	Matrix Spike Blank A04-6713 A4B1303501	Matrix Spike Blk Dup A04-6713 A4B1303502	Y2133.08-TP3-0'-3' A04-6713 A4671301MS
Sample Date					
Received Date					
Extraction Date		07/19/2004 07:00			
Analysis Date		07/20/2004 10:29			
Extraction HT Met?	NA	-	NA	NA	NA
Analytical HT Met?		-			
Sample Matrix		SOIL LOW			
Dilution Factor		1.0			
Sample wt/vol		30.46 GRAMS			
% Dry		100.00			

METHOD 8151 - TCL HERBICIDES

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A04-6713 A4B1303201	Matrix Spike Blank A04-6713 A4B1303401	Matrix Spike Blank A04-6713 A4B1303501	Matrix Spike Blk Dup A04-6713 A4B1303502	Y2133.08-TP3-0'-3' A04-6713 A4671301MS
Sample Date					
Received Date					
Extraction Date			07/19/2004 07:00	07/19/2004 07:00	
Analysis Date			07/21/2004 20:31	07/21/2004 21:18	
Extraction HT Met?	NA	NA	-	-	NA
Analytical HT Met?			-	-	
Sample Matrix			SOIL LOW	SOIL LOW	
Dilution Factor			1.0	1.0	
Sample wt/vol			30.78 GRAMS	30.08 GRAMS	
% Dry			100.00	100.00	

NA = Not Applicable

METHOD 8081 - TCL PESTICIDES

Client Sample ID Job No & Lab Sample ID	Y2133.08-TP3-0'-3' A04-6713 A4671301SD				
Sample Date	07/15/2004 15:45				
Received Date	07/16/2004 11:53				
Extraction Date	07/19/2004 07:00				
Analysis Date	07/22/2004 23:16				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.66 GRAMS				
% Dry	86.62				

64/72

NA = Not Applicable

METHOD 8081 - TCL PESTICIDES

Client Sample ID Job No & Lab Sample ID	Method Blank A04-6713 A4B1303202	Method Blank A04-6713 A4B1303402	Method Blank A04-6713 A4B1303503		
Sample Date					
Received Date					
Extraction Date	07/19/2004 07:00				
Analysis Date	07/21/2004 20:56				
Extraction HT Met?	-	NA	NA		
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.35 GRAMS				
% Dry	100.00				

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A04-6713 A4B1303202	Method Blank A04-6713 A4B1303402	Method Blank A04-6713 A4B1303503		
Sample Date					
Received Date					
Extraction Date		07/19/2004 07:00			
Analysis Date		07/20/2004 10:42			
Extraction HT Met?	NA	-	NA		
Analytical HT Met?		-			
Sample Matrix		SOIL LOW			
Dilution Factor		1.0			
Sample wt/vol		30.08 GRAMS			
% Dry		100.00			

METHOD 8151 - TCL HERBICIDES

Client Sample ID Job No & Lab Sample ID	Method Blank A04-6713 A4B1303202	Method Blank A04-6713 A4B1303402	Method Blank A04-6713 A4B1303503		
Sample Date					
Received Date					
Extraction Date			07/19/2004 07:00		
Analysis Date			07/21/2004 22:04		
Extraction HT Met?	NA	NA	-		
Analytical HT Met?			-		
Sample Matrix			SOIL LOW		
Dilution Factor			1.0		
Sample wt/vol			30.84 GRAMS		
% Dry			100.00		

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A4671303	Y2133.08-PILE COMP	MG/KG	Aluminum - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Antimony - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Arsenic - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Beryllium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Calcium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Cobalt - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Copper - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Iron - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Magnesium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Manganese - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/16 17:41	Yes	SOIL
		MG/KG	Nickel - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Potassium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Sodium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Thallium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Vanadium - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
		MG/KG	Zinc - Total	6010	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/20 20:38	Yes	SOIL
A4671301	Y2133.08-TP3-0'-3'	MG/KG	Aluminum - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Antimony - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Arsenic - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Beryllium - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Calcium - Total	6010	5.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/21 18:35	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Cobalt - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Copper - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Iron - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Magnesium - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Manganese - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/16 17:39	Yes	SOIL
		MG/KG	Nickel - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Potassium - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Sodium - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Thallium - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Vanadium - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
		MG/KG	Zinc - Total	6010	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/20 20:29	Yes	SOIL
A4671302	Y2133.08-TP4-0'-3'	MG/KG	Aluminum - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Antimony - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A4671302	Y2133.08-TP4-0'-3'	MG/KG	Arsenic - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Beryllium - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Calcium - Total	6010	5.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/21 18:40	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Cobalt - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Copper - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Iron - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Magnesium - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Manganese - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/16 17:40	Yes	SOIL
		MG/KG	Nickel - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Potassium - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Sodium - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Thallium - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Vanadium - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL
		MG/KG	Zinc - Total	6010	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/20 20:34	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A4B1299102	Method Blank	MG/KG	Mercury - Total	7471	1.00	-	- 11:53	NA	NA	07/16 18:47	Yes	SOIL
A4B1308702	Method Blank	MG/KG	Aluminum - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Antimony - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Arsenic - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Beryllium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Calcium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Cobalt - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Copper - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Iron - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Magnesium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Manganese - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Nickel - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Potassium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Sodium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Thallium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Vanadium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Zinc - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
A4B1299101	LCS	MG/KG	Mercury - Total	7471	1.00	-	- 11:53	NA	NA	07/16 17:49	Yes	SOIL
A4B1308701	LCS CLP Soils	MG/KG	Aluminum - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Antimony - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Arsenic - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Beryllium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Calcium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Cobalt - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Copper - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Iron - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Magnesium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Manganese - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Nickel - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Potassium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Sodium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Thallium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Vanadium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Zinc - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A4671303	Y2133.08-PILE COMP	UG/G	Cyanide - Total	9012A	1.00	07/15/2004 15:55	07/16 11:53	NA	NA	07/17 10:32	Yes	SOIL
A4671301	Y2133.08-TP3-0'-3'	UG/G	Cyanide - Total	9012A	1.00	07/15/2004 15:45	07/16 11:53	NA	NA	07/17 10:32	Yes	SOIL
A4671302	Y2133.08-TP4-0'-3'	UG/G	Cyanide - Total	9012A	1.00	07/15/2004 15:50	07/16 11:53	NA	NA	07/17 10:32	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A4B1301204	Method Blank	UG/G	Cyanide - Total	9012A	1.00	-	- 11:53	NA	NA	07/17 10:32	Yes	SOIL
A4B1301203	LCS	UG/G	Cyanide - Total	9012A	1.00	-	- 11:53	NA	NA	07/17 10:32	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT STL

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Watts Engineers	Project Manager: Andrew Klimek	Date: 7/15/04	Chain of Custody Number: 168846
Address: 3826 Main St	Telephone Number (Area Code)/Fax Number	Lab Number: STL, Buffalo	Page 1 of 1
City: Buffalo / State: NY / Zip Code: 14226	Site Contact: Matthew Holquist	Lab Contact: Jeff Yohe	
Project Name and Location (State): Gallagher Beach - Phase III, Buffalo, NY	Carrier/Waybill Number: hand deliver		
Contract/Purchase Order/Quote No.: [redacted] STL→ NY2A893617 1			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Hgs 8260 - VOC	Bgs 8270 - SVOC	and 8081 Pest	Bgs 8082 PCB	and 8151 Herb	2oz TCL Metals	Hgs 9012 Cyanide	Special Instructions/ Conditions of Receipt
Y2133.08-TP1-0'-2'	7/15/04	15:30				X	X						1	1	[redacted]	1	[redacted]	1	1	14 day turnaround
Y2133.08-TP1-2'-6'	7/15/04	15:35				X	X						1	1	[redacted]	1	[redacted]	1	1	14 day turnaround
Y2133.08-TP1-7'-9'	7/15/04	15:40				X	X						1	1	[redacted]	1	[redacted]	1	1	14 day turnaround
Y2133.08-TP3-0'-3'	7/15/04	15:45				X	X						1	1	[redacted]	1	[redacted]	1	1	7 day turnaround
Y2133.08-TP4-0'-3'	7/15/04	15:50				X	X						1	1	[redacted]	1	[redacted]	1	1	7 day turnaround
Y2133.08-Pile Composite	7/15/04	15:55				X	X						1	1	[redacted]	1	[redacted]	1	1	7 day turnaround

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other see Special Instructions

QC Requirements (Specify)

1. Relinquished By: Matthew E Holquist	Date: 7/16/04	Time: 11:53	1. Received By: [signature]	Date: 07/16/04	Time: 11:53
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A04-6714

STL Project#: NY2A893617
Site Name: Gallagher Beach
Task: Gallagher Beach

Mr. Andrew Klimek
Watts Engineers
3826 Main St.
Buffalo, NY 14226

STL Buffalo

Jeff R. Yohe
Project Manager

07/28/2004

ANALYTICAL REPORT

Job#: A04-6714

STL Project#: NY2A893617
Site Name: Gallagher Beach
Task: Gallagher Beach

Mr. Andrew Klimek
Watts Engineers
3826 Main St.
Buffalo, NY 14226

STL Buffalo

Jeff R. Yohe
Project Manager

07/28/2004

STL Buffalo
Current Certifications

STATE	Program	Cert # / Lab ID
A2LA (ISO 17025)	SDWA, CWA, RCRA	0732-01
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Canada	GENERAL	SCC 1007-15/10B
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-4650
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390
Wyoming UST	UST	NA

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A4671401	Y2133.08-TP1-0'-2'	07/15/2004	15:30	07/16/2004	11:53
A4671402	Y2133.08-TP1-2'-6'	07/15/2004	15:35	07/16/2004	11:53
A4671403	Y2133.08-TP1-7'-9'	07/15/2004	15:40	07/16/2004	11:53

METHODS SUMMARY

Job#: A04-6714

STL Project#: NY2A893617
Site Name: Gallagher Beach

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - TCL HERBICIDES	SW8463 8151
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010
Cyanide - Total	SW8463 9012A

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A04-6714

STL Project#: NY2A893617
Site Name: Gallagher Beach

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-6714
Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The analyte Methylene Chloride was detected in the Method Blank A4B1321202 (VBLK88) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Bromomethane was detected in the Method Blank A4B1321204 (VBLK89) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For method 8081, the recovery of surrogate Decachlorobiphenyl in sample Y2133.08-TP1-7'-9' is outside of established quality control limits due to the sample matrix. The recovery of surrogate Tetrachloro-m-xylene is within quality control limits; no corrective action is required.

All sample extract required treatment with Copper prior to analysis due to the presence of elemental Sulfur, and were florisil treated to minimize matrix interferences.

For method 8151, the recoveries of several compounds in the Matrix Spike Blank are decreased and exceed QC limits due to an error during preparation. All batch surrogate recoveries and the sample Matrix Spike and Matrix Spike Duplicate recoveries for this batch are compliant. From these results, it is the opinion of the laboratory that the sample data is uneffected by the Matrix Blank Spike anomaly.

Metals Data

The LCS CLP (Lot D038540) recovery for Antimony fell outside of the quality control limits, however, the LCS value was within the manufacturer's recommended acceptance limits. No corrective action was taken.

The ICSAB recovery for Selenium was above quality control limits. However, since target analytes were non-detect in the samples and the high recoveries would yield a high bias, no further corrective action was necessary.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

****

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
Y2133.08-TP1-0'-2'	A4671401	8270	5.00	012
Y2133.08-TP1-2'-6'	A4671402	8081	2.00	002
Y2133.08-TP1-2'-6'	A4671402	8082	5.00	008
Y2133.08-TP1-2'-6'	A4671402	8270	20.00	012
Y2133.08-TP1-2'-6'	A4671402	Calcium - Total	5.00	008
Y2133.08-TP1-7'-9'	A4671403	8081	4.00	002
Y2133.08-TP1-7'-9'	A4671403	8082	5.00	008
Y2133.08-TP1-7'-9'	A4671403	8270	5.00	012
Y2133.08-TP1-7'-9'	A4671403	Mercury - Total	10.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Date: 07/28/2004
Time: 15:15:03

Gallagher Beach
Gallagher Beach
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		Y2133.08-TP1-0'-2'		Y2133.08-TP1-2'-6'		Y2133.08-TP1-7'-9'			
Job No / Lab ID		A04-6714	A4671401	A04-6714	A4671402	A04-6714	A4671403		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	28	69	28	66	39	NA	
Benzene	UG/KG	ND	6	ND	6	ND	8	NA	
Bromodichloromethane	UG/KG	ND	6	ND	6	ND	8	NA	
Bromoform	UG/KG	ND	6	ND	6	ND	8	NA	
Bromomethane	UG/KG	ND	6	ND	6	ND	8	NA	
2-Butanone	UG/KG	ND	28	ND	28	12 J	39	NA	
Carbon Disulfide	UG/KG	ND	6	ND	6	ND	8	NA	
Carbon Tetrachloride	UG/KG	ND	6	ND	6	ND	8	NA	
Chlorobenzene	UG/KG	ND	6	ND	6	16	8	NA	
Chloroethane	UG/KG	ND	6	ND	6	ND	8	NA	
Chloroform	UG/KG	ND	6	ND	6	ND	8	NA	
Chloromethane	UG/KG	ND	6	ND	6	ND	8	NA	
Cyclohexane	UG/KG	ND	6	ND	6	ND	8	NA	
1,2-Dibromoethane	UG/KG	ND	6	ND	6	ND	8	NA	
Dibromochloromethane	UG/KG	ND	6	ND	6	ND	8	NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND	6	ND	8	NA	
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	8	NA	
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	8	NA	
1,4-Dichlorobenzene	UG/KG	ND	6	ND	6	2 J	8	NA	
Dichlorodifluoromethane	UG/KG	ND	6	ND	6	ND	8	NA	
1,1-Dichloroethane	UG/KG	ND	6	ND	6	ND	8	NA	
1,2-Dichloroethane	UG/KG	ND	6	ND	6	ND	8	NA	
1,1-Dichloroethene	UG/KG	ND	6	ND	6	ND	8	NA	
cis-1,2-Dichloroethene	UG/KG	ND	6	ND	6	ND	8	NA	
trans-1,2-Dichloroethene	UG/KG	ND	6	ND	6	ND	8	NA	
1,2-Dichloropropane	UG/KG	ND	6	ND	6	ND	8	NA	
cis-1,3-Dichloropropene	UG/KG	ND	6	ND	6	ND	8	NA	
trans-1,3-Dichloropropene	UG/KG	ND	6	ND	6	ND	8	NA	
Ethylbenzene	UG/KG	ND	6	ND	6	ND	8	NA	
2-Hexanone	UG/KG	ND	28	ND	28	ND	39	NA	
Isopropylbenzene	UG/KG	ND	6	ND	6	ND	8	NA	
Methyl acetate	UG/KG	ND	6	ND	6	ND	8	NA	
Methylcyclohexane	UG/KG	ND	6	ND	6	ND	8	NA	
Methylene chloride	UG/KG	9	6	13 B	6	15	8	NA	
4-Methyl-2-pentanone	UG/KG	ND	28	ND	28	ND	39	NA	
Methyl tert butyl ether	UG/KG	ND	6	ND	6	ND	8	NA	
Styrene	UG/KG	ND	6	ND	6	ND	8	NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	6	ND	6	ND	8	NA	
Tetrachloroethene	UG/KG	ND	6	ND	6	ND	8	NA	
Toluene	UG/KG	ND	6	ND	6	ND	8	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	ND	8	NA	
1,1,1-Trichloroethane	UG/KG	ND	6	ND	6	ND	8	NA	
1,1,2-Trichloroethane	UG/KG	ND	6	ND	6	ND	8	NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		Y2133.08-TP1-0'-2'		Y2133.08-TP1-2'-6'		Y2133.08-TP1-7'-9'			
Job No	Lab ID	A04-6714	A4671401	A04-6714	A4671402	A04-6714	A4671403		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	6	ND	6	ND	8	NA	
Trichlorofluoromethane	UG/KG	ND	6	ND	6	ND	8	NA	
Trichloroethene	UG/KG	ND	6	ND	6	ND	8	NA	
Vinyl acetate	UG/KG	ND	28	ND	28	ND	39	NA	
Vinyl chloride	UG/KG	ND	11	ND	11	ND	16	NA	
Total Xylenes	UG/KG	ND	17	ND	17	ND	24	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	96	50-200	91	50-200	53	50-200	NA	
1,4-Difluorobenzene	%	95	50-200	92	50-200	52	50-200	NA	
1,4-Dichlorobenzene-D4	%	97	50-200	74	50-200	52	50-200	NA	
Toluene-D8	%	82	71-125	84	71-125	80	71-125	NA	
p-Bromofluorobenzene	%	80	68-124	75	68-124	82	68-124	NA	
1,2-Dichloroethane-D4	%	88	61-136	81	61-136	97	61-136	NA	

11\72

NA = Not Applicable ND = Not Detected

Client ID		Y2133.08-TP1-0'-2'		Y2133.08-TP1-2'-6'		Y2133.08-TP1-7'-9'			
Job No	Lab ID	A04-6714	A4671401	A04-6714	A4671402	A04-6714	A4671403		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Acenaphthylene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Acetophenone	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Anthracene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Atrazine	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Benzaldehyde	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Benzo(a)anthracene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Benzo(b)fluoranthene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Benzo(k)fluoranthene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Benzo(ghi)perylene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Benzo(a)pyrene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Benzoic acid	UG/KG	ND	10000	ND	38000	ND	12000	NA	
Benzyl alcohol	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Biphenyl	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Bis(2-chloroethoxy) methane	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Bis(2-chloroethyl) ether	UG/KG	ND	2100	ND	7800	ND	2600	NA	
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Bis(2-ethylhexyl) phthalate	UG/KG	ND	2100	ND	7800	ND	2600	NA	
4-Bromophenyl phenyl ether	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Butyl benzyl phthalate	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Caprolactam	UG/KG	ND	2100	ND	7800	ND	2600	NA	
4-Chloroaniline	UG/KG	ND	2100	ND	7800	ND	2600	NA	
4-Chloro-3-methylphenol	UG/KG	ND	2100	ND	7800	ND	2600	NA	
2-Chloronaphthalene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
2-Chlorophenol	UG/KG	ND	2100	ND	7800	ND	2600	NA	
4-Chlorophenyl phenyl ether	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Chrysene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Dibenzo(a,h)anthracene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Dibenzofuran	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Di-n-butyl phthalate	UG/KG	ND	2100	ND	7800	ND	2600	NA	
1,2-Dichlorobenzene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
1,3-Dichlorobenzene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
1,4-Dichlorobenzene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
3,3'-Dichlorobenzidine	UG/KG	ND	4200	ND	16000	ND	5100	NA	
2,4-Dichlorophenol	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Diethyl phthalate	UG/KG	ND	2100	ND	7800	ND	2600	NA	
2,4-Dimethylphenol	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Dimethyl phthalate	UG/KG	ND	2100	ND	7800	ND	2600	NA	
4,6-Dinitro-2-methylphenol	UG/KG	ND	10000	ND	38000	ND	12000	NA	
2,4-Dinitrophenol	UG/KG	ND	10000	ND	38000	ND	12000	NA	
2,4-Dinitrotoluene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
2,6-Dinitrotoluene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Di-n-octyl phthalate	UG/KG	ND	2800	ND	10000	ND	3400	NA	

NA = Not Applicable ND = Not Detected

Client ID		Y2133.08-TP1-0'-2'		Y2133.08-TP1-2'-6'		Y2133.08-TP1-7'-9'			
Job No / Lab ID		A04-6714	A4671401	A04-6714	A4671402	A04-6714	A4671403		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/KG	ND	2100	3700 J	7800	ND	2600	NA	
Fluorene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Hexachlorobenzene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Hexachlorobutadiene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Hexachlorocyclopentadiene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Hexachloroethane	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Isophorone	UG/KG	ND	2100	ND	7800	ND	2600	NA	
2-Methylnaphthalene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
2-Methylphenol	UG/KG	ND	2100	ND	7800	ND	2600	NA	
4-Methylphenol	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Naphthalene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
2-Nitroaniline	UG/KG	ND	10000	ND	38000	ND	12000	NA	
3-Nitroaniline	UG/KG	ND	10000	ND	38000	ND	12000	NA	
4-Nitroaniline	UG/KG	ND	10000	ND	38000	ND	12000	NA	
Nitrobenzene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
2-Nitrophenol	UG/KG	ND	2100	ND	7800	ND	2600	NA	
4-Nitrophenol	UG/KG	ND	10000	ND	38000	ND	12000	NA	
N-nitrosodiphenylamine	UG/KG	ND	2100	ND	7800	ND	2600	NA	
N-Nitroso-Di-n-propylamine	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Pentachlorophenol	UG/KG	ND	10000	ND	38000	ND	12000	NA	
Phenanthrene	UG/KG	ND	2100	2800 J	7800	ND	2600	NA	
Phenol	UG/KG	ND	2100	ND	7800	ND	2600	NA	
Pyrene	UG/KG	ND	2100	3700 J	7800	ND	2600	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	2100	ND	7800	ND	2600	NA	
2,4,5-Trichlorophenol	UG/KG	ND	5100	ND	19000	ND	6200	NA	
2,4,6-Trichlorophenol	UG/KG	ND	2100	ND	7800	ND	2600	NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	93	50-200	98	50-200	99	50-200	NA	
Naphthalene-D8	%	93	50-200	95	50-200	98	50-200	NA	
Acenaphthene-D10	%	91	50-200	95	50-200	92	50-200	NA	
Phenanthrene-D10	%	84	50-200	87	50-200	81	50-200	NA	
Chrysene-D12	%	83	50-200	83	50-200	76	50-200	NA	
Perylene-D12	%	110	50-200	111	50-200	108	50-200	NA	
Nitrobenzene-D5	%	66	30-127	57	30-127	72	30-127	NA	
2-Fluorobiphenyl	%	80	36-138	74	36-138	86	36-138	NA	
p-Terphenyl-d14	%	99	41-167	107	41-167	102	41-167	NA	
Phenol-D5	%	72	34-120	66	34-120	76	34-120	NA	
2-Fluorophenol	%	66	26-120	70	26-120	75	26-120	NA	
2,4,6-Tribromophenol	%	87	42-140	69	42-140	92	42-140	NA	

NA = Not Applicable ND = Not Detected

Date: 07/28/2004
Time: 15:15:21

Gallagher Beach
Gallagher Beach
METHOD 8081 - TCL PESTICIDES

Rept: AN0326

Client ID		Y2133.08-TP1-0'-2'		Y2133.08-TP1-2'-6'		Y2133.08-TP1-7'-9'			
Job No	Lab ID	A04-6714	A4671401	A04-6714	A4671402	A04-6714	A4671403		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
alpha-BHC	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
beta-BHC	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
gamma-BHC (Lindane)	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
delta-BHC	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
Chlordane	UG/KG	ND	21	ND	39	ND	100	NA	
4,4'-DDD	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
4,4'-DDE	UG/KG	ND	2.1	4.8	3.9	11	10	NA	
4,4'-DDT	UG/KG	3.6	2.1	12	3.9	19	10	NA	
Dieldrin	UG/KG	4.3	2.1	2.9 J	3.9	ND	10	NA	
Endosulfan I	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
Endosulfan II	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
Endosulfan Sulfate	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
Endrin	UG/KG	1.0 J	2.1	1.2 J	3.9	3.3 J	10	NA	
Endrin aldehyde	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
Heptachlor	UG/KG	ND	2.1	0.93 J	3.9	3.1 J	10	NA	
Heptachlor epoxide	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
Methoxychlor	UG/KG	ND	2.1	ND	3.9	ND	10	NA	
Toxaphene	UG/KG	ND	42	ND	76	ND	210	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	51	38-132	39	38-132	74	38-132	NA	
Decachlorobiphenyl	%	134	46-151	130	46-151	158 *	46-151	NA	

14\72

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/28/2004
Time: 15:15:21

Gallagher Beach
Gallagher Beach
METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID		Y2133.08-TP1-0'-2'		Y2133.08-TP1-2'-6'		Y2133.08-TP1-7'-9'			
Job No	Lab ID	A04-6714	A4671401	A04-6714	A4671402	A04-6714	A4671403		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	21	ND	96	ND	130	NA	
Aroclor 1221	UG/KG	ND	21	ND	96	ND	130	NA	
Aroclor 1232	UG/KG	ND	21	ND	96	ND	130	NA	
Aroclor 1242	UG/KG	ND	21	ND	96	ND	130	NA	
Aroclor 1248	UG/KG	22	21	240	96	360	130	NA	
Aroclor 1254	UG/KG	40	21	94 J	96	320	130	NA	
Aroclor 1260	UG/KG	18 J	21	ND	96	170	130	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	78	32-148	75	32-148	65	32-148	NA	
Decachlorobiphenyl	%	76	36-153	45	36-153	50	36-153	NA	

15\72

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/28/2004
Time: 15:15:21

Gallagher Beach
Gallagher Beach
METHOD 8151 - TCL HERBICIDES

Rept: AN0326

Client ID		Y2133.08-TP1-0'-2'		Y2133.08-TP1-2'-6'		Y2133.08-TP1-7'-9'			
Job No	Lab ID	A04-6714	A4671401	A04-6714	A4671402	A04-6714	A4671403		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
2,4-D	UG/KG	ND	22	ND	20	ND	26	NA	
2,4,5-TP (Silvex)	UG/KG	ND	22	ND	20	ND	26	NA	
2,4,5-T	UG/KG	ND	22	ND	20	ND	26	NA	
SURROGATE(S)									
Dichlorophenyl Acetic Acid	%	88	10-147	85	10-147	70	10-147	NA	

16\72

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/28/2004
Time: 15:15:25

Gallagher Beach
Gallagher Beach
TOTAL TCL METALS

Rept: AN0326

Client ID		Y2133.08-TP1-0'-2'		Y2133.08-TP1-2'-6'		Y2133.08-TP1-7'-9'			
Job No	Lab ID	A04-6714	A4671401	A04-6714	A4671402	A04-6714	A4671403		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/KG	16800	13.1	9300	11.5	15400	16.4	NA	
Antimony - Total	MG/KG	ND	19.6	ND	17.2	ND	24.6	NA	
Arsenic - Total	MG/KG	7.0	2.6	7.5	2.3	36.1	3.3	NA	
Barium - Total	MG/KG	82.2	0.65	107	0.57	146	0.82	NA	
Beryllium - Total	MG/KG	0.90	0.26	0.70	0.23	0.82	0.33	NA	
Cadmium - Total	MG/KG	1.0	0.26	1.1	0.23	7.4	0.33	NA	
Calcium - Total	MG/KG	14200	13.1	60500	57.5	23600	16.4	NA	
Chromium - Total	MG/KG	25.4	0.65	23.0	0.57	165	0.82	NA	
Cobalt - Total	MG/KG	13.0	0.65	4.8	0.57	15.7	0.82	NA	
Copper - Total	MG/KG	22.2	1.3	36.7	1.1	158	1.6	NA	
Iron - Total	MG/KG	29400	13.1	14500	11.5	46100	16.4	NA	
Lead - Total	MG/KG	24.2	1.3	223	1.1	248	1.6	NA	
Magnesium - Total	MG/KG	4670	26.1	21800	23.0	9420	32.8	NA	
Manganese - Total	MG/KG	568	0.26	456	0.23	545	0.33	NA	
Mercury - Total	MG/KG	0.060	0.027	0.56	0.026	2.4	0.30	NA	
Nickel - Total	MG/KG	33.9	0.65	13.1	0.57	50.4	0.82	NA	
Potassium - Total	MG/KG	1960	39.2	1800	34.5	2340	49.2	NA	
Selenium - Total	MG/KG	ND	5.2	ND	4.6	ND	6.6	NA	
Silver - Total	MG/KG	ND	0.65	ND	0.57	0.82	0.82	NA	
Sodium - Total	MG/KG	ND	183	277	161	266	230	NA	
Thallium - Total	MG/KG	ND	7.8	ND	6.9	ND	9.8	NA	
Vanadium - Total	MG/KG	27.8	0.65	17.8	0.57	28.4	0.82	NA	
Zinc - Total	MG/KG	103	2.6	165	2.3	555	3.3	NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/28/2004
Time: 15:15:28

Gallagher Beach
Gallagher Beach
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID		Y2133.08-TP1-0'-2'		Y2133.08-TP1-2'-6'		Y2133.08-TP1-7'-9'			
Job No	Lab ID	A04-6714	A4671401	A04-6714	A4671402	A04-6714	A4671403		
Sample Date		07/15/2004		07/15/2004		07/15/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	UG/G	ND	1.0	ND	1.0	ND	1.0	NA	

18\72

NA = Not Applicable ND = Not Detected

STL Buffalo

Batch Quality Control Data

Date: 07/28/2004 15:19:31
Batch No: A4B13212

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A4654901 A4654901MS A4654901SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
METHOD 8260 - VOLATILE ORGANIC												
Methylene chloride	UG/KG	15.7	64.0	64.3	75.1	76.7	64	63	64	2	20.0	49-127

20\72

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date: 07/28/2004 15:19:31
Batch No: A4B13030

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A4671302 A4671302MS A4671302SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS												
Phenol	UG/KG	0	2600	2349	3942	3988	66	59	63	11	25.0	35-120
2-Chlorophenol	UG/KG	0	2679	2458	3942	3988	68	62	65	9	26.0	34-118
1,4-Dichlorobenzene	UG/KG	0	2556	2449	3942	3988	65	61	63	6	30.0	30-120
N-Nitroso-Di-n-propylamine	UG/KG	0	2827	2771	3942	3988	72	69	71	4	20.0	42-131
1,2,4-Trichlorobenzene	UG/KG	0	2721	2700	3942	3988	69	68	69	1	24.0	32-120
4-Chloro-3-methylphenol	UG/KG	0	2973	2830	3942	3988	75	71	73	5	20.0	45-135
Acenaphthene	UG/KG	0	3140	3249	3942	3988	80	81	81	1	16.0	49-131
4-Nitrophenol	UG/KG	0	506	527	3942	3988	13 *	13 *	13	0	25.0	36-142
2,4-Dinitrotoluene	UG/KG	0	2812	2841	3942	3988	71	71	71	0	19.0	45-138
Pentachlorophenol	UG/KG	0	1317	1791	3942	3988	33	45	39	31 *	27.0	28-135
Pyrene	UG/KG	670	4341	4737	3942	3988	93	102	98	9	25.0	48-154

21\72

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date: 07/28/2004 15:19:31
Batch No: A4B13069

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A4662605 A4662605MS A4662605SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
METHOD 8082 - POLYCHLORINATED BIPHENYLS												
Aroclor 1254	UG/KG	0	173	185	182	185	95	100	98	5	30.0	52-153
Total Polychlorinated Biphenyls (8082)	UG/KG	0	173	185	182	185	95	100	98	5	30.0	52-153

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Date: 07/28/2004 15:19:31
Batch No: A4B13032

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A4671301 A4671301MS A4671301SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
METHOD 8081 - TCL PESTICIDES												
Aldrin	UG/KG	0.461	9.21	11.2	19.1	18.8	46 *	57	52	21	30.0	48-128
alpha-BHC	UG/KG	0	9.25	9.97	19.1	18.8	48	53	51	10	30.0	47-123
beta-BHC	UG/KG	6.54	17.5	19.3	19.1	18.8	58	68	63	16	30.0	56-129
delta-BHC	UG/KG	2.50	11.8	14.9	19.1	18.8	49	66	58	30	30.0	42-127
gamma-BHC (Lindane)	UG/KG	0	13.1	13.7	19.1	18.8	69	73	71	6	30.0	42-136
4,4'-DDD	UG/KG	2.88	12.8	14.2	19.1	18.8	52	60	56	14	30.0	42-133
4,4'-DDE	UG/KG	0	14.7	16.5	19.1	18.8	77	88	83	13	30.0	44-136
4,4'-DDT	UG/KG	8.81	18.4	20.5	19.1	18.8	50	62	56	21	30.0	49-148
Dieldrin	UG/KG	0.692	13.5	14.6	19.1	18.8	67	74	71	10	30.0	51-132
Endosulfan I	UG/KG	0	11.0	12.8	19.1	18.8	58	68	63	16	30.0	42-132
Endosulfan II	UG/KG	0	8.18	9.45	19.1	18.8	43 *	50	47	15	30.0	44-135
Endosulfan Sulfate	UG/KG	11.9	6.12	7.94	19.1	18.8	-30 *	-21 *	-26	35 *	30.0	42-136
Endrin aldehyde	UG/KG	0	4.28	7.00	19.1	18.8	22 *	37	30	51 *	30.0	37-123
Endrin	UG/KG	0	15.5	17.9	19.1	18.8	81	96	89	17	30.0	41-132
Heptachlor	UG/KG	0.500	11.8	13.8	19.1	18.8	59	71	65	18	30.0	43-127
Heptachlor epoxide	UG/KG	0	9.79	11.9	19.1	18.8	51	63	57	21	30.0	45-128
Methoxychlor	UG/KG	2.46	17.7	11.9	19.1	18.8	80	50	65	46 *	30.0	42-140

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Date: 07/28/2004 15:19:31
Batch No: A4B13065

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A4672210 A4672210MS A4672210SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
LCS - ASP 2000 - METHOD 8151 - HERBICIDE												
2,4-D	UG/KG	0.631	78.4	67.8	80.6	80.1	96	84	90	13	50.0	11-128
2,4,5-TP (Silvex)	UG/KG	0	58.4	62.7	80.6	80.1	72	78	75	8	30.0	29-179
2,4,5-T	UG/KG	3.19	47.4	53.8	80.6	80.1	55	63	59	14	50.0	20-110

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date: 07/28/2004 15:19:31
Batch No: A4B12991

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A4670701 A4670701MS A4670701SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
MERCURY ANALYSIS TOTAL MERCURY	MG/KG	0.0656	0.515	0.464	0.418	0.434	108	92	100	16	20.0	80-120

25\72

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date: 07/28/2004 15:19:31
Batch No: A4B12991

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A4671901 A4671901MS A4671901SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
MERCURY ANALYSIS TOTAL MERCURY	MG/KG	1.24	2.00	1.43	0.344	0.351	223 *	56 *	140	120 *	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date: 07/28/2004 15:19:31
Batch No: A4B13166

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A4655408 A4655408MS

Analyte	Units of Measure	Concentration		Spike Amount	% Recovery MS	QC LIMITS
		Sample	Matrix Spike			
CYANIDE ANALYSIS METHOD 335.4 - TOTAL CYANIDE	MG/L	0.447	0.514	0.100	67 *	85-115

27\72

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A4660307 A4660307MS

Analyte	Units of Measure	Concentration		Spike Amount	% Recovery MS	QC LIMITS
		Sample	Matrix Spike			
CYANIDE ANALYSIS METHOD 9012 - TOTAL CYANIDE	MG/L	0	0.0942	0.100	94	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Date: 07/28/2004
Time: 15:15:35

Gallagher Beach
Gallagher Beach
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		VBLK88		VBLK89					
Job No	Lab ID	A04-6714	A4B1321202	A04-6714	A4B1321204				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	NA		NA	
Benzene	UG/KG	ND	5	ND	5	NA		NA	
Bromodichloromethane	UG/KG	ND	5	ND	5	NA		NA	
Bromoform	UG/KG	ND	5	ND	5	NA		NA	
Bromomethane	UG/KG	ND	5	1 J	5	NA		NA	
2-Butanone	UG/KG	ND	25	ND	25	NA		NA	
Carbon Disulfide	UG/KG	ND	5	ND	5	NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	ND	5	NA		NA	
Chlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
Chloroethane	UG/KG	ND	5	ND	5	NA		NA	
Chloroform	UG/KG	ND	5	ND	5	NA		NA	
Chloromethane	UG/KG	ND	5	ND	5	NA		NA	
Cyclohexane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dibromoethane	UG/KG	ND	5	ND	5	NA		NA	
Dibromochloromethane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
Dichlorodifluoromethane	UG/KG	ND	5	ND	5	NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,1-Dichloroethene	UG/KG	ND	5	ND	5	NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichloropropane	UG/KG	ND	5	ND	5	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	5	ND	5	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	NA		NA	
Ethylbenzene	UG/KG	ND	5	ND	5	NA		NA	
2-Hexanone	UG/KG	ND	25	ND	25	NA		NA	
Isopropylbenzene	UG/KG	ND	5	ND	5	NA		NA	
Methyl acetate	UG/KG	ND	5	ND	5	NA		NA	
Methylcyclohexane	UG/KG	ND	5	ND	5	NA		NA	
Methylene chloride	UG/KG	4 J	5	ND	5	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	25	ND	25	NA		NA	
Methyl tert butyl ether	UG/KG	ND	5	ND	5	NA		NA	
Styrene	UG/KG	ND	5	ND	5	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	ND	5	NA		NA	
Tetrachloroethene	UG/KG	ND	5	ND	5	NA		NA	
Toluene	UG/KG	ND	5	ND	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	5	ND	5	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		VBLK88		VBLK89					
Job No	Lab ID	A04-6714	A4B1321202	A04-6714	A4B1321204				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	5	ND	5	NA		NA	
Trichlorofluoromethane	UG/KG	ND	5	ND	5	NA		NA	
Trichloroethene	UG/KG	ND	5	ND	5	NA		NA	
Vinyl acetate	UG/KG	ND	25	ND	25	NA		NA	
Vinyl chloride	UG/KG	ND	10	ND	10	NA		NA	
Total Xylenes	UG/KG	ND	15	ND	15	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	79	50-200	81	50-200	NA		NA	
1,4-Difluorobenzene	%	80	50-200	81	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	58	50-200	80	50-200	NA		NA	
Toluene-D8	%	90	71-125	81	71-125	NA		NA	
p-Bromofluorobenzene	%	79	68-124	82	68-124	NA		NA	
1,2-Dichloroethane-D4	%	92	61-136	87	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB 88		MSB 89					
Job No	Lab ID	A04-6714	A4B1321201	A04-6714	A4B1321203				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	210	25	200	25	NA		NA	
Benzene	UG/KG	50	5	47	5	NA		NA	
Bromodichloromethane	UG/KG	50	5	46	5	NA		NA	
Bromoform	UG/KG	46	5	42	5	NA		NA	
Bromomethane	UG/KG	39	5	38 B	5	NA		NA	
2-Butanone	UG/KG	230	25	230	25	NA		NA	
Carbon Disulfide	UG/KG	38	5	35	5	NA		NA	
Carbon Tetrachloride	UG/KG	53	5	38	5	NA		NA	
Chlorobenzene	UG/KG	48	5	45	5	NA		NA	
Chloroethane	UG/KG	48	5	41	5	NA		NA	
Chloroform	UG/KG	51	5	48	5	NA		NA	
Chloromethane	UG/KG	50	5	44	5	NA		NA	
Cyclohexane	UG/KG	49	5	45	5	NA		NA	
1,2-Dibromoethane	UG/KG	46	5	46	5	NA		NA	
Dibromochloromethane	UG/KG	48	5	44	5	NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	42	5	45	5	NA		NA	
1,2-Dichlorobenzene	UG/KG	48	5	45	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	49	5	45	5	NA		NA	
1,4-Dichlorobenzene	UG/KG	48	5	46	5	NA		NA	
Dichlorodifluoromethane	UG/KG	42	5	39	5	NA		NA	
1,1-Dichloroethane	UG/KG	48	5	46	5	NA		NA	
1,2-Dichloroethane	UG/KG	50	5	48	5	NA		NA	
1,1-Dichloroethene	UG/KG	37	5	35	5	NA		NA	
cis-1,2-Dichloroethene	UG/KG	48	5	45	5	NA		NA	
trans-1,2-Dichloroethene	UG/KG	49	5	46	5	NA		NA	
1,2-Dichloropropane	UG/KG	49	5	47	5	NA		NA	
cis-1,3-Dichloropropene	UG/KG	49	5	47	5	NA		NA	
trans-1,3-Dichloropropene	UG/KG	46	5	45	5	NA		NA	
Ethylbenzene	UG/KG	50	5	46	5	NA		NA	
2-Hexanone	UG/KG	220	25	220	25	NA		NA	
Isopropylbenzene	UG/KG	50	5	44	5	NA		NA	
Methyl acetate	UG/KG	30	5	34	5	NA		NA	
Methylcyclohexane	UG/KG	50	5	45	5	NA		NA	
Methylene chloride	UG/KG	43 B	5	41	5	NA		NA	
4-Methyl-2-pentanone	UG/KG	230	25	230	25	NA		NA	
Methyl tert butyl ether	UG/KG	50	5	48	5	NA		NA	
Styrene	UG/KG	47	5	45	5	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	49	5	47	5	NA		NA	
Tetrachloroethene	UG/KG	48	5	44	5	NA		NA	
Toluene	UG/KG	48	5	45	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	39	5	48	5	NA		NA	
1,1,1-Trichloroethane	UG/KG	50	5	46	5	NA		NA	
1,1,2-Trichloroethane	UG/KG	47	5	46	5	NA		NA	

NA = Not Applicable ND = Not Detected

Date: 07/28/2004
Time: 15:15:35

Gallagher Beach
Gallagher Beach
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: ANO326

Client ID		MSB 88		MSB 89					
Job No	Lab ID	A04-6714	A4B1321201	A04-6714	A4B1321203				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	37	5	34	5	NA		NA	
Trichlorofluoromethane	UG/KG	52	5	44	5	NA		NA	
Trichloroethene	UG/KG	51	5	47	5	NA		NA	
Vinyl acetate	UG/KG	230	25	280	25	NA		NA	
Vinyl chloride	UG/KG	49	10	47	10	NA		NA	
Total Xylenes	UG/KG	140	15	130	15	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	94	50-200	101	50-200	NA		NA	
1,4-Difluorobenzene	%	90	50-200	98	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	93	50-200	106	50-200	NA		NA	
Toluene-D8	%	81	71-125	80	71-125	NA		NA	
p-Bromofluorobenzene	%	81	68-124	81	68-124	NA		NA	
1,2-Dichloroethane-D4	%	81	61-136	81	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID	S Blank							
Job No Lab ID	A04-6714	A4B1303002						
Sample Date								
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	330	NA		NA		NA	
Acenaphthylene	UG/KG	ND	330	NA		NA		NA	
Acetophenone	UG/KG	ND	330	NA		NA		NA	
Anthracene	UG/KG	ND	330	NA		NA		NA	
Atrazine	UG/KG	ND	330	NA		NA		NA	
Benzaldehyde	UG/KG	ND	330	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	330	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	330	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	330	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	330	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	330	NA		NA		NA	
Benzoic acid	UG/KG	ND	1600	NA		NA		NA	
Benzyl alcohol	UG/KG	ND	330	NA		NA		NA	
Biphenyl	UG/KG	ND	330	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/KG	ND	330	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/KG	ND	330	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	330	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/KG	ND	330	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/KG	ND	330	NA		NA		NA	
Butyl benzyl phthalate	UG/KG	ND	330	NA		NA		NA	
Caprolactam	UG/KG	ND	330	NA		NA		NA	
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
4-Chloro-3-methylphenol	UG/KG	ND	330	NA		NA		NA	
2-Chloronaphthalene	UG/KG	ND	330	NA		NA		NA	
2-Chlorophenol	UG/KG	ND	330	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/KG	ND	330	NA		NA		NA	
Chrysene	UG/KG	ND	330	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	330	NA		NA		NA	
Dibenzofuran	UG/KG	ND	330	NA		NA		NA	
Di-n-butyl phthalate	UG/KG	ND	330	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	330	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	330	NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	330	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/KG	ND	650	NA		NA		NA	
2,4-Dichlorophenol	UG/KG	ND	330	NA		NA		NA	
Diethyl phthalate	UG/KG	ND	330	NA		NA		NA	
2,4-Dimethylphenol	UG/KG	ND	330	NA		NA		NA	
Dimethyl phthalate	UG/KG	ND	330	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/KG	ND	1600	NA		NA		NA	
2,4-Dinitrophenol	UG/KG	ND	1600	NA		NA		NA	
2,4-Dinitrotoluene	UG/KG	ND	330	NA		NA		NA	
2,6-Dinitrotoluene	UG/KG	ND	330	NA		NA		NA	
Di-n-octyl phthalate	UG/KG	ND	440	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID	S Blank							
Job No Lab ID	A04-6714	A4B1303002						
Sample Date								
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/KG	ND	330	NA		NA		NA	
Fluorene	UG/KG	ND	330	NA		NA		NA	
Hexachlorobenzene	UG/KG	ND	330	NA		NA		NA	
Hexachlorobutadiene	UG/KG	ND	330	NA		NA		NA	
Hexachlorocyclopentadiene	UG/KG	ND	330	NA		NA		NA	
Hexachloroethane	UG/KG	ND	330	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	330	NA		NA		NA	
Isophorone	UG/KG	ND	330	NA		NA		NA	
2-Methylnaphthalene	UG/KG	ND	330	NA		NA		NA	
2-Methylphenol	UG/KG	ND	330	NA		NA		NA	
4-Methylphenol	UG/KG	ND	330	NA		NA		NA	
Naphthalene	UG/KG	ND	330	NA		NA		NA	
2-Nitroaniline	UG/KG	ND	1600	NA		NA		NA	
3-Nitroaniline	UG/KG	ND	1600	NA		NA		NA	
4-Nitroaniline	UG/KG	ND	1600	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
2-Nitrophenol	UG/KG	ND	330	NA		NA		NA	
4-Nitrophenol	UG/KG	ND	1600	NA		NA		NA	
N-nitrosodiphenylamine	UG/KG	ND	330	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/KG	ND	330	NA		NA		NA	
Pentachlorophenol	UG/KG	ND	1600	NA		NA		NA	
Phenanthrene	UG/KG	ND	330	NA		NA		NA	
Phenol	UG/KG	ND	330	NA		NA		NA	
Pyrene	UG/KG	ND	330	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	330	NA		NA		NA	
2,4,5-Trichlorophenol	UG/KG	ND	790	NA		NA		NA	
2,4,6-Trichlorophenol	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	107	50-200	NA		NA		NA	
Naphthalene-D8	%	110	50-200	NA		NA		NA	
Acenaphthene-D10	%	106	50-200	NA		NA		NA	
Phenanthrene-D10	%	97	50-200	NA		NA		NA	
Chrysene-D12	%	94	50-200	NA		NA		NA	
Perylene-D12	%	130	50-200	NA		NA		NA	
Nitrobenzene-D5	%	54	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	65	36-138	NA		NA		NA	
p-Terphenyl-d14	%	101	41-167	NA		NA		NA	
Phenol-D5	%	53	34-120	NA		NA		NA	
2-Fluorophenol	%	50	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	89	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A04-6714	A4B1303001						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	2700	330	NA		NA		NA	
Acenaphthylene	UG/KG	ND	330	NA		NA		NA	
Acetophenone	UG/KG	ND	330	NA		NA		NA	
Anthracene	UG/KG	ND	330	NA		NA		NA	
Atrazine	UG/KG	ND	330	NA		NA		NA	
Benzaldehyde	UG/KG	ND	330	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	330	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	330	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	330	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	330	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	330	NA		NA		NA	
Benzoic acid	UG/KG	ND	1600	NA		NA		NA	
Benzyl alcohol	UG/KG	ND	330	NA		NA		NA	
Biphenyl	UG/KG	ND	330	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/KG	ND	330	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/KG	ND	330	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	330	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/KG	ND	330	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/KG	ND	330	NA		NA		NA	
Butyl benzyl phthalate	UG/KG	ND	330	NA		NA		NA	
Caprolactam	UG/KG	ND	330	NA		NA		NA	
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
4-Chloro-3-methylphenol	UG/KG	2600	330	NA		NA		NA	
2-Chloronaphthalene	UG/KG	ND	330	NA		NA		NA	
2-Chlorophenol	UG/KG	2000	330	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/KG	ND	330	NA		NA		NA	
Chrysene	UG/KG	ND	330	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	330	NA		NA		NA	
Dibenzofuran	UG/KG	ND	330	NA		NA		NA	
Di-n-butyl phthalate	UG/KG	ND	330	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	330	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	330	NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	1900	330	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/KG	ND	650	NA		NA		NA	
2,4-Dichlorophenol	UG/KG	ND	330	NA		NA		NA	
Diethyl phthalate	UG/KG	ND	330	NA		NA		NA	
2,4-Dimethylphenol	UG/KG	ND	330	NA		NA		NA	
Dimethyl phthalate	UG/KG	ND	330	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/KG	ND	1600	NA		NA		NA	
2,4-Dinitrophenol	UG/KG	ND	1600	NA		NA		NA	
2,4-Dinitrotoluene	UG/KG	2600	330	NA		NA		NA	
2,6-Dinitrotoluene	UG/KG	ND	330	NA		NA		NA	
Di-n-octyl phthalate	UG/KG	ND	440	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A04-6714	A4B1303001						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/KG	ND	330	NA		NA		NA	
Fluorene	UG/KG	ND	330	NA		NA		NA	
Hexachlorobenzene	UG/KG	ND	330	NA		NA		NA	
Hexachlorobutadiene	UG/KG	ND	330	NA		NA		NA	
Hexachlorocyclopentadiene	UG/KG	ND	330	NA		NA		NA	
Hexachloroethane	UG/KG	ND	330	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	330	NA		NA		NA	
Isophorone	UG/KG	ND	330	NA		NA		NA	
2-Methylnaphthalene	UG/KG	ND	330	NA		NA		NA	
2-Methylphenol	UG/KG	ND	330	NA		NA		NA	
4-Methylphenol	UG/KG	ND	330	NA		NA		NA	
Naphthalene	UG/KG	ND	330	NA		NA		NA	
2-Nitroaniline	UG/KG	ND	1600	NA		NA		NA	
3-Nitroaniline	UG/KG	ND	1600	NA		NA		NA	
4-Nitroaniline	UG/KG	ND	1600	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
2-Nitrophenol	UG/KG	ND	330	NA		NA		NA	
4-Nitrophenol	UG/KG	2300	1600	NA		NA		NA	
N-nitrosodiphenylamine	UG/KG	ND	330	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/KG	2600	330	NA		NA		NA	
Pentachlorophenol	UG/KG	3900	1600	NA		NA		NA	
Phenanthrene	UG/KG	ND	330	NA		NA		NA	
Phenol	UG/KG	1900	330	NA		NA		NA	
Pyrene	UG/KG	3800	330	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	2000	330	NA		NA		NA	
2,4,5-Trichlorophenol	UG/KG	ND	790	NA		NA		NA	
2,4,6-Trichlorophenol	UG/KG	ND	330	NA		NA		NA	
=IS/SURROGATE(S)=									
1,4-Dichlorobenzene-D4	%	113	50-200	NA		NA		NA	
Naphthalene-D8	%	120	50-200	NA		NA		NA	
Acenaphthene-D10	%	114	50-200	NA		NA		NA	
Phenanthrene-D10	%	104	50-200	NA		NA		NA	
Chrysene-D12	%	98	50-200	NA		NA		NA	
Perylene-D12	%	144	50-200	NA		NA		NA	
Nitrobenzene-D5	%	64	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	78	36-138	NA		NA		NA	
p-Terphenyl-d14	%	114	41-167	NA		NA		NA	
Phenol-D5	%	65	34-120	NA		NA		NA	
2-Fluorophenol	%	59	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	100	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Date: 07/28/2004
Time: 15:15:53

Gallagher Beach
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METHOD 8081 - TCL PESTICIDES

Rept: AN0326

Client ID	Method Blank							
Job No Lab ID	A04-6714 A4B1303202							
Sample Date								
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	ND	1.6	NA		NA		NA	
alpha-BHC	UG/KG	ND	1.6	NA		NA		NA	
beta-BHC	UG/KG	ND	1.6	NA		NA		NA	
gamma-BHC (Lindane)	UG/KG	ND	1.6	NA		NA		NA	
delta-BHC	UG/KG	ND	1.6	NA		NA		NA	
Chlordane	UG/KG	ND	16	NA		NA		NA	
4,4'-DDD	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDE	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDT	UG/KG	ND	1.6	NA		NA		NA	
Dieldrin	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan I	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan II	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan Sulfate	UG/KG	ND	1.6	NA		NA		NA	
Endrin	UG/KG	ND	1.6	NA		NA		NA	
Endrin aldehyde	UG/KG	ND	1.6	NA		NA		NA	
Heptachlor	UG/KG	ND	1.6	NA		NA		NA	
Heptachlor epoxide	UG/KG	ND	1.6	NA		NA		NA	
Methoxychlor	UG/KG	ND	1.6	NA		NA		NA	
Toxaphene	UG/KG	ND	33	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	84	38-132	NA		NA		NA	
Decachlorobiphenyl	%	114	46-151	NA		NA		NA	

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NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/28/2004
Time: 15:15:53

Gallagher Beach
Gallagher Beach
METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID Job No Lab ID Sample Date		Method Blank A04-6714 A4B1306902							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	
Aroclor 1221	UG/KG	ND	16	NA		NA		NA	
Aroclor 1232	UG/KG	ND	16	NA		NA		NA	
Aroclor 1242	UG/KG	ND	16	NA		NA		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA		NA	
Aroclor 1254	UG/KG	ND	16	NA		NA		NA	
Aroclor 1260	UG/KG	ND	16	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	81	32-148	NA		NA		NA	
Decachlorobiphenyl	%	99	36-153	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID Job No Sample Date	Lab ID	Method Blank A04-6714	A4B1306502						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
2,4-D	UG/KG	ND	17	NA		NA		NA	
2,4,5-TP (Silvex)	UG/KG	ND	17	NA		NA		NA	
2,4,5-T	UG/KG	ND	17	NA		NA		NA	
SURROGATE(S)									
Dichlorophenyl Acetic Acid	%	74	10-147	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A04-6714	A4B1303201						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	15	1.6	NA		NA		NA	
alpha-BHC	UG/KG	14	1.6	NA		NA		NA	
beta-BHC	UG/KG	16	1.6	NA		NA		NA	
gamma-BHC (Lindane)	UG/KG	14	1.6	NA		NA		NA	
delta-BHC	UG/KG	15	1.6	NA		NA		NA	
Chlordane	UG/KG	ND	16	NA		NA		NA	
4,4'-DDD	UG/KG	17	1.6	NA		NA		NA	
4,4'-DDE	UG/KG	20	1.6	NA		NA		NA	
4,4'-DDT	UG/KG	17	1.6	NA		NA		NA	
Dieldrin	UG/KG	16	1.6	NA		NA		NA	
Endosulfan I	UG/KG	18	1.6	NA		NA		NA	
Endosulfan II	UG/KG	13	1.6	NA		NA		NA	
Endosulfan Sulfate	UG/KG	17	1.6	NA		NA		NA	
Endrin	UG/KG	16	1.6	NA		NA		NA	
Endrin aldehyde	UG/KG	15	1.6	NA		NA		NA	
Heptachlor	UG/KG	16	1.6	NA		NA		NA	
Heptachlor epoxide	UG/KG	16	1.6	NA		NA		NA	
Methoxychlor	UG/KG	18	1.6	NA		NA		NA	
Toxaphene	UG/KG	ND	32	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	87	38-132	NA		NA		NA	
Decachlorobiphenyl	%	121	46-151	NA		NA		NA	

41\72

NA = Not Applicable ND = Not Detected

Date: 07/28/2004
Time: 15:15:53

Gallagher Beach
Gallagher Beach
METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID		Matrix Spike Blank							
Job No	Lab ID	A04-6714	A4B1306901						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	
Aroclor 1221	UG/KG	ND	16	NA		NA		NA	
Aroclor 1232	UG/KG	ND	16	NA		NA		NA	
Aroclor 1242	UG/KG	ND	16	NA		NA		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA		NA	
Aroclor 1254	UG/KG	160	16	NA		NA		NA	
Aroclor 1260	UG/KG	ND	16	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	78	32-148	NA		NA		NA	
Decachlorobiphenyl	%	96	36-153	NA		NA		NA	

42\72

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/28/2004
Time: 15:15:53

Gallagher Beach
Gallagher Beach
METHOD 8151 - TCL HERBICIDES

Rept: AN0326

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A04-6714 A4B1306501		TP8 (2-4) A04-6714 A4672210MS		TP8 (2-4) A04-6714 A4672210SD			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
2,4-D	UG/KG	ND	17	78	20	68	20	NA	
2,4,5-TP (Silvex)	UG/KG	11 J	17	58	20	63	20	NA	
2,4,5-T	UG/KG	4.8 J	17	47	20	54	20	NA	
SURROGATE(S)									
Dichlorophenyl Acetic Acid	%	68	10-147	80	10-147	89	10-147	NA	

43\72

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/28/2004
Time: 15:15:58

Gallagher Beach
Gallagher Beach
TOTAL TCL METALS

Rept: AN0326

Client ID Job No Lab ID Sample Date		Method Blank A04-6714 A4B1299102		Method Blank A04-6714 A4B1308702					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Mercury - Total	MG/KG	ND	0.020	NA		NA		NA	
Iron - Total	MG/KG	NA		ND	10	NA		NA	
Magnesium - Total	MG/KG	NA		ND	20.0	NA		NA	
Thallium - Total	MG/KG	NA		ND	6.0	NA		NA	
Silver - Total	MG/KG	NA		ND	0.50	NA		NA	
Cobalt - Total	MG/KG	NA		ND	0.50	NA		NA	
Calcium - Total	MG/KG	NA		ND	10	NA		NA	
Aluminum - Total	MG/KG	NA		ND	10	NA		NA	
Arsenic - Total	MG/KG	NA		ND	2.0	NA		NA	
Antimony - Total	MG/KG	NA		ND	15.0	NA		NA	
Barium - Total	MG/KG	NA		ND	0.50	NA		NA	
Beryllium - Total	MG/KG	NA		ND	0.20	NA		NA	
Cadmium - Total	MG/KG	NA		ND	0.20	NA		NA	
Selenium - Total	MG/KG	NA		ND	4.0	NA		NA	
Chromium - Total	MG/KG	NA		ND	0.50	NA		NA	
Copper - Total	MG/KG	NA		ND	1.0	NA		NA	
Lead - Total	MG/KG	NA		ND	1.0	NA		NA	
Manganese - Total	MG/KG	NA		ND	0.20	NA		NA	
Nickel - Total	MG/KG	NA		ND	0.50	NA		NA	
Potassium - Total	MG/KG	NA		ND	30.0	NA		NA	
Sodium - Total	MG/KG	NA		ND	140	NA		NA	
Vanadium - Total	MG/KG	NA		ND	0.50	NA		NA	
Zinc - Total	MG/KG	NA		ND	2.0	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		LCS		LCS CLP Soils					
Job No	Lab ID	A04-6714	A4B1299101	A04-6714	A4B1308701				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Mercury - Total	MG/KG	3.7	0.24	NA		NA		NA	
Manganese - Total	MG/KG	NA		561	0.20	NA		NA	
Sodium - Total	MG/KG	NA		413	141	NA		NA	
Copper - Total	MG/KG	NA		116	1.0	NA		NA	
Aluminum - Total	MG/KG	NA		6360	10.1	NA		NA	
Arsenic - Total	MG/KG	NA		102	2.0	NA		NA	
Antimony - Total	MG/KG	NA		46.4	15.2	NA		NA	
Barium - Total	MG/KG	NA		323	0.50	NA		NA	
Beryllium - Total	MG/KG	NA		129	0.20	NA		NA	
Cadmium - Total	MG/KG	NA		94.3	0.20	NA		NA	
Selenium - Total	MG/KG	NA		166	4.0	NA		NA	
Calcium - Total	MG/KG	NA		3140	10.1	NA		NA	
Chromium - Total	MG/KG	NA		158	0.50	NA		NA	
Cobalt - Total	MG/KG	NA		132	0.50	NA		NA	
Iron - Total	MG/KG	NA		9560	10.1	NA		NA	
Lead - Total	MG/KG	NA		99.5	1.0	NA		NA	
Magnesium - Total	MG/KG	NA		1940	20.2	NA		NA	
Nickel - Total	MG/KG	NA		124	0.50	NA		NA	
Potassium - Total	MG/KG	NA		1860	30.3	NA		NA	
Silver - Total	MG/KG	NA		79.4	0.50	NA		NA	
Thallium - Total	MG/KG	NA		148	6.1	NA		NA	
Vanadium - Total	MG/KG	NA		110	0.50	NA		NA	
Zinc - Total	MG/KG	NA		183	2.0	NA		NA	

NA = Not Applicable ND = Not Detected

Date: 07/28/2004
Time: 15:16:01

Gallagher Beach
Gallagher Beach
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID		Method Blank							
Job No	Lab ID	A04-6714	A4B1316604						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	UG/G	ND	1.0	NA		NA		NA	

46\72

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID Job No Sample Date	Lab ID	LCS A04-6714	A4B1316603						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	UG/G	250	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK88 MSB 88
Lab Sample ID: A4B1321202 A4B1321201

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/KG	37.1	50.0	74	65-146
Trichloroethene	UG/KG	51.1	50.0	102	74-127
Benzene	UG/KG	50.3	50.0	101	74-128
Toluene	UG/KG	48.3	50.0	97	74-123
Chlorobenzene	UG/KG	47.9	50.0	96	76-124

48\72

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK89 MSB 89
Lab Sample ID: A4B1321204 A4B1321203

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/KG	35.2	50.0	70	65-146
Trichloroethene	UG/KG	46.9	50.0	94	74-127
Benzene	UG/KG	47.1	50.0	94	74-128
Toluene	UG/KG	45.4	50.0	91	74-123
Chlorobenzene	UG/KG	45.4	50.0	91	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: S Blank Matrix Spike Blank
Lab Sample ID: A4B1303002 A4B1303001

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS					
Phenol	UG/KG	1945	3307	59	35-120
2-Chlorophenol	UG/KG	2041	3307	62	34-118
1,4-Dichlorobenzene	UG/KG	1871	3307	56	30-120
N-Nitroso-Di-n-propylamine	UG/KG	2551	3307	77	42-131
1,2,4-Trichlorobenzene	UG/KG	2033	3307	61	32-120
4-Chloro-3-methylphenol	UG/KG	2561	3307	77	45-135
Acenaphthene	UG/KG	2696	3307	82	49-131
4-Nitrophenol	UG/KG	2287	3307	69	36-142
2,4-Dinitrotoluene	UG/KG	2620	3307	79	45-138
Pentachlorophenol	UG/KG	3894	3307	118	28-135
Pyrene	UG/KG	3853	3307	116	48-154

50\72

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A4B1303202

Matrix Spike Blank
A4B1303201

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8081 - TCL PESTICIDES					
Aldrin	UG/KG	14.6	16.3	90	48-128
alpha-BHC	UG/KG	13.9	16.3	86	47-123
beta-BHC	UG/KG	16.3	16.3	100	56-129
delta-BHC	UG/KG	14.7	16.3	90	42-127
gamma-BHC (Lindane)	UG/KG	14.4	16.3	89	42-136
4,4'-DDD	UG/KG	16.9	16.3	104	42-133
4,4'-DDE	UG/KG	19.9	16.3	122	44-136
4,4'-DDT	UG/KG	16.7	16.3	103	49-148
Dieldrin	UG/KG	15.9	16.3	98	51-132
Endosulfan I	UG/KG	17.9	16.3	110	42-132
Endosulfan II	UG/KG	13.2	16.3	81	44-135
Endosulfan Sulfate	UG/KG	16.7	16.3	103	42-136
Endrin aldehyde	UG/KG	14.9	16.3	91	37-123
Endrin	UG/KG	15.9	16.3	98	41-132
Heptachlor	UG/KG	15.9	16.3	98	43-127
Heptachlor epoxide	UG/KG	15.8	16.3	97	45-128
Methoxychlor	UG/KG	17.7	16.3	109	42-140

51\72

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A4B1306502

Matrix Spike Blank
A4B1306501

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8151 - TCL HERBICIDES					
2,4-D	UG/KG	2.76	65.7	4 *	13-132
2,4,5-TP (Silvex)	UG/KG	10.7	65.7	16 *	28-114
2,4,5-T	UG/KG	4.83	65.7	7 *	20-110

52\72

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A4B1306902

Matrix Spike Blank
A4B1306901

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8082 - POLYCHLORINATED BIPHENYLS					
Aroclor 1254	UG/KG	159	161	98	52-153

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A4B1299102 A4B1299101

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL TCL METALS					
TOTAL MERCURY	MG/KG	3.73	4.00	93	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A4B1308702 A4B1308701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike		QC LIMITS
TOTAL TCL METALS						
TOTAL ALUMINUM	MG/KG	6362	6360	100		80-120
TOTAL ANTIMONY	MG/KG	46.45	65.20	71	*	80-120
TOTAL ARSENIC	MG/KG	102.3	110.0	93		80-120
TOTAL BARIUM	MG/KG	323.1	334.0	97		80-120
TOTAL BERYLLIUM	MG/KG	128.8	133.0	97		80-120
TOTAL CADMIUM	MG/KG	94.31	101.0	93		80-120
TOTAL CALCIUM	MG/KG	3144	3320	94		80-120
TOTAL CHROMIUM	MG/KG	158.4	167.0	95		80-120
TOTAL COBALT	MG/KG	132.1	136.0	97		80-120
TOTAL COPPER	MG/KG	115.5	118.0	98		80-120
TOTAL IRON	MG/KG	9559	11400	84		80-120
TOTAL LEAD	MG/KG	99.49	102.0	98		80-120
TOTAL MAGNESIUM	MG/KG	1941	1980	98		80-120
TOTAL MANGANESE	MG/KG	561.0	534.0	105		80-120
TOTAL NICKEL	MG/KG	124.3	127.0	98		80-120
TOTAL POTASSIUM	MG/KG	1861	1930	96		80-120
TOTAL SELENIUM	MG/KG	165.5	166.0	100		80-120
TOTAL SILVER	MG/KG	79.43	82.90	96		80-120
TOTAL SODIUM	MG/KG	412.9	452.0	91		80-120
TOTAL THALLIUM	MG/KG	148.4	152.0	98		80-120
TOTAL VANADIUM	MG/KG	110.1	118.0	93		80-120
TOTAL ZINC	MG/KG	183.0	193.0	95		80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A4B1316604 A4B1316603

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	UG/G	250.4	277.0	90	60-118

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Y2133.08-TP1-0'-2' A04-6714 A4671401	Y2133.08-TP1-2'-6' A04-6714 A4671402	Y2133.08-TP1-7'-9' A04-6714 A4671403		
Sample Date	07/15/2004 15:30	07/15/2004 15:35	07/15/2004 15:40		
Received Date	07/16/2004 11:53	07/16/2004 11:53	07/16/2004 11:53		
Extraction Date					
Analysis Date	07/20/2004 17:36	07/20/2004 17:53	07/20/2004 18:12		
Extraction HT Met?	-	-	-		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	5.0 GRAMS	5.1 GRAMS	5.19 GRAMS		
% Dry	87.53	86.30	61.05		

57\72

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MSB 88 A04-6714 A4B1321201	MSB 89 A04-6714 A4B1321203			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/20/2004 14:48	07/20/2004 15:07			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

58\72

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	VBLK88 A04-6714 A4B1321202	VBLK89 A04-6714 A4B1321204			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/20/2004 14:11	07/20/2004 14:30			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Y2133.08-TP1-0'-2' A04-6714 A4671401	Y2133.08-TP1-2'-6' A04-6714 A4671402	Y2133.08-TP1-7'-9' A04-6714 A4671403		
Sample Date	07/15/2004 15:30	07/15/2004 15:35	07/15/2004 15:40		
Received Date	07/16/2004 11:53	07/16/2004 11:53	07/16/2004 11:53		
Extraction Date	07/19/2004 07:00	07/19/2004 07:00	07/19/2004 07:00		
Analysis Date	07/21/2004 17:29	07/21/2004 17:56	07/21/2004 18:23		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	5.0	20.0	5.0		
Sample wt/vol	30.5 GRAMS	30.18 GRAMS	30.92 GRAMS		
% Dry	76.96	84.59	62.66		

NA = Not Applicable

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A04-6714 A4B1303001				
Sample Date					
Received Date					
Extraction Date	07/19/2004 07:00				
Analysis Date	07/19/2004 19:12				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.23 GRAMS				
% Dry	100.00				

61\72

NA = Not Applicable

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	S Blank A04-6714 A4B1303002				
Sample Date					
Received Date					
Extraction Date	07/19/2004 07:00				
Analysis Date	07/19/2004 19:39				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.32 GRAMS				
% Dry	100.00				

62\72

NA = Not Applicable

METHOD 8081 - TCL PESTICIDES

Client Sample ID / Job No & Lab Sample ID	Y2133.08-TP1-0'-2' A04-6714 A4671401	Y2133.08-TP1-2'-6' A04-6714 A4671402	Y2133.08-TP1-7'-9' A04-6714 A4671403		
Sample Date	07/15/2004 15:30	07/15/2004 15:35	07/15/2004 15:40		
Received Date	07/16/2004 11:53	07/16/2004 11:53	07/16/2004 11:53		
Extraction Date	07/19/2004 07:00	07/19/2004 07:00	07/19/2004 07:00		
Analysis Date	07/23/2004 01:03	07/23/2004 01:38	07/23/2004 02:14		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	2.0	4.0		
Sample wt/vol	30.71 GRAMS	30.61 GRAMS	30.53 GRAMS		
% Dry	76.96	84.59	62.66		

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID / Job No & Lab Sample ID	Y2133.08-TP1-0'-2' A04-6714 A4671401	Y2133.08-TP1-2'-6' A04-6714 A4671402	Y2133.08-TP1-7'-9' A04-6714 A4671403		
Sample Date	07/15/2004 15:30	07/15/2004 15:35	07/15/2004 15:40		
Received Date	07/16/2004 11:53	07/16/2004 11:53	07/16/2004 11:53		
Extraction Date	07/20/2004 07:00	07/20/2004 07:00	07/20/2004 07:00		
Analysis Date	07/22/2004 16:36	07/22/2004 16:51	07/22/2004 17:21		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	5.0	5.0		
Sample wt/vol	30.99 GRAMS	30.64 GRAMS	30.2 GRAMS		
% Dry	76.96	84.59	62.66		

METHOD 8151 - TCL HERBICIDES

Client Sample ID / Job No & Lab Sample ID	Y2133.08-TP1-0'-2' A04-6714 A4671401	Y2133.08-TP1-2'-6' A04-6714 A4671402	Y2133.08-TP1-7'-9' A04-6714 A4671403		
Sample Date	07/15/2004 15:30	07/15/2004 15:35	07/15/2004 15:40		
Received Date	07/16/2004 11:53	07/16/2004 11:53	07/16/2004 11:53		
Extraction Date	07/20/2004 07:00	07/20/2004 07:00	07/20/2004 07:00		
Analysis Date	07/23/2004 05:18	07/23/2004 06:04	07/23/2004 06:50		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	30.3543 GRAMS	30.31 GRAMS	30.88 GRAMS		
% Dry	76.96	84.59	62.66		

NA = Not Applicable

METHOD 8081 - TCL PESTICIDES

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A04-6714 A4B1303201	Matrix Spike Blank A04-6714 A4B1306501	Matrix Spike Blank A04-6714 A4B1306901	TP8 (2-4) A04-6714 A4672210MS	TP8 (2-4) A04-6714 A4672210SD
Sample Date					
Received Date					
Extraction Date	07/19/2004 07:00				
Analysis Date	07/21/2004 20:20				
Extraction HT Met?	-	NA	NA	NA	NA
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.67 GRAMS				
% Dry	100.00				

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A04-6714 A4B1303201	Matrix Spike Blank A04-6714 A4B1306501	Matrix Spike Blank A04-6714 A4B1306901	TP8 (2-4) A04-6714 A4672210MS	TP8 (2-4) A04-6714 A4672210SD
Sample Date					
Received Date					
Extraction Date			07/20/2004 07:00		
Analysis Date			07/21/2004 11:15		
Extraction HT Met?	NA	NA	-	NA	NA
Analytical HT Met?			-		
Sample Matrix			SOIL LOW		
Dilution Factor			1.0		
Sample wt/vol			30.92 GRAMS		
% Dry			100.00		

METHOD 8151 - TCL HERBICIDES

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A04-6714 A4B1303201	Matrix Spike Blank A04-6714 A4B1306501	Matrix Spike Blank A04-6714 A4B1306901	TP8 (2-4) A04-6714 A4672210MS	TP8 (2-4) A04-6714 A4672210SD
Sample Date					
Received Date					
Extraction Date		07/20/2004 07:00		07/20/2004 07:00	07/20/2004 07:00
Analysis Date		07/23/2004 03:45		07/22/2004 23:54	07/23/2004 00:40
Extraction HT Met?	NA	-	NA	-	-
Analytical HT Met?		-		-	-
Sample Matrix		SOIL LOW		SOIL LOW	SOIL LOW
Dilution Factor		1.0		1.0	1.0
Sample wt/vol		30.43 GRAMS		30.1 GRAMS	30.31 GRAMS
% Dry		100.00		82.35	82.35

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NA = Not Applicable

METHOD 8081 - TCL PESTICIDES

Client Sample ID Job No & Lab Sample ID	Method Blank A04-6714 A4B1303202	Method Blank A04-6714 A4B1306502	Method Blank A04-6714 A4B1306902		
Sample Date					
Received Date					
Extraction Date	07/19/2004 07:00				
Analysis Date	07/21/2004 20:56				
Extraction HT Met?	-	NA	NA		
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.35 GRAMS				
% Dry	100.00				

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A04-6714 A4B1303202	Method Blank A04-6714 A4B1306502	Method Blank A04-6714 A4B1306902		
Sample Date					
Received Date					
Extraction Date			07/20/2004 07:00		
Analysis Date			07/21/2004 11:30		
Extraction HT Met?	NA	NA	-		
Analytical HT Met?			-		
Sample Matrix			SOIL LOW		
Dilution Factor			1.0		
Sample wt/vol			30.82 GRAMS		
% Dry			100.00		

METHOD 8151 - TCL HERBICIDES

Client Sample ID Job No & Lab Sample ID	Method Blank A04-6714 A4B1303202	Method Blank A04-6714 A4B1306502	Method Blank A04-6714 A4B1306902		
Sample Date					
Received Date					
Extraction Date		07/20/2004 07:00			
Analysis Date		07/23/2004 04:32			
Extraction HT Met?	NA	-	NA		
Analytical HT Met?		-			
Sample Matrix		SOIL LOW			
Dilution Factor		1.0			
Sample wt/vol		30.11 GRAMS			
% Dry		100.00			

NA = Not Applicable

Date: 07/28/2004 15:16:33
Jobno: A04-6714

WATTS ENGINEERS
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A4671401	Y2133.08-TP1-0'-2'	MG/KG	Aluminum - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Antimony - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Arsenic - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Beryllium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Calcium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Cobalt - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Copper - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Iron - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Magnesium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Manganese - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/16 17:43	Yes	SOIL
		MG/KG	Nickel - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Potassium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Sodium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Thallium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Vanadium - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
		MG/KG	Zinc - Total	6010	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/20 20:43	Yes	SOIL
A4671402	Y2133.08-TP1-2'-6'	MG/KG	Aluminum - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Antimony - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Arsenic - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Beryllium - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Calcium - Total	6010	5.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/21 18:56	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Cobalt - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Copper - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Iron - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Magnesium - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Manganese - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/16 17:44	Yes	SOIL
		MG/KG	Nickel - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Potassium - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Sodium - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Thallium - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Vanadium - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
		MG/KG	Zinc - Total	6010	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/20 20:48	Yes	SOIL
A4671403	Y2133.08-TP1-7'-9'	MG/KG	Aluminum - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Antimony - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

STL Buffalo

Date: 07/28/2004 15:16:33
Jobno: A04-6714

WATTS ENGINEERS
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A4671403	Y2133.08-TP1-7'-9'	MG/KG	Arsenic - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Beryllium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Calcium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Cobalt - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Copper - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Iron - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Magnesium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Manganese - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Mercury - Total	7471	10.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/16 17:46	Yes	SOIL
		MG/KG	Nickel - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Potassium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Sodium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Thallium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Vanadium - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL
		MG/KG	Zinc - Total	6010	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/20 20:53	Yes	SOIL

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AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

STL Buffalo

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A4B1299102	Method Blank	MG/KG	Mercury - Total	7471	1.00	-	- 11:53	NA	NA	07/16 18:47	Yes	SOIL
A4B1308702	Method Blank	MG/KG	Aluminum - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Antimony - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Arsenic - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Beryllium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Calcium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Cobalt - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Copper - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Iron - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Magnesium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Manganese - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Nickel - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Potassium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Sodium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Thallium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Vanadium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
		MG/KG	Zinc - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:51	Yes	SOIL
A4B1299101	LCS	MG/KG	Mercury - Total	7471	1.00	-	- 11:53	NA	NA	07/16 17:49	Yes	SOIL
A4B1308701	LCS CLP Soils	MG/KG	Aluminum - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Antimony - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Arsenic - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Beryllium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Calcium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Cobalt - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Copper - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Iron - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Magnesium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Manganese - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Nickel - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Potassium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Sodium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Thallium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Vanadium - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL
		MG/KG	Zinc - Total	6010	1.00	-	- 11:53	NA	NA	07/20 18:56	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Date: 07/28/2004 15:16:36 | WATTS ENGINEERS | Rept: AN0369
Jobno: A04-6714 | SAMPLE CHRONOLOGY

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A4671401	Y2133.08-TP1-0'-2'	UG/G	Cyanide - Total	9012A	1.00	07/15/2004 15:30	07/16 11:53	NA	NA	07/21 07:29	Yes	SOIL
A4671402	Y2133.08-TP1-2'-6'	UG/G	Cyanide - Total	9012A	1.00	07/15/2004 15:35	07/16 11:53	NA	NA	07/21 07:29	Yes	SOIL
A4671403	Y2133.08-TP1-7'-9'	UG/G	Cyanide - Total	9012A	1.00	07/15/2004 15:40	07/16 11:53	NA	NA	07/21 07:29	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A4B1316604	Method Blank	UG/G	Cyanide - Total	9012A	1.00	-	- 11:53	NA	NA	07/21 07:29	Yes	SOIL
A4B1316603	LCS	UG/G	Cyanide - Total	9012A	1.00	-	- 11:53	NA	NA	07/21 07:29	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Watts Engineers	Andrew Klimek	7/15/04	168846
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
3826 Main St		STL, Buffalo	
City Buffalo	**State** NY	**Zip Code** 14226	
Site Contact Matthew Holguist	**Lab Contact** Jeff Yohe		
Project Name and Location (State) Gallagher Beach - Phase III, Buffalo, NY	**Carrier/Waybill Number** hand deliver		
Contract/Purchase Order/Quote No. [redacted] STL→ NY2A893617 1			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: 4oz 8260-VOC	8oz 8270-SVOC	and 8081 Pest	8oz 8082 PCB	and 8151 Herb	2oz TCL Metals	4oz 9012 Cyanide	Special Instructions/ Conditions of Receipt
Y2133.08-TP1-0'-2'	7/15/04	15:30				X	X						1	1	[redacted]	1	[redacted]	1	1	14 day turnaround
Y2133.08-TP1-2'-6'	7/15/04	15:35				X	X						1	1	[redacted]	1	[redacted]	1	1	14 day turnaround
Y2133.08-TP1-7'-9'	7/15/04	15:40				X	X						1	1	[redacted]	1	[redacted]	1	1	14 day turnaround
Y2133.08-TP3-0'-3'	7/15/04	15:45				X	X						1	1	[redacted]	1	[redacted]	1	1	7 day turnaround
Y2133.08-TP4-0'-3'	7/15/04	15:50				X	X						1	1	[redacted]	1	[redacted]	1	1	7 day turnaround
Y2133.08-Pile Composite	7/15/04	15:55				X	X						1	1	[redacted]	1	[redacted]	1	1	7 day turnaround

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other see special instructions

QC Requirements (Specify)

1. Relinquished By: Matthew Holguist	Date: 7/16/04	Time: 11:53	1. Received By: [redacted]	Date: 07/16/04	Time: 11:53
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

1.0°C

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