

Final Cover Material Documentation

APPENDIX

G

TABLE G-1
SUMMARY OF ANALYTICAL RESULTS
OFF-SITE COVER SOIL MATERIAL
CERTAINTIED SITE

Sample ID	NYSDEC TAGM 4046	Eastern USA Background Concentration	BCLP Parcels 1&2 SSALs	⁽¹⁾ Swift River Concrete 10/13/2003	⁽¹⁾ Buffalo Crushed Stone Material 4/18/2002	⁽²⁾ D'Youville College DC-1 - Fill Material 1/20/2004	⁽²⁾ D'Youville College DC-2 - Fill Material 1/20/2004	⁽²⁾ Richwood Acres Fill Material 6/23/2004	⁽²⁾ Hewson Street Fill Material 11/11/2004	⁽²⁾ Cobham Drive Fill Material 12/17/2004	⁽²⁾ Cobham Drive Fill Material 12/28/2004
Volatile Organic Compounds (ug/kg)											
Acetone	200	-	-	31							
Methylene Chloride	100	-	-	31 B							
Toluene	1,500	NA	NA			2.0	2.0				
m&p-Xylene	1,200	NA	NA			2.0	1.0				
Total VOCs	NA	NA	10,000	62		4.0	4.0				
Semivolatile Organic Compounds (ug/kg)											
Phenanthrene	50,000	NA	50,000								560
Fluoranthene	50,000	NA	50,000								700
Pyrene	50,000	NA	50,000								490
Total SVOCs	NA	NA	500,000								1,750
Metals (mg/kg)											
Aluminum	SB	33,000	NA	8,300	227	12,000	3,200	6,100	8,650	4,240	7,160
Arsenic	7.5 or SB	3-12	50	4.7						3.4	3.1
Barium	300 or SB	15-600	500	75.8		110	13	58	55	42	55
Beryllium	0.16 ^(HEAST) or SB	0-1.75	NA	1.0		0.6	0.2		0.29	0.42	0.49
Cadmium	1 or SB	0.1-1	20						0.12	0.55	0.38
Calcium	SB	130-35,000	NA	122,000	194,000	72,000	68,000	9,260	48,800	18,800	40,500
Chromium	10 or SB	1.5-40	200	13.6		18	7.0	10	17	13	13
Cobalt	30 or SB	2.5-60	NA	3.9		9.0			7.3	7.7	5.5
Copper	25 or SB	1-50	NA	20.8		18	16	16	15	36	26
Cyanide	*	NA	50	-	NA						
Iron	2,000 or SB	2,000-550,000	NA	10,700	1,320	21,000	7,500	14,100	14,900	12,500	18,300
Lead	1,000	**	1,000	171		17	14			14	12
Magnesium	SB	100-5,000	NA	21,000	4,350	27,000	33,000	3,510	8,510	4,210	4,190
Manganese	SB	50-5,000	NA	571	55	480	260	284	268	303	292
Mercury	0.1	0.001-0.2	1.0	0.068						0.023	0.035
Nickle	13 or SB	0.5-25	NA	11.2		20	6.0			29	
Phosphorus	N	NA	NA	-		600	370				
Potassium	SB	8,500-43,000	NA	1,360	138	3,100	780	368	2,000	553	604
Selenium	2 or SB	0.1-3.9	50								
Silver	SB	NA	1,000								
Sodium	SB	6,000-8,000	NA	533	112	290	290		267	135	162
Vandium	150 or SB	1-300	NA	15.6		24	8.0		12	14	9.5
Zinc	20 or SB	9-50	NA	128		70	42	46	48	94	93
Pesticides (ug/kg)											
4,4'-DDD	2,900	NA	NA								6.4
4,4'-DDE	2,100	NA	NA								20
4,4'-DDT	2,100	NA	NA	43							19
Total Pesticides	NA	NA	10,000	43							45.4
PCBs (ug/kg)											
Total PCBs	NA	NA	1,000								

NOTES:

(1) Material was used as road base.

(2) Material was used as cover soil material.

- Blanks indicate constituent was not detected.

- Only those analytes or compounds having a positive detection, and detected at a minimum of one location or have an SSAL established for them are shown .

- Analytical data for the Sturgeon Point WTP residuals used under a Beneficial Use Determination are presented seperately.

* New York State Background

** Background levels in rural areas range from 4-61 ppm. Background levels in metropolitan/suburban areas or near highways range from 200-500 ppm.

- = Not available

NA = Not established

SEVERN
TRENT

STL

STL Buffalo

10 Hazelwood Drive, Suite 106
Amherst, NY 14228Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A03-9880, A03-9880

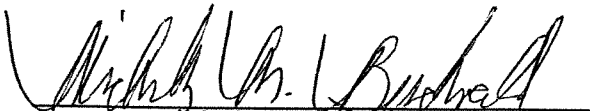
STL Project#: NY3A9136

Site Name: Swift River

Task: Concrete Material Analyses

Mr. Tony Pariso
Swift River
4051 River Road
Tonawanda, NY 14150

STL Buffalo


Michelle M. Buchwald
Project Manager

10/20/2003

STL Buffalo Current Certifications

STATE	Program	Cert # / Lab ID
A2LA (ISO 17025)	SDWA, CWA, RCRA	0732-01
Arizona	SDWA, CWA, RCRA	AZ0525
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
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
Oregon	NELAP, SDWA, CWA, RCRA	NY200001
Pennsylvania	NELAP, SDWA, CWA, Env. Lab Reg.	68-281
South Carolina	RCRA	91013
Tennessee	SDWA	2970
USDA	FOREIGN SOIL PERMIT	S-4650
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390
Wyoming UST	UST	NA

METHODS SUMMARY

Job#: A03-9880STL Project#: NY3A9136Site Name: Swift River

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 - 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 6010
Nickel - Total	SW8463 7471
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

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.

For method 8151, the recovery of surrogate Dichlorophenyl Acetic Acid in sample CONCRETE is outside of established quality control limits due to sample matrix interferences and extract dilution. The recovery of all other surrogates and quality control within this batch are within expected limits; no corrective action is required.

For method 8081 Pesticide analysis, sample CONCRETE is diluted by a factor of 20X due to heavy matrix effects. The surrogates are diluted out of the sample extract at that dilution.

Metals Data

The LCS recovery for Antimony and Sodium exceeded quality control limits, however, the LCS value was within the manufacturer's acceptance limits.

The recovery of sample CONCRETE Matrix Spike exhibited results below the quality control limits for Aluminum, Antimony, Zinc, Manganese, Magnesium (above for MSD,) Calcium, Barium, and Lead. The recovery of the Matrix Spike and Matrix Spike Duplicate exhibited results above the quality control limits for Iron. The RPD exceeded quality control limits for Aluminum, Zinc, Magnesium, Iron, Barium, and Lead. However, the LCS (A3B1179601) was acceptable.

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.

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.

Client ID Job No Sample Date		Lab ID		CONCRETE A03-9880 10/13/2003		A3988001					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	31	28	NA		NA		NA		NA	
Benzene	UG/KG	ND	6	NA		NA		NA		NA	
Bromodichloromethane	UG/KG	ND	6	NA		NA		NA		NA	
Bromoform	UG/KG	ND	6	NA		NA		NA		NA	
Bromomethane	UG/KG	ND	6	NA		NA		NA		NA	
2-Butanone	UG/KG	ND	6	NA		NA		NA		NA	
Carbon Disulfide	UG/KG	ND	28	NA		NA		NA		NA	
Carbon Tetrachloride	UG/KG	ND	6	NA		NA		NA		NA	
Chlorobenzene	UG/KG	ND	6	NA		NA		NA		NA	
Chloroethane	UG/KG	ND	6	NA		NA		NA		NA	
Chloroform	UG/KG	ND	6	NA		NA		NA		NA	
Chloromethane	UG/KG	ND	6	NA		NA		NA		NA	
Cyclohexane	UG/KG	ND	6	NA		NA		NA		NA	
1,2-Dibromoethane	UG/KG	ND	6	NA		NA		NA		NA	
Dibromochloromethane	UG/KG	ND	6	NA		NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	NA		NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	6	NA		NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	6	NA		NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	6	NA		NA		NA		NA	
Dichlorodifluoromethane	UG/KG	ND	6	NA		NA		NA		NA	
1,1-Dichloroethane	UG/KG	ND	6	NA		NA		NA		NA	
1,2-Dichloroethane	UG/KG	ND	6	NA		NA		NA		NA	
1,1-Dichloroethene	UG/KG	ND	6	NA		NA		NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	6	NA		NA		NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	6	NA		NA		NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	6	NA		NA		NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	6	NA		NA		NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	6	NA		NA		NA		NA	
Styrene	UG/KG	ND	6	NA		NA		NA		NA	
n-Hexanone	UG/KG	ND	6	NA		NA		NA		NA	
Isopropylbenzene	UG/KG	ND	28	NA		NA		NA		NA	
Ethyl acetate	UG/KG	ND	6	NA		NA		NA		NA	
Ethylcyclohexane	UG/KG	ND	6	NA		NA		NA		NA	
Ethylene chloride	UG/KG	ND	6	NA		NA		NA		NA	
n-Methyl-2-pentanone	UG/KG	31 B	6	NA		NA		NA		NA	
Ethyl tert butyl ether	UG/KG	ND	28	NA		NA		NA		NA	
1,2,2-Tetrachloroethane	UG/KG	ND	6	NA		NA		NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	6	NA		NA		NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	6	NA		NA		NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	6	NA		NA		NA		NA	
	UG/KG	ND	6	NA		NA		NA		NA	

= Not Applicable ND = Not Detected

STL Buffalo

10/57

Client ID Job No Sample Date		Lab ID		CONCRETE A03-9880 10/13/2003		A3988001					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	72000	NA		NA		NA		NA	
Acenaphthylene	UG/KG	ND	72000	NA		NA		NA		NA	
Acetophenone	UG/KG	ND	72000	NA		NA		NA		NA	
Anthracene	UG/KG	ND	72000	NA		NA		NA		NA	
Atrazine	UG/KG	ND	72000	NA		NA		NA		NA	
Benzaldehyde	UG/KG	ND	72000	NA		NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	72000	NA		NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	72000	NA		NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	72000	NA		NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	72000	NA		NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	72000	NA		NA		NA		NA	
Benzoic acid	UG/KG	ND	72000	NA		NA		NA		NA	
Benzyl alcohol	UG/KG	ND	350000	NA		NA		NA		NA	
Biphenyl	UG/KG	ND	72000	NA		NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/KG	ND	72000	NA		NA		NA		NA	
Bis(2-chloroethyl) ether	UG/KG	ND	72000	NA		NA		NA		NA	
2,2'-Oxybis(1-chloropropane)	UG/KG	ND	72000	NA		NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/KG	ND	72000	NA		NA		NA		NA	
4-Bromophenyl phenyl ether	UG/KG	ND	72000	NA		NA		NA		NA	
Butyl benzyl phthalate	UG/KG	ND	72000	NA		NA		NA		NA	
Caprolactam	UG/KG	ND	72000	NA		NA		NA		NA	
4-Chloroaniline	UG/KG	ND	72000	NA		NA		NA		NA	
4-Chloro-3-methylphenol	UG/KG	ND	72000	NA		NA		NA		NA	
2-Chloronaphthalene	UG/KG	ND	72000	NA		NA		NA		NA	
2-Chlorophenol	UG/KG	ND	72000	NA		NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/KG	ND	72000	NA		NA		NA		NA	
Chrysene	UG/KG	ND	72000	NA		NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	72000	NA		NA		NA		NA	
Dibenzofuran	UG/KG	ND	72000	NA		NA		NA		NA	
Di-n-butyl phthalate	UG/KG	ND	72000	NA		NA		NA		NA	
3,3'-Dichlorobenzidine	UG/KG	ND	72000	NA		NA		NA		NA	
2,4-Dichlorophenol	UG/KG	ND	140000	NA		NA		NA		NA	
Diethyl phthalate	UG/KG	ND	72000	NA		NA		NA		NA	
2,4-Dimethylphenol	UG/KG	ND	72000	NA		NA		NA		NA	
Dimethyl phthalate	UG/KG	ND	72000	NA		NA		NA		NA	
2,6-Dinitro-2-methylphenol	UG/KG	ND	72000	NA		NA		NA		NA	
2,4-Dinitrophenol	UG/KG	ND	3600000	NA		NA		NA		NA	
2,4-Dinitrotoluene	UG/KG	ND	350000	NA		NA		NA		NA	
2,6-Dinitrotoluene	UG/KG	ND	72000	NA		NA		NA		NA	
Di-n-octyl phthalate	UG/KG	ND	72000	NA		NA		NA		NA	
Fluoranthene	UG/KG	ND	97000	NA		NA		NA		NA	
Fluorene	UG/KG	ND	72000	NA		NA		NA		NA	
Hexachlorobenzene	UG/KG	ND	72000	NA		NA		NA		NA	
	UG/KG	ND	72000	NA		NA		NA		NA	

= Not Applicable ND = Not Detected

Client ID Job No Sample Date		Lab ID		CONCRETE A03-9880 10/13/2003		A3988001					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	ND	36	NA		NA		NA		NA	
alpha-BHC	UG/KG	ND	36	NA		NA		NA		NA	
beta-BHC	UG/KG	ND	36	NA		NA		NA		NA	
gamma-BHC (Lindane)	UG/KG	ND	36	NA		NA		NA		NA	
delta-BHC	UG/KG	ND	36	NA		NA		NA		NA	
Chlordane	UG/KG	ND	36	NA		NA		NA		NA	
4,4'-DDD	UG/KG	ND	360	NA		NA		NA		NA	
4,4'-DDE	UG/KG	ND	36	NA		NA		NA		NA	
4,4'-DDT	UG/KG	ND	36	NA		NA		NA		NA	
Dieldrin	UG/KG	43	36	NA		NA		NA		NA	
Endosulfan I	UG/KG	ND	36	NA		NA		NA		NA	
Endosulfan II	UG/KG	ND	36	NA		NA		NA		NA	
Endosulfan Sulfate	UG/KG	ND	36	NA		NA		NA		NA	
Endrin	UG/KG	ND	36	NA		NA		NA		NA	
Endrin aldehyde	UG/KG	ND	36	NA		NA		NA		NA	
Heptachlor	UG/KG	ND	36	NA		NA		NA		NA	
Heptachlor epoxide	UG/KG	ND	36	NA		NA		NA		NA	
Methoxychlor	UG/KG	ND	36	NA		NA		NA		NA	
Toxaphene	UG/KG	ND	36	NA		NA		NA		NA	
SURROGATE(S)		ND	710	NA		NA		NA		NA	
Tetrachloro-m-xylene	%	O D	32-130	NA		NA		NA		NA	
Decachlorobiphenyl	%	O D	36-153	NA		NA		NA		NA	

IA = Not Applicable ND = Not Detected

Time: 11:34:17

Swift River
Concrete Material Analyses
METHOD 8151 - HERBICIDES

Rept: AN0326

Client ID Job No Sample Date		Lab ID		CONCRETE A03-9880 10/13/2003		A3988001					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
2,4-D	UG/KG	ND	74	NA		NA		NA		NA	
2,4,5-TP (Silvex)	UG/KG	ND	74	NA		NA		NA		NA	
2,4,5-T	UG/KG	ND	74	NA		NA		NA		NA	
Dinoseb	UG/KG	ND	74	NA		NA		NA		NA	
Dalapon	UG/KG	ND	74	NA		NA		NA		NA	
Picloram	UG/KG	ND	74	NA		NA		NA		NA	
SURROGATE(S)											
Dichlorophenyl Acetic Acid	%	11 *	17-133	NA		NA		NA		NA	

A = Not Applicable ND = Not Detected

STL Buffalo

1657

[CRUSHED STONE PROJECT]

March 3, 2004

TO: Curt Resetarits

FROM: Gary Nelson

RE: Certaineed Project

TCL Results, Wehrle Drive Quarry

Here are the results of the TCL VOC, SVOC, Metals, and Pesticides & PCB's tests on our Wehrle Drive material. These were performed for the Praxair (Linde) project. I think that may have been a Superfund Site.

I believe these should satisfy the SSAL requirements for this job, specifically in the "Virgin Soil" category.

Gary Nelson, Q. C. Dept.
683-4713

→ Buffalo Crushed Stone, Inc
2544 Clinton St.
Buffalo NY 14224
716-826-7310

RECEIVED
APR 4 2003
THE KROG CORP.

WASTE STREAM TECHNOLOGY, INC.

302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report

Report Date : 05/07/02
Group Number : 2021-867

Prepared For :

Mr. Mark Berdysiak
Buffalo Crushed Stone
8615 Wehrle Dr.
Williamsville, NY 14221

Site: Buffalo Crushed Stone

Analytical Parameters	Analytical Services Number of Samples	Turnaround Time
TCL 8260	1	Standard
TCL 8270	1	Standard
Pesticides/PCB's	1	Standard
TAL Metals	1	Standard
Radium-226	1	Standard
Radium-228	1	Standard
Thorium-228	1	Standard
Thorium-230	1	Standard
Thorium-232	1	Standard
Total Natural Uranium	1	Standard

Report Released By :


Brian S. Schepart, Ph.D., Laboratory Director

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977



Waste Stream Technology, Inc.

302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report

Group Number: 2021-867

Site: Buffalo Crushed Stone

Field and Laboratory Information

WST ID	Client ID	Matrix	Date Sampled	Date Received	Time
WT04556	BCS Solid 04/18/02	Solid	04/18/02	04/19/02	10:15

METHODOLOGIES

The specific methodologies employed in obtaining the analytical data reported are indicated on each of the result forms. The method numbers shown refer to the following U.S. Environmental Protection Agency Reference:

Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020, March 1979, Revised 1983, U.S. Environmental Monitoring and Support Laboratory, Cincinnati, Ohio 45268.

Federal Register, 40 CFR Part 136: Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act. Revised July 1992.

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. Third Edition, Revised December 1996, U.S. EPA SW-846.

Annual Book of ASTM Standards, Volume II. ASTM, 100 Harbor Drive, West Conshohocken, PA 19428-2959.

Standard Methods for the Examination of Water and Wastewater. (20th Edition). American Public Health Association, 1105 18th Street, NW, Washington, D.C. 20036.

ORGANIC DATA QUALIFIERS

- U -** Indicates compound was analyzed for but not detected.
- J -** Indicates an estimated value. This flag is used to qualify the following: when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed; a compound is detected in the sample but the result is less than the method quantitation limit but greater than the statistically calculated laboratory method detection limit; the result for a compound is estimated due to the analysis of a sample beyond the USEPA defined holding time; the result for a compound is estimated due to a quality control sample result that is outside the laboratory quality control recovery limits.
- 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 the sample.
- E -** This flag identifies all compounds whose concentrations exceed the calibration range of the GC/MS instrument of that specific analysis.
- D -** This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- G -** Matrix spike recovery is greater than the expected upper limit of analytical performance.
- L -** Matrix spike recovery is less than the expected lower limit of analytical performance.
- # -** Indicates that a surrogate recovery was found to be outside the expected limits of analytical performance.
- \$ -** Indicates that the surrogate compound was diluted out. The sample had to be diluted to obtain analytical results and a recovery could not be calculated.
- (%) -** Indicates that the compound is a surrogate and that the value reported for this compound is in percent recovery. The quality control recovery limits are indicated in the detection limit or QC limits column.

Waste Stream Technology, Inc.**Volatile Organic in Solids**

SW-846 8260B

Site: Buffalo Crushed Stone

Date Sampled: 04/18/02

Date Received: 04/19/02

Group Number: 2021-867

Units: µg/Kg

Matrix: Solid

WST ID: WTD4556

Client ID: BCS Solid 04/18/02

Extraction Date: NA

Date Analyzed: 04/24/02

Compound	Detection Limit	Result	QC Limits (%)	Qualifier
chloromethane	10	Not detected		U
vinyl chloride	10	Not detected		U
bromomethane	10	Not detected		U
chloroethane	10	Not detected		U
1,1-dichloroethene	2	Not detected		U
acetone	10	Not detected		U
carbon disulfide	2	Not detected		U
methylene chloride	2	Not detected		U
trans-1,2-dichloroethene	2	Not detected		U
1,1-dichloroethane	2	Not detected		U
vinyl acetate	10	Not detected		U
2-butanone	10	Not detected		U
cis-1,2-dichloroethene	2	Not detected		U
chloroform	2	Not detected		U
1,1,1-trichloroethane	2	Not detected		U
carbon tetrachloride	2	Not detected		U
benzene	2	Not detected		U
1,2-dichloroethane	2	Not detected		U
trichloroethene	2	Not detected		U
1,2-dichloropropane	2	Not detected		U
bromodichloromethane	2	Not detected		U
4-methyl-2-pentanone	10	Not detected		U
cis-1,3-dichloropropene	2	Not detected		U
toluene	2	Not detected		U
trans-1,3-dichloropropene	2	Not detected		U
1,1,2-trichloroethane	2	Not detected		U
2-hexanone	10	Not detected		U
tetrachloroethene	2	Not detected		U
dibromochloromethane	2	Not detected		U
chlorobenzene	2	Not detected		U
ethylbenzene	2	Not detected		U
m,p-xylene	2	Not detected		U
o-xylene	2	Not detected		U
styrene	2	Not detected		U
bromoform	2	Not detected		U
1,1,2,2-tetrachloroethane	2	Not detected		U
1,2-Dichloroethane-d4 (%)		117	70-121	
Toluene-d8 (%)		88	81-117	
Bromofluorobenzene (%)		108	74-121	
Dilution Factor	1			

Waste Stream Technology, Inc.

Semivolatile Organics in Solids

3550/8270

Site: Buffalo Crushed Stone

Date Sampled: 04/18/02

Date Received: 04/19/02

Group Number: 2021-867

Units: µg/Kg

Matrix: Solid

WST ID: WT04556

Client ID: BCS Solid 04/18/02

Extraction Date: 04/24/02

Date Analyzed: 04/25/02

Compound	Detection Limit	Result	QC Limits (%)	Qualifier
phenol	330	Not detected		U
bis(2-chloroethyl)ether	330	Not detected		U
2-chlorophenol	330	Not detected		U
1,3-dichlorobenzene	330	Not detected		U
1,4-dichlorobenzene	330	Not detected		U
benzyl alcohol	660	Not detected		U
1,2-dichlorobenzene	330	Not detected		U
2-methylphenol	330	Not detected		U
bis(2-chloroisopropyl)ether	330	Not detected		U
3 & 4-methylphenol	330	Not detected		U
N-nitrosodi-n-propylamine	330	Not detected		U
hexachloroethane	330	Not detected		U
nitrobenzene	330	Not detected		U
isophorone	330	Not detected		U
2-nitrophenol	330	Not detected		U
2,4-dimethylphenol	330	Not detected		U
bis(2-chloroethoxy)methane	330	Not detected		U
benzoic acid	1650	Not detected		U
2,4-dichlorophenol	330	Not detected		U
1,2,4-trichlorobenzene	330	Not detected		U
naphthalene	330	Not detected		U
4-chloroaniline	660	Not detected		U
hexachlorobutadiene	330	Not detected		U
4-chloro-3-methylphenol	660	Not detected		U
2-methylnaphthalene	330	Not detected		U
hexachlorocyclopentadiene	330	Not detected		U
2,4,6-trichlorophenol	330	Not detected		U
2,4,5-trichlorophenol	330	Not detected		U
2-chloronaphthalene	330	Not detected		U
2-nitroaniline	1650	Not detected		U
dimethylphthalate	330	Not detected		U
acenaphthylene	330	Not detected		U
3-nitroaniline	1650	Not detected		U
2,6-dinitrotoluene	330	Not detected		U
acenaphthene	330	Not detected		U
2,4-dinitrophenol	1650	Not detected		U
4-nitrophenol	1650	Not detected		U
dibenzofuran	330	Not detected		U
2,4-dinitrotoluene	330	Not detected		U

Waste Stream Technology, Inc.**Semivolatile Organics in Solids****3550/8270**

Site: Buffalo Crushed Stone
Date Sampled: 04/18/02
Date Received: 04/19/02

Group Number: 2021-867
Units: µg/Kg
Matrix: Solid

WST ID: WT04556
Client ID: BCS Solid 04/18/02
Extraction Date: 04/24/02
Date Analyzed: 04/25/02

Compound	Detection Limit	Result	QC Limits (%)	Qualifier
diethylphthalate	330	Not detected		U
fluorene	330	Not detected		U
4-nitroaniline	1650	Not detected		U
4-chlorophenylphenylether	330	Not detected		U
4,6-dinitro 2-methylphenol	1650	Not detected		U
n-nitrosodiphenylamine	330	Not detected		U
4-bromophenylphenylether	330	Not detected		U
hexachlorobenzene	330	Not detected		U
pentachlorophenol	1650	Not detected		U
phenanthrene	330	Not detected		U
anthracene	330	Not detected		U
carbazole	330	Not detected		U
di-n-butylphthalate	330	Not detected		U
fluoranthene	330	Not detected		U
benzidine	3300	Not detected		U
pyrene	330	Not detected		U
butylbenzylphthalate	330	Not detected		U
3,3'-dichlorobenzidine	660	Not detected		U
benzo(a)anthracene	330	Not detected		U
chrysene	330	Not detected		U
bis(2-ethylhexyl)phthalate	330	Not detected		U
di-n-octylphthalate	330	Not detected		U
benzo[b]fluoranthene	330	Not detected		U
benzo[k]fluoranthene	330	Not detected		U
benzo[a]pyrene	330	Not detected		U
indeno[1,2,3-cd]pyrene	330	Not detected		U
dibenzo[a,h]anthracene	330	Not detected		U
benzo[g,h,i]perylene	330	Not detected		U
2-Fluorophenol (%)		91	49-106	
Phenol-d6 (%)		91	53-115	
Nitrobenzene-d5 (%)		88	55-117	
2-Fluorobiphenyl (%)		99	55-124	
2,4,6-Tribromophenol (%)		104	39-149	
Terphenyl-d14 (%)		98	60-137	

Dilution Factor 5

Waste Stream Technology, Inc.**Pesticides and PCBs in Soil****8081A/8082**

Site: Buffalo Crushed Stone

Date Sampled: 04/18/02

Date Received: 04/19/02

Group Number: 2021-867

Units: µg/Kg

Matrix: Solid

WST ID: WT04556

Client ID: BCS Solid 04/18/02

Extraction Date: 04/22/02

Date Analyzed: 04/25/02

Compound	Detection Limit	Result	QC Limits (%)	Qualifier
Alpha-BHC	0.5	Not detected		U
Beta-BHC	1.0	Not detected		U
Gamma-BHC (Lindane)	0.5	Not detected		U
Delta-BHC	1.6	Not detected		U
Heptachlor	3.2	Not detected		U
Aldrin	2.8	Not detected		U
Heptachlor Epoxide	1.4	Not detected		U
Endosulfan I	0.8	Not detected		U
Dieldrin	0.8	Not detected		U
4,4'-DDE	0.8	Not detected		U
Endrin	1.8	Not detected		U
Endosulfan II	1.0	Not detected		U
4,4'-DDD	0.9	Not detected		U
Endrin Aldehyde	1.3	Not detected		U
Endosulfan Sulfate	10	Not detected		U
4,4'-DDT	2.8	Not detected		U
Endrin Ketone	2.1	Not detected		U
Methoxychlor	1.0	Not detected		U
Toxaphene	51	Not detected		U
Chlordane	12	Not detected	..	U
Aroclor 1016	46	Not detected		U
Aroclor 1221	38	Not detected		U
Aroclor 1232	63	Not detected		U
Aroclor 1242	29	Not detected		U
Aroclor 1248	15	Not detected		U
Aroclor 1254	9.0	Not detected		U
Aroclor 1260	10	Not detected		U
Decachlorobiphenyl (%)		89	81-121	
Tetrachloro-m-xylene (%)		91	76-133	

Dilution Factor 1.25

Waste Stream Technology, Inc.
Metals Analysis Result Report

Site: Buffalo Crushed Stone
Date Sampled: 04/18/02
Date Received: 04/19/02

Group Number: 2021-867
Units: mg/Kg
Matrix: Solid

WST ID: WT04556
Client ID: BCS Solid 04/18/02
Digestion Date: 04/22/02

Analyte	Detection Limit	Result	Date Analyzed	Analysis Method
Aluminum by ICP	12.5	227	04/24/02	SW-846 6010
Antimony by ICP	5.00	Not detected	04/24/02	SW-846 6010
Arsenic by ICP	8.50	Not detected	04/24/02	SW-846 6010
Barium by ICP	5.00	Not detected	04/24/02	SW-846 6010
Beryllium by ICP	2.00	Not detected	04/24/02	SW-846 6010
Cadmium by ICP	5.00	Not detected	04/24/02	SW-846 6010
Calcium by ICP	240	194000	04/26/02	SW-846 6010
Chromium by ICP	5.00	Not detected	04/24/02	SW-846 6010
Cobalt by ICP	5.00	Not detected	04/24/02	SW-846 6010
Copper by ICP	5.00	Not detected	04/24/02	SW-846 6010
Iron by ICP	41.5	1320	04/24/02	SW-846 6010
Lead by ICP	20.5	Not detected	04/24/02	SW-846 6010
Magnesium by ICP	60.0	4350	04/24/02	SW-846 6010
Manganese by ICP	5.00	54.7	04/24/02	SW-846 6010
Mercury by Cold Vapor	0.014	Not detected	05/02/02	SW-846 7471
Nickel by ICP	5.00	Not detected	04/24/02	SW-846 6010
Potassium by ICP	14.0	138	04/24/02	SW-846 6010
Selenium by ICP	7.00	Not detected	04/24/02	SW-846 6010
Silver by ICP	2.50	Not detected	04/24/02	SW-846 6010
Sodium by ICP	12.0	112	04/24/02	SW-846 6010
Thallium by ICP	6.50	Not detected	04/24/02	SW-846 6010
Vanadium by ICP	5.00	Not detected	04/24/02	SW-846 6010
Zinc by ICP	20.0	Not detected	04/24/02	SW-846 6010



Contract Drilling and Testing

☐ **CORPORATE/
BUFFALO OFFICE**

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☐ **SYRACUSE OFFICE**

6730 Myers Road
East Syracuse, NY 13057
Phone: (315) 437-3890
Fax: (315) 437-3582

April 9, 2004
BEV-04-002

The Krog Company
4 Centre Drive
Orchard Park, New York 14127
Phone: (716) 667-1234
Fax: (716) 667-1258

Attention: Mr. Peter Krog/Mr. Pat Sheedy

Reference: Sampling/Laboratory Analytical Report
Certain Teed Project
Fill Material Source-D'Youville College
City of Buffalo, New York

Dear Mr. Krog:

Empire Geo-Services, Inc. (Empire) completed an evaluation of proposed cover fill materials for the Certain Teed Manufacturing Plant Project on January 20, 2004. The source of the fill material evaluated was located at the D'Youville College Housing Construction Project in the City of Buffalo, New York. A site location map and a site plan have been prepared by Empire in Attachment 1 as Drawing No. 1 and Drawing No. 2, respectively.

Empire's evaluation included the review the source site's past land uses, sampling of the fill material sources, and laboratory analytical services.

LIMITED HISTORICAL REVIEW

On January 20th and January 21st 2004, Empire Geo-Services, Inc. reviewed available records (including tax rolls, assessor's records, Sanborn Maps, Polk Directories) for the source site's property. From review of the available records, it appears that the source site and adjacent properties have been primarily utilized for residential purposes (both single-family homes and multi-unit apartment complexes). Empire did not view any records which included evidence of past industrial, commercial, or recent agricultural uses (which would concern the use of pesticides).

SAMPLING OF FILL MATERIALS

On January 20, 2004 samples (one composite sample and one grab sample per fill source) were collected from D'Youville College Housing Construction Project. The samples were transported in an ice-packed cooler via courier to PSC Analytical Services, Inc. in Burlington, Ontario, Canada for analysis of total compound listed volatile organic compounds (VOCs), total compound listed semi-volatiles, pesticides, PCBs, and target analyte listed metals plus cyanide. The analytical results of the samples are presented in the "Laboratory Analysis Report" presented in Attachment No. 2 of this report.

FILL MATERIALS

The fill material being considered as a borrow source was excavated from the source site by Russo Development as part of the D'Youville College Housing Construction Project, managed by Cannon Design. The fill materials sampled consisted of two distinct soil types: indigenous clayey silt material and "non-virgin" sand and gravel intermixed with crushed concrete and limestone. Evidence of contamination (soil staining, unusual odors, etc.) was not observed within the fill material source areas during Empire's visit to the source site on January 20, 2004.

LABORATORY ANALYTICAL SUMMARY

Two composite samples (for TCL SVOCs, pesticides, PCBs, and TAL Metals analyses) and two grab samples (for TCL VOC analyses) were collected and submitted to PSA Analytical Services, Inc. The laboratory results, with their comparison to the New York State Department of Environmental Conservation (NYSDEC) recommended soil cleanup objectives given in TAGM 4046, are summarized in Attachment 3 (Table 1).

DATA VALIDATION REVIEW

As required in the S/FMP, data packages were generated by the laboratory (PSC Analytical Services) for the analysis of the two composite samples and two grab samples. The data packages were sent to Data Validation Services (DVS), 120 Cobble Creek Road, P.O. Box 208, North Creek, New York 12853. A Data Usability Summary Report (DUSR) was generated by DVS and is included in Attachment 4.

CLOSING REMARKS

If you should have any questions or comments regarding the contents of this report, please call our office (1-800-821-5911) at your convenience.

Respectively Submitted:

EMPIRE GEO-SERVICES, INC.



Charles B. Guzzetta-Environmental Project Manager

Attachments

Attachment 1- Drawings

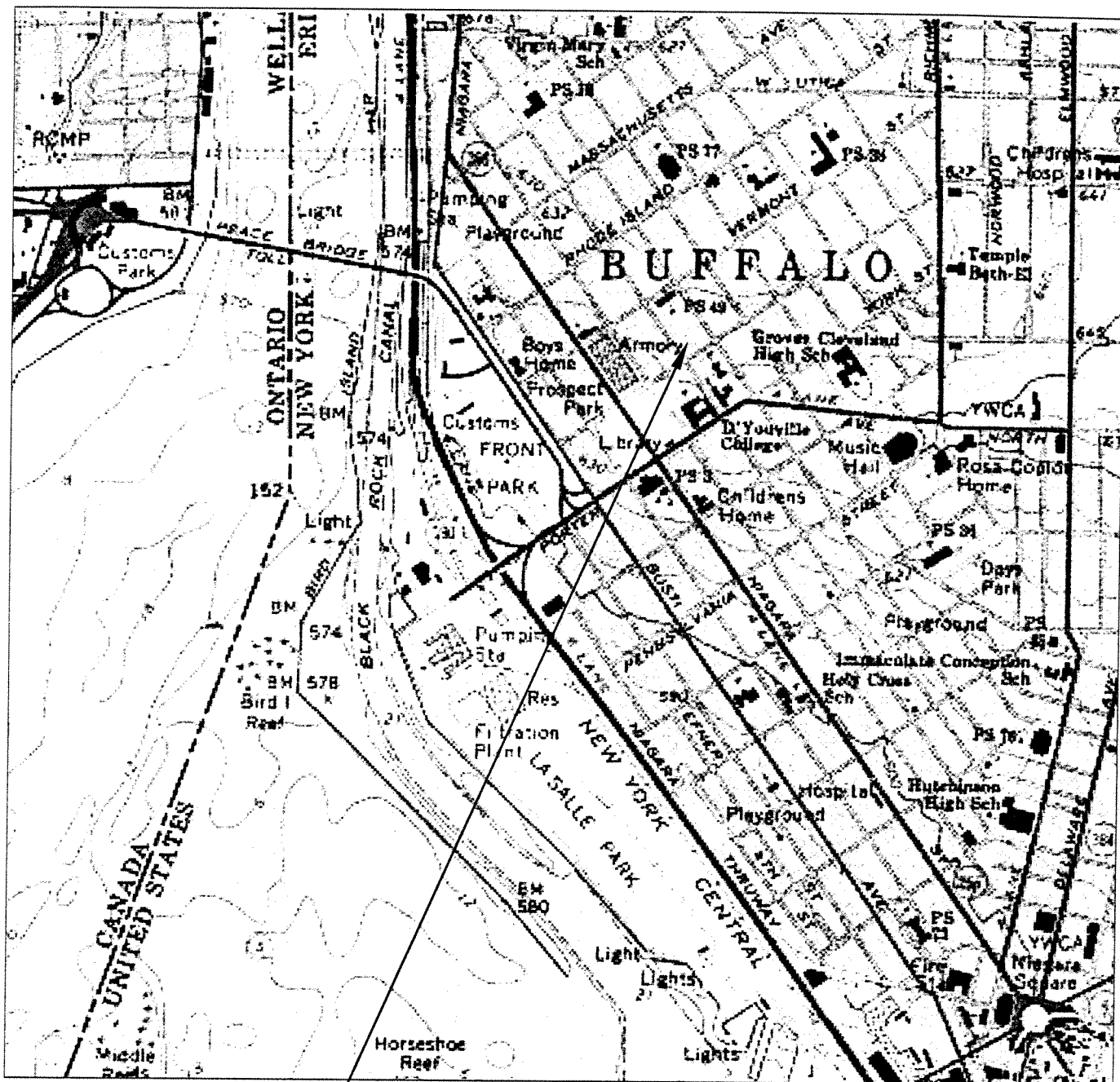
Drawing No. 1-Location Map-USGS Topographic
Drawing No. 2-Site Plan

Attachment 2- PSC's Laboratory Analytical Report

Attachment 3- Table 1 Analytical Result Summary

Attachment 4- Data Usability Summary Report

Attachment 1
Drawings



FILL MATERIAL
SOURCE SITE
LOCATION

EMPIRE **SERVICES INC**

a subsidiary of SJB Services, Inc.

LOCATION MAP

CERTAIN TEED CORPORATION
D'YOUVILLE COLLEGE
BUFFALO, NEW YORK

SCALE:

NTS

DATE:

4/04

REV'D BY:

CG

DWG. FILE:

HANNAFURNACE

PROJ. No.:

BEV-04-002

DRAWING No.:

Attachment 2
PSC's Laboratory Analytical Report

Certificate of Analysis

CLIENT INFORMATION

Attention: Chuck Guzzetta
Client Name: Empire Geo-Services Inc.
Project: BEU-04-001
Project Desc: D'Youville College For Hanna Funace Site

Address: 5167 South Park Ave.
Hamburg, NY
14075
Fax Number: 716-649-8051
Phone Number: 716-649-8110

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040073
Date Received: 20-Jan-2004
Date Reported: 30-Jan-2004

Submission No.: 4A0496
Sample No.: 002264-002267

NOTES:

"-" = not analysed. "<" = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

- (1) Sample concentration(s) too high to differentiate spike
- (2) Matrix interference suspected

Certified by: 

Page 1 of 17

1/30/04

PASC - Certificate of Analysis

Page 2 of 17

Client ID: DC-1 DC-2
 Lab No.: 002265 04 002267 04
 Date Sampled: 20-Jan-2004 20-Jan-2004

Component	MDL	Units		
Cyanide total	0.100	mg/kg	<	<
Mercury	0.04	mg/kg	<	<
Aluminum	5	mg/kg	(1)(2) 12000	3200
Barium	0.5	"	110	13
Beryllium	0.1	"	0.6	0.2
Cadmium	1	"	<	<
Calcium	20	"	72000	68000
Chromium	1	"	18	7.0
Cobalt	5	"	9.0	<
Copper	1	"	18	16
Iron	5	"	21000	7500
Lead	5	"	17	14
Magnesium	5	"	27000	33000
Manganese	1	"	480	260
Molybdenum	1	"	<	<
Nickel	5	"	20	6.0
Phosphorus	10	"	600	370
Potassium	100	"	3100	780
Silver	1.0	"	<	<
Sodium	10	"	290	290
Thallium	10	"	<	<
Vanadium	1	"	24	8.0
Zinc	1	"	70	42
Arsenic	5.0	"	<	<
Antimony	5	"	<	<
Selenium	10	"	<	<

Metals via 6010
 Mercury via 7471
 Cyanide via 9010

1/30/04

PASC - Certificate of Analysis

Page 3 of 17

Component	Client ID:		Method	Blank	%	Blank Spike	%
	Lab No.:		Blank	Spike	Recovery	Duplicate	Recovery
	Date Sampled:		002264 04	002264 04	002264 04	002264 04	002264 04
			20-Jan-2004	20-Jan-2004	20-Jan-2004	20-Jan-2004	20-Jan-2004
	MDL	Units					
Cyanide total	0.100	mg/kg	<	2.6	100	-	-
Mercury	0.04	mg/kg	<	1.1	110	-	-
Aluminum	5	mg/kg	<	200	98	200	98
Barium	0.5	"	<	100	100	100	100
Beryllium	0.1	"	<	50	99	49	98
Cadmium	1	"	<	46	92	46	92
Calcium	20	"	<	970	97	950	95
Chromium	1	"	<	100	100	97	97
Cobalt	5	"	<	100	100	97	97
Copper	1	"	<	100	100	98	98
Iron	5	"	<	1200	99	1200	97
Lead	5	"	<	96	97	98	98
Magnesium	5	"	<	1100	97	1100	96
Manganese	1	"	<	98	98	97	97
Molybdenum	1	"	<	49	98	48	95
Nickel	5	"	<	51	100	48	96
Phosphorus	10	"	<	490	97	480	95
Potassium	100	"	<	980	<	1100	110
Silver	1.0	"	<	51	100	51	100
Sodium	10	"	<	1000	100	1000	100
Thallium	10	"	<	100	99	94	92
Vanadium	1	"	<	50	100	48	96
Zinc	1	"	<	190	97	190	96
Arsenic	5.0	"	<	50	98	50	99
Antimony	5	"	<	45	88	46	90
Selenium	10	"	<	49	98	46	93

Metals via 6010
 Mercury via 7471
 Cyanide via 9010

1/30/04

PASC - Certificate of Analysis

Page 4 of 17

Component	Client ID:		DC-1	DC-1	DC-1	DC-1	DC-1
	Lab No.:		002265 04	002265 04	002265 04	002265 04	002265 04
	Date Sampled:		20-Jan-2004	20-Jan-2004	20-Jan-2004	20-Jan-2004	20-Jan-2004
	MDL	Units	Duplicate	M. Spike	MS % Rec.	MS Dup	MSD % Rec.
Cyanide total	0.100	mg/kg	<	2.6	110	-	-
Mercury	0.04	mg/kg	<	1.1	110	-	-
Aluminum	5	mg/kg	12000	15000	<	14000	<
Barium	0.5	"	110	210	100	210	100
Beryllium	0.1	"	0.6	48	94	48	94
Cadmium	1	"	<	45	88	45	89
Calcium	20	"	73000	73000	100	73000	37
Chromium	1	"	19	110	92	110	92
Cobalt	5	"	9.0	99	90	98	89
Copper	1	"	18	110	96	110	97
Iron	5	"	22000	23000	100	22000	70
Lead	5	"	17	110	90	100	88
Magnesium	5	"	28000	29000	140	29000	140
Manganese	1	"	490	580	96	580	92
Molybdenum	1	"	<	43	85	43	84
Nickel	5	"	22	66	91	65	89
Phosphorus	10	"	600	1100	95	1100	94
Potassium	100	"	3200	4800	160	4600	140
Silver	1.0	"	<	48	97	48	97
Sodium	10	"	290	1300	100	1300	100
Thallium	10	"	<	94	88	92	87
Vanadium	1	"	25	74	98	72	96
Zinc	1	"	71	260	93	260	95
Arsenic	5.0	"	<	47	91	48	92
Antimony	5	"	<	16	30	17	31
Selenium	10	"	<	55	98	51	90

Metals via 6010
 Mercury via 7471
 Cyanide via 9010

PASC - Certificate of Analysis

Component	Client ID:		DC-1		DC-2	
	Lab No.:		002265 04		002267 04	
	Date Sampled:		20-Jan-2004		20-Jan-2004	
	MDL	Units				
Phenol	0.26	mg/kg	<0.52		<0.52	
Bis(2-chloroethyl)ether	0.18	"	<0.36		<0.36	
2-Chlorophenol	0.48	"	<0.96		<0.96	
1,3-Dichlorobenzene	0.20	"	<0.40		<0.40	
1,4-Dichlorobenzene	0.20	"	<0.40		<0.40	
1,2-Dichlorobenzene	0.20	"	<0.40		<0.40	
Bis(2-chloroisopropyl)ether	0.15	"	<0.30		<0.30	
Hexachloroethane	0.20	"	<0.40		<0.40	
N-Nitroso-di-N-Propylamine	0.21	"	<0.42		<0.42	
Nitrobenzene	0.20	"	<0.40		<0.40	
Isophorone	0.40	"	<0.80		<0.80	
2-Nitrophenol	0.14	"	<0.28		<0.28	
2,4-Dimethylphenol	0.17	"	<0.34		<0.34	
Bis(2-chloroethoxy)methane	0.13	"	<0.26		<0.26	
2,4-Dichlorophenol	0.15	"	<0.30		<0.30	
1,2,4-Trichlorobenzene	0.20	"	<0.40		<0.40	
Naphthalene	0.09	"	<0.18		<0.18	
Hexachlorobutadiene	0.20	"	<0.40		<0.40	
4-Chloro-3-Methylphenol	0.15	"	<0.30		<0.30	
Hexachlorocyclopentadiene	0.20	"	<0.40		<0.40	
2,4,6-Trichlorophenol	0.12	"	<0.24		<0.24	
2-Chloronaphthalene	0.34	"	<0.68		<0.68	
Acenaphthylene	0.04	"	<0.08		<0.08	
Dimethyl phthalate	0.11	"	<0.22		<0.22	
2,6-Dinitrotoluene	0.06	"	<0.12		<0.12	
Acenaphthene	0.07	"	<0.14		<0.14	
2,4-Dinitrophenol	0.48	"	<0.96		<0.96	
2,4-Dinitrotoluene	0.22	"	<0.44		<0.44	
4-Nitrophenol	0.17	"	<0.34		<0.34	
Fluorene	0.06	"	<0.12		<0.12	
4-Chlorophenylphenylether	0.09	"	<0.18		<0.18	
Diethyl phthalate	0.11	"	<0.22		<0.22	
4,6-Dinitro-2-methylphenol	0.16	"	<0.32		<0.32	
N-Nitrosodiphenylamine	0.19	"	<0.38		<0.38	
4-Bromophenylphenylether	0.04	"	<0.08		<0.08	
Hexachlorobenzene	0.20	"	<0.40		<0.40	
Pentachlorophenol	0.31	"	<0.62		<0.62	
Phenanthrene	0.03	"	<0.06		<0.06	
Anthracene	0.06	"	<0.12		<0.12	
Di-n-butyl phthalate	0.11	"	<0.22		<0.22	
Fluoranthene	0.05	"	<0.10		<0.10	
Pyrene	0.06	"	<0.12		<0.12	
Benzyl butyl phthalate	0.10	"	<0.20		<0.20	
3,3-Dichlorobenzidine	0.34	"	<0.68		<0.68	
Benzo(a)anthracene	0.05	"	<0.10		<0.10	
Chrysene	0.06	"	<0.12		<0.12	
Bis(2-ethylhexyl)phthalate	0.75	"	<1.5		<1.5	
Di-n-octyl phthalate	0.11	"	<0.22		<0.22	
Benzo(b)fluoranthene	0.04	"	<0.08		<0.08	
Benzo(k)fluoranthene	0.04	"	<0.08		<0.08	

PASC - Certificate of Analysis

Client ID:		DC-1	DC-2
Lab No.:		002265 04	002267 04
Date Sampled:		20-Jan-2004	20-Jan-2004
Component	MDL	Units	
Benzo(a)pyrene	0.05	"	<0.10
Indeno(1,2,3-cd)pyrene	0.06	"	<0.12
Dibenzo(a,h)anthracene	0.06	"	<0.12
Benzo(ghi)perylene	0.05	"	<0.10
Surrogate Recoveries		%	
2-Fluorophenol			58
d5-Phenol			77
d5-Nitrobenzene			66
2-Fluorobiphenyl			71
2,4,6-Tribromophenol			84
d14-p-Terphenyl			81
			75
			86
			57
			73
			92
			94
N-Nitrosodimethylamine	1.0	mg/kg	<2.0
Aniline	0.50	"	<1.0
Benzyl alcohol	0.50	"	<1.0
Carbazole	0.50	"	<1.0
2-Methylphenol	0.50	"	<1.0
3&4-Methylphenol	0.50	"	<1.0
Benzoic acid	0.50	"	<1.0
4-Chloroaniline	0.50	"	<1.0
2-Methylnaphthalene	0.34	"	<0.68
2,4,5-Trichlorophenol	0.10	"	<0.20
2-Nitroaniline	0.50	"	<1.0
3-Nitroaniline	0.50	"	<1.0
Dibenzofuran	0.50	"	<1.0
Benzidine	0.50	"	<1.0
4-Nitroaniline	0.50	"	<1.0

Semi-volatiles via 8270

PASC - Certificate of Analysis

Component	Client ID:		Method	Blank	%	Blank Spike	%
	Lab No.:		Blank	Spike	Recovery	Duplicate	Recovery
	Date Sampled:		002264 04	002264 04	002264 04	002264 04	002264 04
			20-Jan-2004	20-Jan-2004	20-Jan-2004	20-Jan-2004	20-Jan-2004
	MDL	Units					
Phenol	0.26	mg/kg	<0.52	5.9	74	6.5	82
Bis(2-chloroethyl)ether	0.18	"	<0.36	NS	-	NS	-
2-Chlorophenol	0.48	"	<0.96	6.0	76	6.8	85
1,3-Dichlorobenzene	0.20	"	<0.40	NS	-	NS	-
1,4-Dichlorobenzene	0.20	"	<0.40	2.9	73	3.4	85
1,2-Dichlorobenzene	0.20	"	<0.40	NS	-	NS	-
Bis(2-chloroisopropyl)ether	0.15	"	<0.30	NS	-	NS	-
Hexachloroethane	0.20	"	<0.40	NS	-	NS	-
N-Nitroso-di-N-Propylamine	0.21	"	<0.42	3.0	75	3.3	83
Nitrobenzene	0.20	"	<0.40	NS	-	NS	-
Isophorone	0.40	"	<0.80	NS	-	NS	-
2-Nitrophenol	0.14	"	<0.28	NS	-	NS	-
2,4-Dimethylphenol	0.17	"	<0.34	NS	-	NS	-
Bis(2-chloroethoxy)methane	0.13	"	<0.26	NS	-	NS	-
2,4-Dichlorophenol	0.15	"	<0.30	NS	-	NS	-
1,2,4-Trichlorobenzene	0.20	"	<0.40	2.9	73	3.4	84
Naphthalene	0.09	"	0.36	NS	-	NS	-
Hexachlorobutadiene	0.20	"	<0.40	NS	-	NS	-
4-Chloro-3-Methylphenol	0.15	"	<0.30	5.7	71	6.7	83
Hexachlorocyclopentadiene	0.20	"	<0.40	NS	-	NS	-
2,4,6-Trichlorophenol	0.12	"	<0.24	NS	-	NS	-
2-Chloronaphthalene	0.34	"	<0.68	NS	-	NS	-
Acenaphthylene	0.04	"	<0.08	NS	-	NS	-
Dimethyl phthalate	0.11	"	<0.22	NS	-	NS	-
2,6-Dinitrotoluene	0.06	"	<0.12	NS	-	NS	-
Acenaphthene	0.07	"	<0.14	3.0	75	3.4	86
2,4-Dinitrophenol	0.48	"	<0.96	NS	-	NS	-
2,4-Dinitrotoluene	0.22	"	<0.44	2.9	72	3.3	83
4-Nitrophenol	0.17	"	<0.34	5.8	73	7.0	87
Fluorene	0.06	"	<0.12	NS	-	NS	-
4-Chlorophenylphenylether	0.09	"	<0.18	NS	-	NS	-
Diethyl phthalate	0.11	"	<0.22	NS	-	NS	-
4,6-Dinitro-2-methylphenol	0.16	"	<0.32	NS	-	NS	-
N-Nitrosodiphenylamine	0.19	"	<0.38	NS	-	NS	-
4-Bromophenylphenylether	0.04	"	<0.08	NS	-	NS	-
Hexachlorobenzene	0.20	"	<0.40	NS	-	NS	-
Pentachlorophenol	0.31	"	<0.62	6.4	80	7.3	92
Phenanthrene	0.03	"	<0.06	NS	-	NS	-
Anthracene	0.06	"	<0.12	NS	-	NS	-
Di-n-butyl phthalate	0.11	"	<0.22	NS	-	NS	-
Fluoranthene	0.05	"	<0.10	NS	-	NS	-
Pyrene	0.06	"	<0.12	3.2	81	3.6	90
Benzyl butyl phthalate	0.10	"	<0.20	NS	-	NS	-
3,3-Dichlorobenzidine	0.34	"	<0.68	NS	-	NS	-
Benzo(a)anthracene	0.05	"	<0.10	NS	-	NS	-
Chrysene	0.06	"	<0.12	NS	-	NS	-
Bis(2-ethylhexyl)phthalate	0.75	"	<1.5	NS	-	NS	-
Di-n-octyl phthalate	0.11	"	<0.22	NS	-	NS	-
Benzo(b)fluoranthene	0.04	"	<0.08	NS	-	NS	-
Benzo(k)fluoranthene	0.04	"	<0.08	NS	-	NS	-

Client: Empire Geo-Services Inc. Project: BEU-04-001

PASC - Certificate of Analysis

Component	Client ID:		Method	Blank	%	Blank Spike	%
	Lab No.:		Blank	Spike	Recovery	Duplicate	Recovery
	Date Sampled:		002264 04	002264 04	002264 04	002264 04	002264 04
			20-Jan-2004	20-Jan-2004	20-Jan-2004	20-Jan-2004	20-Jan-2004
	MDL	Units					
Benzo(a)pyrene	0.05	"	<0.10	NS	-	NS	-
Indeno(1,2,3-cd)pyrene	0.06	"	<0.12	NS	-	NS	-
Dibenzo(a,h)anthracene	0.06	"	<0.12	NS	-	NS	-
Benzo(ghi)perylene	0.05	"	<0.10	NS	-	NS	-
Surrogate Recoveries		%					
2-Fluorophenol			81	66	66	74	74
d5-Phenol			85	74	74	83	83
d5-Nitrobenzene			81	68	68	76	76
2-Fluorobiphenyl			82	73	73	82	82
2,4,6-Tribromophenol			77	77	77	86	86
d14-p-Terphenyl			90	85	85	94	94
N-Nitrosodimethylamine	1.0	mg/kg	<2.0	NS	-	NS	-
Aniline	0.50	"	<1.0	NS	-	NS	-
Benzyl alcohol	0.50	"	<1.0	NS	-	NS	-
Carbazole	0.50	"	<1.0	NS	-	NS	-
2-Methylphenol	0.50	"	<1.0	NS	-	NS	-
3&4-Methylphenol	0.50	"	<1.0	NS	-	NS	-
Benzoic acid	0.50	"	<1.0	NS	-	NS	-
4-Chloroaniline	0.50	"	<1.0	NS	-	NS	-
2-Methylnaphthalene	0.34	"	<0.68	NS	-	NS	-
2,4,5-Trichlorophenol	0.10	"	<0.20	NS	-	NS	-
2-Nitroaniline	0.50	"	<1.0	NS	-	NS	-
3-Nitroaniline	0.50	"	<1.0	NS	-	NS	-
Dibenzofuran	0.50	"	<1.0	NS	-	NS	-
Benzidine	0.50	"	<1.0	NS	-	NS	-
4-Nitroaniline	0.50	"	<1.0	NS	-	NS	-

Semi-volatiles via 8270

PASC - Certificate of Analysis

Component	Client ID:		DC-2		DC-2		DC-2	
	Lab No.:		002267 04		002267 04		002267 04	
	Date Sampled:		20-Jan-2004		20-Jan-2004		20-Jan-2004	
	MDL	Units	M. Spike	MS % Rec.	MS Dup	MSD % Rec.		
Phenol	0.26	mg/kg	6.9	84	7.0	74		
Bis(2-chloroethyl)ether	0.18	"	NS	-	NS	-		
2-Chlorophenol	0.48	"	7.4	90	7.3	77		
1,3-Dichlorobenzene	0.20	"	NS	-	NS	-		
1,4-Dichlorobenzene	0.20	"	3.0	72	3.2	68		
1,2-Dichlorobenzene	0.20	"	NS	-	NS	-		
Bis(2-chloroisopropyl)ether	0.15	"	NS	-	NS	-		
Hexachloroethane	0.20	"	NS	-	NS	-		
N-Nitroso-di-N-Propylamine	0.21	"	3.3	80	3.7	77		
Nitrobenzene	0.20	"	NS	-	NS	-		
Isophorone	0.40	"	NS	-	NS	-		
2-Nitrophenol	0.14	"	NS	-	NS	-		
2,4-Dimethylphenol	0.17	"	NS	-	NS	-		
Bis(2-chloroethoxy)methane	0.13	"	NS	-	NS	-		
2,4-Dichlorophenol	0.15	"	NS	-	NS	-		
1,2,4-Trichlorobenzene	0.20	"	3.2	77	3.6	77		
Naphthalene	0.09	"	NS	-	NS	-		
Hexachlorobutadiene	0.20	"	NS	-	NS	-		
4-Chloro-3-Methylphenol	0.15	"	6.2	75	6.6	69		
Hexachlorocyclopentadiene	0.20	"	NS	-	NS	-		
2,4,6-Trichlorophenol	0.12	"	NS	-	NS	-		
2-Chloronaphthalene	0.34	"	NS	-	NS	-		
Acenaphthylene	0.04	"	NS	-	NS	-		
Dimethyl phthalate	0.11	"	NS	-	NS	-		
2,6-Dinitrotoluene	0.06	"	NS	-	NS	-		
Acenaphthene	0.07	"	3.4	83	3.7	77		
2,4-Dinitrophenol	0.48	"	NS	-	NS	-		
2,4-Dinitrotoluene	0.22	"	3.5	84	3.7	77		
4-Nitrophenol	0.17	"	7.9	96	7.5	79		
Fluorene	0.06	"	NS	-	NS	-		
4-Chlorophenylphenylether	0.09	"	NS	-	NS	-		
Diethyl phthalate	0.11	"	NS	-	NS	-		
4,6-Dinitro-2-methylphenol	0.16	"	NS	-	NS	-		
N-Nitrosodiphenylamine	0.19	"	NS	-	NS	-		
4-Bromophenylphenylether	0.04	"	NS	-	NS	-		
Hexachlorobenzene	0.20	"	NS	-	NS	-		
Pentachlorophenol	0.31	"	7.9	96	7.9	83		
Phenanthrene	0.03	"	NS	-	NS	-		
Anthracene	0.06	"	NS	-	NS	-		
Di-n-butyl phthalate	0.11	"	NS	-	NS	-		
Fluoranthene	0.05	"	NS	-	NS	-		
Pyrene	0.06	"	3.8	91	4.1	87		
Benzyl butyl phthalate	0.10	"	NS	-	NS	-		
3,3-Dichlorobenzidine	0.34	"	NS	-	NS	-		
Benzo(a)anthracene	0.05	"	NS	-	NS	-		
Chrysene	0.06	"	NS	-	NS	-		
Bis(2-ethylhexyl)phthalate	0.75	"	NS	-	NS	-		
Di-n-octyl phthalate	0.11	"	NS	-	NS	-		
Benzo(b)fluoranthene	0.04	"	NS	-	NS	-		
Benzo(k)fluoranthene	0.04	"	NS	-	NS	-		

PASC - Certificate of Analysis

	<i>Client ID:</i>		DC-2	DC-2	DC-2	DC-2
	<i>Lab No.:</i>		002267 04	002267 04	002267 04	002267 04
	<i>Date Sampled:</i>		20-Jan-2004	20-Jan-2004	20-Jan-2004	20-Jan-2004
Component	MDL	Units	M. Spike	MS % Rec.	MS Dup	MSD % Rec.
Benzo(a)pyrene	0.05	"	NS	-	NS	-
Indeno(1,2,3-cd)pyrene	0.06	"	NS	-	NS	-
Dibenzo(a,h)anthracene	0.06	"	NS	-	NS	-
Benzo(ghi)perylene	0.05	"	NS	-	NS	-
Surrogate Recoveries		%				
2-Fluorophenol			72	72	69	69
d5-Phenol			81	81	75	75
d5-Nitrobenzene			77	77	74	74
2-Fluorobiphenyl			81	81	77	77
2,4,6-Tribromophenol			80	80	78	78
d14-p-Terphenyl			94	94	88	88
N-Nitrosodimethylamine	1.0	mg/kg	NS	-	NS	-
Aniline	0.50	"	NS	-	NS	-
Benzyl alcohol	0.50	"	NS	-	NS	-
Carbazole	0.50	"	NS	-	NS	-
2-Methylphenol	0.50	"	NS	-	NS	-
3&4-Methylphenol	0.50	"	NS	-	NS	-
Benzoic acid	0.50	"	NS	-	NS	-
4-Chloroaniline	0.50	"	NS	-	NS	-
2-Methylnaphthalene	0.34	"	NS	-	NS	-
2,4,5-Trichlorophenol	0.10	"	NS	-	NS	-
2-Nitroaniline	0.50	"	NS	-	NS	-
3-Nitroaniline	0.50	"	NS	-	NS	-
Dibenzofuran	0.50	"	NS	-	NS	-
Benzidine	0.50	"	NS	-	NS	-
4-Nitroaniline	0.50	"	NS	-	NS	-

Semi-volatiles via 8270

PASC - Certificate of Analysis

	Client ID:	DC-1	DC-2
	Lab No.:	002265 04	002267 04
	Date Sampled:	20-Jan-2004	20-Jan-2004
Component	MDL	Units	
Aldrin	0.004	ug/gm	<
a-BHC	0.003	"	<
b-BHC	0.005	"	<
g-BHC (Lindane)	0.002	"	<
d-BHC	0.004	"	<
a-Chlordane	0.005	"	<
g-Chlordane	0.006	"	<
Isodrin	0.004	"	<
p,p'-DDD	0.006	"	<
p,p'-DDE	0.004	"	<
p,p'-DDT	0.009	"	<
Dieldrin	0.006	"	<
a-Endosulfan	0.003	"	<
b-Endosulfan	0.008	"	<
Endosulfan Sulfate	0.005	"	<
Endrin	0.003	"	<
Endrin Ketone	0.005	"	<
Endrin Aldehyde	0.004	"	<
Heptachlor	0.004	"	<
Heptachlor Epoxide	0.003	"	<
Methoxychlor	0.025	"	<
Mirex	0.007	"	<
Toxaphene	0.100	"	<
Surrogate Recoveries		%	
4,4'-Dibromooctafluorobiphenyl			107
Decachlorobiphenyl			108
Aroclor-1016	0.038	ug/gm	<
Aroclor-1221	0.041	"	<
Aroclor-1232	0.038	"	<
Aroclor-1242	0.050	"	<
Aroclor-1248	0.031	"	<
Aroclor-1254	0.059	"	<
Aroclor-1260	0.031	"	<
Aroclor-1262	0.031	"	<
Aroclor-1268	0.049	"	<
Total PCB	0.059	"	<
Surrogate Recoveries		%	
4,4'-Dibromooctafluorobiphenyl			69
Decachlorobiphenyl			83
Pesticides via 8081			
PCB via 8082			

PASC - Certificate of Analysis

Component	Client ID:		Method	Blank	%
	Lab No.:		Blank	Spike	Recovery
	Date Sampled:		002264 04	002264 04	002264 04
			20-Jan-2004	20-Jan-2004	20-Jan-2004
MDL	Units				
Aldrin	0.004	ug/gm	<	0.054	90
a-BHC	0.003	"	<	0.055	91
b-BHC	0.005	"	<	0.060	100
g-BHC (Lindane)	0.002	"	<	0.054	90
d-BHC	0.004	"	<	0.056	94
a-Chlordane	0.005	"	<	0.057	95
g-Chlordane	0.006	"	<	0.057	95
Isodrin	0.004	"	<	0.056	94
p,p'-DDD	0.006	"	<	0.058	96
p,p'-DDE	0.004	"	<	0.057	94
p,p'-DDT	0.009	"	<	0.049	82
Dieldrin	0.006	"	<	0.054	91
a-Endosulfan	0.003	"	<	0.055	92
b-Endosulfan	0.008	"	<	0.060	100
Endosulfan Sulfate	0.005	"	<	0.059	98
Endrin	0.003	"	<	0.055	92
Endrin Ketone	0.005	"	<	0.060	100
Endrin Aldehyde	0.004	"	<	0.051	86
Heptachlor	0.004	"	<	0.061	100
Heptachlor Epoxide	0.003	"	<	0.054	91
Methoxychlor	0.025	"	<	0.27	110
Mirex	0.007	"	<	0.11	95
Toxaphene	0.100	"	<	NA	<
Surrogate Recoveries		%			
4,4'-Dibromooctafluorobiphenyl			100	102	102
Decachlorobiphenyl			97	98	98
Aroclor-1016	0.038	ug/gm	<	0.39	97
Aroclor-1221	0.041	"	<	<	<
Aroclor-1232	0.038	"	<	<	<
Aroclor-1242	0.050	"	<	<	<
Aroclor-1248	0.031	"	<	<	<
Aroclor-1254	0.059	"	<	<	<
Aroclor-1260	0.031	"	<	0.42	100
Aroclor-1262	0.031	"	<	<	<
Aroclor-1268	0.049	"	<	<	<
Total PCB	0.059	"	<	0.80	100
Surrogate Recoveries		%			
4,4'-Dibromooctafluorobiphenyl			86	91	91
Decachlorobiphenyl			97	100	100
Pesticides via 8081					
PCB via 8082					

PASC - Certificate of Analysis

Component	Client ID: DC-2					
	Lab No.: 002267 04					
	Date Sampled: 20-Jan-2004					
	MDL	Units	M. Spike	MS % Rec.	MS Dup	MSD % Rec.
Aldrin	0.004	ug/gm	0.033	73	0.044	85
a-BHC	0.003	"	0.036	79	0.042	81
b-BHC	0.005	"	0.033	73	0.046	88
g-BHC (Lindane)	0.002	"	0.037	81	0.041	80
d-BHC	0.004	"	0.039	85	0.045	86
a-Chlordane	0.005	"	0.038	84	0.046	88
g-Chlordane	0.006	"	0.036	78	0.046	88
Isodrin	0.004	"	0.034	75	0.045	87
p,p'-DDD	0.006	"	0.042	92	0.052	100
p,p'-DDE	0.004	"	0.039	86	0.049	94
p,p'-DDT	0.009	"	0.033	72	0.040	76
Dieldrin	0.006	"	0.038	83	0.046	88
a-Endosulfan	0.003	"	0.035	77	0.047	90
b-Endosulfan	0.008	"	0.038	84	0.046	88
Endosulfan Sulfate	0.005	"	0.039	86	0.046	88
Endrin	0.003	"	0.041	89	0.044	84
Endrin Ketone	0.005	"	0.040	87	0.039	76
Endrin Aldehyde	0.004	"	0.031	67	0.036	69
Heptachlor	0.004	"	0.041	91	0.044	85
Heptachlor Epoxide	0.003	"	0.037	81	0.046	88
Methoxychlor	0.025	"	0.19	100	0.21	100
Mirex	0.007	"	0.075	82	0.092	89
Toxaphene	0.100	"	NA	<	NA	<
Surrogate Recoveries		%				
4,4'-Dibromooctafluorobiphenyl			85	85	84	84
Decachlorobiphenyl			84	84	80	80
Aroclor-1016	0.038	ug/gm	0.28	94	0.40	110
Aroclor-1221	0.041	"	<	<	<	<
Aroclor-1232	0.038	"	<	<	<	<
Aroclor-1242	0.050	"	<	<	<	<
Aroclor-1248	0.031	"	<	<	<	<
Aroclor-1254	0.059	"	<	<	<	<
Aroclor-1260	0.031	"	0.30	100	0.45	120
Aroclor-1262	0.031	"	<	<	<	<
Aroclor-1268	0.049	"	<	<	<	<
Total PCB	0.059	"	0.58	97	0.86	120
Surrogate Recoveries		%				
4,4'-Dibromooctafluorobiphenyl			84	84	96	96
Decachlorobiphenyl			96	96	113	113

Pesticides via 8081
PCB via 8082

PASC - Certificate of Analysis

Client ID: DG-1 DG-2
 Lab No.: 002266 04 002268 04
 Date Sampled: 20-Jan-2004 20-Jan-2004

Component	MDL	Units		
Acetone	0.020	mg/kg	<	<
Acrolein	0.010	"	<	<
Acrylonitrile	0.010	"	<	<
Benzene	0.001	"	<	<
Bromoform	0.001	"	<0.002	<
Bromomethane	0.006	"	<	<
2-Butanone	0.005	"	<	<
Carbon Disulfide	0.001	"	<	<
Carbon Tetrachloride	0.001	"	<	<
Chlorobenzene	0.001	"	<	<
Chlorodibromomethane	0.001	"	<	<
Chloroethane	0.001	"	<	<
Chloroform	0.001	"	<	<
Chloromethane	0.001	"	<	<0.002
1,2-Dichlorobenzene	0.001	"	<0.002	<
1,3-Dichlorobenzene	0.001	"	<0.002	<
1,4-Dichlorobenzene	0.001	"	<0.002	<
Dichlorobromomethane	0.001	"	<	<
1,1-Dichloroethane	0.001	"	<	<
1,2-Dichloroethane	0.001	"	<	<
1,1-Dichloroethene	0.001	"	<	<
Dichloromethane	0.020	"	<	<
Methyl-t-butylether	0.001	"	<	<
Ethylene Dibromide	0.001	"	<	<
1,2-Dibromo-3-Chloropropane	0.005	"	<0.010	<
cis-1,2-Dichloroethene	0.001	"	<	<
trans-1,2-Dichloroethene	0.001	"	<	<
1,2-Dichloropropane	0.001	"	<	<
cis-1,3-Dichloropropene	0.001	"	<	<
trans-1,3-Dichloropropene	0.001	"	<	<
Ethylbenzene	0.001	"	<	<
2-Hexanone	0.005	"	<	<
4-Methyl-2-Pentanone	0.005	"	<	<
Styrene	0.001	"	<	<
1,1,1,2-Tetrachloroethane	0.001	"	<	<
1,1,2,2-Tetrachloroethane	0.001	"	<0.002	<
Tetrachloroethene	0.001	"	<	<
Toluene	0.001	"	0.002	0.002
1,1,1-Trichloroethane	0.001	"	<	<
1,1,2-Trichloroethane	0.001	"	<	<
Trichloroethene	0.001	"	<	<
Trichlorofluoromethane	0.001	"	<	<
Vinyl Chloride	0.001	"	<	<
m&p-Xylene	0.001	"	0.002	0.001
o-Xylene	0.001	"	<	<
Isopropylbenzene	0.001	"	<0.002	<
Surrogate Recoveries		%		
d4-1,2-Dichloroethane			76	68
d8-Toluene			101	81
Bromofluorobenzene			82	83
d10-Ethylbenzene			74	80

Volatiles via 8260

Client: Empire Geo-Services Inc. Project: BEU-04-001

PASC - Certificate of Analysis

	Method	Blank	%
Client ID:	Blank	Spike	Recovery
Lab No.:	002264 04	002264 04	002264 04
Date Sampled:	20-Jan-2004	20-Jan-2004	20-Jan-2004

Component	MDL	Units			
Acetone	0.020	mg/kg	<	0.070	110
Acrolein	0.010	"	<	0.067	110
Acrylonitrile	0.010	"	<	0.056	89
Benzene	0.001	"	<	0.063	100
Bromoform	0.001	"	<	0.069	110
Bromomethane	0.006	"	<	0.037	60
2-Butanone	0.005	"	<	0.066	100
Carbon Disulfide	0.001	"	<	0.050	80
Carbon Tetrachloride	0.001	"	<	0.064	100
Chlorobenzene	0.001	"	<	0.069	110
Chlorodibromomethane	0.001	"	<	0.067	110
Chloroethane	0.001	"	<	0.061	97
Chloroform	0.001	"	<	0.062	99
Chloromethane	0.001	"	<	0.061	97
1,2-Dichlorobenzene	0.001	"	<	0.068	110
1,3-Dichlorobenzene	0.001	"	<	0.071	110
1,4-Dichlorobenzene	0.001	"	<	0.071	110
Dichlorobromomethane	0.001	"	<	0.062	99
1,1-Dichloroethane	0.001	"	<	0.062	99
1,2-Dichloroethane	0.001	"	<	0.061	98
1,1-Dichloroethene	0.001	"	<	0.061	98
Dichloromethane	0.020	"	<	0.060	96
Methyl-t-butylether	0.001	"	<	NS	-
Ethylene Dibromide	0.001	"	<	0.066	110
1,2-Dibromo-3-Chloropropane	0.005	"	<	0.063	100
cis-1,2-Dichloroethene	0.001	"	<	0.065	100
trans-1,2-Dichloroethene	0.001	"	<	0.062	99
1,2-Dichloropropane	0.001	"	<	0.062	99
cis-1,3-Dichloropropene	0.001	"	<	0.065	100
trans-1,3-Dichloropropene	0.001	"	<	0.064	100
Ethylbenzene	0.001	"	<	0.071	110
2-Hexanone	0.005	"	<	0.061	98
4-Methyl-2-Pentanone	0.005	"	<	0.056	90
Styrene	0.001	"	<	0.076	120
1,1,1,2-Tetrachloroethane	0.001	"	<	0.069	110
1,1,2,2-Tetrachloroethane	0.001	"	<	0.063	100
Tetrachloroethene	0.001	"	<	0.070	110
Toluene	0.001	"	<	0.067	110
1,1,1-Trichloroethane	0.001	"	<	0.063	100
1,1,2-Trichloroethane	0.001	"	<	0.065	100
Trichloroethene	0.001	"	<	0.065	100
Trichlorofluoromethane	0.001	"	<	0.063	100
Vinyl Chloride	0.001	"	<	0.069	110
m&p-Xylene	0.001	"	<	0.15	120
o-Xylene	0.001	"	<	0.070	110
Isopropylbenzene	0.001	"	<	0.066	110
Surrogate Recoveries		%			
d4-1,2-Dichloroethane			69	72	72
d8-Toluene			84	83	83
Bromofluorobenzene			84	85	85
d10-Ethylbenzene			102	97	97

Volatiles via 8260

Client: Empire Geo-Services Inc. Project: BEU-04-001

Batch Code: 0121VPC1
Cyanide total 002264 04
002265 04
002267 04
Date Analysed: 04/01/23
Date Prepared: 04/01/21

Batch Code: 0122MBS1
Mercury 002264 04
002265 04
002267 04
Date Analysed: 04/01/22
Date Prepared: 04/01/22

Batch Code: 0123VPB1
Aluminum 002264 04
002265 04
002267 04
Date Analysed: 04/01/23
Date Prepared: 04/01/23

Batch Code: 0123VPB1
Arsenic 002264 04
002265 04
002267 04
Date Analysed: 04/01/23
Date Prepared: 04/01/23

Batch Code: 0123VPB1
Antimony 002264 04
002265 04
002267 04
Date Analysed: 04/01/23
Date Prepared: 04/01/23

Batch Code: 0123VPB1
Selenium 002264 04
002265 04
002267 04
Date Analysed: 04/01/23
Date Prepared: 04/01/23

Batch Code: 0122ND01
Aldrin 002264 04
002265 04
002267 04
Date Analysed: 04/01/26
Date Prepared: 04/01/22

Batch Code: 0122ND01

Aroclor-1016 002264 04
 002265 04
 002267 04
Date Analysed: 04/01/26
Date Prepared: 04/01/22

Batch Code: 0126MC01
Acetone 002264 04
 002266 04
Date Analysed: 04/01/26
Date Prepared: 04/01/26

Batch Code: 0126MC01
cis-1,2-Dichloroethene 002264 04
 002266 04
Date Analysed: 04/01/26
Date Prepared: 04/01/26

Batch Code: 0122SPX2
Phenol 002264 04
 002265 04
 002267 04
Date Analysed: 04/01/28
Date Prepared: 04/01/22

Batch Code: 0122SPX2
2-Chloronaphthalene 002264 04
 002265 04
 002267 04
Date Analysed: 04/01/28
Date Prepared: 04/01/22

Batch Code: 0122SPX2
Di-n-butyl phthalate 002264 04
 002265 04
 002267 04
Date Analysed: 04/01/28
Date Prepared: 04/01/22

Batch Code: 0122SPX2
N-Nitrosodimethylamine 002264 04
 002265 04
 002267 04
Date Analysed: 04/01/28
Date Prepared: 04/01/22

Attachment 3

Table 1 - Analytical Result Summary

Table No. 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA
Fill Materials-D'Youville College
January 20, 2004 Sampling

Analyte	DC-1 (ppm)	DC-2 (ppm)	DG-1 (ppm)	DG-2 (ppm)	TAGM 4046 (ppm)
Total VOCs	-	-	0.004	0.003	10
Toulene	-	-	0.002	0.002	1.5
m&p-Xylene	-	-	0.002	0.001	1.2
Pesticides	ND	ND	-	-	10
PCBs	ND	ND	-	-	1
SVOCs	ND	ND	-	-	500
Metals (parts per million)					
Aluminum	12,000	3,200	-	-	SB
Barium	110	13	-	-	300 or SB
Beryllium	0.6	0.2	-	-	0.16 or SB
Cadmium	ND	ND	-	-	1 or SB
Calcium	72,000	68,000	-	-	SB
Chromium	18	7	-	-	10 or SB
Cobalt	9	ND	-	-	30 or SB
Copper	18	16	-	-	25 or SB
Iron	21,000	7,500	-	-	2,000 or SB
Lead	17	14	-	-	SB
Magnesium	27,000	33,000	-	-	SB
Manganese	480	260	-	-	SB
Molybdenum	ND	ND	-	-	N/A
Nickel	20	6	-	-	13 or SB
Phosphorus	600	370	-	-	N/A
Potassium	3,100	780	-	-	SB
Silver	ND	ND	-	-	SB
Sodium	290	290	-	-	SB
Thallium	ND	ND	-	-	SB
Vanadium	24	8	-	-	150 or SB
Zinc	70	42	-	-	20 or SB
Arsenic	ND	ND	-	-	7.5 or SB
Antimony	ND	ND	-	-	SB
Selenium	ND	ND	-	-	2 or SB
Mercury	ND	ND	-	-	0.1
Cyanide	ND	ND	-	-	**

NOTES:

- 1) SB is site background
- 2) N/A is not available
- 3) TAGM 4046-Required Soil Cleanup Objective (ppm): Metals, VOCs, SVOCs
- 4) TAGM 4046-Soil Cleanup Objectives to Protect Groundwater Quality (ppm): Pesticides
- 5) ppm is parts-per-million

* Cleanup objective varies for each individual contaminant

** Some forms of cyanide are complex and very stable while other forms are pH dependent and hence are very unstable. Site specific form (s) of Cyanide should be taken into consideration when establishing soil cleanup objective

Methods

VOCs via 8260, SVOCs via 8270, Pesticides via 8081, PCBs via 8082, Heavy Metals via 6010, Mercury via 7471, Cyanide via 9010

Attachment 4
Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

April 6, 2004

Charles Guzzetta
Empire Geo-Services, Inc.
5167 SouthPark Ave.
Hamburg, NY 14075

RE: Validation of Hanna Furnace site data packages
PSC Nos. 4A0496

Dear Mr. Guzzetta:

Review has been completed for the data packages generated by PSC Analytical Services that pertain to four soil samples collected 1/20/04 at the Hanna Furnace site. Two samples were analyzed for volatiles, and two samples were analyzed for TCL semivolatiles, TCL pesticides, PCBs, TAL metals, and cyanide. Analysis methods used are those of the USEPA SW846 methods EPA8260B, EPA8270C, EPA8081, EPA8082, EPA6010B, EPA7471A, and EPA9012A.

This Data Usability Summary Report is primarily generated from review of the QC summary form information, with full review of sample raw data, and limited review of associated QC raw data. The validation has been performed in accordance with the 1997 NYSDEC DUSR Guidance document. The data have been reviewed for application of validation qualifiers, with guidance from the USEPA National Functional Guidelines for (In)Organic CLP Data Review, with consideration for the requirements of the specific analytical methodologies. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries and Duplicate Correlations
- * Preparation/Calibration Blanks
- * Laboratory Control Samples (LCS)/Matrix Spike Blanks (MSB)
- * Instrumental Tunes
- * Calibration/CRI Standards
- * ICP Serial Dilution
- * ICP Interference Check Samples
- * Method Compliance
- * Sample Result Verification

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with project requirements.

In summary, all reported results are usable, although organic reporting limits have been edited upward, and all metals results and some of the organic results are qualified as estimated in value.

A copy of the laboratory case narrative is attached to this text, and should be reviewed in conjunction with this report. Also included in this submission are copies of the laboratory sample results tables with recommended qualifiers and edits applied in red ink.

Data Completeness

Due to incorrect project login, the data package was not generated in accordance with the NYSDEC ASP Category B deliverables, and did not include numerous items necessary for the validation review. These items were resubmitted upon request, as noted in the attached communications. Raw data items have been appended to the data packages. Several items required of the NYSDEC ASP Cat. B deliverables were not available. These have been communicated to the laboratory for future submissions.

Solids content of the samples were not reported on the sample report forms, although the determinations were made and organic results were reported on a dry weight basis. Metals and cyanide results are determined from air-dried samples, rather than with the solids determination that is referenced for dry weight reporting in the metals preparation method.

General

Sample results were reported using MDLs as reporting limits. In accordance with the analytical methodologies for the organic analyses, the reporting limits on the attached sample results forms have been edited upward to reflect the concentration corresponding to response at the lowest point of the instrument linearity determinations. Detected results with concentrations below those adjusted limits have been qualified as estimated in value because they are below the established linear range of the instrument.

The samples were received at an elevated cooler temperature of 16 °C, but were received within four hours of sample collection, and were in the process of cooling down. No qualification of sample data is required.

Volatile Analyses by EPA 8260B

The internal standard d4-1,4-dichlorobenzene showed low response in DG-1 (43%, below 50%). Therefore, the results for the associated compounds bromoform, isopropylbenzene, 1,1,2,2-tetrachloroethane, and 1,2-dibromo-3-chloropropane in the parent sample are qualified as estimated ("UJ"), with a possible low bias. This outlier should have been noted in the laboratory case narrative and conformance checklist.

Holding times, instrument tunes, and sample surrogate recoveries were acceptable.

Initial and continuing calibration standards show responses within protocol and validation guidelines.

A sample matrix spike and a duplicate were processed on DG-1, and show acceptable recoveries and duplicate correlations for all analytes except bromomethane (66%). That analyte also recovered below 70% in the associated spiked blank (60%). The results for that analyte in the samples are qualified as estimated, with a possible low bias. The matrix spike and duplicate were not reported on a summary form, but were located in the raw data and reviewed during validation.

The legibility of the spectra provided in the packages was poor.

Semivolatile Analyses by EPA 8270C

Sample DC-1 showed low response for two internal standards, d-12chrysene (48%) and d12- perylene (42%). Results for the thirteen analytes associated with these internal standards are therefore qualified as estimated ("UJ") in that sample. They are the following: pyrene, butybenzylphthalate, benzo(a)anthracene, 3,3-dichlorobenzidine, chrysene, bis(2-ethylhexyl)phthalate, di-n-octylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)-pyrene, and benzo(g,h,i)perylene. These outliers should have been noted in the laboratory case narrative and conformance checklist.

Holding times, instrument tunes, and sample surrogate recoveries were acceptable. Method blanks show no contamination.

Initial and continuing calibration standards show responses within protocol and validation guidelines.

Sample matrix spikes of DC-2 show acceptable accuracy and precision. Spiked blanks show acceptable recoveries and duplicate correlations for the eleven analytes evaluated.

The semivolatile preparation log was not present in the data package, and would have been requested for full validation.

TCL Pesticides and PCBs by EPA 8081 and 8082

Holding times and surrogate recoveries are acceptable. Method blanks show no contamination.

The sample matrix spikes of Aroclors 1016 and 1260 and pesticide on DC-2 show acceptable accuracy and precision.

Initial and continuing calibration determinations were performed on Aroclors 1016 and 1260. Although not reported in the data packages, chromatograms of the other Aroclor mixtures were provided on request for comparison to sample data.

Metals and Cyanide Analyses by EPA 6010B, 7471A, and 9012A

All detected metals and cyanide detected results are qualified as estimated, with a possible low bias, due to use of air dried sample (rather than a true solid determination). It is anticipated that the level of bias is unlikely to exceed about 20%.

The matrix spikes and duplicate of DC-1 show acceptable accuracy and precision, with the exception of the recoveries for antimony (31% and 30%). Results for that element are considered additionally estimated. LCS recoveries were within acceptable ranges.

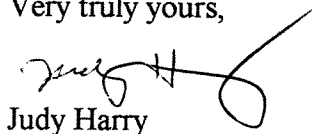
Calibration and CRI standards show good recoveries. Blanks show no contamination above CRDL.

The ICP serial dilution evaluation of DC-1 shows acceptable correlations.

Quarterly/Annual instrumental parameter summaries required of the ASP deliverables are not available.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

LABORATORY SAMPLE IDs AND CASE NARRATIVES

Certificate of Analysis

CLIENT INFORMATION

Attention: Chuck Guzzetta
Client Name: Empire Geo-Services Inc.
Project: BEU-04-001
Project Desc: D'Youville College For Hanna Funace Site

Address: 5167 South Park Ave.
Hamburg, NY
14075
Fax Number: 716-649-8051
Phone Number: 716-649-8110

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040073
Date Received: 20-Jan-2004
Date Reported: 30-Jan-2004

Submission No.: 4A0496
Sample No.: 002264-002267

NOTES:

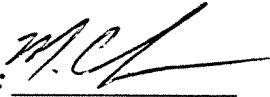
*"-" = not analysed "<" = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.*

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

- (1) Sample concentration(s) too high to differentiate spike
- (2) Matrix interference suspected

Certified by: 

Page 1 of 17

Page 5

PROJECT NARRATIVE

PSC Analytical Services Inc (Burlington ON)

PASCI Project: AN040073

PASCI Submission #:4A0496

Client: Empire Geo-Services Inc.

Client Project: BEU-04-001

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Philip ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Run Date	Initial Calibration
<i>Volatiles via SW846 Method 8260</i>						
002266 04	DG-1	04/01/20	04/01/20	04/01/26	04/01/26	04/01/22
002268 04	DG-2	04/01/20	04/01/20	04/01/26	04/01/26	04/01/22
<i>Semi-volatiles via SW846 Method 8270</i>						
002265 04	DC-1	04/01/20	04/01/20	04/01/22	04/01/28	04/01/26
002267 04	DC-2	04/01/20	04/01/20	04/01/22	04/01/28	04/01/26
<i>Pesticides via SW846 Method 8081</i>						
002265 04	DC-1	04/01/20	04/01/20	04/01/22	04/01/26	04/01/26
002267 04	DC-2	04/01/20	04/01/20	04/01/22	04/01/26	04/01/26
<i>PCB via SW846 Method 8082</i>						
002265 04	DC-1	04/01/20	04/01/20	04/01/22	04/01/26	04/01/26
002267 04	DC-2	04/01/20	04/01/20	04/01/22	04/01/26	04/01/26

Run Date is defined as the date of injection of the last calibration standard (12 hour or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: none encountered

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis.

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

c) Surrogate/Internal Recoveries: except where noted otherwise, all within control limits

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.



Mike Challis, Project Manager

FEB 06 2004

Date

QUALIFIED REPORT FORMS

Component	Client ID:		DC-1		DC-2	
	Lab No.:		002265 04		002267 04	
	Date Sampled:		20-Jan-2004		20-Jan-2004	
Component	MDL	Units				
Phenol	0.26	mg/kg	<0.52	<1.33	<0.52	<1.06
Bis(2-chloroethyl)ether	0.18	"	<0.36		<0.36	
2-Chlorophenol	0.48	"	<0.96		<0.96	
1,3-Dichlorobenzene	0.20	"	<0.40		<0.40	
1,4-Dichlorobenzene	0.20	"	<0.40		<0.40	
1,2-Dichlorobenzene	0.20	"	<0.40		<0.40	
Bis(2-chloroisopropyl)ether	0.15	"	<0.30		<0.30	
Hexachloroethane	0.20	"	<0.40		<0.40	
N-Nitroso-di-N-Propylamine	0.21	"	<0.42		<0.42	
Nitrobenzene	0.20	"	<0.40		<0.40	
Isophorone	0.40	"	<0.80		<0.80	
2-Nitrophenol	0.14	"	<0.28		<0.28	
2,4-Dimethylphenol	0.17	"	<0.34		<0.34	
Bis(2-chloroethoxy)methane	0.13	"	<0.26		<0.26	
2,4-Dichlorophenol	0.15	"	<0.30		<0.30	
1,2,4-Trichlorobenzene	0.20	"	<0.40		<0.40	
Naphthalene	0.09	"	<0.18		<0.18	
Hexachlorobutadiene	0.20	"	<0.40		<0.40	
4-Chloro-3-Methylphenol	0.15	"	<0.30		<0.30	
Hexachlorocyclopentadiene	0.20	"	<0.40		<0.40	
2,4,6-Trichlorophenol	0.12	"	<0.24		<0.24	
2-Chloronaphthalene	0.34	"	<0.68		<0.68	
Acenaphthylene	0.04	"	<0.08		<0.08	
Dimethyl phthalate	0.11	"	<0.22		<0.22	
2,6-Dinitrotoluene	0.06	"	<0.12		<0.12	
Acenaphthene	0.07	"	<0.14		<0.14	
2,4-Dinitrophenol	0.48	"	<0.96		<0.96	
2,4-Dinitrotoluene	0.22	"	<0.44		<0.44	
4-Nitrophenol	0.17	"	<0.34		<0.34	
Fluorene	0.06	"	<0.12		<0.12	
4-Chlorophenylphenylether	0.09	"	<0.18		<0.18	
Diethyl phthalate	0.11	"	<0.22		<0.22	
4,6-Dinitro-2-methylphenol	0.16	"	<0.32		<0.32	
N-Nitrosodiphenylamine	0.19	"	<0.38		<0.38	
4-Bromophenylphenylether	0.04	"	<0.08		<0.08	
Hexachlorobenzene	0.20	"	<0.40		<0.40	
Pentachlorophenol	0.31	"	<0.62		<0.62	
Phenanthrene	0.03	"	<0.06		<0.06	
Anthracene	0.06	"	<0.12		<0.12	
Di-n-butyl phthalate	0.11	"	<0.22		<0.22	
Fluoranthene	0.05	"	<0.10		<0.10	
Pyrene	0.06	"	<0.12	J	<0.12	
Benzyl butyl phthalate	0.10	"	<0.20	J	<0.20	
3,3-Dichlorobenzidine	0.34	"	<0.68	J	<0.68	
Benzo(a)anthracene	0.05	"	<0.10	J	<0.10	
Chrysene	0.06	"	<0.12	J	<0.12	
Bis(2-ethylhexyl)phthalate	0.75	"	<1.5	J	<1.5	
Di-n-octyl phthalate	0.11	"	<0.22	<1.33 J	<0.22	<1.06
Benzo(b)fluoranthene	0.04	"	<0.08	J	<0.08	
Benzo(k)fluoranthene	0.04	"	<0.08	J	<0.08	

Client ID:		DC-1	DC-2
Lab No.:		002265 04	002267 04
Date Sampled:		20-Jan-2004	20-Jan-2004
Component	MDL	Units	
Benzo(a)pyrene	0.05	"	<0.10 ^{<1.33 J}
Indeno(1,2,3-cd)pyrene	0.06	"	<0.12 ^J
Dibenzo(a,h)anthracene	0.06	"	<0.12 ^J
Benzo(ghi)perylene	0.05	"	<0.10 ^{<1.06}
Surrogate Recoveries		%	
2-Fluorophenol			58 77
d5-Phenol			66 84
d5-Nitrobenzene			71 81
2-Fluorobiphenyl			75 86
2,4,6-Tribromophenol			57 73
d14-p-Terphenyl			92 94
N-Nitrosodimethylamine	1.0	mg/kg	<2.0 <2.0
Aniline	0.50	"	<1.0 <1.0
Benzyl alcohol	0.50	"	<1.0 <1.0
Carbazole	0.50	"	<1.0 <1.0
2-Methylphenol	0.50	"	<1.0 <1.0
3&4-Methylphenol	0.50	"	<1.0 <1.0
Benzoic acid	0.50	"	<1.0 <1.0
4-Chloroaniline	0.50	"	<1.0 <1.0
2-Methylnaphthalene	0.34	"	<0.68 <0.68
2,4,5-Trichlorophenol	0.10	"	<0.20 <0.20
2-Nitroaniline	0.50	"	<1.0 <1.0
3-Nitroaniline	0.50	"	<1.0 <1.0
Dibenzofuran	0.50	"	<1.0 <1.0
Benzidine	0.50	"	<1.0 <1.0
4-Nitroaniline	0.50	"	<1.0 <1.0

Semi-volatiles via 8270

Client ID:			DC-1	DC-2
Lab No.:			002265 04	002267 04
Date Sampled:			20-Jan-2004	20-Jan-2004
Component	MDL	Units		
Aldrin	0.004	ug/gm	< 0.018	< 0.017
a-BHC	0.003	"	<	<
b-BHC	0.005	"	<	<
g-BHC (Lindane)	0.002	"	<	<
d-BHC	0.004	"	<	<
a-Chlordane	0.005	"	<	<
g-Chlordane	0.006	"	<	<
Isodrin	0.004	"	<	<
p,p'-DDD	0.006	"	<	<
p,p'-DDE	0.004	"	<	<
p,p'-DDT	0.009	"	<	<
Dieldrin	0.006	"	<	<
a-Endosulfan	0.003	"	<	<
b-Endosulfan	0.008	"	<	<
Endosulfan Sulfate	0.005	"	<	<
Endrin	0.003	"	<	<
Endrin Ketone	0.005	"	<	<
Endrin Aldehyde	0.004	"	<	<
Heptachlor	0.004	"	<	<
Heptachlor Epoxide	0.003	"	<	<
Methoxychlor	0.025	"	<	<
Mirex	0.007	"	<	<
Toxaphene	0.100	"	<	<
Surrogate Recoveries			%	
4,4'-Dibromooctafluorobiphenyl			107	89
Decachlorobiphenyl			108	88
Aroclor-1016	< 0.35	0.038 ug/gm	< 0.35	< 0.35
Aroclor-1221		0.041 "	<	<
Aroclor-1232		0.038 "	<	<
Aroclor-1242		0.050 "	<	<
Aroclor-1248		0.031 "	<	<
Aroclor-1254		0.059 "	<	<
Aroclor-1260		0.031 "	<	<
Aroclor-1262		0.031 "	<	<
Aroclor-1268		0.049 "	<	<
Total PCB		0.059 "	<	<
Surrogate Recoveries			%	
4,4'-Dibromooctafluorobiphenyl			69	78
Decachlorobiphenyl			83	96

Pesticides via 8081
PCB via 8082

PASC - Certificate of Analysis

1/30/04

Component	Client ID:		DC-1	DC-2
	Lab No.:		002265 04	002267 04
	Date Sampled:		20-Jan-2004	20-Jan-2004
	MDL	Units		
Cyanide total	0.100	mg/kg	< J	< J
Mercury	0.04	mg/kg	< J	< J
Aluminum	5	mg/kg	(1)(2)	3200
Barium	0.5	"	110	13
Beryllium	0.1	"	0.6	0.2
Cadmium	1	"	<	<
Calcium	20	"	72000	68000
Chromium	1	"	18	7.0
Cobalt	5	"	9.0	<
Copper	1	"	18	16
Iron	5	"	21000	7500
Lead	5	"	17	14
Magnesium	5	"	27000	33000
Manganese	1	"	480	260
Molybdenum	1	"	<	<
Nickel	5	"	20	6.0
Phosphorus	10	"	600	370
Potassium	100	"	3100	780
Silver	1.0	"	<	<
Sodium	10	"	290	290
Thallium	10	"	<	<
Vanadium	1	"	24	8.0
Zinc	1	"	70	42
Arsenic	5.0	"	<	<
Antimony	5	"	<	<
Selenium	10	"	<	<

Metals via 6010
Mercury via 7471
Cyanide via 9010

Client ID:

DG-1

DG-2

Lab No.:

002266 04

002268 04

Date Sampled:

20-Jan-2004

20-Jan-2004

Component	MDL	Units		
Acetone	0.020	mg/kg	<	<
Acrolein	0.010	"	<	<
Acrylonitrile	0.010	"	<	<
Benzene	0.0025	"	<	<
Bromoform	0.0025	"	<0.0025 J	<
Bromomethane	0.006	"	< J	< J
2-Butanone	0.005	"	<	<
Carbon Disulfide	0.0025	"	<	<
Carbon Tetrachloride	0.001	"	<	<
Chlorobenzene	0.001	"	<	<
Chlorodibromomethane	0.001	"	<	<
Chloroethane	0.001	"	<	<
Chloroform	0.001	"	<	<
Chloromethane	0.010	"	<	<0.0025
1,2-Dichlorobenzene	0.0025	"	<0.0025	<
1,3-Dichlorobenzene	0.001	"	<0.0025	<
1,4-Dichlorobenzene	0.001	"	<0.0025	<
Dichlorobromomethane	0.001	"	<	<
1,1-Dichloroethane	0.001	"	<	<
1,2-Dichloroethane	0.001	"	<	<
1,1-Dichloroethene	0.001	"	<	<
Dichloromethane	0.020	"	<	<
Methyl-t-butylether	0.0025	"	<	<
Ethylene Dibromide	0.0025	"	<	<
1,2-Dibromo-3-Chloropropane	0.010	"	<0.010 J	<
cis-1,2-Dichloroethene	0.0025	"	<	<
trans-1,2-Dichloroethene	0.001	"	<	<
1,2-Dichloropropane	0.001	"	<	<
cis-1,3-Dichloropropene	0.001	"	<	<
trans-1,3-Dichloropropene	0.001	"	<	<
Ethylbenzene	0.001	"	<	<
2-Hexanone	0.010	"	<	<
4-Methyl-2-Pentanone	0.010	"	<	<
Styrene	0.0025	"	<	<
1,1,1,2-Tetrachloroethane	0.001	"	<	<
1,1,1,2,2-Tetrachloroethane	0.001	"	<0.0025	<
Tetrachloroethene	0.001	"	<	<
Toluene	0.001	"	0.002 J	0.002 J
1,1,1-Trichloroethane	0.001	"	<	<
1,1,2-Trichloroethane	0.001	"	<	<
Trichloroethene	0.001	"	<	<
Trichlorofluoromethane	0.001	"	<	<
Vinyl Chloride	0.001	"	<	<
m&p-Xylene	0.001	"	0.002 J	0.001 J
o-Xylene	0.001	"	<	<
Isopropylbenzene	0.001	"	<0.0025 J	<

Surrogate Recoveries

%

d4-1,2-Dichloroethane	76	68
d8-Toluene	101	81
Bromofluorobenzene	82	83
d10-Ethylbenzene	74	80

Volatiles via 8260

Client:Empire Geo-Services Inc. Project:BEU-04-001



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SJB Services, Inc.
5167 South Park Avenue
Hamburg, New York 14075

Attention: Chuck Guzzetta

SOG: 8SV-1
Proj: 040624021
Inv: 13980



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TITLE PAGE

On June 24, 2004 one soil sample was received by Adirondack Environmental Services, Inc. from SJB Services at the Hanna Furnace site. This sample was analyzed for Volatile Organics, Semi-Volatile Organics, PCB's, Metals and Cyanide in accordance with methodology as detailed by the contract. The project was completed on July 30, 2004.

A handwritten signature in black ink, appearing to read "L. A. R.", is written over a horizontal line.

Laboratory Manager

Date:

7/30/04



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SAMPLE DATA

SUMMARY PACKAGE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	*VOA GC/MS Method	*BNA GC/MS Method	*PCB GC Method	*Pest GC Method	*Metals	*Other CN
CSV-1	040624021-001	X	X	X	X	X	X

000001

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
040624021-001	SOIL	6/23/04	6/24/04	N/A	6/30/04

000002

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
040624021-001	SOIL	6/23/04	6/24/04	6/29/04	7/12/04

000003

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE / PCB
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
040624021-001	SOIL	6/23/04	6/24/04	6/28/04	6/29/04

000004

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Prepared	Date Analyzed
040624021-001	SOIL	ICP	6/24/04	6/30/04	7/6/04
		Mercury		7/1/04	7/1/04
		Cyanide		6/28/04	7/1/04

000005



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Case Narrative**Client: SJB Services – Hanna Furnace****Case: SJB 0401****SDG: CSV-1**

<u>Sample ID</u>	<u>Laboratory Sample ID</u>	<u>Date Received</u>	<u>VTSR</u>	<u>Matrix</u>
CSV-1	040624021-001	06/24/04	11:00	Soil

Volatile Organics

- 1) The samples were analyzed using the criteria for NYSDEC ASP 2000.
- 2) The %RSD's for the compounds Bromoform and 1,1,2,2-Tetrachloroethane in the initial calibration analyzed on 6/30/04 were outside the criteria established by the method. The %RSD's for these compounds were 27.9 % and 32.8 %, respectively. According to the protocol, two volatile organic compounds may exceed the %RSD limit of 20.5 % as long as the %RSD is less than 40 % and the RRF is above 0.010. The %RSD was below 40 % and the RRF was greater than 0.010 for these compounds.
- 3) Sample CSV-1 (AES sample number 040624021-001) was used for the soil matrix spike and the matrix spike duplicate analysis. All recoveries were within acceptable limits.
- 4) The column used in Instrument C for analysis was an RTX-502.2, 60 meters long with an internal diameter of 0.32 mm. The trap used for this instrument is a VOCARB 4000 with Carboxen C&B / Carboxen 1000 & 1001.

Semi-Volatile Organics

- 1) The samples were analyzed using the criteria for NYSDEC ASP 2000.
- 2) The %D for the compound Pentachlorophenol in the continuing calibration analyzed on 7/12/04 was outside the criteria established by the method. The %D for this compound was 27.7 %. The RRF's for the compounds n-Nitroso-di-n-propylamine and Benzo(b)fluoranthene in the continuing calibration analyzed on 7/12/04 were outside the criteria established by the method. The RRF for these compounds were 0.446 and 0.688, respectively. According to the protocol, four semi-volatile organic compounds may exceed the %D limit of 25.0 % as long as the %D is less than 40 % and the RRF is above 0.010. The %D was less than 40 % and the RRF was greater than 0.010 for these compounds.

000006



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- 3) Sample CSV-1 (AES sample number 040624021-001) was used for the matrix spike and the matrix spike duplicate analysis. All recoveries were within acceptable limits.

Pesticide / PCB

- 1) The samples were analyzed using the criteria for NYSDEC ASP 2000.
- 2) Peak area was used to calculate all values appearing in this data package.
- 3) The primary quantitation column is identified as DB1701 and the confirmation column is identified as DB608.
- 4) The injection volume for the primary column was 1.5 uL and the injection volume for the confirmation column was 1.5 uL.
- 5) All samples were sulfur cleaned prior to analysis as necessary.
- 6) Sample CSV-1 (AES sample number 040624021-001) was used for the soil matrix spike and the matrix spike duplicate analysis. The recovery for gamma-BHC in the matrix spike was outside specified limits. According to the protocol, a matrix spike blank must be analyzed. A matrix spike blank was analyzed and all recoveries were within acceptable limits.

Inorganics - Total Metals

- 1) The recovery for Calcium and Iron in the ICSA and the ICSAB check standards were outside the required limit. The required concentration for these analytes in the check standards is 500,000 ug/L and 200,000 ug/L, respectively. The linear range on this instrument for Calcium and Iron is 200,000 ug/L and 100,000 ug/L, respectively. At this level accurate recovery of Calcium and Iron in the check standards is not possible. No further action is required.
- 2) The digested spike recoveries for the elements Antimony, Lead and Selenium for sample CSV-1 (AES sample number 040624021-001) were outside the required 75-125 % limits. A post digestion spike was performed and the recoveries for Lead and Selenium were outside acceptable limits. The results for these elements are flagged with an "N" as specified by the protocol. This indicates possible matrix interference.
- 3) The elements Aluminum, Iron, Potassium, Sodium and Zinc for sample CSV-1 (AES sample number 040624021-001) did not meet the serial dilution criteria of 10 %. These elements are flagged with an "E" as required by the protocol. The "E" denotes an estimated value. This indicates a possible chemical or physical interference.

000007



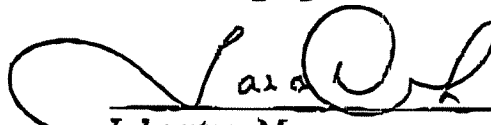
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Conventional

- 1) Sample CSV-1 (AES sample number 040624021-001) was used for the matrix spike and the duplicate analysis. All recoveries were within acceptable limits.

"I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."



Laboratory Manager

Date: 7/30/04

000008

EPA SAMPLE NO.

CSV-1

Contract:

Case No. : SJB0401

SAS No. :

SDG No.: CSV-1

Lab Sample ID: CSV-1

Lab File ID: C1211

Date Received: 06/24/04

Date Analyzed: 06/30/04

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

FORM I VOA

3/90

CONFIDENTIAL

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSV-1

Lab Name: AES, Inc.

Lab Code: AES

Matrix: (soil/water) SOIL

Sample wt/vol: 5.000 (g/mL) G

Level: (low/med) LOW

% Moisture: not dec. 12.

GC Column: RTX502.2 ID: .32 (mm)

Soil Extract Volume: _____ (uL)

Contract:

Case No.: SJB0401 SAS No.:

SDG No.: CSV-1

Lab Sample ID: CSV-1

Lab File ID: C1211

Date Received: 06/24/04

Date Analyzed: 06/30/04

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

1634-04-4-----Methyl t-butyl ether	11.	U
75-71-8-----Dichlorodifluoromethane	11.	U
79-20-9-----Methyl Acetate	11.	U
76-13-1-----Freon 113	11.	U
75-69-4-----Trichlorofluoromethane	11.	U
110-82-7-----Cyclohexane	11.	U
106-87-2-----Methylcyclohexane	11.	U
106-93-4-----1,2-Dibromoethane	11.	U
1330-20-7-----m,p-Xylenes	11.	U
541-73-1-----1,3-Dichlorobenzene	11.	U
98-82-8-----Isopropylbenzene	11.	U
106-46-7-----1,4-Dichlorobenzene	11.	U
95-50-1-----1,2-Dichlorobenzene	11.	U
96-12-8-----1,2-dibromo-3-chloro-Propane	11.	U
120-82-1-----1,2,4-Trichlorobenzene	11.	U

FORM I VOA

3/90

000010

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CSV-1

Lab Name: AES, Inc.

Lab Code: AES

Case No.: SJB0401

Contract:

SAS No.:

SDG No.: CSV-1

Matrix: (soil/water) SOIL

Sample wt/vol: 5.000 (g/mL) G

Lab Sample ID: CSV-1

Level: (low/med) LOW

Lab File ID: C1211

% Moisture: not dec. 12.

Date Received: 06/24/04

GC Column: RTX502.2 ID: .32 (mm)

Date Analyzed: 06/30/04

Soil Extract Volume: (uL)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	OXYGENATED COMPOUND	4.06	6.	J
2. 141-78-6	ACETIC ACID, ETHYL ESTER	7.63	6.	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
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19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1 VOA-TIC

3/90

000011

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSV-1

Lab Name: AES, Inc.

Lab Code: AES

Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G

Level: (low/med) LOW

% Moisture: 12. decanted: (Y/N) N

Concentrated Extract Volume: 2000.0 (uL)

Injection Volume: 2.0 (uL)

GPC Cleanup: (Y/N) N pH: 8.2

Contract:

Case No.: SJB0401 SAS No.:

SDG No.: CSV-1

Lab Sample ID: CSV-1

Lab File ID: B1810

Date Received: 06/24/04

Date Extracted: 06/29/04

Date Analyzed: 07/12/04

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

108-95-2-----	Phenol	380.	U
111-44-4-----	bis(2-Chloroethyl) ether	380.	U
95-57-8-----	2-Chlorophenol	380.	U
541-73-1-----	1,3-Dichlorobenzene	380.	U
106-46-7-----	1,4-Dichlorobenzene	380.	U
95-50-1-----	1,2-Dichlorobenzene	380.	U
95-48-7-----	2-Methylphenol	380.	U
108-60-1-----	bis(2-chloroisopropyl) ether	380.	U
106-44-5-----	4-Methylphenol	380.	U
621-64-7-----	n-Nitroso-di-n-propylamine	380.	U
67-72-1-----	Hexachloroethane	380.	U
98-95-3-----	Nitrobenzene	380.	U
78-59-1-----	Isophorone	380.	U
88-75-5-----	2-Nitrophenol	380.	U
105-67-9-----	2,4-Dimethylphenol	380.	U
111-91-1-----	bis(2-Chloroethoxy) methane	380.	U
120-83-2-----	2,4-Dichlorophenol	380.	U
120-82-1-----	1,2,4-Trichlorobenzene	380.	U
91-20-3-----	Naphthalene	380.	U
106-47-8-----	4-Chloroaniline	380.	U
87-68-3-----	Hexachlorobutadiene	380.	U
59-50-7-----	4-Chloro-3-methylphenol	380.	U
91-57-6-----	2-Methylnaphthalene	380.	U
77-47-4-----	Hexachlorocyclopentadiene	380.	U
88-06-2-----	2,4,6-Trichlorophenol	380.	U
95-95-4-----	2,4,5-Trichlorophenol	380.	U
91-58-7-----	2-Chloronaphthalene	380.	U
88-74-4-----	2-Nitroaniline	380.	U
131-11-3-----	Dimethylphthalate	1900.	U
208-96-8-----	Acenaphthylene	380.	U
606-20-2-----	2,6-Dinitrotoluene	380.	U
99-09-2-----	3-Nitroaniline	380.	U
83-32-9-----	Acenaphthene	1900.	U
		380.	U

FORM I SV-1

3/90

000012

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: AES, Inc.

Lab Code : AES

Case No. : SJB0401

Contract:

SAS No. :

CSV-1

SDG No. : CSV-1

Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G

Lab Sample ID: CSV-1

Level: (low/med) LOW

Lab File ID: B1810

% Moisture: 12. decanted: (Y/N) N

Date Received: 06/24/04

Concentrated Extract Volume: 2000.0 (uL)

Date Extracted: 06/29/04

Injection Volume: 2.0 (uL)

Date Analyzed: 07/12/04

GPC Cleanup: (Y/N) N pH: 8.2

Dilution Factor: 1.0

pH: 8.2

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

51-28-5-----2,4-Dinitrophenol	1900.	U
100-02-7-----4-Nitrophenol	1900.	U
132-64-9-----Dibenzofuran	380.	U
121-14-2-----2,4-Dinitrotoluene	380.	U
84-66-2-----Diethylphthalate	380.	U
7005-72-3-----4-Chlorophenyl-phenylether	380.	U
86-73-7-----Fluorene	380.	U
100-01-6-----4-Nitroaniline	1900.	U
534-52-1-----4,6-Dinitro-2-methylphenol	1900.	U
86-30-6-----n-Nitrosodiphenylamine	380.	U
101-55-3-----4-Bromophenyl-phenylether	380.	U
118-74-1-----Hexachlorobenzene	380.	U
87-86-5-----Pentachlorophenol	1900.	U
85-01-8-----Phenanthrene	380.	U
120-12-7-----Anthracene	380.	U
86-74-8-----Carbazole	380.	U
84-74-2-----Di-n-butylphthalate	380.	U
206-44-0-----Fluoranthene	380.	U
129-00-0-----Pyrene	380.	U
85-68-7-----Butylbenzylphthalate	380.	U
91-94-1-----3,3'-Dichlorobenzidine	760.	U
56-55-3-----Benzo (a) anthracene	380.	U
218-01-9-----Chrysene	380.	U
117-81-7-----bis (2-Ethylhexyl) phthalate	380.	U
117-84-0-----Di-n-octylphthalate	380.	U
205-99-2-----Benzo (b) fluoranthene	380.	U
207-08-9-----Benzo (k) fluoranthene	380.	U
50-32-8-----Benzo (a) pyrene	380.	U
193-39-5-----Indeno (1,2,3-cd) pyrene	380.	U
53-70-3-----Dibenzo (a, h) anthracene	380.	U
191-24-2-----Benzo (g, h, i) perylene	380.	U

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

000013

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSV-1

Lab Name: AES, Inc.

Lab Code: AES

Case No.: SJB0401

Contract:

SAS No.:

SDG No.: CSV-1

Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G

Lab Sample ID: CSV-1

Level: (low/med) LOW

Lab File ID: B1810

% Moisture: 12. decanted: (Y/N) N

Date Received: 06/24/04

Concentrated Extract Volume: 2000.0 (uL)

Date Extracted: 06/29/04

Injection Volume: 2.0 (uL)

Date Analyzed: 07/12/04

GPC Cleanup: (Y/N) N

pH: 8.2

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	29.94	160.	J
2.				
3.				
4.				
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30.				

FORM I SV-TIC

3/90

000014

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSV-1

Lab Name:	AES, INC.	Contract:	
Lab Code:	AES	Case No. SJB 0401	SAS No.:
Matrix: (soil/water)	Soil	SDG No.:	CSV-1
Sample wt/vol:	30.0 G	Lab Sample ID:	CSV-1
% Moisture:	12.0	Lab File ID:	B1335
Extraction: (SepF/Cont/Sonc)	Sonc	Date Received:	06/24/04
Concentrated Extract Volume:	10000 uL	Date Extracted:	06/28/04
Injection Volume:	1.5 uL	Date Analyzed:	06/29/04
GPC Cleanup: (Y/N)	N	Dilution Factor:	1.0
	pH: 8.2	Sulfur Cleanup: (Y/N)	Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q	
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC(Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	1.9	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	3.8	U
53494-70-5	Endrin Ketone	3.8	U
7421-36-3	Endrin Aldehyde	3.8	U
5103-71-9	alpha-Chlordane	3.8	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	1.9	U
12674-11-2	Aroclor 1016	190	U
11104-28-2	Aroclor 1221	38	U
11141-16-8	Aroclor 1232	38	U
53469-21-9	Aroclor 1242	38	U
12672-29-6	Aroclor 1248	38	U
11097-69-1	Aroclor 1254	38	U
11096-82-5	Aroclor 1260	38	U

000015

EPA SAMPLE NO.

Contract: _____

CSV-1

Case No.: SJB_0401 SAS No.:

SDG No. : CSV-1

Lab Sample ID: CSV-1

Date Received: 06/24/04

g Solids; 88.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Color Before: _____ Clarity Before: _____ Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____



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Malcolm Pirnie
40 Centre Drive
Orchard Park, New York 14127

Attention: Jim Richert

RECEIVED	
JAN 04 2005	
MALCOLM PIRNIE	
BUFFALO	
ROUTE:	
JOB #	
FILE:	



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TITLE PAGE

On November 12, 2004 one soil sample was received by Adirondack Environmental Services, Inc. from Malcolm Pirnie at the Certain Teed site. These samples were analyzed for Volatile Organics, Semi-Volatile Organics, Pesticide/PCBs, Metals and Cyanide in accordance with methodology as detailed by the contract. The project was completed on January 3, 2005.

Laboratory Manager

Date: 1/3/05



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SAMPLE DATA

SUMMARY PACKAGE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	*VOA GC/MS Method	*BNA GC/MS Method	*PCB GC Method	*Pest GC Method	*Herb GC Method	*Metals	*Other CN
VSOIL 2	041112012-001	X	X	X	X		X	X

000001

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
041112012-001	SOIL	11/11/04	11/12/04	N/A	11/12/04

000002

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
041112012-001	SOIL	11/11/04	11/12/04	11/12/04	11/12/04

000003

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
041112012-001	SOIL	11/11/04	11/12/04	11/12/04	11/12/04

000004

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Prepared	Date Analyzed
041112012-001	SOIL	ICP	11/12/04	11/15/04	11/15/04
		Mercury		11/15/04	11/15/04
		Cyanide	11/12/04	11/12/04	11/12/04

000005



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Case Narrative

Client: Malcolm Pirnie – Certain Teed site

Case: MP 0402

SDG: VSOIL 2

<u>Sample ID</u>	<u>Laboratory Sample ID</u>	<u>Date Received</u>	<u>VTSR</u>	<u>Matrix</u>
VSOIL 2	041112012-003	11/12/04	10:30	Soil

Volatile Organics

- 1) The samples were analyzed using EPA Method 8260 following the criteria for NYSDEC ASP.
- 2) The %RSD for the compound Bromoform in the initial calibration analyzed on 10/5/04 was outside the criteria established by the method. The %RSD for this compound was 29.8 %. According to the protocol, two volatile organic compounds may exceed the %RSD limit of 20.5 % as long as the %RSD is less than 40 % and the RRF is above 0.010. The %RSD was less than 40 % and the RRF was greater than 0.010 for this compound.
- 3) Sample VSOIL 2 (AES sample number 041112012-001) was used for the matrix spike and the matrix spike duplicate analysis. All recoveries were within acceptable limits.
- 4) The column used in Instrument C for analysis was an RTX-502.2, 60 meters long with an internal diameter of 0.32 mm. The trap used for this instrument is a VOCARB 4000 with Carbopack C&B / Carboxen 1000 & 1001.

Semi-Volatile Organics

- 1) The samples were analyzed using EPA Method 8270 following the criteria for NYSDEC ASP.
- 2) Sample VSOIL 2 (AES sample number 041112012-001) was used for the matrix spike and the matrix spike duplicate analysis. All recoveries were within acceptable limits.
- 3) The internal standard recovery for Perylene-d12 on sample SMSB (AES sample number Matrix Spike Blank) was outside specified limits. According to the protocol, the matrix spike, matrix spike duplicate and matrix spike blank are not re-analyzed for internal standards outside the specified range. No further action is necessary.

000006



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Pesticides

- 1) The samples were analyzed using EPA Method 8081/8082 following the criteria for NYSDEC ASP.
- 2) Peak area was used to calculate all values appearing in this data package.
- 3) The primary quantitation column is identified as DB1701 and the confirmation column is identified as DB608.
- 4) All samples were sulfur cleaned prior to analysis as necessary.
- 5) Sample VSOIL 2 (AES sample number 041112012-001) was used for soil matrix spike and the matrix spike duplicate analysis. All recoveries were within acceptable limits.

Inorganics – Metals

- 1) The recovery for Calcium and Iron in the ICSA and the ICSAB check standards were outside the required limit. The required concentration for these analytes in the check standards is 500,000 ug/L and 200,000 ug/L, respectively. The linear range on this instrument for Calcium and Iron is 200,000 ug/L and 80,000 ug/L, respectively. At this level accurate recovery of Calcium and Iron in the check standards is not possible. No further action is required.
- 2) The digested spike recoveries for the elements Lead, Manganese, Selenium, Silver and Thallium for VSOIL 2 (AES sample number 041112012-001) were outside the required 75-125 % limits. A post digestion spike was performed and the recovery for Lead and Silver were outside acceptable limits. The results for these elements are flagged with an "N" as specified by the protocol. This indicates possible matrix interference.
- 3) The elements Aluminum, Calcium, Iron, Manganese, Potassium, Sodium and Zinc for sample VSOIL 2 (AES sample number 041112012-001) did not meet the serial dilution criteria of 10 %. These elements are flagged with an "E" as required by the protocol. The "E" denotes an estimated value. This indicates a possible chemical or physical interference.

Conventionals

- 1) A matrix spike and the duplicate analysis were not performed for this sample. A laboratory control sample was analyzed and all recoveries were within acceptable limits.

000007



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"I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

A handwritten signature in black ink, appearing to read "Lara R. L.", is written over a horizontal line.

Laboratory Manager

Date:

1/3/05

000008

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSOIL 2

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: MP0402 SAS No.: _____
 Matrix: (soil/water) SOIL SDG No.: VSOIL 2
 Sample wt/vol: 5.000 (g/mL) G Lab Sample ID: VSOIL 2
 Level: (low/med) LOW Lab File ID: C2229
 % Moisture: not dec. 16. Date Received: 11/12/04
 GC Column: RTX502.2 ID: .32 (mm) Date Analyzed: 11/12/04
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	12.	U
67-64-1	Acetone	12.	U
75-15-0	Carbon Disulfide	12.	U
75-35-4	1,1-Dichloroethene	12.	U
75-34-3	1,1-Dichloroethane	12.	U
156-60-5	1,2-Dichloroethene-trans	12.	U
156-59-2	1,2-Dichloroethene-cis	12.	U
67-66-3	Chloroform	12.	U
107-06-2	1,2-Dichloroethane	12.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	12.	U
56-23-5	Carbon Tetrachloride	12.	U
75-27-4	Bromodichloromethane	12.	U
78-87-5	1,2-Dichloropropane	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U
79-01-6	Trichloroethene	12.	U
124-48-1	Dibromochloromethane	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U
71-43-2	Benzene	12.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U
75-25-2	Bromoform	12.	U
108-10-1	4-Methyl-2-Pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U
108-88-3	Toluene	12.	U
108-90-7	Chlorobenzene	12.	U
100-41-4	Ethylbenzene	12.	U
100-42-5	Styrene	12.	U
1330-20-7	m,p-Xylenes	12.	U
95-47-6	o-Xylene	12.	U
1634-04-4	Methyl t-butyl ether	12.	U
75-71-8	Dichlorodifluoromethane	12.	U
79-20-9	Methyl Acetate	12.	U
76-13-1	Freon 113	12.	U
75-69-4	Trichlorofluoromethane	12.	U
110-82-7	Cyclohexane	12.	U
108-87-2	Methylcyclohexane	12.	U
106-93-4	1,2-Dibromoethane	12.	U
541-73-1	1,3-Dichlorobenzene	12.	U
98-82-8	Isopropylbenzene	12.	U
106-46-7	1,4-Dichlorobenzene	12.	U
95-50-1	1,2-Dichlorobenzene	12.	U
96-12-8	1,2-dibromo-3-chloro-Propane	12.	U
120-82-1	1,2,4-Trichlorobenzene	12.	U

000009

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VSOIL 2

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: MP0402 SAS No.: SDG No.: VSOIL 2
Matrix: (soil/water) SOIL Lab Sample ID: VSOIL 2
Sample wt/vol: 5.000 (g/mL) G Lab File ID: C2229
Level: (low/med) LOW Date Received: 11/12/04
% Moisture: not dec. 16. Date Analyzed: 11/12/04
GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	3.41	10.	BJ
2.				
3.				
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000010

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSOIL 2

Lab Name: AES, Inc.	Contract:	SDG No.: VSOIL 2
Lab Code: AES	Case No.: MP0402	SAS No.:
Matrix: (soil/water) SOIL		Lab Sample ID: VSOIL 2
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: B3189
Level: (low/med) LOW		Date Received: 11/12/04
% Moisture: 16. decanted: (Y/N) N		Date Extracted: 11/12/04
Concentrated Extract Volume: 2000.0 (uL)		Date Analyzed: 11/12/04
Injection Volume: 2.0 (uL)		Dilution Factor: 1.0
GPC Cleanup: (Y/N) N	pH: 8.0	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----Phenol	400.	U
111-44-4-----bis(2-Chloroethyl) ether	400.	U
95-57-8-----2-Chlorophenol	400.	U
541-73-1-----1,3-Dichlorobenzene	400.	U
106-46-7-----1,4-Dichlorobenzene	400.	U
95-50-1-----1,2-Dichlorobenzene	400.	U
95-48-7-----2-Methylphenol	400.	U
108-60-1-----bis(2-chloroisopropyl) ether	400.	U
106-44-5-----4-Methylphenol	400.	U
621-64-7-----n-Nitroso-di-n-propylamine	400.	U
67-72-1-----Hexachloroethane	400.	U
98-95-3-----Nitrobenzene	400.	U
78-59-1-----Isophorone	400.	U
88-75-5-----2-Nitrophenol	400.	U
105-67-9-----2,4-Dimethylphenol	400.	U
111-91-1-----bis(2-Chloroethoxy) methane	400.	U
120-83-2-----2,4-Dichlorophenol	400.	U
120-82-1-----1,2,4-Trichlorobenzene	400.	U
91-20-3-----Naphthalene	400.	U
106-47-8-----4-Chloroaniline	400.	U
87-68-3-----Hexachlorobutadiene	400.	U
59-50-7-----4-Chloro-3-methylphenol	400.	U
91-57-6-----2-Methylnaphthalene	400.	U
77-47-4-----Hexachlorocyclopentadiene	400.	U
88-06-2-----2,4,6-Trichlorophenol	400.	U
95-95-4-----2,4,5-Trichlorophenol	400.	U
91-58-7-----2-Chloronaphthalene	400.	U
88-74-4-----2-Nitroaniline	2000.	U
131-11-3-----Dimethylphthalate	400.	U
208-96-8-----Acenaphthylene	400.	U
606-20-2-----2,6-Dinitrotoluene	400.	U
99-09-2-----3-Nitroaniline	2000.	U
83-32-9-----Acenaphthene	400.	U

000011

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSOIL 2

Lab Name: AES, Inc.	Contract:	SDG No.: VSOIL 2
Lab Code: AES	Case No.: MP0402	SAS No.:
Matrix: (soil/water) SOIL		Lab Sample ID: VSOIL 2
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: B3189
Level: (low/med) LOW		Date Received: 11/12/04
% Moisture: 16. decanted: (Y/N) N		Date Extracted: 11/12/04
Concentrated Extract Volume: 2000.0 (uL)		Date Analyzed: 11/12/04
Injection Volume: 2.0 (uL)		Dilution Factor: 1.0
GPC Cleanup: (Y/N) N	pH: 8.0	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----2,4-Dinitrophenol	2000.	U
100-02-7-----4-Nitrophenol	2000.	U
132-64-9-----Dibenzofuran	400.	U
121-14-2-----2,4-Dinitrotoluene	400.	U
84-66-2-----Diethylphthalate	400.	U
7005-72-3-----4-Chlorophenyl-phenylether	400.	U
86-73-7-----Fluorene	400.	U
100-01-6-----4-Nitroaniline	2000.	U
534-52-1-----4,6-Dinitro-2-methylphenol	2000.	U
86-30-6-----n-Nitrosodiphenylamine	400.	U
101-55-3-----4-Bromophenyl-phenylether	400.	U
118-74-1-----Hexachlorobenzene	400.	U
87-86-5-----Pentachlorophenol	2000.	U
85-01-8-----Phenanthrene	400.	U
120-12-7-----Anthracene	400.	U
86-74-8-----Carbazole	400.	U
84-74-2-----Di-n-butylphthalate	400.	U
206-44-0-----Fluoranthene	400.	U
129-00-0-----Pyrene	400.	U
85-68-7-----Butylbenzylphthalate	400.	U
91-94-1-----3,3'-Dichlorobenzidine	790.	U
56-55-3-----Benzo(a)anthracene	400.	U
218-01-9-----Chrysene	400.	U
117-81-7-----bis(2-Ethylhexyl)phthalate	400.	U
117-84-0-----Di-n-octylphthalate	400.	U
205-99-2-----Benzo(b)fluoranthene	400.	U
207-08-9-----Benzo(k)fluoranthene	400.	U
50-32-8-----Benzo(a)pyrene	400.	U
193-39-5-----Indeno(1,2,3-cd)pyrene	400.	U
53-70-3-----Dibenzo(a,h)anthracene	400.	U
191-24-2-----Benzo(g,h,i)perylene	400.	U

(1) - Cannot be separated from diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VSOIL 2

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: MP0402 SAS No.:
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW
% Moisture: 16. decanted: (Y/N) N
Concentrated Extract Volume: 2000.0 (uL)
Injection Volume: 2.0 (uL)
GPC Cleanup: (Y/N) N pH: 8.0

SDG No.: VSOIL 2
Lab Sample ID: VSOIL 2
Lab File ID: B3189
Date Received: 11/12/04
Date Extracted: 11/12/04
Date Analyzed: 11/12/04
Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. - -	ALDOL CONDENSATE	5.41	3000.	BJ
2. 122-99-6	Ethanol, 2-phenoxy-	14.95	200.	BJ N
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
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20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSOIL2

Lab Name:	AES, INC.	Contract:	
Lab Code:	AES	Case No. MP 0402	SAS No.: SDG No.: VSOIL2
Matrix: (soil/water)	Soil		Lab Sample ID: VSOIL2
Sample wt/vol:	30.0	G	Lab File ID: BC2537
% Moisture:	16.0		Date Received: 11/12/04
Extraction: (SepF/Cont/Sonc)	Sonc		Date Extracted: 11/12/04
Concentrated Extract Volume:	10000	uL	Date Analyzed: 11/12/04
Injection Volume:	1.5	uL	Dilution Factor: 1.0
GPC Cleanup: (Y/N)	N	pH: 8	Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg) UG/KG Q

319-84-6-----alpha-BHC	2.0	U
319-85-7-----beta-BHC	2.0	U
319-86-8-----delta-BHC	2.0	U
58-89-9-----gamma-BHC(Lindane)	2.0	U
76-44-8-----Heptachlor	2.0	U
309-00-2-----Aldrin	2.0	U
1024-57-3-----Heptachlor epoxide	2.0	U
959-98-8-----Endosulfan I	2.0	U
60-57-1-----Dieldrin	4.0	U
72-55-9-----4,4'-DDE	4.0	U
72-20-8-----Endrin	4.0	U
33213-65-9---Endosulfan II	4.0	U
72-54-8-----4,4'-DDD	4.0	U
1031-07-8-----Endosulfan Sulfate	4.0	U
50-29-3-----4,4'-DDT	4.0	U
72-43-5-----Methoxychlor	20	U
53494-70-5----Endrin Ketone	4.0	U
7421-36-3----Endrin Aldehyde	4.0	U
5103-71-9-----alpha-Chlordane	2.0	U
5103-74-2-----gamma-Chlordane	2.0	U
8001-35-2-----Toxaphene	200	U
12674-11-2----Aroclor 1016	39	U
11104-28-2----Aroclor 1221	39	U
11141-16-5----Aroclor 1232	39	U
53469-21-9----Aroclor 1242	39	U
12672-29-6----Aroclor 1248	39	U
11097-69-1----Aroclor 1254	39	U
11096-82-5----Aroclor 1260	39	U

000014

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSOIL 2

Lab Name: ADIRONDACK_ENVIRONMENTAL

Contract: _____

Lab Code: AES__

Case No.: MP_0402

SAS No.: _____

SDG No.: VSOIL_2

Matrix (soil/water): SOIL__

Lab Sample ID: VSOIL_2__

Level (low/med): LOW__

Date Received: 11/12/04

% Solids: 84.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8650	-	E	P
7440-36-0	Antimony	1.4	U		P
7440-38-2	Arsenic	0.88	U		P
7440-39-3	Barium	54.6			P
7440-41-7	Beryllium	0.29	B		P
7440-43-9	Cadmium	0.12	U		P
7440-70-2	Calcium	48800		E	P
7440-47-3	Chromium	16.9			P
7440-48-4	Cobalt	7.3	B		P
7440-50-8	Copper	15.3			P
7439-89-6	Iron	14900		E	P
7439-92-1	Lead	0.64	U	N	P
7439-95-4	Magnesium	8510			P
7439-96-5	Manganese	268		EN	P
7439-97-6	Mercury	0.060	U		AV
7440-02-0	Nickel	0.64	U		P
7440-09-7	Potassium	2000		E	P
7782-49-2	Selenium	0.90	U	N	P
7440-22-4	Silver	0.67	U	N	P
7440-23-5	Sodium	267	B	E	P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	12.4			P
7440-66-6	Zinc	47.5		E	P
	Cyanide				NR

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

VSOIL 2

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: MP 0402

SAS No.:

SDG No.: VSOIL 2

Matrix (soil/water): Soil

Lab Sample ID: 041112012-001

Level (Low/Med): Low

Date Received: 11/12/04

% Solids: 83.7

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				SM18 5310C
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide	0.11	U		EPA 9012
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

FORM I - CONV

000016



Experience is the solution
314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

RECEIVED	
DEC 30 2004	
MALCOLM PIRNIE	
ROUTE:	
JOB #	
FILE:	

December 27, 2004

Jim Richert
Malcolm Pirnie
40 Centre Drive
Buffalo, NY 14219

Work Order No: 041220006

TEL: (716) 667-0900

FAX: (716) 667-0279

RE: 1 Soil/Various Parameters
Cobham Drive

Dear Jim Richert:

Adirondack Environmental Services, Inc received 1 sample on 12/20/2004 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709
AIHA#: 100307

Christopher Hess
QA Manager

FAX:
Jim Richert

File: 3198-004 Analytical Data

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 27-Dec-04

CLIENT: Malcolm Pirnie
Work Order: 041220006
Project: 1 Soil/Various Parameters
PO#:

Client Sample ID: CVS-3
Collection Date: 12/17/2004
Lab Sample ID: 041220006-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES SW8081A(CLP4_PEST)						Analyst: KF
4,4'-DDD	< 3.3	3.3		µg/Kg	1	12/20/2004 9:57:10 PM
4,4'-DDE	< 3.3	3.3		µg/Kg	1	12/20/2004 9:57:10 PM
4,4'-DDT	< 3.3	3.3		µg/Kg	1	12/20/2004 9:57:10 PM
Aldrin	< 1.7	1.7		µg/Kg	1	12/20/2004 9:57:10 PM
alpha-BHC	< 1.7	1.7		µg/Kg	1	12/20/2004 9:57:10 PM
beta-BHC	< 1.7	1.7		µg/Kg	1	12/20/2004 9:57:10 PM
Chlordane	< 170	170		µg/Kg	1	12/20/2004 9:57:10 PM
delta-BHC	< 1.7	1.7		µg/Kg	1	12/20/2004 9:57:10 PM
Dieldrin	< 3.3	3.3		µg/Kg	1	12/20/2004 9:57:10 PM
Endosulfan I	< 1.7	1.7		µg/Kg	1	12/20/2004 9:57:10 PM
Endosulfan II	< 3.3	3.3		µg/Kg	1	12/20/2004 9:57:10 PM
Endosulfan sulfate	< 3.3	3.3		µg/Kg	1	12/20/2004 9:57:10 PM
Endrin	< 3.3	3.3		µg/Kg	1	12/20/2004 9:57:10 PM
Endrin aldehyde	< 3.3	3.3		µg/Kg	1	12/20/2004 9:57:10 PM
Endrin ketone	< 3.3	3.3		µg/Kg	1	12/20/2004 9:57:10 PM
gamma-BHC	< 1.7	1.7		µg/Kg	1	12/20/2004 9:57:10 PM
Heptachlor	< 1.7	1.7		µg/Kg	1	12/20/2004 9:57:10 PM
Heptachlor epoxide	< 1.7	1.7		µg/Kg	1	12/20/2004 9:57:10 PM
Methoxychlor	< 17	17		µg/Kg	1	12/20/2004 9:57:10 PM
Toxaphene	< 170	170		µg/Kg	1	12/20/2004 9:57:10 PM
POLYCHLORINATED BIPHENYLS SW8082(CLP4_PEST)						Analyst: KF
Aroclor 1016	< 38	38		µg/Kg-dry	1	12/20/2004 9:57:10 PM
Aroclor 1221	< 38	38		µg/Kg-dry	1	12/20/2004 9:57:10 PM
Aroclor 1232	< 38	38		µg/Kg-dry	1	12/20/2004 9:57:10 PM
Aroclor 1242	< 38	38		µg/Kg-dry	1	12/20/2004 9:57:10 PM
Aroclor 1248	< 38	38		µg/Kg-dry	1	12/20/2004 9:57:10 PM
Aroclor 1254	< 38	38		µg/Kg-dry	1	12/20/2004 9:57:10 PM
Aroclor 1260	< 38	38		µg/Kg-dry	1	12/20/2004 9:57:10 PM
ICP METALS SW6010B(SW3050A)						Analyst: SM
Aluminum	4240	50.0		µg/g	10	12/23/2004 1:35:00 PM
Antimony	< 3.00	3.00		µg/g	1	12/23/2004 1:28:00 PM
Arsenic	3.42	0.25		µg/g	1	12/23/2004 1:28:00 PM
Barium	41.8	0.50		µg/g	1	12/23/2004 1:28:00 PM
Beryllium	0.42	0.25		µg/g	1	12/23/2004 1:28:00 PM
Cadmium	0.55	0.25		µg/g	1	12/23/2004 1:28:00 PM
Calcium	18800	250		µg/g	10	12/23/2004 1:35:00 PM
Chromium	12.8	0.25		µg/g	1	12/23/2004 1:28:00 PM
Cobalt	7.72	2.50		µg/g	1	12/23/2004 1:28:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 27-Dec-04

CLIENT: Malcolm Pirnie
Work Order: 041220006
Project: 1 Soil/Various Parameters
PO#:

Client Sample ID: CVS-3
Collection Date: 12/17/2004
Lab Sample ID: 041220006-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						
						Analyst: SM
Copper	35.5	0.25		µg/g	1	12/23/2004 1:28:00 PM
Iron	12500	25.0		µg/g	10	12/23/2004 1:35:00 PM
Lead	13.7	0.25	B	µg/g	1	12/23/2004 1:28:00 PM
Magnesium	4210	25.0		µg/g	1	12/23/2004 1:28:00 PM
Manganese	303	0.50		µg/g	1	12/23/2004 1:28:00 PM
Nickel	28.5	2.50		µg/g	1	12/23/2004 1:28:00 PM
Potassium	553	25.0		µg/g	1	12/23/2004 1:28:00 PM
Selenium	< 0.25	0.25		µg/g	1	12/23/2004 1:28:00 PM
Silver	< 1.00	1.00		µg/g	1	12/23/2004 1:28:00 PM
Sodium	135	25.0		µg/g	1	12/23/2004 1:28:00 PM
Thallium	< 0.50	0.50		µg/g	1	12/23/2004 1:28:00 PM
Vanadium	14.2	2.50		µg/g	1	12/23/2004 1:28:00 PM
Zinc	93.7	0.50		µg/g	1	12/23/2004 1:28:00 PM
MERCURY SW7471A(SW7471A)						
						Analyst: SM
Mercury	0.023	0.020		µg/g	1	12/22/2004
SEMI VOLATILE ORGANICS SW8270C(SW3550)						
						Analyst: MT
Phenol	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Bis(2-chloroethyl)ether	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2-Chlorophenol	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
1,3-Dichlorobenzene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
1,4-Dichlorobenzene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
1,2-Dichlorobenzene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2-Methylphenol	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Bis(2-chloroisopropyl)ether	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
4-Methylphenol	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
N-Nitrosodi-n-propylamine	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Hexachloroethane	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Nitrobenzene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Isophorone	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2-Nitrophenol	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2,4-Dimethylphenol	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Bis(2-chloroethoxy)methane	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2,4-Dichlorophenol	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
1,2,4-Trichlorobenzene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Naphthalene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
4-Chloroaniline	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Hexachlorobutadiene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
4-Chloro-3-methylphenol	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 27-Dec-04

CLIENT: Malcolm Pirnie
Work Order: 041220006
Project: 1 Soil/Various Parameters
PO#:

Client Sample ID: CVS-3
Collection Date: 12/17/2004
Lab Sample ID: 041220006-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C(SW3550)						Analyst: MT
2-Methylnaphthalene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Hexachlorocyclopentadiene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2,4,6-Trichlorophenol	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2,4,5-Trichlorophenol	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2-Chloronaphthalene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2-Nitroaniline	< 1700	1700		µg/Kg	1	12/23/2004 12:29:00 PM
Dimethyl phthalate	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Acenaphthylene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2,6-Dinitrotoluene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
3-Nitroaniline	< 1700	1700		µg/Kg	1	12/23/2004 12:29:00 PM
Acenaphthene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2,4-Dinitrophenol	< 1700	1700		µg/Kg	1	12/23/2004 12:29:00 PM
4-Nitrophenol	< 1700	1700		µg/Kg	1	12/23/2004 12:29:00 PM
Dibenzofuran	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
2,4-Dinitrotoluene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Diethyl phthalate	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
4-Chlorophenyl phenyl ether	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Fluorene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
4-Nitroaniline	< 1700	1700		µg/Kg	1	12/23/2004 12:29:00 PM
4,6-Dinitro-2-methylphenol	< 1700	1700		µg/Kg	1	12/23/2004 12:29:00 PM
N-Nitrosodiphenylamine	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
4-Bromophenyl phenyl ether	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Hexachlorobenzene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Pentachlorophenol	< 1700	1700		µg/Kg	1	12/23/2004 12:29:00 PM
Phenanthrene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Anthracene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Carbazole	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Di-n-butyl phthalate	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Fluoranthene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Pyrene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Butyl benzyl phthalate	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
3,3'-Dichlorobenzidine	< 660	660		µg/Kg	1	12/23/2004 12:29:00 PM
Benz(a)anthracene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Chrysene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Bis(2-ethylhexyl)phthalate	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Di-n-octyl phthalate	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Benzo(b)fluoranthene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Benzo(k)fluoranthene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Benzo(a)pyrene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 27-Dec-04

CLIENT: Malcolm Pirnie
Work Order: 041220006
Project: 1 Soil/Various Parameters
PO#:

Client Sample ID: CVS-3
Collection Date: 12/17/2004
Lab Sample ID: 041220006-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C(SW3550)						
Indeno(1,2,3-cd)pyrene	< 330	330		µg/Kg	1	Analyst: MT 12/23/2004 12:29:00 PM
Dibenz(a,h)anthracene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
Benzo(g,h,i)perylene	< 330	330		µg/Kg	1	12/23/2004 12:29:00 PM
TENATIVELY IDENTIFIED CMPDS GCMS GCMS(SW3550)						
Sulfur	700	0		ug/kg	1	Analyst: MT 12/23/2004 12:29:00 PM
VOLATILE ORGANICS SW8260B						
Chloromethane	< 10	10		µg/Kg	1	Analyst: ML 12/21/2004 7:44:00 PM
Bromomethane	< 10	10		µg/Kg	1	12/21/2004 7:44:00 PM
Vinyl chloride	< 10	10		µg/Kg	1	12/21/2004 7:44:00 PM
Chloroethane	< 10	10		µg/Kg	1	12/21/2004 7:44:00 PM
Methylene chloride	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Acetone	< 10	10		µg/Kg	1	12/21/2004 7:44:00 PM
Carbon disulfide	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
1,1-Dichloroethene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
1,1-Dichloroethane	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
trans-1,2-Dichloroethene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
cis-1,2-Dichloroethene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Chloroform	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
1,2-Dichloroethane	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
2-Butanone	< 10	10		µg/Kg	1	12/21/2004 7:44:00 PM
1,1,1-Trichloroethane	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Carbon tetrachloride	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Bromodichloromethane	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
1,2-Dichloropropane	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
cis-1,3-Dichloropropene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Trichloroethene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Dibromochloromethane	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
1,1,2-Trichloroethane	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Benzene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
trans-1,3-Dichloropropene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Bromoform	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
4-Methyl-2-pentanone	< 10	10		µg/Kg	1	12/21/2004 7:44:00 PM
2-Hexanone	< 10	10		µg/Kg	1	12/21/2004 7:44:00 PM
Tetrachloroethene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
1,1,2,2-Tetrachloroethane	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Toluene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Chlorobenzene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
Ethylbenzene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 27-Dec-04

CLIENT: Malcolm Pirnie
Work Order: 041220006
Project: 1 Soil/Various Parameters
PO#:

Client Sample ID: CVS-3
Collection Date: 12/17/2004
Lab Sample ID: 041220006-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						
Styrene	< 5	5		µg/Kg	1	Analyst: ML 12/21/2004 7:44:00 PM
m,p-Xylene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
o-Xylene	< 5	5		µg/Kg	1	12/21/2004 7:44:00 PM
TENATIVELY IDENTIFIED CMPDS GCMS GCMS						
None found	ND	0		µg/kg(Estimated)	1	Analyst: ML 12/21/2004
CYANIDE, TOTAL SW9012(E335.3)						
Cyanide	< 0.5	0.5		µg/g	1	Analyst: PL 12/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: Malcolm Pirnie, Inc.		Address: 40 Centre Drive, Orchard Park, NY 11412	
Send Report To: Jim Richert		Project Name (Location): Cobham Drive	
Client Phone No: 716/667-6654		PO Number: 3198-004	
Client Fax No: 0279		Samplers: (Names) Jim Richert	
		Samplers: (Signature) <i>Jim Richert</i>	

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required	
				Matrix	Comp	Grab			
001	CVS-3	12-17-04	12:20	A P	S		X	1	VOCs
	"	"	"	A P	S		X	2	SVOC, PCB, Pest, TAL metals &c.
041220006 <i>Jim Richert</i> 12/17/04				A					
				P					
				A					
				P					
				A					
				P					
				A					
				P					
				A					
				P					
				A					
				P					
				A					
				P					
				A					

Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☒ 5 Day	Special Instructions/Remarks: ROSH TAT 5-BD
---	---

Relinquished by: (Signature) <i>Jim Richert</i>	Received by: (Signature) <i>[Signature]</i>	Date/Time 12/17/04 11:40 AM
Relinquished by: (Signature)	Received for Laboratory by: <i>MLP</i>	Date/Time 12/20/04 8:53

TEMPERATURE Ambient or Chilled Notes: 10°C	PROPERLY PRESERVED ☒ Y ☐ N Notes:	RECEIVED WITHIN HOLDING TIMES ☒ Y ☐ N Notes:
---	--	---

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.



Experience is the solution

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

January 05, 2005

Jim Richert
Malcolm Pirnie
40 Centre Drive
Buffalo, NY 14219

Work Order No: 041229002

TEL: (716) 667-0900

FAX: (716) 667-0279

Project# : 3198-004-002

RE: 1 Soil/Various Parameters
Cobham Drive

Dear Jim Richert:

Adirondack Environmental Services, Inc received 1 sample on 12/29/2004 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Christopher Hess
QA Manager

FAX:
Jim Richert

ELAP#: 10709
AIHA#: 100307

RECEIVED	
JAN 07 2005	
MALCOLM PIRNIE	
BUFFALO	
ROUTE:	
JOB #	
FILE:	

FILE: 3198-004 AD

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 05-Jan-05

CLIENT: Malcolm Pirnie
Work Order: 041229002
Project: 1 Soil/Various Parameters
PO#:

Client Sample ID: CVS-4
Collection Date: 12/28/2004
Lab Sample ID: 041229002-001
Matrix: SOIL

Project# : 3198-004-002

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES SW8081A(CLP4_PEST)						
						Analyst: KF
4,4'-DDD	6.4	4.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
4,4'-DDE	20	4.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
4,4'-DDT	19	4.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Aldrin	< 2.0	2.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
alpha-BHC	< 2.0	2.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
beta-BHC	< 2.0	2.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Chlordane	< 200	200		µg/Kg-dry	1	12/30/2004 9:15:44 PM
delta-BHC	< 2.0	2.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Dieldrin	< 4.0	4.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Endosulfan I	< 2.0	2.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Endosulfan II	< 4.0	4.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Endosulfan sulfate	< 4.0	4.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Endrin	< 4.0	4.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Endrin aldehyde	< 4.0	4.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Endrin ketone	< 4.0	4.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
gamma-BHC	< 2.0	2.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Heptachlor	< 2.0	2.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Heptachlor epoxide	< 2.0	2.0		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Methoxychlor	< 20	20		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Toxaphene	< 200	200		µg/Kg-dry	1	12/30/2004 9:15:44 PM
POLYCHLORINATED BIPHENYLS SW8082(CLP4_PEST)						
						Analyst: KF
Aroclor 1016	< 40	40		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Aroclor 1221	< 40	40		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Aroclor 1232	< 40	40		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Aroclor 1242	< 40	40		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Aroclor 1248	< 40	40		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Aroclor 1254	< 40	40		µg/Kg-dry	1	12/30/2004 9:15:44 PM
Aroclor 1260	< 40	40		µg/Kg-dry	1	12/30/2004 9:15:44 PM
ICP METALS SW6010B(SW3050A)						
						Analyst: SM
Aluminum	7160	5.00		µg/g	1	1/5/2005 1:05:00 PM
Antimony	< 3.00	3.00		µg/g	1	1/5/2005 1:05:00 PM
Arsenic	3.06	0.25		µg/g	1	1/5/2005 1:05:00 PM
Barium	54.6	0.50		µg/g	1	1/5/2005 1:05:00 PM
Beryllium	0.49	0.25		µg/g	1	1/5/2005 1:05:00 PM
Cadmium	0.38	0.25		µg/g	1	1/5/2005 1:05:00 PM
Calcium	40500	250		µg/g	10	1/5/2005 1:10:00 PM
Chromium	13.0	0.25		µg/g	1	1/5/2005 1:05:00 PM
Cobalt	5.45	2.50		µg/g	1	1/5/2005 1:05:00 PM

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E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 05-Jan-05

CLIENT: Malcolm Pirnie
Work Order: 041229002
Project: 1 Soil/Various Parameters
PO#:

Client Sample ID: CVS-4
Collection Date: 12/28/2004
Lab Sample ID: 041229002-001
Matrix: SOIL

Project# : 3198-004-002

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						
						Analyst: SM
Copper	25.9	0.25		µg/g	1	1/5/2005 1:05:00 PM
Iron	18300	25.0		µg/g	10	1/5/2005 1:10:00 PM
Lead	11.6	0.25		µg/g	1	1/5/2005 1:05:00 PM
Magnesium	4190	25.0		µg/g	1	1/5/2005 1:05:00 PM
Manganese	292	0.50		µg/g	1	1/5/2005 1:05:00 PM
Nickel	< 2.50	2.50		µg/g	1	1/5/2005 1:05:00 PM
Potassium	604	25.0		µg/g	1	1/5/2005 1:05:00 PM
Selenium	< 0.25	0.25		µg/g	1	1/5/2005 1:05:00 PM
Silver	< 1.00	1.00		µg/g	1	1/5/2005 1:05:00 PM
Sodium	162	25.0		µg/g	1	1/5/2005 1:05:00 PM
Thallium	< 0.50	0.50		µg/g	1	1/5/2005 1:05:00 PM
Vanadium	9.50	2.50		µg/g	1	1/5/2005 1:05:00 PM
Zinc	92.7	0.50		µg/g	1	1/5/2005 1:05:00 PM
MERCURY SW7471A(SW7471A)						
						Analyst: SM
Mercury	0.035	0.020		µg/g	1	1/4/2005
SEMI VOLATILE ORGANICS SW8270C(SW3550)						
						Analyst: MT
Phenol	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Bis(2-chloroethyl)ether	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2-Chlorophenol	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
1,3-Dichlorobenzene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
1,4-Dichlorobenzene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
1,2-Dichlorobenzene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2-Methylphenol	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Bis(2-chloroisopropyl)ether	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
4-Methylphenol	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
N-Nitrosodi-n-propylamine	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Hexachloroethane	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Nitrobenzene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Isophorone	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2-Nitrophenol	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2,4-Dimethylphenol	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Bis(2-chloroethoxy)methane	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2,4-Dichlorophenol	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
1,2,4-Trichlorobenzene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Naphthalene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
4-Chloroaniline	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Hexachlorobutadiene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
4-Chloro-3-methylphenol	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 05-Jan-05

CLIENT: Malcolm Pirnie
Work Order: 041229002
Project: 1 Soil/Various Parameters
PO#:

Client Sample ID: CVS-4
Collection Date: 12/28/2004
Lab Sample ID: 041229002-001
Matrix: SOIL

Project# : 3198-004-002

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C(SW3550)						Analyst: MT
2-Methylnaphthalene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Hexachlorocyclopentadiene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2,4,6-Trichlorophenol	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2,4,5-Trichlorophenol	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2-Chloronaphthalene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2-Nitroaniline	< 1700	1700		µg/Kg	1	1/5/2005 2:11:00 PM
Dimethyl phthalate	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Acenaphthylene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2,6-Dinitrotoluene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
3-Nitroaniline	< 1700	1700		µg/Kg	1	1/5/2005 2:11:00 PM
Acenaphthene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2,4-Dinitrophenol	< 1700	1700		µg/Kg	1	1/5/2005 2:11:00 PM
4-Nitrophenol	< 1700	1700		µg/Kg	1	1/5/2005 2:11:00 PM
Dibenzofuran	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
2,4-Dinitrotoluene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Diethyl phthalate	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
4-Chlorophenyl phenyl ether	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Fluorene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
4-Nitroaniline	< 1700	1700		µg/Kg	1	1/5/2005 2:11:00 PM
4,6-Dinitro-2-methylphenol	< 1700	1700		µg/Kg	1	1/5/2005 2:11:00 PM
N-Nitrosodiphenylamine	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
4-Bromophenyl phenyl ether	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Hexachlorobenzene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Pentachlorophenol	< 1700	1700		µg/Kg	1	1/5/2005 2:11:00 PM
Phenanthrene	560	330		µg/Kg	1	1/5/2005 2:11:00 PM
Anthracene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Carbazole	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Di-n-butyl phthalate	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Fluoranthene	700	330		µg/Kg	1	1/5/2005 2:11:00 PM
Pyrene	490	330		µg/Kg	1	1/5/2005 2:11:00 PM
Butyl benzyl phthalate	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
3,3'-Dichlorobenzidine	< 660	660		µg/Kg	1	1/5/2005 2:11:00 PM
Benz(a)anthracene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Chrysene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Bis(2-ethylhexyl)phthalate	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Di-n-octyl phthalate	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Benzo(b)fluoranthene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Benzo(k)fluoranthene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Benzo(a)pyrene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM

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E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 05-Jan-05

CLIENT: Malcolm Pirnie
Work Order: 041229002
Project: 1 Soil/Various Parameters
PO#:

Client Sample ID: CVS-4
Collection Date: 12/28/2004
Lab Sample ID: 041229002-001
Matrix: SOIL

Project# : 3198-004-002

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C(SW3550)						
Indeno(1,2,3-cd)pyrene	< 330	330		µg/Kg	1	Analyst: MT 1/5/2005 2:11:00 PM
Dibenz(a,h)anthracene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
Benzo(g,h,i)perylene	< 330	330		µg/Kg	1	1/5/2005 2:11:00 PM
TENATIVELY IDENTIFIED CMPDS GCMS GCMS(SW3550)						
PAH C20H12	130	0		ug/kg	1	Analyst: MT 1/5/2005 2:11:00 PM
VOLATILE ORGANICS SW8260B						
Chloromethane	< 10	10		µg/Kg	1	Analyst: ML 12/30/2004 11:12:00 AM
Bromomethane	< 10	10		µg/Kg	1	12/30/2004 11:12:00 AM
Vinyl chloride	< 10	10		µg/Kg	1	12/30/2004 11:12:00 AM
Chloroethane	< 10	10		µg/Kg	1	12/30/2004 11:12:00 AM
Methylene chloride	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Acetone	< 10	10		µg/Kg	1	12/30/2004 11:12:00 AM
Carbon disulfide	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
1,1-Dichloroethene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
1,1-Dichloroethane	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
trans-1,2-Dichloroethene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
cis-1,2-Dichloroethene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Chloroform	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
1,2-Dichloroethane	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
2-Butanone	< 10	10		µg/Kg	1	12/30/2004 11:12:00 AM
1,1,1-Trichloroethane	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Carbon tetrachloride	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Bromodichloromethane	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
1,2-Dichloropropane	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
cis-1,3-Dichloropropene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Trichloroethene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Dibromochloromethane	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
1,1,2-Trichloroethane	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Benzene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
trans-1,3-Dichloropropene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Bromoform	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
4-Methyl-2-pentanone	< 10	10		µg/Kg	1	12/30/2004 11:12:00 AM
2-Hexanone	< 10	10		µg/Kg	1	12/30/2004 11:12:00 AM
Tetrachloroethene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
1,1,2,2-Tetrachloroethane	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Toluene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Chlorobenzene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
Ethylbenzene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 05-Jan-05

CLIENT: Malcolm Pirnie
Work Order: 041229002
Project: 1 Soil/Various Parameters
PO#:

Client Sample ID: CVS-4
Collection Date: 12/28/2004
Lab Sample ID: 041229002-001
Matrix: SOIL

Project# : 3198-004-002

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						
Styrene	< 5	5		µg/Kg	1	Analyst: ML 12/30/2004 11:12:00 AM
m,p-Xylene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
o-Xylene	< 5	5		µg/Kg	1	12/30/2004 11:12:00 AM
TENATIVELY IDENTIFIED CMPDS GCMS GCMS						
None found	ND	0		µg/kg(Estimated)	1	Analyst: ML 12/30/2004
CYANIDE, TOTAL SW9012(E335.3)						
Cyanide	< 0.5	0.5		µg/g	1	Analyst: RC 1/5/2005

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

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Client Name: <i>Malcolm Pirnie, Inc.</i>		Address: <i>40 Centre St. Orchard Park, NY 14127</i>						
Send Report To: <i>Jim Richert</i>		Project Name (Location): <i>Cobham Drive</i>		Samplers: (Names) <i>Jim Richert</i>				
Client Phone No: <i>716/667-6654</i>		PO Number: <i>3198-004</i>		Samplers: (Signature) <i>Jim Richert</i>				
Client Fax No: <i>0279</i>								
AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type Matrix	Comp	Grab	Number of Cont's	Analysis Required
<i>001</i>	<i>CVS-4</i>	<i>12-28-04</i>	<i>2:00</i>	<i>A</i>	<i>S</i>	<i>X</i>	<i>1</i>	<i>YOC's</i>
	<i>CVS-4</i>	<i>12-28-04</i>	<i>2:00</i>	<i>A</i>	<i>S</i>	<i>X</i>	<i>2</i>	<i>SVOC's PCB's PEST 74 metals</i>
<i>Jim Richert</i>			<i>A</i>					
			<i>P</i>					
			<i>A</i>					
			<i>P</i>					
			<i>A</i>					
			<i>P</i>					
			<i>A</i>					
			<i>P</i>					
			<i>A</i>					
			<i>P</i>					
			<i>A</i>					
			<i>P</i>					
			<i>A</i>					
			<i>P</i>					
			<i>A</i>					
<i>P</i>								

Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☒ 5 Day		Special Instructions/Remarks: <i>5 day T.A.T.</i>	
CC Report To:			
Relinquished by: (Signature) <i>Jim Richert 12/28/04</i>		Received by: (Signature) <i>MLP</i>	Date/Time <i>12/29/04 8:54</i>
Relinquished by: (Signature) <i>MLP</i>		Received for Laboratory by:	Date/Time
TEMPERATURE Ambient or Chilled Notes: <i>50C</i>		PROPERLY PRESERVED ☒ Y ☐ N Notes:	
		RECEIVED WITHIN HOLDING TIMES ☒ Y ☐ N Notes:	

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.



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All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.