ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

Report Date: July 11, 2016

Project: Marcus Hook Facility AOI7

Submittal Date: 06/24/2016
Group Number: 1676188
SDG: MHF39
PO Number: 11102641
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LL) #
AOI7-BH-16-018-062316-0-2-MM Grab Soil	8445540
AOI7-BH-16-019-062316-0-2-MM Grab Soil	8445541
AOI7-BH-16-020-0-2-MM Grab Soil	8445542
AOI7-BH-16-021-062416-0-2-MM Grab Soil	8445543
AOI7-BH-16-022-062316-0-2-MM Grab Soil	8445544
AOI7-BH-16-023-062416-0-2-MM Grab Soil	8445545
AOI7-BH-16-024-062316-0-2-MM Grab Soil	8445546
AOI7-BH-16-025-062316-0-2-MM Grab Soil	8445547
AOI7-BH-16-026-062316-0-2-MM Grab Soil	8445548
AOI7-BH-16-DUP1-0-2-MM Grab Soil	8445549
AOI7-BH-16-DUP2-062316-0-2-MM Grab Soil	8445550
TB1 Methanol	8445551
TB2 Methanol	8445552
TB3 Methanol	8445553

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	GHD, Inc.	Attn: Dave Steele
Electronic Copy To	GHD	Attn: Paul McMahon

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: AOI7-BH-16-018-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445540
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 12:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3901 SDG#: MHF39-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.		1,400	500	54.56
10237	Benzene	71-43-2	81	J	350	35	54.56
10237	Bromochloromethane	74-97-5	N.D.		350	71	54.56
10237	Bromodichloromethane	75-27-4	N.D.		350	71	54.56
10237	Bromoform	75-25-2	N.D.		350	71	54.56
10237	Bromomethane	74-83-9	N.D.		350	140	54.56
10237	2-Butanone	78-93-3	N.D.		710	280	54.56
10237	Carbon Disulfide	75-15-0	N.D.		350	71	54.56
10237	Carbon Tetrachloride	56-23-5	N.D.		350	71	54.56
10237	Chlorobenzene	108-90-7	N.D.		350	71	54.56
10237	Chloroethane	75-00-3	N.D.		350	140	54.56
10237	Chloroform	67-66-3	N.D.		350	71	54.56
10237	Chloromethane	74-87-3	N.D.		350	140	54.56
10237	Cyclohexane	110-82-7	110	J	350	71	54.56
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		350	140	54.56
10237	Dibromochloromethane	124-48-1	N.D.		350	71	54.56
10237	1,2-Dibromoethane	106-93-4	N.D.		350	71	54.56
10237	1,2-Dichlorobenzene	95-50-1	N.D.		350	71	54.56
10237	1,3-Dichlorobenzene	541-73-1	N.D.		350	71	54.56
10237	1,4-Dichlorobenzene	106-46-7	N.D.		350	71	54.56
10237	Dichlorodifluoromethane	75-71-8	N.D.		350	140	54.56
10237	1,1-Dichloroethane	75-34-3	N.D.		350	71	54.56
10237	1,2-Dichloroethane	107-06-2	N.D.		350	71	54.56
10237	1,1-Dichloroethene	75-35-4	N.D.		350	71	54.56
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		350	71	54.56
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		350	71	54.56
10237	1,2-Dichloropropane	78-87-5	N.D.		350	71	54.56
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		350	71	54.56
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		350	71	54.56
10237	Ethylbenzene	100-41-4	N.D.		350	71	54.56
10237	Freon 113	76-13-1	N.D.		710	140	54.56
10237	2-Hexanone	591-78-6	N.D.		710	210	54.56
10237	Isopropylbenzene	98-82-8	130	J	350	71	54.56
10237	Methyl Acetate	79-20-9	210	J	350	140	54.56
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		350	35	54.56
10237	4-Methyl-2-pentanone	108-10-1	N.D.		710	210	54.56
10237	Methylcyclohexane	108-87-2	1,100		350	71	54.56
10237	Methylene Chloride	75-09-2	N.D.		350	140	54.56
10237	Styrene	100-42-5	N.D.		350	71	54.56
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		350	71	54.56
10237	Tetrachloroethene	127-18-4	N.D.		350	71	54.56
10237	Toluene	108-88-3	N.D.		350	71	54.56
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		350	71	54.56
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		350	71	54.56
10237	1,1,1-Trichloroethane	71-55-6	N.D.		350	71	54.56
10237	1,1,2-Trichloroethane	79-00-5	N.D.		350	71	54.56
10237	Trichloroethene	79-01-6	N.D.		350	71	54.56
10237	Trichlorofluoromethane	75-69-4	N.D.		350	140	54.56
10237	Vinyl Chloride	75-01-4	N.D.		350	71	54.56
10237	m+p-Xylene	n.a.	N.D.		350	71	54.56
10237	o-Xylene	95-47-6	N.D.		350	71	54.56

*=This limit was used in the evaluation of the final result

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Marcus Hook Facility AOI7

LL Sample # SW 8445540
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 12:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

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Niagara Falls NY 14304

M3901 SDG#: MHF39-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles		**SW-846 8270C**	**ug/kg**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	N.D.		1,100	220	10
10727	Acenaphthylene	208-96-8	N.D.		1,100	220	10
10727	Acetophenone	98-86-2	N.D.		2,200	1,100	10
10727	Anthracene	120-12-7	330	J	1,100	220	10
10727	Atrazine	1912-24-9	N.D.		11,000	2,200	10
10727	Benzaldehyde	100-52-7	N.D.		11,000	4,300	10
10727	Benzo(a)anthracene	56-55-3	590	J	1,100	220	10
10727	Benzo(a)pyrene	50-32-8	890	J	1,100	220	10
10727	Benzo(b)fluoranthene	205-99-2	1,000	J	1,100	220	10
10727	Benzo(g,h,i)perylene	191-24-2	990	J	1,100	220	10
10727	Benzo(k)fluoranthene	207-08-9	430	J	1,100	220	10
10727	1,1'-Biphenyl	92-52-4	N.D.		2,200	1,100	10
10727	4-Bromophenyl-phenylether	101-55-3	N.D.		2,200	1,100	10
10727	Butylbenzylphthalate	85-68-7	N.D.		11,000	4,300	10
10727	Di-n-butylphthalate	84-74-2	N.D.		11,000	4,300	10
10727	Caprolactam	105-60-2	N.D.		11,000	2,200	10
10727	Carbazole	86-74-8	N.D.		2,200	1,100	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D.		2,200	1,100	10
10727	4-Chloroaniline	106-47-8	N.D.		4,300	2,200	10
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.		2,200	1,100	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.		2,200	1,100	10
10727	2-Chloronaphthalene	91-58-7	N.D.		2,100	430	10
10727	2-Chlorophenol	95-57-8	N.D.		2,200	1,100	10
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.		2,200	1,100	10
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		2,200	1,100	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10727	Chrysene	218-01-9	920	J	1,100	220	10
10727	Dibenz(a,h)anthracene	53-70-3	N.D.		1,100	220	10
10727	Dibenzofuran	132-64-9	N.D.		2,200	1,100	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.		22,000	6,500	10
10727	2,4-Dichlorophenol	120-83-2	N.D.		2,200	1,100	10
10727	Diethylphthalate	84-66-2	N.D.		11,000	4,300	10
10727	2,4-Dimethylphenol	105-67-9	N.D.		2,200	1,100	10
10727	Dimethylphthalate	131-11-3	N.D.		11,000	4,300	10
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		32,000	11,000	10
10727	2,4-Dinitrophenol	51-28-5	N.D.		65,000	19,000	10
10727	2,4-Dinitrotoluene	121-14-2	N.D.		11,000	4,300	10
10727	2,6-Dinitrotoluene	606-20-2	N.D.		2,200	1,100	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		11,000	4,300	10
10727	Fluoranthene	206-44-0	1,300		1,100	220	10
10727	Fluorene	86-73-7	240	J	1,100	220	10
10727	Hexachlorobenzene	118-74-1	N.D.		1,100	220	10
10727	Hexachlorobutadiene	87-68-3	N.D.		2,200	1,100	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D.		32,000	11,000	10
10727	Hexachloroethane	67-72-1	N.D.		11,000	2,200	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	640	J	1,100	220	10
10727	Isophorone	78-59-1	N.D.		2,200	1,100	10

*=This limit was used in the evaluation of the final result

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M3901 SDG#: MHF39-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
10727	2-Methylnaphthalene	91-57-6	370	J	1,100	220	10
10727	2-Methylphenol	95-48-7	N.D.		2,200	1,100	10
10727	4-Methylphenol	106-44-5	N.D.		2,200	1,100	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
10727	Naphthalene	91-20-3	340	J	1,100	220	10
10727	2-Nitroaniline	88-74-4	N.D.		2,200	1,100	10
10727	3-Nitroaniline	99-09-2	N.D.		11,000	4,300	10
10727	4-Nitroaniline	100-01-6	N.D.		11,000	4,300	10
10727	Nitrobenzene	98-95-3	N.D.		2,200	1,100	10
10727	2-Nitrophenol	88-75-5	N.D.		2,200	1,100	10
10727	4-Nitrophenol	100-02-7	N.D.		32,000	11,000	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.		2,200	1,100	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D.		2,200	1,100	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
10727	Di-n-octylphthalate	117-84-0	N.D.		11,000	4,300	10
10727	Pentachlorophenol	87-86-5	N.D.		11,000	2,200	10
10727	Phenanthrene	85-01-8	1,200		1,100	220	10
10727	Phenol	108-95-2	N.D.		2,200	1,100	10
10727	Pyrene	129-00-0	1,600		1,100	220	10
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		2,200	1,100	10
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		11,000	4,300	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D.		2,200	1,100	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D.		2,200	1,100	10
Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		25.2	10.9	1
06944	Antimony	7440-36-0	N.D.		2.52	0.881	1
06935	Arsenic	7440-38-2	10.7		2.52	1.22	1
06946	Barium	7440-39-3	118		0.630	0.0416	1
06947	Beryllium	7440-41-7	0.851		0.630	0.0844	1
06949	Cadmium	7440-43-9	0.783		0.630	0.0617	1
01650	Calcium	7440-70-2	38,600		25.2	7.13	1
06951	Chromium	7440-47-3	41.9		1.89	0.176	1
06952	Cobalt	7440-48-4	9.73		0.630	0.151	1
06953	Copper	7440-50-8	128		1.26	0.290	1
01654	Iron	7439-89-6	25,600		25.2	5.19	1
06955	Lead	7439-92-1	84.2		1.89	0.693	1
01657	Magnesium	7439-95-4	24,100		12.6	2.39	1
06958	Manganese	7439-96-5	321		0.630	0.105	1
06961	Nickel	7440-02-0	28.8		1.26	0.378	1
01662	Potassium	7440-09-7	2,130		63.0	30.1	1
06936	Selenium	7782-49-2	1.63	J	2.52	1.13	1
06966	Silver	7440-22-4	0.626	J	0.630	0.189	1
01667	Sodium	7440-23-5	184		126	30.1	1
06925	Thallium	7440-28-0	N.D.		3.78	1.03	1
06971	Vanadium	7440-62-2	119		0.630	0.176	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-018-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445540
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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06972	Zinc	7440-66-6	219	2.52	0.856	1
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	2.58	1.30	0.130	10
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	22.9	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	Q161832AA	07/02/2016 00:27	Kevin A Sposito	54.56
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/23/2016 12:30	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/23/2016 12:30	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/23/2016 12:30	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 14:09	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06944	Antimony	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06935	Arsenic	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06949	Cadmium	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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M3901 SDG#: MHF39-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06951	Chromium	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06952	Cobalt	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06953	Copper	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
01654	Iron	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06955	Lead	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06966	Silver	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016 06:14	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
06972	Zinc	SW-846 6010B	1	161825708002	07/03/2016 17:20	Elaine F Stoltzfus	1
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016 07:22	Damary Valentin	10
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016 05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016 11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016 23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-019-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445541
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 16:50 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3902 SDG#: MHF39-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.		1,000	350	46.98
10237	Benzene	71-43-2	N.D.		250	25	46.98
10237	Bromochloromethane	74-97-5	N.D.		250	50	46.98
10237	Bromodichloromethane	75-27-4	N.D.		250	50	46.98
10237	Bromoform	75-25-2	N.D.		250	50	46.98
10237	Bromomethane	74-83-9	N.D.		250	100	46.98
10237	2-Butanone	78-93-3	N.D.		500	200	46.98
10237	Carbon Disulfide	75-15-0	N.D.		250	50	46.98
10237	Carbon Tetrachloride	56-23-5	N.D.		250	50	46.98
10237	Chlorobenzene	108-90-7	N.D.		250	50	46.98
10237	Chloroethane	75-00-3	N.D.		250	100	46.98
10237	Chloroform	67-66-3	N.D.		250	50	46.98
10237	Chloromethane	74-87-3	N.D.		250	100	46.98
10237	Cyclohexane	110-82-7	N.D.		250	50	46.98
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		250	100	46.98
10237	Dibromochloromethane	124-48-1	N.D.		250	50	46.98
10237	1,2-Dibromoethane	106-93-4	N.D.		250	50	46.98
10237	1,2-Dichlorobenzene	95-50-1	N.D.		250	50	46.98
10237	1,3-Dichlorobenzene	541-73-1	N.D.		250	50	46.98
10237	1,4-Dichlorobenzene	106-46-7	N.D.		250	50	46.98
10237	Dichlorodifluoromethane	75-71-8	N.D.		250	100	46.98
10237	1,1-Dichloroethane	75-34-3	N.D.		250	50	46.98
10237	1,2-Dichloroethane	107-06-2	N.D.		250	50	46.98
10237	1,1-Dichloroethene	75-35-4	N.D.		250	50	46.98
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		250	50	46.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		250	50	46.98
10237	1,2-Dichloropropane	78-87-5	N.D.		250	50	46.98
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		250	50	46.98
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		250	50	46.98
10237	Ethylbenzene	100-41-4	N.D.		250	50	46.98
10237	Freon 113	76-13-1	N.D.		500	100	46.98
10237	2-Hexanone	591-78-6	N.D.		500	150	46.98
10237	Isopropylbenzene	98-82-8	N.D.		250	50	46.98
10237	Methyl Acetate	79-20-9	110	J	250	100	46.98
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		250	25	46.98
10237	4-Methyl-2-pentanone	108-10-1	N.D.		500	150	46.98
10237	Methylcyclohexane	108-87-2	190	J	250	50	46.98
10237	Methylene Chloride	75-09-2	N.D.		250	100	46.98
10237	Styrene	100-42-5	N.D.		250	50	46.98
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		250	50	46.98
10237	Tetrachloroethene	127-18-4	N.D.		250	50	46.98
10237	Toluene	108-88-3	N.D.		250	50	46.98
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		250	50	46.98
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		250	50	46.98
10237	1,1,1-Trichloroethane	71-55-6	N.D.		250	50	46.98
10237	1,1,2-Trichloroethane	79-00-5	N.D.		250	50	46.98
10237	Trichloroethene	79-01-6	N.D.		250	50	46.98
10237	Trichlorofluoromethane	75-69-4	N.D.		250	100	46.98
10237	Vinyl Chloride	75-01-4	N.D.		250	50	46.98
10237	m+p-Xylene	n.a.	N.D.		250	50	46.98
10237	o-Xylene	95-47-6	N.D.		250	50	46.98

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-019-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445541
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 16:50 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3902 SDG#: MHF39-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	N.D.		180	35	10
10727	Acenaphthylene	208-96-8	190		180	35	10
10727	Acetophenone	98-86-2	N.D.		350	180	10
10727	Anthracene	120-12-7	81	J	180	35	10
10727	Atrazine	1912-24-9	N.D.		1,800	350	10
10727	Benzaldehyde	100-52-7	N.D.		1,800	700	10
10727	Benzo(a)anthracene	56-55-3	100	J	180	35	10
10727	Benzo(a)pyrene	50-32-8	110	J	180	35	10
10727	Benzo(b)fluoranthene	205-99-2	100	J	180	35	10
10727	Benzo(g,h,i)perylene	191-24-2	330		180	35	10
10727	Benzo(k)fluoranthene	207-08-9	N.D.		180	35	10
10727	1,1'-Biphenyl	92-52-4	N.D.		350	180	10
10727	4-Bromophenyl-phenylether	101-55-3	N.D.		350	180	10
10727	Butylbenzylphthalate	85-68-7	N.D.		1,800	700	10
10727	Di-n-butylphthalate	84-74-2	N.D.		1,800	700	10
10727	Caprolactam	105-60-2	N.D.		1,800	350	10
10727	Carbazole	86-74-8	N.D.		350	180	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D.		350	180	10
10727	4-Chloroaniline	106-47-8	N.D.		700	350	10
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.		350	180	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.		350	180	10
10727	2-Chloronaphthalene	91-58-7	N.D.		350	70	10
10727	2-Chlorophenol	95-57-8	N.D.		350	180	10
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.		350	180	10
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		350	180	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10727	Chrysene	218-01-9	200		180	35	10
10727	Dibenz(a,h)anthracene	53-70-3	N.D.		180	35	10
10727	Dibenzofuran	132-64-9	N.D.		350	180	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.		3,500	1,100	10
10727	2,4-Dichlorophenol	120-83-2	N.D.		350	180	10
10727	Diethylphthalate	84-66-2	N.D.		1,800	700	10
10727	2,4-Dimethylphenol	105-67-9	N.D.		350	180	10
10727	Dimethylphthalate	131-11-3	N.D.		1,800	700	10
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		5,300	1,800	10
10727	2,4-Dinitrophenol	51-28-5	N.D.		11,000	3,200	10
10727	2,4-Dinitrotoluene	121-14-2	N.D.		1,800	700	10
10727	2,6-Dinitrotoluene	606-20-2	N.D.		350	180	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1,800	700	10
10727	Fluoranthene	206-44-0	100	J	180	35	10
10727	Fluorene	86-73-7	48	J	180	35	10
10727	Hexachlorobenzene	118-74-1	N.D.		180	35	10
10727	Hexachlorobutadiene	87-68-3	N.D.		350	180	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D.		5,300	1,800	10
10727	Hexachloroethane	67-72-1	N.D.		1,800	350	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	100	J	180	35	10
10727	Isophorone	78-59-1	N.D.		350	180	10

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-019-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445541
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 16:50 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3902 SDG#: MHF39-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
10727	2-Methylnaphthalene	91-57-6	370	180	35	10
10727	2-Methylphenol	95-48-7	N.D.	350	180	10
10727	4-Methylphenol	106-44-5	N.D.	350	180	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	140 J	180	35	10
10727	2-Nitroaniline	88-74-4	N.D.	350	180	10
10727	3-Nitroaniline	99-09-2	N.D.	1,800	700	10
10727	4-Nitroaniline	100-01-6	N.D.	1,800	700	10
10727	Nitrobenzene	98-95-3	N.D.	350	180	10
10727	2-Nitrophenol	88-75-5	N.D.	350	180	10
10727	4-Nitrophenol	100-02-7	N.D.	5,300	1,800	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.	350	180	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D.	350	180	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D.	1,800	700	10
10727	Pentachlorophenol	87-86-5	N.D.	1,800	350	10
10727	Phenanthrene	85-01-8	260	180	35	10
10727	Phenol	108-95-2	N.D.	350	180	10
10727	Pyrene	129-00-0	260	180	35	10
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	350	180	10
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	1,800	700	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D.	350	180	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D.	350	180	10
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600	21.3	9.25	1
06944	Antimony	7440-36-0	0.921 J	2.13	0.746	1
06935	Arsenic	7440-38-2	12.6	2.13	1.03	1
06946	Barium	7440-39-3	112	0.533	0.0352	1
06947	Beryllium	7440-41-7	0.825	0.533	0.0714	1
06949	Cadmium	7440-43-9	0.368 J	0.533	0.0522	1
01650	Calcium	7440-70-2	8,500	21.3	6.03	1
06951	Chromium	7440-47-3	96.8	1.60	0.149	1
06952	Cobalt	7440-48-4	7.58	0.533	0.128	1
06953	Copper	7440-50-8	77.7	1.07	0.245	1
01654	Iron	7439-89-6	22,900	21.3	4.39	1
06955	Lead	7439-92-1	99.6	1.60	0.586	1
01657	Magnesium	7439-95-4	5,180	10.7	2.03	1
06958	Manganese	7439-96-5	719	0.533	0.0885	1
06961	Nickel	7440-02-0	17.4	1.07	0.320	1
01662	Potassium	7440-09-7	1,830	53.3	25.5	1
06936	Selenium	7782-49-2	2.87	2.13	0.959	1
06966	Silver	7440-22-4	0.736	0.533	0.160	1
01667	Sodium	7440-23-5	168	107	25.5	1
06925	Thallium	7440-28-0	1.25 J	3.20	0.874	1
06971	Vanadium	7440-62-2	40.8	0.533	0.149	1
06972	Zinc	7440-66-6	130	2.13	0.725	1

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
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Analysis Report

Sample Description: AOI7-BH-16-019-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445541
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 16:50 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3902 SDG#: MHF39-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	2.31	0.999	0.0999	10
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	6.2	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	Q161832AA	07/02/2016 00:50	Kevin A Sposito	46.98
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/22/2016 16:50	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/22/2016 16:50	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/22/2016 16:50	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 15:08	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06944	Antimony	SW-846 6010B	1	161825708002	07/07/2016 06:18	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06949	Cadmium	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06951	Chromium	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06952	Cobalt	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-019-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445541
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 16:50 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3902 SDG#: MHF39-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06953	Copper	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
01654	Iron	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06955	Lead	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06966	Silver	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016 06:18	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
06972	Zinc	SW-846 6010B	1	161825708002	07/03/2016 17:23	Elaine F Stoltzfus	1
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016 07:26	Damary Valentin	10
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016 05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016 11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016 23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-020-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445542
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:20 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3903 SDG#: MHF39-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.		4,500	1,600	202.2
10237	Benzene	71-43-2	150	J	1,100	110	202.2
10237	Bromochloromethane	74-97-5	N.D.		1,100	230	202.2
10237	Bromodichloromethane	75-27-4	N.D.		1,100	230	202.2
10237	Bromoform	75-25-2	N.D.		1,100	230	202.2
10237	Bromomethane	74-83-9	N.D.		1,100	450	202.2
10237	2-Butanone	78-93-3	N.D.		2,300	910	202.2
10237	Carbon Disulfide	75-15-0	N.D.		1,100	230	202.2
10237	Carbon Tetrachloride	56-23-5	N.D.		1,100	230	202.2
10237	Chlorobenzene	108-90-7	N.D.		1,100	230	202.2
10237	Chloroethane	75-00-3	N.D.		1,100	450	202.2
10237	Chloroform	67-66-3	N.D.		1,100	230	202.2
10237	Chloromethane	74-87-3	N.D.		1,100	450	202.2
10237	Cyclohexane	110-82-7	N.D.		1,100	230	202.2
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		1,100	450	202.2
10237	Dibromochloromethane	124-48-1	N.D.		1,100	230	202.2
10237	1,2-Dibromoethane	106-93-4	N.D.		1,100	230	202.2
10237	1,2-Dichlorobenzene	95-50-1	N.D.		1,100	230	202.2
10237	1,3-Dichlorobenzene	541-73-1	N.D.		1,100	230	202.2
10237	1,4-Dichlorobenzene	106-46-7	N.D.		1,100	230	202.2
10237	Dichlorodifluoromethane	75-71-8	N.D.		1,100	450	202.2
10237	1,1-Dichloroethane	75-34-3	N.D.		1,100	230	202.2
10237	1,2-Dichloroethane	107-06-2	N.D.		1,100	230	202.2
10237	1,1-Dichloroethene	75-35-4	N.D.		1,100	230	202.2
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		1,100	230	202.2
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		1,100	230	202.2
10237	1,2-Dichloropropane	78-87-5	N.D.		1,100	230	202.2
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		1,100	230	202.2
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		1,100	230	202.2
10237	Ethylbenzene	100-41-4	1,300		1,100	230	202.2
10237	Freon 113	76-13-1	N.D.		2,300	450	202.2
10237	2-Hexanone	591-78-6	N.D.		2,300	680	202.2
10237	Isopropylbenzene	98-82-8	480	J	1,100	230	202.2
10237	Methyl Acetate	79-20-9	550	J	1,100	450	202.2
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		1,100	110	202.2
10237	4-Methyl-2-pentanone	108-10-1	N.D.		2,300	680	202.2
10237	Methylcyclohexane	108-87-2	1,900		1,100	230	202.2
10237	Methylene Chloride	75-09-2	N.D.		1,100	450	202.2
10237	Styrene	100-42-5	N.D.		1,100	230	202.2
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1,100	230	202.2
10237	Tetrachloroethene	127-18-4	N.D.		1,100	230	202.2
10237	Toluene	108-88-3	N.D.		1,100	230	202.2
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		1,100	230	202.2
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		1,100	230	202.2
10237	1,1,1-Trichloroethane	71-55-6	N.D.		1,100	230	202.2
10237	1,1,2-Trichloroethane	79-00-5	N.D.		1,100	230	202.2
10237	Trichloroethene	79-01-6	N.D.		1,100	230	202.2
10237	Trichlorofluoromethane	75-69-4	N.D.		1,100	450	202.2
10237	Vinyl Chloride	75-01-4	N.D.		1,100	230	202.2
10237	m+p-Xylene	n.a.	480	J	1,100	230	202.2
10237	o-Xylene	95-47-6	350	J	1,100	230	202.2

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-020-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445542
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:20 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3903 SDG#: MHF39-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	7,700		380	75	10
10727	Acenaphthylene	208-96-8	6,400		380	75	10
10727	Acetophenone	98-86-2	N.D.		750	370	10
10727	Anthracene	120-12-7	6,900		380	75	10
10727	Atrazine	1912-24-9	N.D.		3,700	750	10
10727	Benzaldehyde	100-52-7	N.D.		3,700	1,500	10
10727	Benzo(a)anthracene	56-55-3	10,000		380	75	10
10727	Benzo(a)pyrene	50-32-8	11,000		380	75	10
10727	Benzo(b)fluoranthene	205-99-2	12,000		380	75	10
10727	Benzo(g,h,i)perylene	191-24-2	7,200		380	75	10
10727	Benzo(k)fluoranthene	207-08-9	4,600		380	75	10
10727	1,1'-Biphenyl	92-52-4	N.D.		750	370	10
10727	4-Bromophenyl-phenylether	101-55-3	N.D.		750	370	10
10727	Butylbenzylphthalate	85-68-7	N.D.		3,700	1,500	10
10727	Di-n-butylphthalate	84-74-2	N.D.		3,700	1,500	10
10727	Caprolactam	105-60-2	N.D.		3,700	750	10
10727	Carbazole	86-74-8	N.D.		750	370	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D.		750	370	10
10727	4-Chloroaniline	106-47-8	N.D.		1,500	750	10
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.		750	370	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.		750	370	10
10727	2-Chloronaphthalene	91-58-7	N.D.		740	150	10
10727	2-Chlorophenol	95-57-8	N.D.		750	370	10
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.		750	370	10
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		750	370	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10727	Chrysene	218-01-9	11,000		380	75	10
10727	Dibenz(a,h)anthracene	53-70-3	2,000		380	75	10
10727	Dibenzofuran	132-64-9	N.D.		750	370	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.		7,500	2,200	10
10727	2,4-Dichlorophenol	120-83-2	N.D.		750	370	10
10727	Diethylphthalate	84-66-2	N.D.		3,700	1,500	10
10727	2,4-Dimethylphenol	105-67-9	N.D.		750	370	10
10727	Dimethylphthalate	131-11-3	N.D.		3,700	1,500	10
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		11,000	3,700	10
10727	2,4-Dinitrophenol	51-28-5	N.D.		22,000	6,700	10
10727	2,4-Dinitrotoluene	121-14-2	N.D.		3,700	1,500	10
10727	2,6-Dinitrotoluene	606-20-2	N.D.		750	370	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	2,800	J	3,800	1,500	10
10727	Fluoranthene	206-44-0	15,000		380	75	10
10727	Fluorene	86-73-7	12,000		380	75	10
10727	Hexachlorobenzene	118-74-1	N.D.		380	75	10
10727	Hexachlorobutadiene	87-68-3	N.D.		750	370	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D.		11,000	3,700	10
10727	Hexachloroethane	67-72-1	N.D.		3,700	750	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	5,800		380	75	10
10727	Isophorone	78-59-1	N.D.		750	370	10
10727	2-Methylnaphthalene	91-57-6	2,600		380	75	10

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-020-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445542
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:20 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3903 SDG#: MHF39-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
10727	2-Methylphenol	95-48-7	N.D.	750	370	10
10727	4-Methylphenol	106-44-5	N.D.	750	370	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	3,200	380	75	10
10727	2-Nitroaniline	88-74-4	N.D.	750	370	10
10727	3-Nitroaniline	99-09-2	N.D.	3,700	1,500	10
10727	4-Nitroaniline	100-01-6	N.D.	3,700	1,500	10
10727	Nitrobenzene	98-95-3	N.D.	750	370	10
10727	2-Nitrophenol	88-75-5	N.D.	750	370	10
10727	4-Nitrophenol	100-02-7	N.D.	11,000	3,700	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.	750	370	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D.	750	370	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D.	3,700	1,500	10
10727	Pentachlorophenol	87-86-5	N.D.	3,800	750	10
10727	Phenanthrene	85-01-8	29,000	380	75	10
10727	Phenol	108-95-2	N.D.	750	370	10
10727	Pyrene	129-00-0	21,000	380	75	10
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	750	370	10
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	3,700	1,500	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D.	750	370	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D.	750	370	10
	Reporting limits were raised due to interference from the sample matrix.					
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800	111	48.2	5
06944	Antimony	7440-36-0	5.59 J	11.1	3.88	5
06935	Arsenic	7440-38-2	79.8	11.1	5.38	5
06946	Barium	7440-39-3	364	0.555	0.0366	1
06947	Beryllium	7440-41-7	3.89	2.77	0.372	5
06949	Cadmium	7440-43-9	1.95 J	2.77	0.272	5
01650	Calcium	7440-70-2	8,710	22.2	6.28	1
06951	Chromium	7440-47-3	100	8.32	0.777	5
06952	Cobalt	7440-48-4	19.2	2.77	0.666	5
06953	Copper	7440-50-8	394	5.55	1.28	5
01654	Iron	7439-89-6	54,300	111	22.9	5
06955	Lead	7439-92-1	509	8.32	3.05	5
01657	Magnesium	7439-95-4	5,300	55.5	10.5	5
06958	Manganese	7439-96-5	256	0.555	0.0921	1
06961	Nickel	7440-02-0	48.5	5.55	1.66	5
01662	Potassium	7440-09-7	1,600	55.5	26.5	1
06936	Selenium	7782-49-2	5.43 J	11.1	4.99	5
06966	Silver	7440-22-4	2.46 J	2.77	0.832	5
01667	Sodium	7440-23-5	303	111	26.5	1
06925	Thallium	7440-28-0	N.D.	16.6	4.55	5
	Reporting limits for ICP metals were raised due to interference from the sample matrix.					

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: AOI7-BH-16-020-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445542
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:20 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3903 SDG#: MHF39-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06971	Vanadium	7440-62-2	93.4	2.77	0.777	5
06972	Zinc	7440-66-6	600	11.1	3.77	5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	10.6	5.42	0.542	50
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	10.8	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	Q161832AA	07/02/2016 04:40	Kevin A Sposito	202.2
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/23/2016 15:20	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/23/2016 15:20	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/23/2016 15:20	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 15:28	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/07/2016 06:35	Joanne M Gates	5
06944	Antimony	SW-846 6010B	1	161825708002	07/07/2016 06:35	Joanne M Gates	5
06935	Arsenic	SW-846 6010B	1	161825708002	07/07/2016 06:35	Joanne M Gates	5
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:26	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/07/2016 06:35	Joanne M Gates	5
06949	Cadmium	SW-846 6010B	1	161825708002	07/07/2016 06:35	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	161825708002	07/03/2016 17:26	Elaine F Stoltzfus	1
06951	Chromium	SW-846 6010B	1	161825708002	07/07/2016 06:35	Joanne M Gates	5
06952	Cobalt	SW-846 6010B	1	161825708002	07/07/2016 06:35	Joanne M Gates	5
06953	Copper	SW-846 6010B	1	161825708002	07/07/2016 06:35	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	161825708002	07/07/2016 06:35	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	161825708002	07/08/2016 20:31	Cindy M Gehman	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-020-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445542
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:20 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3903 SDG#: MHF39-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	161825708002	07/07/2016	06:35	Joanne M Gates	5
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016	17:26	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/07/2016	06:35	Joanne M Gates	5
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016	17:26	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/07/2016	06:35	Joanne M Gates	5
06966	Silver	SW-846 6010B	1	161825708002	07/07/2016	06:35	Joanne M Gates	5
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016	17:26	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016	06:35	Joanne M Gates	5
06971	Vanadium	SW-846 6010B	1	161825708002	07/07/2016	06:35	Joanne M Gates	5
06972	Zinc	SW-846 6010B	1	161825708002	07/07/2016	06:35	Joanne M Gates	5
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016	07:31	Damary Valentin	50
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016	05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016	11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016	23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-021-062416-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445543
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 08:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3904 SDG#: MHF39-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.		890	310	40.54
10237	Benzene	71-43-2	110	J	220	22	40.54
10237	Bromochloromethane	74-97-5	N.D.		220	45	40.54
10237	Bromodichloromethane	75-27-4	N.D.		220	45	40.54
10237	Bromoform	75-25-2	N.D.		220	45	40.54
10237	Bromomethane	74-83-9	N.D.		220	89	40.54
10237	2-Butanone	78-93-3	N.D.		450	180	40.54
10237	Carbon Disulfide	75-15-0	N.D.		220	45	40.54
10237	Carbon Tetrachloride	56-23-5	N.D.		220	45	40.54
10237	Chlorobenzene	108-90-7	N.D.		220	45	40.54
10237	Chloroethane	75-00-3	N.D.		220	89	40.54
10237	Chloroform	67-66-3	N.D.		220	45	40.54
10237	Chloromethane	74-87-3	N.D.		220	89	40.54
10237	Cyclohexane	110-82-7	N.D.		220	45	40.54
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		220	89	40.54
10237	Dibromochloromethane	124-48-1	N.D.		220	45	40.54
10237	1,2-Dibromoethane	106-93-4	N.D.		220	45	40.54
10237	1,2-Dichlorobenzene	95-50-1	N.D.		220	45	40.54
10237	1,3-Dichlorobenzene	541-73-1	N.D.		220	45	40.54
10237	1,4-Dichlorobenzene	106-46-7	N.D.		220	45	40.54
10237	Dichlorodifluoromethane	75-71-8	N.D.		220	89	40.54
10237	1,1-Dichloroethane	75-34-3	N.D.		220	45	40.54
10237	1,2-Dichloroethane	107-06-2	N.D.		220	45	40.54
10237	1,1-Dichloroethene	75-35-4	N.D.		220	45	40.54
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		220	45	40.54
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		220	45	40.54
10237	1,2-Dichloropropane	78-87-5	N.D.		220	45	40.54
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		220	45	40.54
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		220	45	40.54
10237	Ethylbenzene	100-41-4	69	J	220	45	40.54
10237	Freon 113	76-13-1	N.D.		450	89	40.54
10237	2-Hexanone	591-78-6	N.D.		450	130	40.54
10237	Isopropylbenzene	98-82-8	N.D.		220	45	40.54
10237	Methyl Acetate	79-20-9	280		220	89	40.54
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		220	22	40.54
10237	4-Methyl-2-pentanone	108-10-1	N.D.		450	130	40.54
10237	Methylcyclohexane	108-87-2	N.D.		220	45	40.54
10237	Methylene Chloride	75-09-2	N.D.		220	89	40.54
10237	Styrene	100-42-5	N.D.		220	45	40.54
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		220	45	40.54
10237	Tetrachloroethene	127-18-4	N.D.		220	45	40.54
10237	Toluene	108-88-3	68	J	220	45	40.54
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		220	45	40.54
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		220	45	40.54
10237	1,1,1-Trichloroethane	71-55-6	N.D.		220	45	40.54
10237	1,1,2-Trichloroethane	79-00-5	N.D.		220	45	40.54
10237	Trichloroethene	79-01-6	N.D.		220	45	40.54
10237	Trichlorofluoromethane	75-69-4	N.D.		220	89	40.54
10237	Vinyl Chloride	75-01-4	N.D.		220	45	40.54
10237	m+p-Xylene	n.a.	140	J	220	45	40.54
10237	o-Xylene	95-47-6	N.D.		220	45	40.54

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-021-062416-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445543
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 08:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3904 SDG#: MHF39-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	N.D.		190	37	10
10727	Acenaphthylene	208-96-8	250		190	37	10
10727	Acetophenone	98-86-2	N.D.		370	180	10
10727	Anthracene	120-12-7	260		190	37	10
10727	Atrazine	1912-24-9	N.D.		1,800	370	10
10727	Benzaldehyde	100-52-7	N.D.		1,800	730	10
10727	Benzo(a)anthracene	56-55-3	330		190	37	10
10727	Benzo(a)pyrene	50-32-8	390		190	37	10
10727	Benzo(b)fluoranthene	205-99-2	370		190	37	10
10727	Benzo(g,h,i)perylene	191-24-2	460		190	37	10
10727	Benzo(k)fluoranthene	207-08-9	110	J	190	37	10
10727	1,1'-Biphenyl	92-52-4	N.D.		370	180	10
10727	4-Bromophenyl-phenylether	101-55-3	N.D.		370	180	10
10727	Butylbenzylphthalate	85-68-7	N.D.		1,800	730	10
10727	Di-n-butylphthalate	84-74-2	N.D.		1,800	730	10
10727	Caprolactam	105-60-2	N.D.		1,800	370	10
10727	Carbazole	86-74-8	N.D.		370	180	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D.		370	180	10
10727	4-Chloroaniline	106-47-8	N.D.		730	370	10
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.		370	180	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.		370	180	10
10727	2-Chloronaphthalene	91-58-7	N.D.		360	73	10
10727	2-Chlorophenol	95-57-8	N.D.		370	180	10
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.		370	180	10
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		370	180	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10727	Chrysene	218-01-9	540		190	37	10
10727	Dibenz(a,h)anthracene	53-70-3	70	J	190	37	10
10727	Dibenzofuran	132-64-9	N.D.		370	180	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.		3,700	1,100	10
10727	2,4-Dichlorophenol	120-83-2	N.D.		370	180	10
10727	Diethylphthalate	84-66-2	N.D.		1,800	730	10
10727	2,4-Dimethylphenol	105-67-9	N.D.		370	180	10
10727	Dimethylphthalate	131-11-3	N.D.		1,800	730	10
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		5,500	1,800	10
10727	2,4-Dinitrophenol	51-28-5	N.D.		11,000	3,300	10
10727	2,4-Dinitrotoluene	121-14-2	N.D.		1,800	730	10
10727	2,6-Dinitrotoluene	606-20-2	N.D.		370	180	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1,900	730	10
10727	Fluoranthene	206-44-0	440		190	37	10
10727	Fluorene	86-73-7	110	J	190	37	10
10727	Hexachlorobenzene	118-74-1	N.D.		190	37	10
10727	Hexachlorobutadiene	87-68-3	N.D.		370	180	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D.		5,500	1,800	10
10727	Hexachloroethane	67-72-1	N.D.		1,800	370	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	230		190	37	10
10727	Isophorone	78-59-1	N.D.		370	180	10

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-021-062416-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445543
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 08:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3904 SDG#: MHF39-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
10727	2-Methylnaphthalene	91-57-6	300	190	37	10
10727	2-Methylphenol	95-48-7	N.D.	370	180	10
10727	4-Methylphenol	106-44-5	N.D.	370	180	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	170 J	190	37	10
10727	2-Nitroaniline	88-74-4	N.D.	370	180	10
10727	3-Nitroaniline	99-09-2	N.D.	1,800	730	10
10727	4-Nitroaniline	100-01-6	N.D.	1,800	730	10
10727	Nitrobenzene	98-95-3	N.D.	370	180	10
10727	2-Nitrophenol	88-75-5	N.D.	370	180	10
10727	4-Nitrophenol	100-02-7	N.D.	5,500	1,800	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.	370	180	10
10727	N-Nitrosodiphenylamine	86-30-6	620	370	180	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D.	1,800	730	10
10727	Pentachlorophenol	87-86-5	N.D.	1,900	370	10
10727	Phenanthrene	85-01-8	350	190	37	10
10727	Phenol	108-95-2	N.D.	370	180	10
10727	Pyrene	129-00-0	1,000	190	37	10
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	370	180	10
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	1,800	730	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D.	370	180	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D.	370	180	10
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800	21.0	9.10	1
06944	Antimony	7440-36-0	3.30	2.10	0.734	1
06935	Arsenic	7440-38-2	26.7	2.10	1.02	1
06946	Barium	7440-39-3	190	0.524	0.0346	1
06947	Beryllium	7440-41-7	1.09	0.524	0.0703	1
06949	Cadmium	7440-43-9	1.16	0.524	0.0514	1
01650	Calcium	7440-70-2	24,700	21.0	5.94	1
06951	Chromium	7440-47-3	41.7	1.57	0.147	1
06952	Cobalt	7440-48-4	9.87	0.524	0.126	1
06953	Copper	7440-50-8	176	1.05	0.241	1
01654	Iron	7439-89-6	33,200	105	21.6	5
06955	Lead	7439-92-1	289	1.57	0.577	1
01657	Magnesium	7439-95-4	12,800	10.5	1.99	1
06958	Manganese	7439-96-5	284	0.524	0.0871	1
06961	Nickel	7440-02-0	21.7	1.05	0.315	1
01662	Potassium	7440-09-7	2,010	52.4	25.1	1
06936	Selenium	7782-49-2	4.95	2.10	0.944	1
06966	Silver	7440-22-4	3.17	0.524	0.157	1
01667	Sodium	7440-23-5	222	105	25.1	1
06925	Thallium	7440-28-0	1.03 J	3.15	0.860	1
06971	Vanadium	7440-62-2	56.0	0.524	0.147	1
06972	Zinc	7440-66-6	422	2.10	0.713	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-021-062416-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445543
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 08:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3904 SDG#: MHF39-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	7.05	2.58	0.258	25
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	9.2	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	Q161832AA	07/02/2016 01:13	Kevin A Sposito	40.54
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/24/2016 08:30	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/24/2016 08:30	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/24/2016 08:30	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 15:47	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06944	Antimony	SW-846 6010B	1	161825708002	07/07/2016 06:38	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06949	Cadmium	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06951	Chromium	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06952	Cobalt	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-021-062416-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445543
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 08:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3904 SDG#: MHF39-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06953	Copper	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
01654	Iron	SW-846 6010B	1	161825708002	07/07/2016 06:42	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06966	Silver	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016 06:38	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
06972	Zinc	SW-846 6010B	1	161825708002	07/03/2016 17:30	Elaine F Stoltzfus	1
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016 07:37	Damary Valentin	25
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016 05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016 11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016 23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-022-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445544
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 13:10 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3905 SDG#: MHF39-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.		1,000	350	42.49
10237	Benzene	71-43-2	28	J	250	25	42.49
10237	Bromochloromethane	74-97-5	N.D.		250	50	42.49
10237	Bromodichloromethane	75-27-4	N.D.		250	50	42.49
10237	Bromoform	75-25-2	N.D.		250	50	42.49
10237	Bromomethane	74-83-9	N.D.		250	100	42.49
10237	2-Butanone	78-93-3	N.D.		500	200	42.49
10237	Carbon Disulfide	75-15-0	N.D.		250	50	42.49
10237	Carbon Tetrachloride	56-23-5	N.D.		250	50	42.49
10237	Chlorobenzene	108-90-7	N.D.		250	50	42.49
10237	Chloroethane	75-00-3	N.D.		250	100	42.49
10237	Chloroform	67-66-3	N.D.		250	50	42.49
10237	Chloromethane	74-87-3	N.D.		250	100	42.49
10237	Cyclohexane	110-82-7	N.D.		250	50	42.49
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		250	100	42.49
10237	Dibromochloromethane	124-48-1	N.D.		250	50	42.49
10237	1,2-Dibromoethane	106-93-4	N.D.		250	50	42.49
10237	1,2-Dichlorobenzene	95-50-1	N.D.		250	50	42.49
10237	1,3-Dichlorobenzene	541-73-1	N.D.		250	50	42.49
10237	1,4-Dichlorobenzene	106-46-7	N.D.		250	50	42.49
10237	Dichlorodifluoromethane	75-71-8	N.D.		250	100	42.49
10237	1,1-Dichloroethane	75-34-3	N.D.		250	50	42.49
10237	1,2-Dichloroethane	107-06-2	N.D.		250	50	42.49
10237	1,1-Dichloroethene	75-35-4	N.D.		250	50	42.49
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		250	50	42.49
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		250	50	42.49
10237	1,2-Dichloropropane	78-87-5	N.D.		250	50	42.49
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		250	50	42.49
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		250	50	42.49
10237	Ethylbenzene	100-41-4	N.D.		250	50	42.49
10237	Freon 113	76-13-1	N.D.		500	100	42.49
10237	2-Hexanone	591-78-6	N.D.		500	150	42.49
10237	Isopropylbenzene	98-82-8	N.D.		250	50	42.49
10237	Methyl Acetate	79-20-9	140	J	250	100	42.49
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		250	25	42.49
10237	4-Methyl-2-pentanone	108-10-1	N.D.		500	150	42.49
10237	Methylcyclohexane	108-87-2	N.D.		250	50	42.49
10237	Methylene Chloride	75-09-2	N.D.		250	100	42.49
10237	Styrene	100-42-5	N.D.		250	50	42.49
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		250	50	42.49
10237	Tetrachloroethene	127-18-4	N.D.		250	50	42.49
10237	Toluene	108-88-3	N.D.		250	50	42.49
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		250	50	42.49
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		250	50	42.49
10237	1,1,1-Trichloroethane	71-55-6	N.D.		250	50	42.49
10237	1,1,2-Trichloroethane	79-00-5	N.D.		250	50	42.49
10237	Trichloroethene	79-01-6	N.D.		250	50	42.49
10237	Trichlorofluoromethane	75-69-4	N.D.		250	100	42.49
10237	Vinyl Chloride	75-01-4	N.D.		250	50	42.49
10237	m+p-Xylene	n.a.	N.D.		250	50	42.49
10237	o-Xylene	95-47-6	N.D.		250	50	42.49

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-022-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445544
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 13:10 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3905 SDG#: MHF39-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	N.D.		200	39	10
10727	Acenaphthylene	208-96-8	270		200	39	10
10727	Acetophenone	98-86-2	N.D.		390	200	10
10727	Anthracene	120-12-7	140	J	200	39	10
10727	Atrazine	1912-24-9	N.D.		1,900	390	10
10727	Benzaldehyde	100-52-7	N.D.		1,900	780	10
10727	Benzo(a)anthracene	56-55-3	530		200	39	10
10727	Benzo(a)pyrene	50-32-8	990		200	39	10
10727	Benzo(b)fluoranthene	205-99-2	1,100		200	39	10
10727	Benzo(g,h,i)perylene	191-24-2	1,000		200	39	10
10727	Benzo(k)fluoranthene	207-08-9	470		200	39	10
10727	1,1'-Biphenyl	92-52-4	N.D.		390	200	10
10727	4-Bromophenyl-phenylether	101-55-3	N.D.		390	200	10
10727	Butylbenzylphthalate	85-68-7	N.D.		1,900	780	10
10727	Di-n-butylphthalate	84-74-2	N.D.		1,900	780	10
10727	Caprolactam	105-60-2	N.D.		1,900	390	10
10727	Carbazole	86-74-8	N.D.		390	200	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D.		390	200	10
10727	4-Chloroaniline	106-47-8	N.D.		780	390	10
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.		390	200	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.		390	200	10
10727	2-Chloronaphthalene	91-58-7	N.D.		390	78	10
10727	2-Chlorophenol	95-57-8	N.D.		390	200	10
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.		390	200	10
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		390	200	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10727	Chrysene	218-01-9	1,100		200	39	10
10727	Dibenz(a,h)anthracene	53-70-3	280		200	39	10
10727	Dibenzofuran	132-64-9	N.D.		390	200	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.		3,900	1,200	10
10727	2,4-Dichlorophenol	120-83-2	N.D.		390	200	10
10727	Diethylphthalate	84-66-2	N.D.		1,900	780	10
10727	2,4-Dimethylphenol	105-67-9	N.D.		390	200	10
10727	Dimethylphthalate	131-11-3	N.D.		1,900	780	10
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		5,800	1,900	10
10727	2,4-Dinitrophenol	51-28-5	N.D.		12,000	3,500	10
10727	2,4-Dinitrotoluene	121-14-2	N.D.		1,900	780	10
10727	2,6-Dinitrotoluene	606-20-2	N.D.		390	200	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		2,000	780	10
10727	Fluoranthene	206-44-0	300		200	39	10
10727	Fluorene	86-73-7	87	J	200	39	10
10727	Hexachlorobenzene	118-74-1	N.D.		200	39	10
10727	Hexachlorobutadiene	87-68-3	N.D.		390	200	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D.		5,800	1,900	10
10727	Hexachloroethane	67-72-1	N.D.		1,900	390	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	670		200	39	10
10727	Isophorone	78-59-1	N.D.		390	200	10

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-022-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445544
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 13:10 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3905 SDG#: MHF39-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
10727	2-Methylnaphthalene	91-57-6	330	200	39	10
10727	2-Methylphenol	95-48-7	N.D.	390	200	10
10727	4-Methylphenol	106-44-5	N.D.	390	200	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	180 J	200	39	10
10727	2-Nitroaniline	88-74-4	N.D.	390	200	10
10727	3-Nitroaniline	99-09-2	N.D.	1,900	780	10
10727	4-Nitroaniline	100-01-6	N.D.	1,900	780	10
10727	Nitrobenzene	98-95-3	N.D.	390	200	10
10727	2-Nitrophenol	88-75-5	N.D.	390	200	10
10727	4-Nitrophenol	100-02-7	N.D.	5,800	1,900	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.	390	200	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D.	390	200	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D.	1,900	780	10
10727	Pentachlorophenol	87-86-5	N.D.	2,000	390	10
10727	Phenanthrene	85-01-8	370	200	39	10
10727	Phenol	108-95-2	N.D.	390	200	10
10727	Pyrene	129-00-0	1,000	200	39	10
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	390	200	10
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	1,900	780	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D.	390	200	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D.	390	200	10
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500	22.4	9.74	1
06944	Antimony	7440-36-0	0.812 J	2.24	0.785	1
06935	Arsenic	7440-38-2	9.66	2.24	1.09	1
06946	Barium	7440-39-3	126	0.561	0.0370	1
06947	Beryllium	7440-41-7	0.598	0.561	0.0752	1
06949	Cadmium	7440-43-9	0.305 J	0.561	0.0550	1
01650	Calcium	7440-70-2	6,610	22.4	6.35	1
06951	Chromium	7440-47-3	40.6	1.68	0.157	1
06952	Cobalt	7440-48-4	7.06	0.561	0.135	1
06953	Copper	7440-50-8	89.4	1.12	0.258	1
01654	Iron	7439-89-6	29,800	22.4	4.62	1
06955	Lead	7439-92-1	93.9	1.68	0.617	1
01657	Magnesium	7439-95-4	5,100	11.2	2.13	1
06958	Manganese	7439-96-5	411	0.561	0.0931	1
06961	Nickel	7440-02-0	19.6	1.12	0.337	1
01662	Potassium	7440-09-7	2,100	56.1	26.8	1
06936	Selenium	7782-49-2	3.66	2.24	1.01	1
06966	Silver	7440-22-4	1.08	0.561	0.168	1
01667	Sodium	7440-23-5	208	112	26.8	1
06925	Thallium	7440-28-0	N.D.	3.37	0.920	1
06971	Vanadium	7440-62-2	46.8	0.561	0.157	1
06972	Zinc	7440-66-6	121	2.24	0.763	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: AOI7-BH-16-022-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445544
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 13:10 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3905 SDG#: MHF39-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.31	0.589	0.0589	5
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	15.1	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	Q161832AA	07/02/2016 03:31	Kevin A Sposito	42.49
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/23/2016 13:10	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/23/2016 13:10	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/23/2016 13:10	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 16:07	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06944	Antimony	SW-846 6010B	1	161825708002	07/07/2016 06:45	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06949	Cadmium	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06951	Chromium	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06952	Cobalt	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: AOI7-BH-16-022-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445544
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 13:10 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3905 SDG#: MHF39-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06953	Copper	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
01654	Iron	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06955	Lead	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06966	Silver	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016 06:45	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
06972	Zinc	SW-846 6010B	1	161825708002	07/03/2016 17:33	Elaine F Stoltzfus	1
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016 07:39	Damary Valentin	5
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016 05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016 11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016 23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-023-062416-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445545
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 09:20 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3906 SDG#: MHF39-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	28		18	6	0.85
10237	Benzene	71-43-2	3	J	5	0.5	0.85
10237	Bromochloromethane	74-97-5	N.D.		5	0.9	0.85
10237	Bromodichloromethane	75-27-4	N.D.		5	0.9	0.85
10237	Bromoform	75-25-2	N.D.		5	0.9	0.85
10237	Bromomethane	74-83-9	N.D.		5	2	0.85
10237	2-Butanone	78-93-3	4	J	9	4	0.85
10237	Carbon Disulfide	75-15-0	N.D.		5	0.9	0.85
10237	Carbon Tetrachloride	56-23-5	N.D.		5	0.9	0.85
10237	Chlorobenzene	108-90-7	N.D.		5	0.9	0.85
10237	Chloroethane	75-00-3	N.D.		5	2	0.85
10237	Chloroform	67-66-3	N.D.		5	0.9	0.85
10237	Chloromethane	74-87-3	N.D.		5	2	0.85
10237	Cyclohexane	110-82-7	N.D.		5	0.9	0.85
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		5	2	0.85
10237	Dibromochloromethane	124-48-1	N.D.		5	0.9	0.85
10237	1,2-Dibromoethane	106-93-4	N.D.		5	0.9	0.85
10237	1,2-Dichlorobenzene	95-50-1	N.D.		5	0.9	0.85
10237	1,3-Dichlorobenzene	541-73-1	N.D.		5	0.9	0.85
10237	1,4-Dichlorobenzene	106-46-7	N.D.		5	0.9	0.85
10237	Dichlorodifluoromethane	75-71-8	N.D.		5	2	0.85
10237	1,1-Dichloroethane	75-34-3	N.D.		5	0.9	0.85
10237	1,2-Dichloroethane	107-06-2	N.D.		5	0.9	0.85
10237	1,1-Dichloroethene	75-35-4	N.D.		5	0.9	0.85
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		5	0.9	0.85
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		5	0.9	0.85
10237	1,2-Dichloropropane	78-87-5	N.D.		5	0.9	0.85
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		5	0.9	0.85
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		5	0.9	0.85
10237	Ethylbenzene	100-41-4	N.D.		5	0.9	0.85
10237	Freon 113	76-13-1	N.D.		9	2	0.85
10237	2-Hexanone	591-78-6	N.D.		9	3	0.85
10237	Isopropylbenzene	98-82-8	N.D.		5	0.9	0.85
10237	Methyl Acetate	79-20-9	N.D.		5	2	0.85
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		5	0.5	0.85
10237	4-Methyl-2-pentanone	108-10-1	N.D.		9	3	0.85
10237	Methylcyclohexane	108-87-2	N.D.		5	0.9	0.85
10237	Methylene Chloride	75-09-2	N.D.		5	2	0.85
10237	Styrene	100-42-5	N.D.		5	0.9	0.85
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		5	0.9	0.85
10237	Tetrachloroethene	127-18-4	N.D.		5	0.9	0.85
10237	Toluene	108-88-3	5		5	0.9	0.85
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		5	0.9	0.85
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		5	0.9	0.85
10237	1,1,1-Trichloroethane	71-55-6	N.D.		5	0.9	0.85
10237	1,1,2-Trichloroethane	79-00-5	N.D.		5	0.9	0.85
10237	Trichloroethene	79-01-6	N.D.		5	0.9	0.85
10237	Trichlorofluoromethane	75-69-4	N.D.		5	2	0.85
10237	Vinyl Chloride	75-01-4	N.D.		5	0.9	0.85
10237	m+p-Xylene	n.a.	2	J	5	0.9	0.85
10237	o-Xylene	95-47-6	N.D.		5	0.9	0.85

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-023-062416-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445545
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 09:20 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3906 SDG#: MHF39-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
	The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken: The sample was re-analyzed and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is reported from the initial trial.						
GC/MS Semivolatiles		**SW-846 8270C**	**ug/kg**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	N.D.		180	36	10
10727	Acenaphthylene	208-96-8	N.D.		180	36	10
10727	Acetophenone	98-86-2	N.D.		360	180	10
10727	Anthracene	120-12-7	90	J	180	36	10
10727	Atrazine	1912-24-9	N.D.		1,800	360	10
10727	Benzaldehyde	100-52-7	N.D.		1,800	720	10
10727	Benzo(a)anthracene	56-55-3	200		180	36	10
10727	Benzo(a)pyrene	50-32-8	400		180	36	10
10727	Benzo(b)fluoranthene	205-99-2	420		180	36	10
10727	Benzo(g,h,i)perylene	191-24-2	710		180	36	10
10727	Benzo(k)fluoranthene	207-08-9	110	J	180	36	10
10727	1,1'-Biphenyl	92-52-4	N.D.		360	180	10
10727	4-Bromophenyl-phenylether	101-55-3	N.D.		360	180	10
10727	Butylbenzylphthalate	85-68-7	N.D.		1,800	720	10
10727	Di-n-butylphthalate	84-74-2	N.D.		1,800	720	10
10727	Caprolactam	105-60-2	N.D.		1,800	360	10
10727	Carbazole	86-74-8	N.D.		360	180	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D.		360	180	10
10727	4-Chloroaniline	106-47-8	N.D.		720	360	10
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.		360	180	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.		360	180	10
10727	2-Chloronaphthalene	91-58-7	N.D.		360	72	10
10727	2-Chlorophenol	95-57-8	N.D.		360	180	10
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.		360	180	10
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		360	180	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10727	Chrysene	218-01-9	360		180	36	10
10727	Dibenz(a,h)anthracene	53-70-3	140	J	180	36	10
10727	Dibenzofuran	132-64-9	N.D.		360	180	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.		3,600	1,100	10
10727	2,4-Dichlorophenol	120-83-2	N.D.		360	180	10
10727	Diethylphthalate	84-66-2	N.D.		1,800	720	10
10727	2,4-Dimethylphenol	105-67-9	N.D.		360	180	10
10727	Dimethylphthalate	131-11-3	N.D.		1,800	720	10
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		5,400	1,800	10
10727	2,4-Dinitrophenol	51-28-5	N.D.		11,000	3,200	10
10727	2,4-Dinitrotoluene	121-14-2	N.D.		1,800	720	10
10727	2,6-Dinitrotoluene	606-20-2	N.D.		360	180	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1,800	720	10
10727	Fluoranthene	206-44-0	340		180	36	10
10727	Fluorene	86-73-7	57	J	180	36	10
10727	Hexachlorobenzene	118-74-1	N.D.		180	36	10
10727	Hexachlorobutadiene	87-68-3	N.D.		360	180	10

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-023-062416-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445545
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 09:20 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3906 SDG#: MHF39-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
10727	Hexachlorocyclopentadiene	77-47-4	N.D.		5,400	1,800	10
10727	Hexachloroethane	67-72-1	N.D.		1,800	360	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	220		180	36	10
10727	Isophorone	78-59-1	N.D.		360	180	10
10727	2-Methylnaphthalene	91-57-6	430		180	36	10
10727	2-Methylphenol	95-48-7	N.D.		360	180	10
10727	4-Methylphenol	106-44-5	N.D.		360	180	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
10727	Naphthalene	91-20-3	150	J	180	36	10
10727	2-Nitroaniline	88-74-4	N.D.		360	180	10
10727	3-Nitroaniline	99-09-2	N.D.		1,800	720	10
10727	4-Nitroaniline	100-01-6	N.D.		1,800	720	10
10727	Nitrobenzene	98-95-3	N.D.		360	180	10
10727	2-Nitrophenol	88-75-5	N.D.		360	180	10
10727	4-Nitrophenol	100-02-7	N.D.		5,400	1,800	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.		360	180	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D.		360	180	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
10727	Di-n-octylphthalate	117-84-0	N.D.		1,800	720	10
10727	Pentachlorophenol	87-86-5	N.D.		1,800	360	10
10727	Phenanthrene	85-01-8	360		180	36	10
10727	Phenol	108-95-2	N.D.		360	180	10
10727	Pyrene	129-00-0	520		180	36	10
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		360	180	10
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		1,800	720	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D.		360	180	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D.		360	180	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	7,890		20.4	8.85	1
06944	Antimony	7440-36-0	N.D.		2.04	0.714	1
06935	Arsenic	7440-38-2	3.55		2.04	0.989	1
06946	Barium	7440-39-3	87.0		0.510	0.0337	1
06947	Beryllium	7440-41-7	0.205	J	0.510	0.0683	1
06949	Cadmium	7440-43-9	0.294	J	0.510	0.0500	1
01650	Calcium	7440-70-2	21,900		20.4	5.77	1
06951	Chromium	7440-47-3	14.5		1.53	0.143	1
06952	Cobalt	7440-48-4	3.22		0.510	0.122	1
06953	Copper	7440-50-8	50.3		1.02	0.235	1
01654	Iron	7439-89-6	11,800		20.4	4.20	1
06955	Lead	7439-92-1	48.2		1.53	0.561	1
01657	Magnesium	7439-95-4	12,200		10.2	1.94	1
06958	Manganese	7439-96-5	176		0.510	0.0847	1
06961	Nickel	7440-02-0	9.35		1.02	0.306	1
01662	Potassium	7440-09-7	1,250		51.0	24.4	1
06936	Selenium	7782-49-2	1.05	J	2.04	0.918	1
06966	Silver	7440-22-4	0.288	J	0.510	0.153	1

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: AOI7-BH-16-023-062416-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445545
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 09:20 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3906 SDG#: MHF39-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	77.9	J	102	24.4	1
06925	Thallium	7440-28-0	N.D.		3.06	0.836	1
06971	Vanadium	7440-62-2	23.1		0.510	0.143	1
06972	Zinc	7440-66-6	49.8		2.04	0.694	1
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.858		0.249	0.0249	2.5
Wet Chemistry		**SM 2540 G-1997**	**%**		**%**	**%**	
00111	Moisture	n.a.	7.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	X161791AA	06/27/2016 17:34	Patrick T Herres	0.85
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/24/2016 09:20	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/24/2016 09:20	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/24/2016 09:20	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 16:27	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06944	Antimony	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06935	Arsenic	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06949	Cadmium	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-023-062416-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445545
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 09:20 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3906 SDG#: MHF39-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06951	Chromium	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06952	Cobalt	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06953	Copper	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
01654	Iron	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06955	Lead	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06966	Silver	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016 06:52	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
06972	Zinc	SW-846 6010B	1	161825708002	07/03/2016 17:36	Elaine F Stoltzfus	1
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016 07:41	Damary Valentin	2.5
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016 05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016 11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016 23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-024-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445546
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 14:05 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3907 SDG#: MHF39-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.		930	330	42.81
10237	Benzene	71-43-2	51	J	230	23	42.81
10237	Bromochloromethane	74-97-5	N.D.		230	47	42.81
10237	Bromodichloromethane	75-27-4	N.D.		230	47	42.81
10237	Bromoform	75-25-2	N.D.		230	47	42.81
10237	Bromomethane	74-83-9	N.D.		230	93	42.81
10237	2-Butanone	78-93-3	N.D.		470	190	42.81
10237	Carbon Disulfide	75-15-0	N.D.		230	47	42.81
10237	Carbon Tetrachloride	56-23-5	N.D.		230	47	42.81
10237	Chlorobenzene	108-90-7	N.D.		230	47	42.81
10237	Chloroethane	75-00-3	N.D.		230	93	42.81
10237	Chloroform	67-66-3	N.D.		230	47	42.81
10237	Chloromethane	74-87-3	N.D.		230	93	42.81
10237	Cyclohexane	110-82-7	N.D.		230	47	42.81
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		230	93	42.81
10237	Dibromochloromethane	124-48-1	N.D.		230	47	42.81
10237	1,2-Dibromoethane	106-93-4	N.D.		230	47	42.81
10237	1,2-Dichlorobenzene	95-50-1	N.D.		230	47	42.81
10237	1,3-Dichlorobenzene	541-73-1	N.D.		230	47	42.81
10237	1,4-Dichlorobenzene	106-46-7	N.D.		230	47	42.81
10237	Dichlorodifluoromethane	75-71-8	N.D.		230	93	42.81
10237	1,1-Dichloroethane	75-34-3	N.D.		230	47	42.81
10237	1,2-Dichloroethane	107-06-2	N.D.		230	47	42.81
10237	1,1-Dichloroethene	75-35-4	N.D.		230	47	42.81
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		230	47	42.81
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		230	47	42.81
10237	1,2-Dichloropropane	78-87-5	N.D.		230	47	42.81
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		230	47	42.81
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		230	47	42.81
10237	Ethylbenzene	100-41-4	N.D.		230	47	42.81
10237	Freon 113	76-13-1	N.D.		470	93	42.81
10237	2-Hexanone	591-78-6	N.D.		470	140	42.81
10237	Isopropylbenzene	98-82-8	N.D.		230	47	42.81
10237	Methyl Acetate	79-20-9	240		230	93	42.81
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		230	23	42.81
10237	4-Methyl-2-pentanone	108-10-1	N.D.		470	140	42.81
10237	Methylcyclohexane	108-87-2	450		230	47	42.81
10237	Methylene Chloride	75-09-2	N.D.		230	93	42.81
10237	Styrene	100-42-5	N.D.		230	47	42.81
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		230	47	42.81
10237	Tetrachloroethene	127-18-4	N.D.		230	47	42.81
10237	Toluene	108-88-3	49	J	230	47	42.81
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		230	47	42.81
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		230	47	42.81
10237	1,1,1-Trichloroethane	71-55-6	N.D.		230	47	42.81
10237	1,1,2-Trichloroethane	79-00-5	N.D.		230	47	42.81
10237	Trichloroethene	79-01-6	N.D.		230	47	42.81
10237	Trichlorofluoromethane	75-69-4	N.D.		230	93	42.81
10237	Vinyl Chloride	75-01-4	N.D.		230	47	42.81
10237	m+p-Xylene	n.a.	66	J	230	47	42.81
10237	o-Xylene	95-47-6	N.D.		230	47	42.81

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-024-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445546
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 14:05 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3907 SDG#: MHF39-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	N.D.		180	36	10
10727	Acenaphthylene	208-96-8	76	J	180	36	10
10727	Acetophenone	98-86-2	N.D.		360	180	10
10727	Anthracene	120-12-7	140	J	180	36	10
10727	Atrazine	1912-24-9	N.D.		1,800	360	10
10727	Benzaldehyde	100-52-7	N.D.		1,800	720	10
10727	Benzo(a)anthracene	56-55-3	130	J	180	36	10
10727	Benzo(a)pyrene	50-32-8	260		180	36	10
10727	Benzo(b)fluoranthene	205-99-2	210		180	36	10
10727	Benzo(g,h,i)perylene	191-24-2	1,300		180	36	10
10727	Benzo(k)fluoranthene	207-08-9	42	J	180	36	10
10727	1,1'-Biphenyl	92-52-4	N.D.		360	180	10
10727	4-Bromophenyl-phenylether	101-55-3	N.D.		360	180	10
10727	Butylbenzylphthalate	85-68-7	N.D.		1,800	720	10
10727	Di-n-butylphthalate	84-74-2	N.D.		1,800	720	10
10727	Caprolactam	105-60-2	N.D.		1,800	360	10
10727	Carbazole	86-74-8	N.D.		360	180	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D.		360	180	10
10727	4-Chloroaniline	106-47-8	N.D.		720	360	10
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.		360	180	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.		360	180	10
10727	2-Chloronaphthalene	91-58-7	N.D.		360	72	10
10727	2-Chlorophenol	95-57-8	N.D.		360	180	10
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.		360	180	10
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		360	180	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10727	Chrysene	218-01-9	260		180	36	10
10727	Dibenz(a,h)anthracene	53-70-3	130	J	180	36	10
10727	Dibenzofuran	132-64-9	N.D.		360	180	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.		3,600	1,100	10
10727	2,4-Dichlorophenol	120-83-2	N.D.		360	180	10
10727	Diethylphthalate	84-66-2	N.D.		1,800	720	10
10727	2,4-Dimethylphenol	105-67-9	N.D.		360	180	10
10727	Dimethylphthalate	131-11-3	N.D.		1,800	720	10
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		5,400	1,800	10
10727	2,4-Dinitrophenol	51-28-5	N.D.		11,000	3,200	10
10727	2,4-Dinitrotoluene	121-14-2	N.D.		1,800	720	10
10727	2,6-Dinitrotoluene	606-20-2	N.D.		360	180	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1,800	720	10
10727	Fluoranthene	206-44-0	180		180	36	10
10727	Fluorene	86-73-7	N.D.		180	36	10
10727	Hexachlorobenzene	118-74-1	N.D.		180	36	10
10727	Hexachlorobutadiene	87-68-3	N.D.		360	180	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D.		5,400	1,800	10
10727	Hexachloroethane	67-72-1	N.D.		1,800	360	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	250		180	36	10
10727	Isophorone	78-59-1	N.D.		360	180	10

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-024-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445546
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 14:05 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3907 SDG#: MHF39-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
10727	2-Methylnaphthalene	91-57-6	410	180	36	10
10727	2-Methylphenol	95-48-7	N.D.	360	180	10
10727	4-Methylphenol	106-44-5	N.D.	360	180	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	170 J	180	36	10
10727	2-Nitroaniline	88-74-4	N.D.	360	180	10
10727	3-Nitroaniline	99-09-2	N.D.	1,800	720	10
10727	4-Nitroaniline	100-01-6	N.D.	1,800	720	10
10727	Nitrobenzene	98-95-3	N.D.	360	180	10
10727	2-Nitrophenol	88-75-5	N.D.	360	180	10
10727	4-Nitrophenol	100-02-7	N.D.	5,400	1,800	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.	360	180	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D.	360	180	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D.	1,800	720	10
10727	Pentachlorophenol	87-86-5	N.D.	1,800	360	10
10727	Phenanthrene	85-01-8	390	180	36	10
10727	Phenol	108-95-2	N.D.	360	180	10
10727	Pyrene	129-00-0	340	180	36	10
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	360	180	10
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	1,800	720	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D.	360	180	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D.	360	180	10
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600	18.1	7.86	1
06944	Antimony	7440-36-0	4.97	1.81	0.634	1
06935	Arsenic	7440-38-2	18.6	1.81	0.879	1
06946	Barium	7440-39-3	368	0.453	0.0299	1
06947	Beryllium	7440-41-7	0.267 J	0.453	0.0607	1
06949	Cadmium	7440-43-9	1.79	0.453	0.0444	1
01650	Calcium	7440-70-2	53,900	90.6	25.6	5
06951	Chromium	7440-47-3	76.3	1.36	0.127	1
06952	Cobalt	7440-48-4	10.8	0.453	0.109	1
06953	Copper	7440-50-8	344	0.906	0.208	1
01654	Iron	7439-89-6	31,700	90.6	18.7	5
06955	Lead	7439-92-1	486	1.36	0.498	1
01657	Magnesium	7439-95-4	33,400	9.06	1.72	1
06958	Manganese	7439-96-5	439	0.453	0.0752	1
06961	Nickel	7440-02-0	26.4	0.906	0.272	1
01662	Potassium	7440-09-7	4,210	45.3	21.6	1
06936	Selenium	7782-49-2	5.00	1.81	0.815	1
06966	Silver	7440-22-4	4.65	0.453	0.136	1
01667	Sodium	7440-23-5	235	90.6	21.6	1
06925	Thallium	7440-28-0	2.04 J	2.72	0.743	1
06971	Vanadium	7440-62-2	48.7	0.453	0.127	1
06972	Zinc	7440-66-6	461	1.81	0.616	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: AOI7-BH-16-024-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445546
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 14:05 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3907 SDG#: MHF39-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	2.13	1.09	0.109	10
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	8.0	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	Q161832AA	07/02/2016 01:36	Kevin A Sposito	42.81
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/23/2016 14:05	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/23/2016 14:05	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/23/2016 14:05	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 16:47	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06944	Antimony	SW-846 6010B	1	161825708002	07/07/2016 06:56	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06949	Cadmium	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	161825708002	07/07/2016 07:00	Joanne M Gates	5
06951	Chromium	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06952	Cobalt	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06953	Copper	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: AOI7-BH-16-024-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445546
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 14:05 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3907 SDG#: MHF39-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	161825708002	07/07/2016 07:00	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06966	Silver	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016 06:56	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
06972	Zinc	SW-846 6010B	1	161825708002	07/03/2016 17:46	Elaine F Stoltzfus	1
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016 07:44	Damary Valentin	10
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016 05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016 11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016 23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-025-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445547
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:00 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3908 SDG#: MHF39-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	9	J	16	6	0.75
10237	Benzene	71-43-2	N.D.		4	0.4	0.75
10237	Bromochloromethane	74-97-5	N.D.		4	0.8	0.75
10237	Bromodichloromethane	75-27-4	N.D.		4	0.8	0.75
10237	Bromoform	75-25-2	N.D.		4	0.8	0.75
10237	Bromomethane	74-83-9	N.D.		4	2	0.75
10237	2-Butanone	78-93-3	N.D.		8	3	0.75
10237	Carbon Disulfide	75-15-0	N.D.		4	0.8	0.75
10237	Carbon Tetrachloride	56-23-5	N.D.		4	0.8	0.75
10237	Chlorobenzene	108-90-7	N.D.		4	0.8	0.75
10237	Chloroethane	75-00-3	N.D.		4	2	0.75
10237	Chloroform	67-66-3	N.D.		4	0.8	0.75
10237	Chloromethane	74-87-3	N.D.		4	2	0.75
10237	Cyclohexane	110-82-7	N.D.		4	0.8	0.75
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		4	2	0.75
10237	Dibromochloromethane	124-48-1	N.D.		4	0.8	0.75
10237	1,2-Dibromoethane	106-93-4	N.D.		4	0.8	0.75
10237	1,2-Dichlorobenzene	95-50-1	N.D.		4	0.8	0.75
10237	1,3-Dichlorobenzene	541-73-1	N.D.		4	0.8	0.75
10237	1,4-Dichlorobenzene	106-46-7	N.D.		4	0.8	0.75
10237	Dichlorodifluoromethane	75-71-8	N.D.		4	2	0.75
10237	1,1-Dichloroethane	75-34-3	N.D.		4	0.8	0.75
10237	1,2-Dichloroethane	107-06-2	N.D.		4	0.8	0.75
10237	1,1-Dichloroethene	75-35-4	N.D.		4	0.8	0.75
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		4	0.8	0.75
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		4	0.8	0.75
10237	1,2-Dichloropropane	78-87-5	N.D.		4	0.8	0.75
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		4	0.8	0.75
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		4	0.8	0.75
10237	Ethylbenzene	100-41-4	N.D.		4	0.8	0.75
10237	Freon 113	76-13-1	N.D.		8	2	0.75
10237	2-Hexanone	591-78-6	N.D.		8	2	0.75
10237	Isopropylbenzene	98-82-8	N.D.		4	0.8	0.75
10237	Methyl Acetate	79-20-9	N.D.		4	2	0.75
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		4	0.4	0.75
10237	4-Methyl-2-pentanone	108-10-1	N.D.		8	2	0.75
10237	Methylcyclohexane	108-87-2	N.D.		4	0.8	0.75
10237	Methylene Chloride	75-09-2	N.D.		4	2	0.75
10237	Styrene	100-42-5	N.D.		4	0.8	0.75
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		4	0.8	0.75
10237	Tetrachloroethene	127-18-4	N.D.		4	0.8	0.75
10237	Toluene	108-88-3	N.D.		4	0.8	0.75
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		4	0.8	0.75
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		4	0.8	0.75
10237	1,1,1-Trichloroethane	71-55-6	N.D.		4	0.8	0.75
10237	1,1,2-Trichloroethane	79-00-5	N.D.		4	0.8	0.75
10237	Trichloroethene	79-01-6	N.D.		4	0.8	0.75
10237	Trichlorofluoromethane	75-69-4	N.D.		4	2	0.75
10237	Vinyl Chloride	75-01-4	N.D.		4	0.8	0.75
10237	m+p-Xylene	n.a.	N.D.		4	0.8	0.75
10237	o-Xylene	95-47-6	N.D.		4	0.8	0.75

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-025-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445547
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:00 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3908 SDG#: MHF39-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	N.D.		18	4	1
10727	Acenaphthylene	208-96-8	N.D.		18	4	1
10727	Acetophenone	98-86-2	N.D.		35	18	1
10727	Anthracene	120-12-7	5	J	18	4	1
10727	Atrazine	1912-24-9	N.D.		180	35	1
10727	Benzaldehyde	100-52-7	N.D.		180	71	1
10727	Benzo(a)anthracene	56-55-3	20		18	4	1
10727	Benzo(a)pyrene	50-32-8	35		18	4	1
10727	Benzo(b)fluoranthene	205-99-2	39		18	4	1
10727	Benzo(g,h,i)perylene	191-24-2	47		18	4	1
10727	Benzo(k)fluoranthene	207-08-9	20		18	4	1
10727	1,1'-Biphenyl	92-52-4	N.D.		35	18	1
10727	4-Bromophenyl-phenylether	101-55-3	N.D.		35	18	1
10727	Butylbenzylphthalate	85-68-7	N.D.		180	71	1
10727	Di-n-butylphthalate	84-74-2	N.D.		180	71	1
10727	Caprolactam	105-60-2	N.D.		180	35	1
10727	Carbazole	86-74-8	N.D.		35	18	1
10727	4-Chloro-3-methylphenol	59-50-7	N.D.		35	18	1
10727	4-Chloroaniline	106-47-8	N.D.		71	35	1
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.		35	18	1
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.		35	18	1
10727	2-Chloronaphthalene	91-58-7	N.D.		35	7	1
10727	2-Chlorophenol	95-57-8	N.D.		35	18	1
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.		35	18	1
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		35	18	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10727	Chrysene	218-01-9	26		18	4	1
10727	Dibenz(a,h)anthracene	53-70-3	20		18	4	1
10727	Dibenzofuran	132-64-9	N.D.		35	18	1
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.		350	110	1
10727	2,4-Dichlorophenol	120-83-2	N.D.		35	18	1
10727	Diethylphthalate	84-66-2	N.D.		180	71	1
10727	2,4-Dimethylphenol	105-67-9	N.D.		35	18	1
10727	Dimethylphthalate	131-11-3	N.D.		180	71	1
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		530	180	1
10727	2,4-Dinitrophenol	51-28-5	N.D.		1,100	320	1
10727	2,4-Dinitrotoluene	121-14-2	N.D.		180	71	1
10727	2,6-Dinitrotoluene	606-20-2	N.D.		35	18	1
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		180	71	1
10727	Fluoranthene	206-44-0	31		18	4	1
10727	Fluorene	86-73-7	N.D.		18	4	1
10727	Hexachlorobenzene	118-74-1	N.D.		18	4	1
10727	Hexachlorobutadiene	87-68-3	N.D.		35	18	1
10727	Hexachlorocyclopentadiene	77-47-4	N.D.		530	180	1
10727	Hexachloroethane	67-72-1	N.D.		180	35	1
10727	Indeno(1,2,3-cd)pyrene	193-39-5	23		18	4	1
10727	Isophorone	78-59-1	N.D.		35	18	1
10727	2-Methylnaphthalene	91-57-6	40		18	4	1

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-025-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445547
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:00 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3908 SDG#: MHF39-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
10727	2-Methylphenol	95-48-7	N.D.	35	18	1
10727	4-Methylphenol	106-44-5	N.D.	35	18	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	17 J	18	4	1
10727	2-Nitroaniline	88-74-4	N.D.	35	18	1
10727	3-Nitroaniline	99-09-2	N.D.	180	71	1
10727	4-Nitroaniline	100-01-6	N.D.	180	71	1
10727	Nitrobenzene	98-95-3	N.D.	35	18	1
10727	2-Nitrophenol	88-75-5	N.D.	35	18	1
10727	4-Nitrophenol	100-02-7	N.D.	530	180	1
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.	35	18	1
10727	N-Nitrosodiphenylamine	86-30-6	N.D.	35	18	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D.	180	71	1
10727	Pentachlorophenol	87-86-5	N.D.	180	35	1
10727	Phenanthrene	85-01-8	32	18	4	1
10727	Phenol	108-95-2	N.D.	35	18	1
10727	Pyrene	129-00-0	49	18	4	1
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	35	18	1
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	180	71	1
10727	2,4,5-Trichlorophenol	95-95-4	N.D.	35	18	1
10727	2,4,6-Trichlorophenol	88-06-2	N.D.	35	18	1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,500	15.3	6.64	1
06944	Antimony	7440-36-0	N.D.	1.53	0.535	1
06935	Arsenic	7440-38-2	4.32	1.53	0.742	1
06946	Barium	7440-39-3	343	0.382	0.0252	1
06947	Beryllium	7440-41-7	0.141 J	0.382	0.0512	1
06949	Cadmium	7440-43-9	N.D.	0.382	0.0375	1
01650	Calcium	7440-70-2	2,610	15.3	4.33	1
06951	Chromium	7440-47-3	61.2	1.15	0.107	1
06952	Cobalt	7440-48-4	11.5	0.382	0.0917	1
06953	Copper	7440-50-8	73.7	0.765	0.176	1
01654	Iron	7439-89-6	28,900	76.5	15.7	5
06955	Lead	7439-92-1	1.78	1.15	0.420	1
01657	Magnesium	7439-95-4	9,380	7.65	1.45	1
06958	Manganese	7439-96-5	231	0.382	0.0635	1
06961	Nickel	7440-02-0	35.2	0.765	0.229	1
01662	Potassium	7440-09-7	9,000	38.2	18.3	1
06936	Selenium	7782-49-2	3.97	1.53	0.688	1
06966	Silver	7440-22-4	3.46	0.382	0.115	1
01667	Sodium	7440-23-5	179	76.5	18.3	1
06925	Thallium	7440-28-0	1.45 J	2.29	0.627	1
06971	Vanadium	7440-62-2	65.7	0.382	0.107	1
06972	Zinc	7440-66-6	59.6	1.53	0.520	1

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: AOI7-BH-16-025-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445547
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:00 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3908 SDG#: MHF39-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0780 J	0.0981	0.0098	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	5.9	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	X161791AA	06/27/2016 17:57	Patrick T Herres	0.75
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/23/2016 15:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/23/2016 15:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/23/2016 15:00	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 13:11	Linda M Hartenstine	1
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06944	Antimony	SW-846 6010B	1	161825708002	07/07/2016 07:03	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06949	Cadmium	SW-846 6010B	1	161825708002	07/07/2016 07:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06951	Chromium	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06952	Cobalt	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06953	Copper	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
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Analysis Report

Sample Description: AOI7-BH-16-025-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445547
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:00 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3908 SDG#: MHF39-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	161825708002	07/07/2016 07:07	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	161825708002	07/08/2016 20:35	Cindy M Gehman	1
01657	Magnesium	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06966	Silver	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016 07:03	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
06972	Zinc	SW-846 6010B	1	161825708002	07/03/2016 17:49	Elaine F Stoltzfus	1
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016 06:57	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016 05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016 11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016 23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-026-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445548
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:55 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3909 SDG#: MHF39-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.		1,100	370	45.89
10237	Benzene	71-43-2	33	J	270	27	45.89
10237	Bromochloromethane	74-97-5	N.D.		270	53	45.89
10237	Bromodichloromethane	75-27-4	N.D.		270	53	45.89
10237	Bromoform	75-25-2	N.D.		270	53	45.89
10237	Bromomethane	74-83-9	N.D.		270	110	45.89
10237	2-Butanone	78-93-3	N.D.		530	210	45.89
10237	Carbon Disulfide	75-15-0	N.D.		270	53	45.89
10237	Carbon Tetrachloride	56-23-5	N.D.		270	53	45.89
10237	Chlorobenzene	108-90-7	N.D.		270	53	45.89
10237	Chloroethane	75-00-3	N.D.		270	110	45.89
10237	Chloroform	67-66-3	N.D.		270	53	45.89
10237	Chloromethane	74-87-3	N.D.		270	110	45.89
10237	Cyclohexane	110-82-7	N.D.		270	53	45.89
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		270	110	45.89
10237	Dibromochloromethane	124-48-1	N.D.		270	53	45.89
10237	1,2-Dibromoethane	106-93-4	N.D.		270	53	45.89
10237	1,2-Dichlorobenzene	95-50-1	N.D.		270	53	45.89
10237	1,3-Dichlorobenzene	541-73-1	N.D.		270	53	45.89
10237	1,4-Dichlorobenzene	106-46-7	N.D.		270	53	45.89
10237	Dichlorodifluoromethane	75-71-8	N.D.		270	110	45.89
10237	1,1-Dichloroethane	75-34-3	N.D.		270	53	45.89
10237	1,2-Dichloroethane	107-06-2	N.D.		270	53	45.89
10237	1,1-Dichloroethene	75-35-4	N.D.		270	53	45.89
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		270	53	45.89
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		270	53	45.89
10237	1,2-Dichloropropane	78-87-5	N.D.		270	53	45.89
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		270	53	45.89
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		270	53	45.89
10237	Ethylbenzene	100-41-4	N.D.		270	53	45.89
10237	Freon 113	76-13-1	N.D.		530	110	45.89
10237	2-Hexanone	591-78-6	N.D.		530	160	45.89
10237	Isopropylbenzene	98-82-8	100	J	270	53	45.89
10237	Methyl Acetate	79-20-9	260	J	270	110	45.89
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		270	27	45.89
10237	4-Methyl-2-pentanone	108-10-1	N.D.		530	160	45.89
10237	Methylcyclohexane	108-87-2	1,500		270	53	45.89
10237	Methylene Chloride	75-09-2	N.D.		270	110	45.89
10237	Styrene	100-42-5	N.D.		270	53	45.89
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		270	53	45.89
10237	Tetrachloroethene	127-18-4	N.D.		270	53	45.89
10237	Toluene	108-88-3	N.D.		270	53	45.89
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		270	53	45.89
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		270	53	45.89
10237	1,1,1-Trichloroethane	71-55-6	N.D.		270	53	45.89
10237	1,1,2-Trichloroethane	79-00-5	N.D.		270	53	45.89
10237	Trichloroethene	79-01-6	N.D.		270	53	45.89
10237	Trichlorofluoromethane	75-69-4	N.D.		270	110	45.89
10237	Vinyl Chloride	75-01-4	N.D.		270	53	45.89
10237	m+p-Xylene	n.a.	170	J	270	53	45.89
10237	o-Xylene	95-47-6	80	J	270	53	45.89

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-026-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445548
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:55 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3909 SDG#: MHF39-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	1,100		200	38	10
10727	Acenaphthylene	208-96-8	880		200	38	10
10727	Acetophenone	98-86-2	N.D.		380	190	10
10727	Anthracene	120-12-7	1,300		200	38	10
10727	Atrazine	1912-24-9	N.D.		1,900	380	10
10727	Benzaldehyde	100-52-7	N.D.		1,900	770	10
10727	Benzo(a)anthracene	56-55-3	580		200	38	10
10727	Benzo(a)pyrene	50-32-8	610		200	38	10
10727	Benzo(b)fluoranthene	205-99-2	380		200	38	10
10727	Benzo(g,h,i)perylene	191-24-2	600		200	38	10
10727	Benzo(k)fluoranthene	207-08-9	140	J	200	38	10
10727	1,1'-Biphenyl	92-52-4	N.D.		380	190	10
10727	4-Bromophenyl-phenylether	101-55-3	N.D.		380	190	10
10727	Butylbenzylphthalate	85-68-7	N.D.		1,900	770	10
10727	Di-n-butylphthalate	84-74-2	N.D.		1,900	770	10
10727	Caprolactam	105-60-2	N.D.		1,900	380	10
10727	Carbazole	86-74-8	N.D.		380	190	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D.		380	190	10
10727	4-Chloroaniline	106-47-8	N.D.		770	380	10
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.		380	190	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.		380	190	10
10727	2-Chloronaphthalene	91-58-7	N.D.		380	77	10
10727	2-Chlorophenol	95-57-8	N.D.		380	190	10
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.		380	190	10
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		380	190	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10727	Chrysene	218-01-9	1,200		200	38	10
10727	Dibenz(a,h)anthracene	53-70-3	180	J	200	38	10
10727	Dibenzofuran	132-64-9	N.D.		380	190	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.		3,800	1,200	10
10727	2,4-Dichlorophenol	120-83-2	N.D.		380	190	10
10727	Diethylphthalate	84-66-2	N.D.		1,900	770	10
10727	2,4-Dimethylphenol	105-67-9	N.D.		380	190	10
10727	Dimethylphthalate	131-11-3	N.D.		1,900	770	10
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		5,800	1,900	10
10727	2,4-Dinitrophenol	51-28-5	N.D.		12,000	3,500	10
10727	2,4-Dinitrotoluene	121-14-2	N.D.		1,900	770	10
10727	2,6-Dinitrotoluene	606-20-2	N.D.		380	190	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	1,600	J	2,000	770	10
10727	Fluoranthene	206-44-0	910		200	38	10
10727	Fluorene	86-73-7	2,200		200	38	10
10727	Hexachlorobenzene	118-74-1	N.D.		200	38	10
10727	Hexachlorobutadiene	87-68-3	N.D.		380	190	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D.		5,800	1,900	10
10727	Hexachloroethane	67-72-1	N.D.		1,900	380	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	250		200	38	10
10727	Isophorone	78-59-1	N.D.		380	190	10
10727	2-Methylnaphthalene	91-57-6	1,000		200	38	10

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-026-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445548
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:55 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3909 SDG#: MHF39-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
10727	2-Methylphenol	95-48-7	N.D.	380	190	10
10727	4-Methylphenol	106-44-5	N.D.	380	190	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	550	200	38	10
10727	2-Nitroaniline	88-74-4	N.D.	380	190	10
10727	3-Nitroaniline	99-09-2	N.D.	1,900	770	10
10727	4-Nitroaniline	100-01-6	N.D.	1,900	770	10
10727	Nitrobenzene	98-95-3	N.D.	380	190	10
10727	2-Nitrophenol	88-75-5	N.D.	380	190	10
10727	4-Nitrophenol	100-02-7	N.D.	5,800	1,900	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.	380	190	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D.	380	190	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D.	1,900	770	10
10727	Pentachlorophenol	87-86-5	N.D.	2,000	380	10
10727	Phenanthrene	85-01-8	2,500	200	38	10
10727	Phenol	108-95-2	N.D.	380	190	10
10727	Pyrene	129-00-0	2,900	200	38	10
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	380	190	10
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	1,900	770	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D.	380	190	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D.	380	190	10
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900	22.7	9.84	1
06944	Antimony	7440-36-0	1.28 J	2.27	0.793	1
06935	Arsenic	7440-38-2	36.0	2.27	1.10	1
06946	Barium	7440-39-3	193	0.567	0.0374	1
06947	Beryllium	7440-41-7	2.18	0.567	0.0759	1
06949	Cadmium	7440-43-9	0.422 J	0.567	0.0555	1
01650	Calcium	7440-70-2	10,400	22.7	6.42	1
06951	Chromium	7440-47-3	57.2	1.70	0.159	1
06952	Cobalt	7440-48-4	11.8	0.567	0.136	1
06953	Copper	7440-50-8	206	1.13	0.261	1
01654	Iron	7439-89-6	30,600	113	23.3	5
06955	Lead	7439-92-1	186	1.70	0.623	1
01657	Magnesium	7439-95-4	5,060	11.3	2.15	1
06958	Manganese	7439-96-5	312	0.567	0.0941	1
06961	Nickel	7440-02-0	34.3	1.13	0.340	1
01662	Potassium	7440-09-7	1,900	56.7	27.1	1
06936	Selenium	7782-49-2	3.79	2.27	1.02	1
06966	Silver	7440-22-4	2.06	0.567	0.170	1
01667	Sodium	7440-23-5	221	113	27.1	1
06925	Thallium	7440-28-0	2.04 J	3.40	0.929	1
06971	Vanadium	7440-62-2	55.3	0.567	0.159	1
06972	Zinc	7440-66-6	433	2.27	0.771	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-026-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445548
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:55 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3909 SDG#: MHF39-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	7.96	2.89	0.289	25
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	13.5	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	Q161832AA	07/02/2016 01:59	Kevin A Sposito	45.89
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/23/2016 15:55	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/23/2016 15:55	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/23/2016 15:55	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 17:06	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06944	Antimony	SW-846 6010B	1	161825708002	07/07/2016 07:17	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06949	Cadmium	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06951	Chromium	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06952	Cobalt	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-026-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445548
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 15:55 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3909 SDG#: MHF39-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06953	Copper	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
01654	Iron	SW-846 6010B	1	161825708002	07/07/2016 07:21	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/07/2016 07:17	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016 07:17	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
06972	Zinc	SW-846 6010B	1	161825708002	07/03/2016 17:53	Elaine F Stoltzfus	1
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016 07:46	Damary Valentin	25
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016 05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016 11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016 23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-DUP1-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445549
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 15:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3910 SDG#: MHF39-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.		4,200	1,500	185.87
10237	Benzene	71-43-2	N.D.		1,000	100	185.87
10237	Bromochloromethane	74-97-5	N.D.		1,000	210	185.87
10237	Bromodichloromethane	75-27-4	N.D.		1,000	210	185.87
10237	Bromoform	75-25-2	N.D.		1,000	210	185.87
10237	Bromomethane	74-83-9	N.D.		1,000	420	185.87
10237	2-Butanone	78-93-3	N.D.		2,100	840	185.87
10237	Carbon Disulfide	75-15-0	N.D.		1,000	210	185.87
10237	Carbon Tetrachloride	56-23-5	N.D.		1,000	210	185.87
10237	Chlorobenzene	108-90-7	N.D.		1,000	210	185.87
10237	Chloroethane	75-00-3	N.D.		1,000	420	185.87
10237	Chloroform	67-66-3	N.D.		1,000	210	185.87
10237	Chloromethane	74-87-3	N.D.		1,000	420	185.87
10237	Cyclohexane	110-82-7	N.D.		1,000	210	185.87
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		1,000	420	185.87
10237	Dibromochloromethane	124-48-1	N.D.		1,000	210	185.87
10237	1,2-Dibromoethane	106-93-4	N.D.		1,000	210	185.87
10237	1,2-Dichlorobenzene	95-50-1	N.D.		1,000	210	185.87
10237	1,3-Dichlorobenzene	541-73-1	N.D.		1,000	210	185.87
10237	1,4-Dichlorobenzene	106-46-7	N.D.		1,000	210	185.87
10237	Dichlorodifluoromethane	75-71-8	N.D.		1,000	420	185.87
10237	1,1-Dichloroethane	75-34-3	N.D.		1,000	210	185.87
10237	1,2-Dichloroethane	107-06-2	N.D.		1,000	210	185.87
10237	1,1-Dichloroethene	75-35-4	N.D.		1,000	210	185.87
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		1,000	210	185.87
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		1,000	210	185.87
10237	1,2-Dichloropropane	78-87-5	N.D.		1,000	210	185.87
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		1,000	210	185.87
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		1,000	210	185.87
10237	Ethylbenzene	100-41-4	840	J	1,000	210	185.87
10237	Freon 113	76-13-1	N.D.		2,100	420	185.87
10237	2-Hexanone	591-78-6	N.D.		2,100	630	185.87
10237	Isopropylbenzene	98-82-8	320	J	1,000	210	185.87
10237	Methyl Acetate	79-20-9	N.D.		1,000	420	185.87
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		1,000	100	185.87
10237	4-Methyl-2-pentanone	108-10-1	N.D.		2,100	630	185.87
10237	Methylcyclohexane	108-87-2	1,100		1,000	210	185.87
10237	Methylene Chloride	75-09-2	N.D.		1,000	420	185.87
10237	Styrene	100-42-5	N.D.		1,000	210	185.87
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1,000	210	185.87
10237	Tetrachloroethene	127-18-4	N.D.		1,000	210	185.87
10237	Toluene	108-88-3	N.D.		1,000	210	185.87
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		1,000	210	185.87
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		1,000	210	185.87
10237	1,1,1-Trichloroethane	71-55-6	N.D.		1,000	210	185.87
10237	1,1,2-Trichloroethane	79-00-5	N.D.		1,000	210	185.87
10237	Trichloroethene	79-01-6	N.D.		1,000	210	185.87
10237	Trichlorofluoromethane	75-69-4	N.D.		1,000	420	185.87
10237	Vinyl Chloride	75-01-4	N.D.		1,000	210	185.87
10237	m+p-Xylene	n.a.	300	J	1,000	210	185.87
10237	o-Xylene	95-47-6	220	J	1,000	210	185.87

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-DUP1-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445549
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 15:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3910 SDG#: MHF39-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	5,300	190	37	10
10727	Acenaphthylene	208-96-8	4,600	190	37	10
10727	Acetophenone	98-86-2	N.D.	370	190	10
10727	Anthracene	120-12-7	3,800	190	37	10
10727	Atrazine	1912-24-9	N.D.	1,900	370	10
10727	Benzaldehyde	100-52-7	N.D.	1,900	750	10
10727	Benzo(a)anthracene	56-55-3	2,400	190	37	10
10727	Benzo(a)pyrene	50-32-8	1,800	190	37	10
10727	Benzo(b)fluoranthene	205-99-2	1,300	190	37	10
10727	Benzo(g,h,i)perylene	191-24-2	1,500	190	37	10
10727	Benzo(k)fluoranthene	207-08-9	450	190	37	10
10727	1,1'-Biphenyl	92-52-4	N.D.	370	190	10
10727	4-Bromophenyl-phenylether	101-55-3	N.D.	370	190	10
10727	Butylbenzylphthalate	85-68-7	N.D.	1,900	750	10
10727	Di-n-butylphthalate	84-74-2	N.D.	1,900	750	10
10727	Caprolactam	105-60-2	N.D.	1,900	370	10
10727	Carbazole	86-74-8	N.D.	370	190	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D.	370	190	10
10727	4-Chloroaniline	106-47-8	N.D.	750	370	10
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.	370	190	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.	370	190	10
10727	2-Chloronaphthalene	91-58-7	N.D.	370	75	10
10727	2-Chlorophenol	95-57-8	N.D.	370	190	10
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.	370	190	10
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	370	190	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10727	Chrysene	218-01-9	4,100	190	37	10
10727	Dibenz(a,h)anthracene	53-70-3	360	190	37	10
10727	Dibenzofuran	132-64-9	N.D.	370	190	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.	3,700	1,100	10
10727	2,4-Dichlorophenol	120-83-2	N.D.	370	190	10
10727	Diethylphthalate	84-66-2	N.D.	1,900	750	10
10727	2,4-Dimethylphenol	105-67-9	N.D.	370	190	10
10727	Dimethylphthalate	131-11-3	N.D.	1,900	750	10
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5,600	1,900	10
10727	2,4-Dinitrophenol	51-28-5	N.D.	11,000	3,400	10
10727	2,4-Dinitrotoluene	121-14-2	N.D.	1,900	750	10
10727	2,6-Dinitrotoluene	606-20-2	N.D.	370	190	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	2,100	1,900	750	10
10727	Fluoranthene	206-44-0	3,900	190	37	10
10727	Fluorene	86-73-7	8,400	190	37	10
10727	Hexachlorobenzene	118-74-1	N.D.	190	37	10
10727	Hexachlorobutadiene	87-68-3	N.D.	370	190	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D.	5,600	1,900	10
10727	Hexachloroethane	67-72-1	N.D.	1,900	370	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	650	190	37	10
10727	Isophorone	78-59-1	N.D.	370	190	10
10727	2-Methylnaphthalene	91-57-6	1,900	190	37	10

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-DUP1-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445549
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 15:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3910 SDG#: MHF39-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
10727	2-Methylphenol	95-48-7	N.D.	370	190	10
10727	4-Methylphenol	106-44-5	N.D.	370	190	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	2,300	190	37	10
10727	2-Nitroaniline	88-74-4	N.D.	370	190	10
10727	3-Nitroaniline	99-09-2	N.D.	1,900	750	10
10727	4-Nitroaniline	100-01-6	N.D.	1,900	750	10
10727	Nitrobenzene	98-95-3	N.D.	370	190	10
10727	2-Nitrophenol	88-75-5	N.D.	370	190	10
10727	4-Nitrophenol	100-02-7	N.D.	5,600	1,900	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.	370	190	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D.	370	190	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D.	1,900	750	10
10727	Pentachlorophenol	87-86-5	N.D.	1,900	370	10
10727	Phenanthrene	85-01-8	18,000	190	37	10
10727	Phenol	108-95-2	N.D.	370	190	10
10727	Pyrene	129-00-0	9,300	190	37	10
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	370	190	10
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	1,900	750	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D.	370	190	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D.	370	190	10
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400	96.0	41.7	5
06944	Antimony	7440-36-0	N.D.	9.60	3.36	5
06935	Arsenic	7440-38-2	60.4	9.60	4.66	5
06946	Barium	7440-39-3	289	0.480	0.0317	1
06947	Beryllium	7440-41-7	3.22	2.40	0.322	5
06949	Cadmium	7440-43-9	1.65 J	2.40	0.235	5
01650	Calcium	7440-70-2	7,450	19.2	5.44	1
06951	Chromium	7440-47-3	79.2	7.20	0.672	5
06952	Cobalt	7440-48-4	14.7	2.40	0.576	5
06953	Copper	7440-50-8	277	4.80	1.10	5
01654	Iron	7439-89-6	40,000	96.0	19.8	5
06955	Lead	7439-92-1	368	7.20	2.64	5
01657	Magnesium	7439-95-4	4,050	48.0	9.12	5
06958	Manganese	7439-96-5	238	0.480	0.0797	1
06961	Nickel	7440-02-0	37.1	4.80	1.44	5
01662	Potassium	7440-09-7	1,580	48.0	23.0	1
06936	Selenium	7782-49-2	7.64 J	9.60	4.32	5
06966	Silver	7440-22-4	1.64 J	2.40	0.720	5
01667	Sodium	7440-23-5	277	96.0	23.0	1
06925	Thallium	7440-28-0	N.D.	14.4	3.94	5
	Reporting limits for ICP metals were raised due to interference from the sample matrix.					
06971	Vanadium	7440-62-2	75.8	2.40	0.672	5

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
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Analysis Report

Sample Description: AOI7-BH-16-DUP1-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445549
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 15:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3910 SDG#: MHF39-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06972	Zinc	7440-66-6	440	9.60	3.27	5
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	8.38	2.72	0.272	25
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	11.0	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	Q161832AA	07/02/2016 05:03	Kevin A Sposito	185.87
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/22/2016 15:30	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/22/2016 15:30	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/22/2016 15:30	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 17:45	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
06944	Antimony	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
06935	Arsenic	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:56	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
06949	Cadmium	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	161825708002	07/03/2016 17:56	Elaine F Stoltzfus	1
06951	Chromium	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
06952	Cobalt	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
06953	Copper	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	161825708002	07/08/2016 20:38	Cindy M Gehman	5
01657	Magnesium	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-DUP1-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445549
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 15:30 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3910 SDG#: MHF39-10FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016 17:56	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016 17:56	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
06966	Silver	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016 17:56	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
06971	Vanadium	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
06972	Zinc	SW-846 6010B	1	161825708002	07/07/2016 07:24	Joanne M Gates	5
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016 07:48	Damary Valentin	25
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016 05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016 11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016 23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
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Analysis Report

Sample Description: AOI7-BH-16-DUP2-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445550
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 12:35 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3911 SDG#: MHF39-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.		1,300	440	48.96
10237	Benzene	71-43-2	34	J	320	32	48.96
10237	Bromochloromethane	74-97-5	N.D.		320	63	48.96
10237	Bromodichloromethane	75-27-4	N.D.		320	63	48.96
10237	Bromoform	75-25-2	N.D.		320	63	48.96
10237	Bromomethane	74-83-9	N.D.		320	130	48.96
10237	2-Butanone	78-93-3	N.D.		630	250	48.96
10237	Carbon Disulfide	75-15-0	N.D.		320	63	48.96
10237	Carbon Tetrachloride	56-23-5	N.D.		320	63	48.96
10237	Chlorobenzene	108-90-7	N.D.		320	63	48.96
10237	Chloroethane	75-00-3	N.D.		320	130	48.96
10237	Chloroform	67-66-3	N.D.		320	63	48.96
10237	Chloromethane	74-87-3	N.D.		320	130	48.96
10237	Cyclohexane	110-82-7	N.D.		320	63	48.96
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		320	130	48.96
10237	Dibromochloromethane	124-48-1	N.D.		320	63	48.96
10237	1,2-Dibromoethane	106-93-4	N.D.		320	63	48.96
10237	1,2-Dichlorobenzene	95-50-1	N.D.		320	63	48.96
10237	1,3-Dichlorobenzene	541-73-1	N.D.		320	63	48.96
10237	1,4-Dichlorobenzene	106-46-7	N.D.		320	63	48.96
10237	Dichlorodifluoromethane	75-71-8	N.D.		320	130	48.96
10237	1,1-Dichloroethane	75-34-3	N.D.		320	63	48.96
10237	1,2-Dichloroethane	107-06-2	N.D.		320	63	48.96
10237	1,1-Dichloroethene	75-35-4	N.D.		320	63	48.96
10237	cis-1,2-Dichloroethene	156-59-2	N.D.		320	63	48.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.		320	63	48.96
10237	1,2-Dichloropropane	78-87-5	N.D.		320	63	48.96
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		320	63	48.96
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		320	63	48.96
10237	Ethylbenzene	100-41-4	N.D.		320	63	48.96
10237	Freon 113	76-13-1	N.D.		630	130	48.96
10237	2-Hexanone	591-78-6	N.D.		630	190	48.96
10237	Isopropylbenzene	98-82-8	N.D.		320	63	48.96
10237	Methyl Acetate	79-20-9	190	J	320	130	48.96
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		320	32	48.96
10237	4-Methyl-2-pentanone	108-10-1	N.D.		630	190	48.96
10237	Methylcyclohexane	108-87-2	530		320	63	48.96
10237	Methylene Chloride	75-09-2	N.D.		320	130	48.96
10237	Styrene	100-42-5	N.D.		320	63	48.96
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		320	63	48.96
10237	Tetrachloroethene	127-18-4	N.D.		320	63	48.96
10237	Toluene	108-88-3	N.D.		320	63	48.96
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		320	63	48.96
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.		320	63	48.96
10237	1,1,1-Trichloroethane	71-55-6	N.D.		320	63	48.96
10237	1,1,2-Trichloroethane	79-00-5	N.D.		320	63	48.96
10237	Trichloroethene	79-01-6	N.D.		320	63	48.96
10237	Trichlorofluoromethane	75-69-4	N.D.		320	130	48.96
10237	Vinyl Chloride	75-01-4	N.D.		320	63	48.96
10237	m+p-Xylene	n.a.	N.D.		320	63	48.96
10237	o-Xylene	95-47-6	N.D.		320	63	48.96

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-DUP2-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445550
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 12:35 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3911 SDG#: MHF39-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	N.D.		440	85	10
10727	Acenaphthylene	208-96-8	420	J	440	85	10
10727	Acetophenone	98-86-2	N.D.		860	430	10
10727	Anthracene	120-12-7	610		440	85	10
10727	Atrazine	1912-24-9	N.D.		4,300	860	10
10727	Benzaldehyde	100-52-7	N.D.		4,300	1,700	10
10727	Benzo(a)anthracene	56-55-3	600		440	85	10
10727	Benzo(a)pyrene	50-32-8	860		440	85	10
10727	Benzo(b)fluoranthene	205-99-2	810		440	85	10
10727	Benzo(g,h,i)perylene	191-24-2	1,300		440	85	10
10727	Benzo(k)fluoranthene	207-08-9	360	J	440	85	10
10727	1,1'-Biphenyl	92-52-4	N.D.		860	430	10
10727	4-Bromophenyl-phenylether	101-55-3	N.D.		860	430	10
10727	Butylbenzylphthalate	85-68-7	N.D.		4,300	1,700	10
10727	Di-n-butylphthalate	84-74-2	N.D.		4,300	1,700	10
10727	Caprolactam	105-60-2	N.D.		4,300	860	10
10727	Carbazole	86-74-8	N.D.		860	430	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D.		860	430	10
10727	4-Chloroaniline	106-47-8	N.D.		1,700	860	10
10727	bis(2-Chloroethoxy)methane	111-91-1	N.D.		860	430	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D.		860	430	10
10727	2-Chloronaphthalene	91-58-7	N.D.		850	170	10
10727	2-Chlorophenol	95-57-8	N.D.		860	430	10
10727	4-Chlorophenyl-phenylether	7005-72-3	N.D.		860	430	10
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.		860	430	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10727	Chrysene	218-01-9	820		440	85	10
10727	Dibenz(a,h)anthracene	53-70-3	270	J	440	85	10
10727	Dibenzofuran	132-64-9	N.D.		860	430	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D.		8,600	2,600	10
10727	2,4-Dichlorophenol	120-83-2	N.D.		860	430	10
10727	Diethylphthalate	84-66-2	N.D.		4,300	1,700	10
10727	2,4-Dimethylphenol	105-67-9	N.D.		860	430	10
10727	Dimethylphthalate	131-11-3	N.D.		4,300	1,700	10
10727	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		13,000	4,300	10
10727	2,4-Dinitrophenol	51-28-5	N.D.		26,000	7,700	10
10727	2,4-Dinitrotoluene	121-14-2	N.D.		4,300	1,700	10
10727	2,6-Dinitrotoluene	606-20-2	N.D.		860	430	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		4,400	1,700	10
10727	Fluoranthene	206-44-0	1,200		440	85	10
10727	Fluorene	86-73-7	N.D.		440	85	10
10727	Hexachlorobenzene	118-74-1	N.D.		440	85	10
10727	Hexachlorobutadiene	87-68-3	N.D.		860	430	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D.		13,000	4,300	10
10727	Hexachloroethane	67-72-1	N.D.		4,300	860	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	690		440	85	10
10727	Isophorone	78-59-1	N.D.		860	430	10

*=This limit was used in the evaluation of the final result

Sample Description: AOI7-BH-16-DUP2-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445550
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 12:35 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3911 SDG#: MHF39-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
10727	2-Methylnaphthalene	91-57-6	380	J	440	85	10
10727	2-Methylphenol	95-48-7	N.D.		860	430	10
10727	4-Methylphenol	106-44-5	N.D.		860	430	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
10727	Naphthalene	91-20-3	250	J	440	85	10
10727	2-Nitroaniline	88-74-4	N.D.		860	430	10
10727	3-Nitroaniline	99-09-2	N.D.		4,300	1,700	10
10727	4-Nitroaniline	100-01-6	N.D.		4,300	1,700	10
10727	Nitrobenzene	98-95-3	N.D.		860	430	10
10727	2-Nitrophenol	88-75-5	N.D.		860	430	10
10727	4-Nitrophenol	100-02-7	N.D.		13,000	4,300	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D.		860	430	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D.		860	430	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
10727	Di-n-octylphthalate	117-84-0	N.D.		4,300	1,700	10
10727	Pentachlorophenol	87-86-5	N.D.		4,400	860	10
10727	Phenanthrene	85-01-8	1,200		440	85	10
10727	Phenol	108-95-2	N.D.		860	430	10
10727	Pyrene	129-00-0	1,500		440	85	10
10727	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		860	430	10
10727	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		4,300	1,700	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D.		860	430	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D.		860	430	10
Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,800		24.9	10.8	1
06944	Antimony	7440-36-0	0.925	J	2.49	0.871	1
06935	Arsenic	7440-38-2	11.3		2.49	1.21	1
06946	Barium	7440-39-3	134		0.622	0.0410	1
06947	Beryllium	7440-41-7	1.04		0.622	0.0833	1
06949	Cadmium	7440-43-9	0.761		0.622	0.0610	1
01650	Calcium	7440-70-2	8,630		24.9	7.04	1
06951	Chromium	7440-47-3	51.7		1.87	0.174	1
06952	Cobalt	7440-48-4	8.72		0.622	0.149	1
06953	Copper	7440-50-8	111		1.24	0.286	1
01654	Iron	7439-89-6	28,700		24.9	5.12	1
06955	Lead	7439-92-1	87.5		1.87	0.684	1
01657	Magnesium	7439-95-4	7,750		12.4	2.36	1
06958	Manganese	7439-96-5	350		0.622	0.103	1
06961	Nickel	7440-02-0	27.2		1.24	0.373	1
01662	Potassium	7440-09-7	2,800		62.2	29.7	1
06936	Selenium	7782-49-2	N.D.		2.49	1.12	1
06966	Silver	7440-22-4	0.908		0.622	0.187	1
01667	Sodium	7440-23-5	204		124	29.7	1
06925	Thallium	7440-28-0	N.D.		3.73	1.02	1
06971	Vanadium	7440-62-2	110		0.622	0.174	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-DUP2-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445550
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 12:35 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3911 SDG#: MHF39-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06972	Zinc	7440-66-6	233	2.49	0.846	1
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	14.0	6.06	0.606	50
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	22.7	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	Q161832AA	07/02/2016 02:22	Kevin A Sposito	48.96
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201617741633	06/23/2016 12:35	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201617741633	06/23/2016 12:35	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201617741633	06/23/2016 12:35	Client Supplied	1
10727	TCL 8270 (microwave)	SW-846 8270C	1	16180SLH026	06/30/2016 18:05	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16180SLH026	06/29/2016 08:00	Kayla Yuditsky	1
01643	Aluminum	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06944	Antimony	SW-846 6010B	1	161825708002	07/07/2016 07:31	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06946	Barium	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06947	Beryllium	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06949	Cadmium	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06951	Chromium	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: AOI7-BH-16-DUP2-062316-0-2-MM Grab Soil
Marcus Hook Facility AOI7

LL Sample # SW 8445550
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 12:35 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3911 SDG#: MHF39-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06952	Cobalt	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06953	Copper	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
01654	Iron	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06955	Lead	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06958	Manganese	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
01662	Potassium	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06936	Selenium	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06966	Silver	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06925	Thallium	SW-846 6010B	1	161825708002	07/07/2016 07:31	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
06972	Zinc	SW-846 6010B	1	161825708002	07/03/2016 17:59	Elaine F Stoltzfus	1
00159	Mercury	SW-846 7471A	1	161815711001	07/01/2016 07:50	Damary Valentin	50
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	161825708002	07/01/2016 05:35	Lisa J Cooke	1
05711	Hg-SW, 7471A - U3	SW-846 7471A	1	161815711001	06/30/2016 11:05	Suzanne M Williams	1
00111	Moisture	SM 2540 G-1997	1	16183820004A	07/01/2016 23:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: TB1 Methanol
Marcus Hook Facility AOI7

LL Sample # G5 8445551
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 12:00 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3912 SDG#: MHF39-12TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.	20	7	1
10237	Benzene	71-43-2	N.D.	5	0.5	1
10237	Bromochloromethane	74-97-5	N.D.	5	1	1
10237	Bromodichloromethane	75-27-4	N.D.	5	1	1
10237	Bromoform	75-25-2	N.D.	5	1	1
10237	Bromomethane	74-83-9	N.D.	5	2	1
10237	2-Butanone	78-93-3	N.D.	10	4	1
10237	Carbon Disulfide	75-15-0	N.D.	5	1	1
10237	Carbon Tetrachloride	56-23-5	N.D.	5	1	1
10237	Chlorobenzene	108-90-7	N.D.	5	1	1
10237	Chloroethane	75-00-3	N.D.	5	2	1
10237	Chloroform	67-66-3	N.D.	5	1	1
10237	Chloromethane	74-87-3	N.D.	5	2	1
10237	Cyclohexane	110-82-7	N.D.	5	1	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	2	1
10237	Dibromochloromethane	124-48-1	N.D.	5	1	1
10237	1,2-Dibromoethane	106-93-4	N.D.	5	1	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	5	1	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	5	1	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	5	1	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	5	2	1
10237	1,1-Dichloroethane	75-34-3	N.D.	5	1	1
10237	1,2-Dichloroethane	107-06-2	N.D.	5	1	1
10237	1,1-Dichloroethene	75-35-4	N.D.	5	1	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	5	1	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	5	1	1
10237	1,2-Dichloropropane	78-87-5	N.D.	5	1	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	5	1	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	5	1	1
10237	Ethylbenzene	100-41-4	N.D.	5	1	1
10237	Freon 113	76-13-1	N.D.	10	2	1
10237	2-Hexanone	591-78-6	N.D.	10	3	1
10237	Isopropylbenzene	98-82-8	N.D.	5	1	1
10237	Methyl Acetate	79-20-9	N.D.	5	2	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5	0.5	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	10	3	1
10237	Methylcyclohexane	108-87-2	N.D.	5	1	1
10237	Methylene Chloride	75-09-2	N.D.	5	2	1
10237	Styrene	100-42-5	N.D.	5	1	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5	1	1
10237	Tetrachloroethene	127-18-4	N.D.	5	1	1
10237	Toluene	108-88-3	N.D.	5	1	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	5	1	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	1	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	5	1	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	5	1	1
10237	Trichloroethene	79-01-6	N.D.	5	1	1
10237	Trichlorofluoromethane	75-69-4	N.D.	5	2	1
10237	Vinyl Chloride	75-01-4	N.D.	5	1	1
10237	m+p-Xylene	n.a.	N.D.	5	1	1
10237	o-Xylene	95-47-6	N.D.	5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB1 Methanol
Marcus Hook Facility AOI7

LL Sample # G5 8445551
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/22/2016 12:00 by MM

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3912 SDG#: MHF39-12TB

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	X161872AA	07/05/2016 14:16	Patrick T Herres	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201618241693	06/22/2016 12:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201618241693	06/22/2016 12:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201618241693	06/22/2016 12:00	Client Supplied	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB2 Methanol
Marcus Hook Facility AOI7

LL Sample # G5 8445552
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 12:00

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3913 SDG#: MHF39-13TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	20	7	1
10237	Benzene	71-43-2	N.D.	5	0.5	1
10237	Bromochloromethane	74-97-5	N.D.	5	1	1
10237	Bromodichloromethane	75-27-4	N.D.	5	1	1
10237	Bromoform	75-25-2	N.D.	5	1	1
10237	Bromomethane	74-83-9	N.D.	5	2	1
10237	2-Butanone	78-93-3	N.D.	10	4	1
10237	Carbon Disulfide	75-15-0	N.D.	5	1	1
10237	Carbon Tetrachloride	56-23-5	N.D.	5	1	1
10237	Chlorobenzene	108-90-7	N.D.	5	1	1
10237	Chloroethane	75-00-3	N.D.	5	2	1
10237	Chloroform	67-66-3	N.D.	5	1	1
10237	Chloromethane	74-87-3	N.D.	5	2	1
10237	Cyclohexane	110-82-7	N.D.	5	1	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	2	1
10237	Dibromochloromethane	124-48-1	N.D.	5	1	1
10237	1,2-Dibromoethane	106-93-4	N.D.	5	1	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	5	1	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	5	1	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	5	1	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	5	2	1
10237	1,1-Dichloroethane	75-34-3	N.D.	5	1	1
10237	1,2-Dichloroethane	107-06-2	N.D.	5	1	1
10237	1,1-Dichloroethene	75-35-4	N.D.	5	1	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	5	1	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	5	1	1
10237	1,2-Dichloropropane	78-87-5	N.D.	5	1	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	5	1	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	5	1	1
10237	Ethylbenzene	100-41-4	N.D.	5	1	1
10237	Freon 113	76-13-1	N.D.	10	2	1
10237	2-Hexanone	591-78-6	N.D.	10	3	1
10237	Isopropylbenzene	98-82-8	N.D.	5	1	1
10237	Methyl Acetate	79-20-9	N.D.	5	2	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5	0.5	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	10	3	1
10237	Methylcyclohexane	108-87-2	N.D.	5	1	1
10237	Methylene Chloride	75-09-2	N.D.	5	2	1
10237	Styrene	100-42-5	N.D.	5	1	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5	1	1
10237	Tetrachloroethene	127-18-4	N.D.	5	1	1
10237	Toluene	108-88-3	N.D.	5	1	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	5	1	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	1	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	5	1	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	5	1	1
10237	Trichloroethene	79-01-6	N.D.	5	1	1
10237	Trichlorofluoromethane	75-69-4	N.D.	5	2	1
10237	Vinyl Chloride	75-01-4	N.D.	5	1	1
10237	m+p-Xylene	n.a.	N.D.	5	1	1
10237	o-Xylene	95-47-6	N.D.	5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB2 Methanol
Marcus Hook Facility AOI7

LL Sample # G5 8445552
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/23/2016 12:00

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3913 SDG#: MHF39-13TB

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	X161872AA	07/05/2016 14:39	Patrick T Herres	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201618241693	06/23/2016 12:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201618241693	06/23/2016 12:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201618241693	06/23/2016 12:00	Client Supplied	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB3 Methanol
Marcus Hook Facility AOI7

LL Sample # G5 8445553
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 11:00

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3914 SDG#: MHF39-14TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	N.D.	20	7	1
10237	Benzene	71-43-2	N.D.	5	0.5	1
10237	Bromochloromethane	74-97-5	N.D.	5	1	1
10237	Bromodichloromethane	75-27-4	N.D.	5	1	1
10237	Bromoform	75-25-2	N.D.	5	1	1
10237	Bromomethane	74-83-9	N.D.	5	2	1
10237	2-Butanone	78-93-3	N.D.	10	4	1
10237	Carbon Disulfide	75-15-0	N.D.	5	1	1
10237	Carbon Tetrachloride	56-23-5	N.D.	5	1	1
10237	Chlorobenzene	108-90-7	N.D.	5	1	1
10237	Chloroethane	75-00-3	N.D.	5	2	1
10237	Chloroform	67-66-3	N.D.	5	1	1
10237	Chloromethane	74-87-3	N.D.	5	2	1
10237	Cyclohexane	110-82-7	N.D.	5	1	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	2	1
10237	Dibromochloromethane	124-48-1	N.D.	5	1	1
10237	1,2-Dibromoethane	106-93-4	N.D.	5	1	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	5	1	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	5	1	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	5	1	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	5	2	1
10237	1,1-Dichloroethane	75-34-3	N.D.	5	1	1
10237	1,2-Dichloroethane	107-06-2	N.D.	5	1	1
10237	1,1-Dichloroethene	75-35-4	N.D.	5	1	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	5	1	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	5	1	1
10237	1,2-Dichloropropane	78-87-5	N.D.	5	1	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	5	1	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	5	1	1
10237	Ethylbenzene	100-41-4	N.D.	5	1	1
10237	Freon 113	76-13-1	N.D.	10	2	1
10237	2-Hexanone	591-78-6	N.D.	10	3	1
10237	Isopropylbenzene	98-82-8	N.D.	5	1	1
10237	Methyl Acetate	79-20-9	N.D.	5	2	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5	0.5	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	10	3	1
10237	Methylcyclohexane	108-87-2	N.D.	5	1	1
10237	Methylene Chloride	75-09-2	N.D.	5	2	1
10237	Styrene	100-42-5	N.D.	5	1	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5	1	1
10237	Tetrachloroethene	127-18-4	N.D.	5	1	1
10237	Toluene	108-88-3	N.D.	5	1	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	5	1	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	1	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	5	1	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	5	1	1
10237	Trichloroethene	79-01-6	N.D.	5	1	1
10237	Trichlorofluoromethane	75-69-4	N.D.	5	2	1
10237	Vinyl Chloride	75-01-4	N.D.	5	1	1
10237	m+p-Xylene	n.a.	N.D.	5	1	1
10237	o-Xylene	95-47-6	N.D.	5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB3 Methanol
Marcus Hook Facility AOI7

LL Sample # G5 8445553
LL Group # 1676188
Account # 10177

Project Name: Marcus Hook Facility AOI7

Collected: 06/24/2016 11:00

Submitted: 06/24/2016 18:02
Reported: 07/11/2016 09:42

Evergreen c/o GHD
2055 Niagara Falls Blvd.
Suite #3
Niagara Falls NY 14304

M3914 SDG#: MHF39-14TB

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.
Because the site straddles the PA/DE line, the Pennsylvania Certification comment has been added to all samples submitted from the site.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL 1.2 8260B	SW-846 8260B	1	X161872AA	07/05/2016 15:03	Patrick T Herres	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201618241693	06/24/2016 11:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201618241693	06/24/2016 11:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201618241693	06/24/2016 11:00	Client Supplied	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	LOQ**	MDL
	ug/kg	ug/kg	ug/kg
Batch number: Q161832AA	Sample number(s): 8445540-8445544,8445546,8445548-8445550		
Acetone	N.D.	1,000	350
Benzene	N.D.	250	25
Bromochloromethane	N.D.	250	50
Bromodichloromethane	N.D.	250	50
Bromoform	N.D.	250	50
Bromomethane	N.D.	250	100
2-Butanone	N.D.	500	200
Carbon Disulfide	N.D.	250	50
Carbon Tetrachloride	N.D.	250	50
Chlorobenzene	N.D.	250	50
Chloroethane	N.D.	250	100
Chloroform	N.D.	250	50
Chloromethane	N.D.	250	100
Cyclohexane	N.D.	250	50
1,2-Dibromo-3-chloropropane	N.D.	250	100
Dibromochloromethane	N.D.	250	50
1,2-Dibromoethane	N.D.	250	50
1,2-Dichlorobenzene	N.D.	250	50
1,3-Dichlorobenzene	N.D.	250	50
1,4-Dichlorobenzene	N.D.	250	50
Dichlorodifluoromethane	N.D.	250	100
1,1-Dichloroethane	N.D.	250	50
1,2-Dichloroethane	N.D.	250	50
1,1-Dichloroethene	N.D.	250	50
cis-1,2-Dichloroethene	N.D.	250	50
trans-1,2-Dichloroethene	N.D.	250	50
1,2-Dichloropropane	N.D.	250	50
cis-1,3-Dichloropropene	N.D.	250	50
trans-1,3-Dichloropropene	N.D.	250	50
Ethylbenzene	N.D.	250	50
Freon 113	N.D.	500	100
2-Hexanone	N.D.	500	150
Isopropylbenzene	N.D.	250	50
Methyl Acetate	N.D.	250	100
Methyl Tertiary Butyl Ether	N.D.	250	25
4-Methyl-2-pentanone	N.D.	500	150
Methylcyclohexane	N.D.	250	50
Methylene Chloride	N.D.	250	100
Styrene	N.D.	250	50
1,1,2,2-Tetrachloroethane	N.D.	250	50
Tetrachloroethene	N.D.	250	50
Toluene	N.D.	250	50
1,2,3-Trichlorobenzene	N.D.	250	50

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

Method Blank (continued)

Analysis Name	Result ug/kg	LOQ** ug/kg	MDL ug/kg
1,2,4-Trichlorobenzene	N.D.	250	50
1,1,1-Trichloroethane	N.D.	250	50
1,1,2-Trichloroethane	N.D.	250	50
Trichloroethene	N.D.	250	50
Trichlorofluoromethane	N.D.	250	100
Vinyl Chloride	N.D.	250	50
m+p-Xylene	N.D.	250	50
o-Xylene	N.D.	250	50
Batch number: X161791AA	Sample number(s): 8445545,8445547		
Acetone	N.D.	20	7
Benzene	N.D.	5	0.5
Bromochloromethane	N.D.	5	1
Bromodichloromethane	N.D.	5	1
Bromoform	N.D.	5	1
Bromomethane	N.D.	5	2
2-Butanone	N.D.	10	4
Carbon Disulfide	N.D.	5	1
Carbon Tetrachloride	N.D.	5	1
Chlorobenzene	N.D.	5	1
Chloroethane	N.D.	5	2
Chloroform	N.D.	5	1
Chloromethane	N.D.	5	2
Cyclohexane	N.D.	5	1
1,2-Dibromo-3-chloropropane	N.D.	5	2
Dibromochloromethane	N.D.	5	1
1,2-Dibromoethane	N.D.	5	1
1,2-Dichlorobenzene	N.D.	5	1
1,3-Dichlorobenzene	N.D.	5	1
1,4-Dichlorobenzene	N.D.	5	1
Dichlorodifluoromethane	N.D.	5	2
1,1-Dichloroethane	N.D.	5	1
1,2-Dichloroethane	N.D.	5	1
1,1-Dichloroethene	N.D.	5	1
cis-1,2-Dichloroethene	N.D.	5	1
trans-1,2-Dichloroethene	N.D.	5	1
1,2-Dichloropropane	N.D.	5	1
cis-1,3-Dichloropropene	N.D.	5	1
trans-1,3-Dichloropropene	N.D.	5	1
Ethylbenzene	N.D.	5	1
Freon 113	N.D.	10	2
2-Hexanone	N.D.	10	3
Isopropylbenzene	N.D.	5	1
Methyl Acetate	N.D.	5	2
Methyl Tertiary Butyl Ether	N.D.	5	0.5
4-Methyl-2-pentanone	N.D.	10	3
Methylcyclohexane	N.D.	5	1
Methylene Chloride	N.D.	5	2
Styrene	N.D.	5	1
1,1,2,2-Tetrachloroethane	N.D.	5	1
Tetrachloroethene	N.D.	5	1
Toluene	N.D.	5	1

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Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

Method Blank (continued)

Analysis Name	Result ug/kg	LOQ** ug/kg	MDL ug/kg
1,2,3-Trichlorobenzene	N.D.	5	1
1,2,4-Trichlorobenzene	N.D.	5	1
1,1,1-Trichloroethane	N.D.	5	1
1,1,2-Trichloroethane	N.D.	5	1
Trichloroethene	N.D.	5	1
Trichlorofluoromethane	N.D.	5	2
Vinyl Chloride	N.D.	5	1
m+p-Xylene	N.D.	5	1
o-Xylene	N.D.	5	1
Batch number: X161872AA	Sample number(s): 8445551-8445553		
Acetone	N.D.	20	7
Benzene	N.D.	5	0.5
Bromochloromethane	N.D.	5	1
Bromodichloromethane	N.D.	5	1
Bromoform	N.D.	5	1
Bromomethane	N.D.	5	2
2-Butanone	N.D.	10	4
Carbon Disulfide	N.D.	5	1
Carbon Tetrachloride	N.D.	5	1
Chlorobenzene	N.D.	5	1
Chloroethane	N.D.	5	2
Chloroform	N.D.	5	1
Chloromethane	N.D.	5	2
Cyclohexane	N.D.	5	1
1,2-Dibromo-3-chloropropane	N.D.	5	2
Dibromochloromethane	N.D.	5	1
1,2-Dibromoethane	N.D.	5	1
1,2-Dichlorobenzene	N.D.	5	1
1,3-Dichlorobenzene	N.D.	5	1
1,4-Dichlorobenzene	N.D.	5	1
Dichlorodifluoromethane	N.D.	5	2
1,1-Dichloroethane	N.D.	5	1
1,2-Dichloroethane	N.D.	5	1
1,1-Dichloroethene	N.D.	5	1
cis-1,2-Dichloroethene	N.D.	5	1
trans-1,2-Dichloroethene	N.D.	5	1
1,2-Dichloropropane	N.D.	5	1
cis-1,3-Dichloropropene	N.D.	5	1
trans-1,3-Dichloropropene	N.D.	5	1
Ethylbenzene	N.D.	5	1
Freon 113	N.D.	10	2
2-Hexanone	N.D.	10	3
Isopropylbenzene	N.D.	5	1
Methyl Acetate	N.D.	5	2
Methyl Tertiary Butyl Ether	N.D.	5	0.5
4-Methyl-2-pentanone	N.D.	10	3
Methylcyclohexane	N.D.	5	1
Methylene Chloride	N.D.	5	2
Styrene	N.D.	5	1
1,1,2,2-Tetrachloroethane	N.D.	5	1
Tetrachloroethene	N.D.	5	1

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Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

Method Blank (continued)

Analysis Name	Result ug/kg	LOQ** ug/kg	MDL ug/kg
Toluene	N.D.	5	1
1,2,3-Trichlorobenzene	N.D.	5	1
1,2,4-Trichlorobenzene	N.D.	5	1
1,1,1-Trichloroethane	N.D.	5	1
1,1,2-Trichloroethane	N.D.	5	1
Trichloroethene	N.D.	5	1
Trichlorofluoromethane	N.D.	5	2
Vinyl Chloride	N.D.	5	1
m+p-Xylene	N.D.	5	1
o-Xylene	N.D.	5	1
Batch number: 16180SLH026	Sample number(s): 8445540-8445550		
Acenaphthene	N.D.	17	3
Acenaphthylene	N.D.	17	3
Acetophenone	N.D.	33	17
Anthracene	N.D.	17	3
Atrazine	N.D.	170	33
Benzaldehyde	N.D.	170	67
Benzo(a)anthracene	N.D.	17	3
Benzo(a)pyrene	N.D.	17	3
Benzo(b)fluoranthene	N.D.	17	3
Benzo(g,h,i)perylene	N.D.	17	3
Benzo(k)fluoranthene	N.D.	17	3
1,1'-Biphenyl	N.D.	33	17
4-Bromophenyl-phenylether	N.D.	33	17
Butylbenzylphthalate	N.D.	170	67
Di-n-butylphthalate	N.D.	170	67
Caprolactam	N.D.	170	33
Carbazole	N.D.	33	17
4-Chloro-3-methylphenol	N.D.	33	17
4-Chloroaniline	N.D.	67	33
bis(2-Chloroethoxy)methane	N.D.	33	17
bis(2-Chloroethyl)ether	N.D.	33	17
2-Chloronaphthalene	N.D.	33	7
2-Chlorophenol	N.D.	33	17
4-Chlorophenyl-phenylether	N.D.	33	17
2,2'-oxybis(1-Chloropropane)	N.D.	33	17
Chrysene	N.D.	17	3
Dibenz(a,h)anthracene	N.D.	17	3
Dibenzofuran	N.D.	33	17
3,3'-Dichlorobenzidine	N.D.	330	100
2,4-Dichlorophenol	N.D.	33	17
Diethylphthalate	N.D.	170	67
2,4-Dimethylphenol	N.D.	33	17
Dimethylphthalate	N.D.	170	67
4,6-Dinitro-2-methylphenol	N.D.	500	170
2,4-Dinitrophenol	N.D.	1,000	300
2,4-Dinitrotoluene	N.D.	170	67
2,6-Dinitrotoluene	N.D.	33	17
bis(2-Ethylhexyl)phthalate	N.D.	170	67
Fluoranthene	N.D.	17	3
Fluorene	N.D.	17	3

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Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

Method Blank (continued)

Analysis Name	Result	LOQ**	MDL
	ug/kg	ug/kg	ug/kg
Hexachlorobenzene	N.D.	17	3
Hexachlorobutadiene	N.D.	33	17
Hexachlorocyclopentadiene	N.D.	500	170
Hexachloroethane	N.D.	170	33
Indeno(1,2,3-cd)pyrene	N.D.	17	3
Isophorone	N.D.	33	17
2-Methylnaphthalene	N.D.	17	3
2-Methylphenol	N.D.	33	17
4-Methylphenol	N.D.	33	17
Naphthalene	N.D.	17	3
2-Nitroaniline	N.D.	33	17
3-Nitroaniline	N.D.	170	67
4-Nitroaniline	N.D.	170	67
Nitrobenzene	N.D.	33	17
2-Nitrophenol	N.D.	33	17
4-Nitrophenol	N.D.	500	170
N-Nitroso-di-n-propylamine	N.D.	33	17
N-Nitrosodiphenylamine	N.D.	33	17
Di-n-octylphthalate	N.D.	170	67
Pentachlorophenol	N.D.	170	33
Phenanthrene	N.D.	17	3
Phenol	N.D.	33	17
Pyrene	N.D.	17	3
1,2,4,5-Tetrachlorobenzene	N.D.	33	17
2,3,4,6-Tetrachlorophenol	N.D.	170	67
2,4,5-Trichlorophenol	N.D.	33	17
2,4,6-Trichlorophenol	N.D.	33	17
	mg/kg	mg/kg	mg/kg
Batch number: 161815711001	Sample number(s): 8445540-8445550		
Mercury	0.0257 J	0.100	0.0100
Batch number: 161825708002	Sample number(s): 8445540-8445550		
Aluminum	33.1	20.0	8.68
Antimony	N.D.	2.00	0.700
Arsenic	N.D.	2.00	0.970
Barium	0.386 J	0.500	0.0330
Beryllium	N.D.	0.500	0.0670
Cadmium	N.D.	0.500	0.0490
Calcium	82.2	20.0	5.66
Chromium	N.D.	1.50	0.140
Cobalt	N.D.	0.500	0.120
Copper	N.D.	1.00	0.230
Iron	N.D.	20.0	4.12
Lead	N.D.	1.50	0.550
Magnesium	7.42 J	10.0	1.90
Manganese	0.304 J	0.500	0.0830
Nickel	N.D.	1.00	0.300
Potassium	N.D.	50.0	23.9
Selenium	N.D.	2.00	0.900
Silver	N.D.	0.500	0.150
Sodium	N.D.	100	23.9

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Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

Method Blank (continued)

Analysis Name	Result mg/kg	LOQ** mg/kg	MDL mg/kg
Thallium	N.D.	3.00	0.820
Vanadium	N.D.	0.500	0.140
Zinc	0.943 J	2.00	0.680

LCS/LCSD

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Q161832AA	Sample number(s): 8445540-8445544,8445546,8445548-8445550								
Acetone	7500	8880.26	7500	8878.64	118	118	46-139	0	30
Benzene	1000	976.41	1000	936.97	98	94	80-120	4	30
Bromochloromethane	1000	1139.52	1000	1123.87	114	112	80-126	1	30
Bromodichloromethane	1000	1051.62	1000	1025.35	105	103	75-120	3	30
Bromoform	1000	1039.19	1000	1010.23	104	101	64-120	3	30
Bromomethane	1000	1359.87	1000	1329.21	136	133	16-200	2	30
2-Butanone	7500	6931.42	7500	6606.55	92	88	54-129	5	30
Carbon Disulfide	1000	970.87	1000	977.76	97	98	60-120	1	30
Carbon Tetrachloride	1000	1102.74	1000	1091.85	110	109	69-130	1	30
Chlorobenzene	1000	941.91	1000	913.28	94	91	80-120	3	30
Chloroethane	1000	1255.8	1000	1207.29	126	121	11-200	4	30
Chloroform	1000	1116.26	1000	1089.15	112	109	80-120	2	30
Chloromethane	1000	858.67	1000	894.72	86	89	56-120	4	30
Cyclohexane	1000	914.18	1000	908.94	91	91	58-120	1	30
1,2-Dibromo-3-chloropropane	1000	910.38	1000	886.25	91	89	54-120	3	30
Dibromochloromethane	1000	988.89	1000	956.69	99	96	77-120	3	30
1,2-Dibromoethane	1000	967.31	1000	927.78	97	93	80-120	4	30
1,2-Dichlorobenzene	1000	953.03	1000	929.67	95	93	80-120	2	30
1,3-Dichlorobenzene	1000	949.62	1000	928.71	95	93	80-120	2	30
1,4-Dichlorobenzene	1000	967.33	1000	929.8	97	93	80-120	4	30
Dichlorodifluoromethane	1000	740.23	1000	744.06	74	74	28-131	1	30
1,1-Dichloroethane	1000	1045.68	1000	1044.21	105	104	77-120	0	30
1,2-Dichloroethane	1000	1120.49	1000	1121.88	112	112	77-130	0	30
1,1-Dichloroethene	1000	1083.61	1000	1063.86	108	106	73-129	2	30
cis-1,2-Dichloroethene	1000	1079.86	1000	1048.8	108	105	80-120	3	30
trans-1,2-Dichloroethene	1000	1154.4	1000	1107.16	115	111	80-125	4	30
1,2-Dichloropropane	1000	921.74	1000	893.37	92	89	76-120	3	30
cis-1,3-Dichloropropene	1000	939.65	1000	911.99	94	91	74-120	3	30
trans-1,3-Dichloropropene	1000	935.43	1000	908.8	94	91	76-120	3	30
Ethylbenzene	1000	954.68	1000	916.46	95	92	80-120	4	30
Freon 113	1000	1064.13	1000	1046.27	106	105	57-141	2	30
2-Hexanone	5000	4869.22	5000	4734.01	97	95	39-120	3	30
Isopropylbenzene	1000	985.43	1000	941.96	99	94	70-120	5	30
Methyl Acetate	1000	1065.15	1000	1033.95	107	103	52-146	3	30
Methyl Tertiary Butyl Ether	1000	1190.11	1000	1144.91	119	114	72-120	4	30
4-Methyl-2-pentanone	5000	4347.78	5000	4314.17	87	86	50-120	1	30
Methylcyclohexane	1000	925.74	1000	901.12	93	90	52-128	3	30
Methylene Chloride	1000	1137.93	1000	1103.16	114	110	76-122	3	30

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Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Styrene	1000	960.11	1000	923.78	96	92	76-120	4	30
1,1,2,2-Tetrachloroethane	1000	835.4	1000	816.66	84	82	67-121	2	30
Tetrachloroethene	1000	993.21	1000	968.61	99	97	78-120	3	30
Toluene	1000	937.12	1000	905.72	94	91	80-120	3	30
1,2,3-Trichlorobenzene	1000	1043.94	1000	973.32	104	97	47-123	7	30
1,2,4-Trichlorobenzene	1000	1037.88	1000	957.2	104	96	55-120	8	30
1,1,1-Trichloroethane	1000	1081.67	1000	1080.22	108	108	66-128	0	30
1,1,2-Trichloroethane	1000	946.05	1000	914.9	95	91	80-120	3	30
Trichloroethene	1000	1004.94	1000	993.5	100	99	80-120	1	30
Trichlorofluoromethane	1000	1208.88	1000	1149.15	121	115	54-140	5	30
Vinyl Chloride	1000	936.98	1000	918.19	94	92	59-120	2	30
m+p-Xylene	2000	1912.42	2000	1843.04	96	92	80-120	4	30
o-Xylene	1000	941.08	1000	919.51	94	92	80-120	2	30
Batch number: X161791AA	Sample number(s): 8445545,8445547								
Acetone	150	126.66	150	124.07	84	83	46-139	2	30
Benzene	20	17.99	20	17.35	90	87	80-120	4	30
Bromochloromethane	20	19.41	20	18.8	97	94	80-126	3	30
Bromodichloromethane	20	17.94	20	17.25	90	86	75-120	4	30
Bromoform	20	16.54	20	15.75	83	79	64-120	5	30
Bromomethane	20	17.6	20	16.6	88	83	16-200	6	30
2-Butanone	150	125.88	150	123.53	84	82	54-129	2	30
Carbon Disulfide	20	16.57	20	15.57	83	78	60-120	6	30
Carbon Tetrachloride	20	18.57	20	17.6	93	88	69-130	5	30
Chlorobenzene	20	18.47	20	18.09	92	90	80-120	2	30
Chloroethane	20	15.96	20	15.3	80	77	11-200	4	30
Chloroform	20	18.43	20	17.7	92	88	80-120	4	30
Chloromethane	20	16.15	20	16.05	81	80	56-120	1	30
Cyclohexane	20	13.08	20	12.53	65	63	58-120	4	30
1,2-Dibromo-3-chloropropane	20	14.86	20	14.58	74	73	54-120	2	30
Dibromochloromethane	20	17.37	20	16.77	87	84	77-120	3	30
1,2-Dibromoethane	20	17.73	20	17.27	89	86	80-120	3	30
1,2-Dichlorobenzene	20	17.99	20	17.47	90	87	80-120	3	30
1,3-Dichlorobenzene	20	18.21	20	17.57	91	88	80-120	4	30
1,4-Dichlorobenzene	20	18.33	20	17.54	92	88	80-120	4	30
Dichlorodifluoromethane	20	12.55	20	11.78	63	59	28-131	6	30
1,1-Dichloroethane	20	17.88	20	17.17	89	86	77-120	4	30
1,2-Dichloroethane	20	19.08	20	18.35	95	92	77-130	4	30
1,1-Dichloroethene	20	17.85	20	16.78	89	84	73-129	6	30
cis-1,2-Dichloroethene	20	18.45	20	17.7	92	89	80-120	4	30
trans-1,2-Dichloroethene	20	18.69	20	17.93	93	90	80-125	4	30
1,2-Dichloropropane	20	17.72	20	17.37	89	87	76-120	2	30
cis-1,3-Dichloropropene	20	16.03	20	15.74	80	79	74-120	2	30
trans-1,3-Dichloropropene	20	16.65	20	16.42	83	82	76-120	1	30
Ethylbenzene	20	18.18	20	17.56	91	88	80-120	3	30
Freon 113	20	13.17	20	12.7	66	64	57-141	4	30
2-Hexanone	100	71.98	100	70.2	72	70	39-120	2	30
Isopropylbenzene	20	18.12	20	17.55	91	88	70-120	3	30
Methyl Acetate	20	17.5	20	17.16	87	86	52-146	2	30
Methyl Tertiary Butyl Ether	20	17.41	20	17.2	87	86	72-120	1	30
4-Methyl-2-pentanone	100	84.29	100	82.82	84	83	50-120	2	30

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Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methylcyclohexane	20	12.11	20	11.62	61	58	52-128	4	30
Methylene Chloride	20	18	20	17.34	90	87	76-122	4	30
Styrene	20	18.19	20	17.52	91	88	76-120	4	30
1,1,2,2-Tetrachloroethane	20	16.36	20	15.55	82	78	67-121	5	30
Tetrachloroethene	20	19.1	20	18.14	95	91	78-120	5	30
Toluene	20	18.19	20	17.69	91	88	80-120	3	30
1,2,3-Trichlorobenzene	20	17.37	20	17.22	87	86	47-123	1	30
1,2,4-Trichlorobenzene	20	16.97	20	16.71	85	84	55-120	2	30
1,1,1-Trichloroethane	20	18.95	20	18.1	95	90	66-128	5	30
1,1,2-Trichloroethane	20	17.37	20	16.94	87	85	80-120	2	30
Trichloroethene	20	18.19	20	17.67	91	88	80-120	3	30
Trichlorofluoromethane	20	16.88	20	15.8	84	79	54-140	7	30
Vinyl Chloride	20	17.18	20	16.43	86	82	59-120	5	30
m+p-Xylene	40	36.98	40	35.63	92	89	80-120	4	30
o-Xylene	20	17.45	20	17.04	87	85	80-120	2	30
Batch number: X161872AA	Sample number(s): 8445551-8445553								
Acetone	150	109.87	150	100.74	73	67	46-139	9	30
Benzene	20	17.92	20	17.58	90	88	80-120	2	30
Bromochloromethane	20	19.31	20	19	97	95	80-126	2	30
Bromodichloromethane	20	18.48	20	18.12	92	91	75-120	2	30
Bromoform	20	17.47	20	16.22	87	81	64-120	7	30
Bromomethane	20	18.15	20	17.65	91	88	16-200	3	30
2-Butanone	150	113.41	150	107.59	76	72	54-129	5	30
Carbon Disulfide	20	16.86	20	16.13	84	81	60-120	4	30
Carbon Tetrachloride	20	20.15	20	19.21	101	96	69-130	5	30
Chlorobenzene	20	19.22	20	18.71	96	94	80-120	3	30
Chloroethane	20	16.31	20	16.42	82	82	11-200	1	30
Chloroform	20	18.87	20	18.34	94	92	80-120	3	30
Chloromethane	20	16.63	20	16.37	83	82	56-120	2	30
Cyclohexane	20	13.53	20	13.26	68	66	58-120	2	30
1,2-Dibromo-3-chloropropane	20	15.46	20	13.82	77	69	54-120	11	30
Dibromochloromethane	20	17.82	20	17.16	89	86	77-120	4	30
1,2-Dibromoethane	20	17.64	20	17.07	88	85	80-120	3	30
1,2-Dichlorobenzene	20	18.84	20	17.98	94	90	80-120	5	30
1,3-Dichlorobenzene	20	18.87	20	18.3	94	91	80-120	3	30
1,4-Dichlorobenzene	20	19	20	18.38	95	92	80-120	3	30
Dichlorodifluoromethane	20	14.97	20	14.65	75	73	28-131	2	30
1,1-Dichloroethane	20	18.15	20	17.42	91	87	77-120	4	30
1,2-Dichloroethane	20	18.78	20	18.48	94	92	77-130	2	30
1,1-Dichloroethene	20	18.11	20	17.51	91	88	73-129	3	30
cis-1,2-Dichloroethene	20	18.86	20	18.18	94	91	80-120	4	30
trans-1,2-Dichloroethene	20	19.31	20	18.68	97	93	80-125	3	30
1,2-Dichloropropane	20	17.37	20	17.19	87	86	76-120	1	30
cis-1,3-Dichloropropene	20	15.99	20	15.76	80	79	74-120	1	30
trans-1,3-Dichloropropene	20	16.99	20	16.59	85	83	76-120	2	30
Ethylbenzene	20	18.95	20	18.36	95	92	80-120	3	30
Freon 113	20	14.78	20	14.39	74	72	57-141	3	30
2-Hexanone	100	67.79	100	62.87	68	63	39-120	8	30
Isopropylbenzene	20	19.38	20	18.66	97	93	70-120	4	30
Methyl Acetate	20	15.25	20	14.53	76	73	52-146	5	30

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Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	20	16.71	20	16.31	84	82	72-120	2	30
4-Methyl-2-pentanone	100	77.47	100	72.98	77	73	50-120	6	30
Methylcyclohexane	20	13.69	20	13.29	68	66	52-128	3	30
Methylene Chloride	20	17.59	20	17.06	88	85	76-122	3	30
Styrene	20	18.48	20	18.08	92	90	76-120	2	30
1,1,2,2-Tetrachloroethane	20	15.45	20	14.73	77	74	67-121	5	30
Tetrachloroethene	20	20.74	20	19.79	104	99	78-120	5	30
Toluene	20	18.85	20	18.28	94	91	80-120	3	30
1,2,3-Trichlorobenzene	20	18.34	20	17.54	92	88	47-123	4	30
1,2,4-Trichlorobenzene	20	18.12	20	17.28	91	86	55-120	5	30
1,1,1-Trichloroethane	20	20.14	20	19.48	101	97	66-128	3	30
1,1,2-Trichloroethane	20	17.29	20	16.7	86	84	80-120	3	30
Trichloroethene	20	19.05	20	18.3	95	92	80-120	4	30
Trichlorofluoromethane	20	19.08	20	18.16	95	91	54-140	5	30
Vinyl Chloride	20	17.71	20	17.03	89	85	59-120	4	30
m+p-Xylene	40	38.6	40	37.52	97	94	80-120	3	30
o-Xylene	20	18.49	20	17.93	92	90	80-120	3	30
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 16180SLH026	Sample number(s): 8445540-8445550								
Acenaphthene	1666.67	1610.87			97		83-116		
Acenaphthylene	1666.67	1766.26			106		83-119		
Acetophenone	1666.67	1476.22			89		74-116		
Anthracene	1666.67	1641.13			98		82-118		
Atrazine	1666.67	2089.54			125		62-143		
Benzaldehyde	1666.67	1196.26			72		10-93		
Benzo(a)anthracene	1666.67	1587.74			95		76-119		
Benzo(a)pyrene	1666.67	1637.52			98		85-117		
Benzo(b)fluoranthene	1666.67	1609.4			97		78-129		
Benzo(g,h,i)perylene	1666.67	1511.68			91		77-118		
Benzo(k)fluoranthene	1666.67	1671.38			100		79-120		
1,1'-Biphenyl	1666.67	1527.49			92		76-111		
4-Bromophenyl-phenylether	1666.67	1643.33			99		84-120		
Butylbenzylphthalate	1666.67	1668.28			100		80-118		
Di-n-butylphthalate	1666.67	1680.24			101		84-120		
Caprolactam	1666.67	1679.24			101		73-119		
Carbazole	1666.67	1661.13			100		78-117		
4-Chloro-3-methylphenol	1666.67	1764.48			106		79-127		
4-Chloroaniline	1666.67	794.87			48		10-100		
bis(2-Chloroethoxy)methane	1666.67	1595.44			96		77-116		
bis(2-Chloroethyl)ether	1666.67	1514.54			91		77-115		
2-Chloronaphthalene	1666.67	1705.85			102		63-146		
2-Chlorophenol	1666.67	1748.57			105		85-123		
4-Chlorophenyl-phenylether	1666.67	1592.99			96		81-120		
2,2'-oxybis(1-Chloropropane)	1666.67	1899.06			114		61-134		
Chrysene	1666.67	1541.4			92		80-121		
Dibenz(a,h)anthracene	1666.67	1609.71			97		81-123		
Dibenzofuran	1666.67	1638.47			98		85-115		
3,3'-Dichlorobenzidine	1666.67	867.41			52		10-116		
2,4-Dichlorophenol	1666.67	1813.33			109		86-125		

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Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Diethylphthalate	1666.67	1628.65			98		81-118		
2,4-Dimethylphenol	1666.67	1515.45			91		83-120		
Dimethylphthalate	1666.67	1624.39			97		82-113		
4,6-Dinitro-2-methylphenol	1666.67	1620.87			97		46-134		
2,4-Dinitrophenol	3333.33	2812.57			84		16-132		
2,4-Dinitrotoluene	1666.67	1673.46			100		81-122		
2,6-Dinitrotoluene	1666.67	1704			102		86-125		
bis(2-Ethylhexyl)phthalate	1666.67	1652.06			99		81-121		
Fluoranthene	1666.67	1578.73			95		81-117		
Fluorene	1666.67	1620.32			97		86-118		
Hexachlorobenzene	1666.67	1524.06			91		79-116		
Hexachlorobutadiene	1666.67	1543.96			93		72-120		
Hexachlorocyclopentadiene	3333.33	2553.11			77		64-137		
Hexachloroethane	1666.67	1497.25			90		78-114		
Indeno(1,2,3-cd)pyrene	1666.67	1536.88			92		81-118		
Isophorone	1666.67	1645.56			99		77-118		
2-Methylnaphthalene	1666.67	1674.59			100		83-109		
2-Methylphenol	1666.67	1796.37			108		80-133		
4-Methylphenol	1666.67	1677.57			101		73-125		
Naphthalene	1666.67	1625.97			98		82-112		
2-Nitroaniline	1666.67	1798.34			108		84-126		
3-Nitroaniline	1666.67	1564.6			94		66-119		
4-Nitroaniline	1666.67	1165.55			70		44-110		
Nitrobenzene	1666.67	1552.07			93		70-122		
2-Nitrophenol	1666.67	1743.14			105		83-120		
4-Nitrophenol	1666.67	1144.69			69		52-133		
N-Nitroso-di-n-propylamine	1666.67	1585.65			95		67-121		
N-Nitrosodiphenylamine	1666.67	1682.8			101		83-118		
Di-n-octylphthalate	1666.67	2051.54			123		80-140		
Pentachlorophenol	1666.67	1381.96			83		57-126		
Phenanthrene	1666.67	1577.68			95		80-114		
Phenol	1666.67	1559.53			94		73-122		
Pyrene	1666.67	1563.71			94		81-114		
1,2,4,5-Tetrachlorobenzene	1666.67	1505.32			90		76-116		
2,3,4,6-Tetrachlorophenol	1666.67	1507.11			90		78-133		
2,4,5-Trichlorophenol	1666.67	1664.4			100		86-123		
2,4,6-Trichlorophenol	1666.67	1696.41			102		81-123		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 161815711001	Sample number(s): 8445540-8445550								
Mercury	0.100	0.0986			99		80-120		
Batch number: 161825708002	Sample number(s): 8445540-8445550								
Aluminum	200	232.33			116		80-120		
Antimony	50	51.21			102		80-120		
Arsenic	15	15.33			102		80-120		
Barium	200	210.59			105		80-120		
Beryllium	5.00	5.21			104		80-120		
Cadmium	5.00	5.24			105		80-120		
Calcium	400	479.19			120		80-120		

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Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chromium	20	20.9			104		80-120		
Cobalt	50	53.24			106		80-120		
Copper	25	28.1			112		80-120		
Iron	100	101.86			102		80-120		
Lead	15	15.73			105		80-120		
Magnesium	200	213.99			107		80-120		
Manganese	50	53.1			106		80-120		
Nickel	50	53.67			107		80-120		
Potassium	1000	1037.27			104		80-120		
Selenium	15	15.79			105		80-120		
Silver	5.00	5.04			101		80-120		
Sodium	1000	1052.44			105		80-120		
Thallium	15	15.42			103		80-120		
Vanadium	50	52.6			105		80-120		
Zinc	50	52.26			105		80-120		
	%	%	%	%					
Batch number: 16183820004A	Sample number(s): 8445540-8445550								
Moisture	89.5	89.46			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: X161791AA	Sample number(s): 8445545,8445547 UNSPK: P441660									
Acetone	N.D.	100.94	101.27			100		46-139		
Benzene	N.D.	13.46	12.25			91		80-120		
Bromochloromethane	N.D.	13.46	12.76			95		80-126		
Bromodichloromethane	N.D.	13.46	12.04			89		75-120		
Bromoform	N.D.	13.46	11.13			83		64-120		
Bromomethane	N.D.	13.46	12.22			91		16-200		
2-Butanone	N.D.	100.94	101.25			100		54-129		
Carbon Disulfide	N.D.	13.46	12.4			92		60-120		
Carbon Tetrachloride	N.D.	13.46	13.15			98		69-130		
Chlorobenzene	N.D.	13.46	10.82			80		80-120		
Chloroethane	N.D.	13.46	11.78			88		11-200		
Chloroform	N.D.	13.46	12.39			92		80-120		
Chloromethane	N.D.	13.46	12.5			93		56-120		
Cyclohexane	N.D.	13.46	12.54			93		58-120		
1,2-Dibromo-3-chloropropane	N.D.	13.46	14.33			106		54-120		
Dibromochloromethane	N.D.	13.46	11.41			85		77-120		
1,2-Dibromoethane	N.D.	13.46	12.13			90		80-120		
1,2-Dichlorobenzene	N.D.	13.46	9.78			73*		80-120		
1,3-Dichlorobenzene	N.D.	13.46	9.37			70*		80-120		

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Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	N.D.	13.46	9.42			70*		80-120		
Dichlorodifluoromethane	N.D.	13.46	13.56			101		28-131		
1,1-Dichloroethane	N.D.	13.46	12.49			93		77-120		
1,2-Dichloroethane	N.D.	13.46	12.7			94		77-130		
1,1-Dichloroethene	N.D.	13.46	13.32			99		73-129		
cis-1,2-Dichloroethene	N.D.	13.46	12.54			93		80-120		
trans-1,2-Dichloroethene	N.D.	13.46	13.15			98		80-125		
1,2-Dichloropropane	N.D.	13.46	12.18			90		76-120		
cis-1,3-Dichloropropene	N.D.	13.46	10.91			81		74-120		
trans-1,3-Dichloropropene	N.D.	13.46	11.01			82		76-120		
Ethylbenzene	78.29	13.46	13.41			-481 (2)		80-120		
Freon 113	N.D.	13.46	13.6			101		57-141		
2-Hexanone	N.D.	67.29	57.68			86		39-120		
Isopropylbenzene	36.79	13.46	11.29			-189*		70-120		
Methyl Acetate	N.D.	13.46	11.91			88		52-146		
Methyl Tertiary Butyl Ether	N.D.	13.46	12.64			94		72-120		
4-Methyl-2-pentanone	N.D.	67.29	68.64			102		50-120		
Methylcyclohexane	1.57	13.46	12.52			81		52-128		
Methylene Chloride	N.D.	13.46	13.7			102		76-122		
Styrene	N.D.	13.46	10.76			80		76-120		
1,1,2,2-Tetrachloroethane	N.D.	13.46	11.9			88		67-121		
Tetrachloroethene	N.D.	13.46	11.78			88		78-120		
Toluene	50.34	13.46	14.53			-265*		80-120		
1,2,3-Trichlorobenzene	N.D.	13.46	9.40			70		47-123		
1,2,4-Trichlorobenzene	N.D.	13.46	9.25			69		55-120		
1,1,1-Trichloroethane	N.D.	13.46	12.93			96		66-128		
1,1,2-Trichloroethane	N.D.	13.46	11.94			89		80-120		
Trichloroethene	N.D.	13.46	12.21			91		80-120		
Trichlorofluoromethane	N.D.	13.46	13.99			104		54-140		
Vinyl Chloride	N.D.	13.46	13.42			100		59-120		
m+p-Xylene	369.75	26.92	36.62			-1237 (2)		80-120		
o-Xylene	216.14	13.46	20.91			-1450 (2)		80-120		
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 16180SLH026	Sample number(s): 8445540-8445550 UNSPK: 8445540									
Acenaphthene	N.D.	1644.74	1531.32	1655.63	1497.02	93	90	83-116	2	30
Acenaphthylene	N.D.	1644.74	1569.11	1655.63	1766.27	95	107	83-119	12	30
Acetophenone	N.D.	1644.74	1377.83	1655.63	1430.55	84	86	74-116	4	30
Anthracene	252.66	1644.74	1777.22	1655.63	1944.25	93	102	82-118	9	30
Atrazine	N.D.	1644.74	N.D.	1655.63	1674.62	0*	101	62-143	200*	30
Benzaldehyde	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	10-93	0	30
Benzo(a)anthracene	454.72	1644.74	1727.94	1655.63	2055.75	77	97	76-119	17	30
Benzo(a)pyrene	685.67	1644.74	2356.78	1655.63	1959.85	102	77*	85-117	18	30
Benzo(b)fluoranthene	772.03	1644.74	1983.72	1655.63	1795.26	74*	62*	78-129	10	30
Benzo(g,h,i)perylene	760.03	1644.74	1969.98	1655.63	2389.27	74*	98	77-118	19	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	334.6	1644.74	1578.5	1655.63	1515.36	76*	71*	79-120	4	30
1,1'-Biphenyl	N.D.	1644.74	1300.26	1655.63	1353.43	79	82	76-111	4	30
4-Bromophenyl-phenylether	N.D.	1644.74	2002.86	1655.63	2699.22	122*	163*	84-120	30	30
Butylbenzylphthalate	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	80-118	0	30
Di-n-butylphthalate	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	84-120	0	30
Caprolactam	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	73-119	0	30
Carbazole	N.D.	1644.74	1714.87	1655.63	2201.16	104	133*	78-117	25	30
4-Chloro-3-methylphenol	N.D.	1644.74	2177.93	1655.63	1644.11	132*	99	79-127	28	30
4-Chloroaniline	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	10-100	0	30
bis(2-Chloroethoxy)methane	N.D.	1644.74	1316.12	1655.63	1283.1	80	77	77-116	3	30
bis(2-Chloroethyl)ether	N.D.	1644.74	1364.05	1655.63	1315.08	83	79	77-115	4	30
2-Chloronaphthalene	N.D.	1644.74	1365.79	1655.63	1373.94	83	83	63-146	1	30
2-Chlorophenol	N.D.	1644.74	1504.92	1655.63	1358.71	91	82*	85-123	10	30
4-Chlorophenyl-phenylether	N.D.	1644.74	1562.55	1655.63	1617.8	95	98	81-120	3	30
2,2'-oxybis(1-Chloropropane)	N.D.	1644.74	1685.35	1655.63	1639.85	102	99	61-134	3	30
Chrysene	707.25	1644.74	1636.09	1655.63	2049.3	56*	81	80-121	22	30
Dibenz(a,h)anthracene	N.D.	1644.74	1801.15	1655.63	1660.2	110	100	81-123	8	30
Dibenzofuran	N.D.	1644.74	1418.57	1655.63	1426.44	86	86	85-115	1	30
3,3'-Dichlorobenzidine	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	10-116	0	30
2,4-Dichlorophenol	N.D.	1644.74	1444.93	1655.63	1342.75	88	81*	86-125	7	30
Diethylphthalate	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	81-118	0	30
2,4-Dimethylphenol	N.D.	1644.74	1302.32	1655.63	1136.34	79*	69*	83-120	14	30
Dimethylphthalate	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	82-113	0	30
4,6-Dinitro-2-methylphenol	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	46-134	0	30
2,4-Dinitrophenol	N.D.	3289.47	N.D.	3311.26	N.D.	0*	0*	16-132	0	30
2,4-Dinitrotoluene	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	81-122	0	30
2,6-Dinitrotoluene	N.D.	1644.74	1392.34	1655.63	1170.36	85*	71*	86-125	17	30
bis(2-Ethylhexyl)phthalate	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	81-121	0	30
Fluoranthene	1011.29	1644.74	2237.7	1655.63	2454.8	75*	87	81-117	9	30
Fluorene	181.91	1644.74	1500.21	1655.63	1580.56	80*	84*	86-118	5	30
Hexachlorobenzene	N.D.	1644.74	1262.55	1655.63	1130.76	77*	68*	79-116	11	30
Hexachlorobutadiene	N.D.	1644.74	1232.76	1655.63	1294.07	75	78	72-120	5	30
Hexachlorocyclopentadiene	N.D.	3289.47	N.D.	3311.26	N.D.	0*	0*	64-137	0	30
Hexachloroethane	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	78-114	0	30
Indeno(1,2,3-cd)pyrene	494.55	1644.74	1790.66	1655.63	1852.86	79*	82	81-118	3	30
Isophorone	N.D.	1644.74	1379.38	1655.63	1413.73	84	85	77-118	2	30
2-Methylnaphthalene	281.63	1644.74	1553.75	1655.63	1614.88	77*	81*	83-109	4	30
2-Methylphenol	N.D.	1644.74	1556.58	1655.63	1383.54	95	84	80-133	12	30
4-Methylphenol	N.D.	1644.74	1361.63	1655.63	1306.14	83	79	73-125	4	30
Naphthalene	263.4	1644.74	1549.21	1655.63	1722.1	78*	88	82-112	11	30
2-Nitroaniline	N.D.	1644.74	2132.53	1655.63	2182.78	130*	132*	84-126	2	30
3-Nitroaniline	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	66-119	0	30
4-Nitroaniline	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	44-110	0	30
Nitrobenzene	N.D.	1644.74	1402.99	1655.63	1358.51	85	82	70-122	3	30
2-Nitrophenol	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	83-120	0	30
4-Nitrophenol	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	52-133	0	30
N-Nitroso-di-n-propylamine	N.D.	1644.74	1486.45	1655.63	1469.7	90	89	67-121	1	30
N-Nitrosodiphenylamine	N.D.	1644.74	1638.31	1655.63	1712.15	100	103	83-118	4	30
Di-n-octylphthalate	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	80-140	0	30

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P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Pentachlorophenol	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	57-126	0	30
Phenanthrene	892.18	1644.74	2316.25	1655.63	2371.84	87	89	80-114	2	30
Phenol	N.D.	1644.74	1389.88	1655.63	1199.21	85	72*	73-122	15	30
Pyrene	1210.82	1644.74	2390.77	1655.63	2523.82	72*	79*	81-114	5	30
1,2,4,5-Tetrachlorobenzene	N.D.	1644.74	1252.89	1655.63	1301.85	76	79	76-116	4	30
2,3,4,6-Tetrachlorophenol	N.D.	1644.74	N.D.	1655.63	N.D.	0*	0*	78-133	0	30
2,4,5-Trichlorophenol	N.D.	1644.74	1390.99	1655.63	1448.96	85*	88	86-123	4	30
2,4,6-Trichlorophenol	N.D.	1644.74	1308.78	1655.63	1325.43	80*	80*	81-123	1	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 161815711001	Sample number(s): 8445540-8445550 UNSPK: P449843									
Mercury	0.0313	0.161	0.203	0.161	0.261	106	142*	80-120	25*	20
Batch number: 161825708002	Sample number(s): 8445540-8445550 UNSPK: P444471									
Aluminum	9313.44	168.07	15440.8	152.67	13897.07	3646 (2)	3002 (2)	75-125	11	20
Antimony	N.D.	42.02	25	38.17	23.75	60*	62*	75-125	5	20
Arsenic	N.D.	12.61	12.51	11.45	11.14	99	97	75-125	12	20
Barium	49.68	168.07	216.84	152.67	200.19	99	99	75-125	8	20
Beryllium	0.456	4.20	4.88	3.82	4.36	105	102	75-125	11	20
Cadmium	0.135	4.20	4.19	3.82	3.74	97	94	75-125	11	20
Calcium	823.52	336.13	1238.91	305.34	1160.44	124	110	75-125	7	20
Chromium	26.89	16.81	38.85	15.27	34.89	71*	52*	75-125	11	20
Cobalt	2.46	42.02	43.64	38.17	38.49	98	94	75-125	13	20
Copper	11.49	21.01	34.86	19.08	32.68	111	111	75-125	6	20
Iron	11004.69	84.03	12494.33	76.34	11754.44	1773 (2)	982 (2)	75-125	6	20
Lead	1.19	12.61	13.43	11.45	12.31	97	97	75-125	9	20
Magnesium	1452.65	168.07	1806.05	152.67	1708.66	210 (2)	168 (2)	75-125	6	20
Manganese	41.75	42.02	90.66	38.17	78.67	116	97	75-125	14	20
Nickel	6.00	42.02	48.01	38.17	42.8	100	96	75-125	11	20
Potassium	936.92	840.34	1832.65	763.36	1872.66	107	123	75-125	2	20
Selenium	1.28	12.61	13.01	11.45	10.87	93	84	75-125	18	20
Silver	0.130	4.20	4.32	3.82	3.84	100	97	75-125	12	20
Sodium	74.29	840.34	914.12	763.36	823.9	100	98	75-125	10	20
Thallium	N.D.	12.61	11.4	11.45	10.71	90	94	75-125	6	20
Vanadium	31.48	42.02	75.16	38.17	70.34	104	102	75-125	7	20
Zinc	21.56	42.02	65.02	38.17	58.2	103	96	75-125	11	20

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 161815711001	Sample number(s): 8445540-8445550 BKG: P449843			
Mercury	0.0313	0.0409	27* (1)	20
Batch number: 161825708002	Sample number(s): 8445540-8445550 BKG: P444471			
Aluminum	9313.44	8290.06	12	20
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	N.D.	N.D.	0 (1)	20
Barium	49.68	38.04	27*	20
Beryllium	0.456	0.396	14 (1)	20
Cadmium	0.135	0.131	3 (1)	20
Calcium	823.52	807.78	2	20
Chromium	26.89	19.15	34*	20
Cobalt	2.46	2.49	1	20
Copper	11.49	10.36	10	20
Iron	11004.69	9928.61	10	20
Lead	1.19	1.44	19 (1)	20
Magnesium	1452.65	1422.66	2	20
Manganese	41.75	40.86	2	20
Nickel	6.00	5.48	9	20
Potassium	936.92	884.08	6	20
Selenium	1.28	0.797	47* (1)	20
Silver	0.130	N.D.	200* (1)	20
Sodium	74.29	65.86	12 (1)	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	31.48	25.51	21*	20
Zinc	21.56	20.48	5	20
	%	%		
Batch number: 16183820004A	Sample number(s): 8445540-8445550 BKG: 8445545			
Moisture	7.52	6.97	8*	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL 1.2 8260B
Batch number: Q161832AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8445540	97	89	71	75
8445541	125	125	102	111
8445542	101	102	89	125
8445543	113	102	92	98
8445544	93	97	75	80
8445546	102	103	84	87
8445548	101	101	89	99
8445549	104	100	84	109

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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8445550	87	76	65	68
Blank	102	92	83	85
LCS	111	102	91	91
LCSD	109	100	87	89
Limits:	50-141	54-135	52-141	50-131

Analysis Name: TCL 1.2 8260B
Batch number: X161791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8445545	106	108	121	64
8445547	107	108	98	89
Blank	105	103	98	90
LCS	102	99	101	96
LCSD	102	99	101	97
MS	103	107	100	99
Limits:	50-141	54-135	52-141	50-131

Analysis Name: TCL 1.2 8260B
Batch number: X161872AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8445551	106	102	98	90
8445552	107	103	96	91
8445553	108	103	97	91
Blank	105	96	99	89
LCS	103	96	101	97
LCSD	103	96	102	97
Limits:	50-141	54-135	52-141	50-131

Analysis Name: TCL 8270 (microwave)
Batch number: 16180SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
8445540	89	83	65	90	83	91
8445541	81	83	68	85	87	83
8445542	101	91	83	149*	97	103
8445543	79	75	61	81	80	82
8445544	70	69	51	73	67	67
8445545	81	77	66	78	81	84
8445546	90	85	71	85	87	90
8445547	92	86	77	77	79	85
8445548	74	69	56	76	69	72
8445549	83	81	63	105	85	82
8445550	81	77	59	84	81	88
Blank	93	93	89	87	87	90
LCS	97	96	84	93	92	93
MS	84	78	68	82	78	84
MSD	73	72	54	84	86	84

*- Outside of specification
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P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Evergreen c/o GHD
Reported: 07/11/2016 09:42

Group Number: 1676188

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Limits:	58-122	57-126	35-136	54-123	63-117	59-129

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 10177 Group # 1676188 Sample # 8445540-53

COC # 504269

Client Information

Client: Evergreen

Acct. #:

Project Name/#: 1102641

PWSID #:

Project Manager: David Steele

P.O. #:

Sampler: Matthew Marcus

Quote #:

State where samples were collected: PA/DE

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

3/4

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Sediment	Tissue	Potable	Ground	Surface	NPDES	Water	Other:	Total # of Containers	TCL VOCs	TAL Metals, TCL VOCs									
A017-BH16-018-062316-0-2-MM	6/23/16	1230	✓												4	1									
A017-BH16-019-062316-0-2-MM	6/22/16	1650	✓												4	1									
A017-BH16-020-0-2-MM	6/23/16	1520	✓												4	1									
A017-BH16-021-062416-0-2-MM	6/24/16	8:30	✓												4	1									
A017-BH16-022-062316-0-2-MM	6/23/16	1310	✓												4	1									
A017-BH16-023-062416-0-2-MM	6/24/16	9:20	✓												4	1									
A017-BH16-024-062316-0-2-MM	6/23/16	1405	✓												4	1									
A017-BH16-025-062316-0-2-MM	6/23/16	1500	✓												4	1									
A017-BH16-026-062316-0-2-MM	6/23/16	1555	✓												4	1									
A017-BH16-DUP1-0-2-MM	6/22/16	1530	✓												4	1									

Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

Relinquished by	Date	Time	Received by	Date	Time
Matthew Marcus	6/24/16	1230	[illegible]	6.24.16	1400
[illegible]	6-24-16	1800			
			Cory Germick	6/24/16	18:02

Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) NJ DKQP TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

EDD Required? Yes No

If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.5 - 1.1 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0216

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 10177 Group # 1676188 Sample # 8445540-53

COC # 504268

Client Information

Client: Georgiteen

Acct. #:

Project Name/#: 1110260 4

PWSID #:

Project Manager: David Steele

P.O. #:

Sampler: Matthew Marcus

Quote #:

State where samples were collected: PA / DE

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

4/4

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil ☑ Sediment ☐ Tissue ☐	Water: Potable ☐ Ground ☐ Surface ☐ NPDES ☐	Other:	Total # of Containers	TCL VOCs	TAL Metals, TCL SVOC	TB								
A037-DUP2-062316-G-2,m	6/23/16	1235	✓		S														
TB1	6/22/16	1200									3								
TB2	6/23/16	1200									3								
TB3	6/24/16	1100									3								

Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) NJ DKQP TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
Matthew Marcus	6/24/16		[illegible]	6-24-16	1400
[illegible]	6-24-16	1800			
			[illegible] Jeremiah	6/24/16	18:02

EDD Required? Yes No

If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.5-1.1 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 151629

Group Number(s): 1676188

Client: Evergreen

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	06/24/2016 18:02
Number of Packages:	2	Number of Projects:	1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Cory Jeremiah (10469) at 20:31 on 06/24/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	1.1	DT	Wet	Y	Bagged	N
2	DT121	0.5	DT	Wet	Y	Bagged	N

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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