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October 6, 2011

Mr. Brian Neckermann/Mr. Michael Barrar
Walsh Construction Company

Transmitted via email - bneckermann@walshgroup.com / mbarrar@walshgroup.com

RE: Clean Fill Classification Sampling Results – Pa Turnpike Northeast Extension Station(s) NB211+00 to 219+00 – Region located between Dekalb Pike and SEPTA, and SB17 – Region located between Skippack Pike and Bethel Road northbound, Montgomery County, Pennsylvania

INTRODUCTION

The H&K Group® Engineering and Environmental Services Division (The H&K Group®) is pleased to provide Walsh Construction Company (Walsh) with the classification of the excavated and in-situ soils located adjacent and related to the reconstruction of the Pennsylvania Turnpike Northeast Extension.

The materials classified on September 13, 2011 between Station(s) 211+00 to 219+00 – northbound, Region located between Dekalb Pike and SEPTA, as well as SB17, Region located between Skippack Pike and Bethel Road northbound, have been determined to be Clean Fill. Clean Fill is defined by the Pennsylvania Department of Environmental Protection's Bureau of Land Recycling and Waste Management (PADEP) Management of Fill Technical Guidance Document (Document No. 258-2182-773, dated August 7, 2010). A description of the process and methodology employed to make this classification as Clean or Regulated Fill is provided below.

For stations 211+00 to 219+00 – northbound, The H&K Group® utilized construction plan documents and calculated the estimated soil volume to be excavated and exported between each established one-hundred (100) foot station. Based upon these calculations, The H&K Group® collected four (4) discrete soil samples for each one-thousand (1000) cubic yards of soil material where export was anticipated, as specified by the sampling methodology from the PADEP Guidance and EPA SW846. For SB17, The H&K Group® utilized construction plan documents and calculated the estimated soil volume to be excavated and exported established within the sedimentation basins and storm-water basins, including 3,114 cubic yards in-situ within SB17. Based upon these calculations, The H&K Group® collected four (4) discrete soil samples for each one-thousand (1000) cubic yards of soil material where export was anticipated, as specified by the sampling methodology from the PADEP Guidance and EPA SW846. Soil Sampling was facilitated by use of a truck mounted Geoprobe sampling device. Discrete samples were collected directly from the PVC Geoprobe Core Sleeves. Underlying native rock was not sampled or submitted for laboratory analysis as rock is considered clean fill by definition by the PADEP. Samples were placed in laboratory-supplied containers, packed in ice and submitted via Chain of Custody to ALS Environmental Laboratories of Middletown, PA (NELAP/PA Certification PA 22-293). Sample locations are depicted on the sample location plan (attached herewith for reference).

Soil Samples were analyzed for Priority Pollutant Total 8 RCRA Metals by EPA Method 6010C/7471B, Priority Pollutant Volatile Organic Compounds by EPA Method 8260, Priority Pollutant Semi-Volatile Polycyclic Aromatic Hydrocarbons by EPA Method 8270D, Polychlorinated biphenyls (PCB's) by EPA Method 8082A, Pesticides by EPA Method 8081B and Herbicides by EPA Method 8151A. Analytical Results are included in Table 1 for reference.

DATA REVIEW AND ANALYSIS

Based upon the review of the soil analytical results in comparison to the PA DEP Management of Clean Fill Technical Guidance Document Table FP-1a (Organics) and FP-1b (Inorganics), the laboratory results demonstrate compliance with the most stringent residential standards for Clean Fill for the materials generated between Stations 211+00 to 219+00 – northbound, Region located between Dekalb Pike and SEPTA, as well as SB17, Region located between Skippack Pike and Bethel Road northbound.

CONCLUSIONS

The H&K Group® collected 6 samples from the soil(s) to be excavated and exported from the areas adjacent and related to the reconstruction of the Pennsylvania Turnpike Northeast Extension between Station(s) 211+00 to 219+00 – northbound, Region located between Dekalb Pike and SEPTA, as well as SB17, Region located between Skippack Pike and Bethel Road northbound, and has submitted them for laboratory analysis to ALS Environmental Laboratories. Based upon the review of the analytical results, the 5,168 cubic yards of material(s), including soils and underlying rock generated from this region may be handled as clean fill as defined by the Pennsylvania Department of Environmental Protection's Bureau of Land Recycling and Waste Management (PADEP) Management of Fill Technical Guidance Document (Document No. 258-2182-773, dated August 7, 2010).

Note that no rock was sampled or submitted for laboratory analysis, and that ALL rock generated from either region may be handled as clean fill by definition.

Thank you for the opportunity to support this project. If you have any questions, or if you require additional information, please do not hesitate to contact us.

Sincerely,

THE H&K GROUP®

Engineering and Environmental Services Division



Andrew R. Curtis
Environmental Scientist



RP Norley
Project Geologist

Attachments



FORM FP-001 - CERTIFICATION OF CLEAN FILL

Prior to completing this form and signing this certification, please review the entire Management of Fill policy (#258-2182-773), including the certification requirements. Please note that historic fill, as defined in the Management of Fill policy, may meet the definition of clean fill if the material is limited to uncontaminated soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such.

Instructions: Sections 1 and 2 of this form must be completed by the person making the determination of clean fill at the site of origin. Section 3 must be completed by the person using the material as clean fill. Both the person determining clean fill and the user of the clean fill are responsible for maintaining copies of this completed form on site for a period of five (5) years for Department inspection.

Section 1: Person Determining Clean Fill

Name (Print): Andrew R. Curtis Title: Environmental Manager Date: 10/6/2011
 Company Name: The H&K Group® Engineering and Environmental Services Division
 Street Address: 2052 Lucon Road City: Skippack State: PA Zip Code: 19474
 Telephone Number: (610) 584-8500 E-mail Address: acurtis@hkgroup.com

Clean Fill Material originated on the following property:

Site Name: Walsh Construction Company - PA Turnpike NE Extension Expansion
 Street Address: NB211+00 - 219+00, SB17 City: _____ State: PA Zip Code: _____

Section 2: Site Characterization

Check the following that applies:

- A. IF the site of origin for the fill material has undergone or is undergoing cleanup or remediation pursuant to a local state or federal regulatory program that requires site characterization, provide the following information along with a copy of the entire site characterization and laboratory analysis for the material to be used as clean fill.

Name of local, state, or federal agency: _____

Identification number assigned to the project: _____

Name of the local, state, or federal contact person: _____

Telephone Number: _____ E-mail Address: _____

Name of the Laboratory that conducted the analysis: _____

Laboratory Accreditation Number: _____

- B. IF the material proposed to be used as clean fill has otherwise been subject to analytical testing or other procedure identified in the definition of "environmental due diligence" contained in the Management of Fill policy, provide or attach the following:

Copies of ALL lab analytical testing performed as part of environmental due diligence (see Management of Fill policy, #258-2182-773).

Name of the Laboratory that conducted the analysis: ALS Environmental - Analytical Laboratory Services, Inc.

Laboratory Accreditation Number: PA 22-293

C. IF the proposed material to be used as clean fill was subject to environmental due diligence procedures as defined in the Management of Fill policy other than those listed in A and B, describe those procedures.

I, the undersigned, certify under penalty of law (18 Pa. C.S.A. §4904) that the information provided in Sections 1 and 2 of this form is true and correct to the best of my knowledge, information and belief.

Signature: 

Section 3: Person Receiving or Placing Clean Fill

Name and address of person completing this form:

Name (Print): _____ Date: _____

Mailing Address: _____ City: _____ State: _____ Zip Code: _____

Telephone Number: _____ E-mail Address: _____

Fill material that has been determined to be clean fill will be placed on the following property solely for property improvement or construction purposes:

Property Address: _____ City: _____ State: _____ Zip Code: _____

Current Owner of Property: _____

Telephone Number: _____ E-mail Address: _____

The quantity of clean fill to be placed on the property is:

<3,000 cubic yards 3,000 cubic yards to 20,000 cubic yards >20,000 cubic yards

I, the undersigned, certify under penalty of law (18 Pa. C.S.A. §4904) that the information provided is true and correct to the best of my knowledge, information and belief.

Signature: _____

* * * * *

Prior to placement of the clean fill, the owner of the property receiving fill material shall provide a copy of this completed form and attachments to the DEP Regional Office serving the county in which the receiving site is located. If a property receives fill from multiple sources, a separate Form FP-001 is required for each source.

TABLES FP-1a & FP-1b				GRAB SAMPLE IDENTIFICATION AND RESULTS (mg/kg)																	
PROJECT SITE:	ALSI CAS Number	Clean Fill Total Analysis	Clean Fill Water Zone	H & K Sample ID: GRAB NB211+00-214+00		H & K Sample ID: GRAB NB214+00-217+00		H & K Sample ID: GRAB NB217+00-219+00		H & K Sample ID: GRAB SB-17-1		H & K Sample ID: GRAB SB-17-2		H & K Sample ID: GRAB SB-17-3							
NE PA TURNPIKE EXT (CLEAN FILL)				Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation				
PARAMETER:	(mg/kg)	(mg/kg)																			
PPL VOCS																					
ACETONE	67-64-1	41	4.1		0.136	Below W		0.121	Below W		0.153	Below W		0.131	Below W		0.783	Below W		0.0284	Below W
BENZENE	71-43-2	0.13	0.013	<	0.0013	Below W		0.0272	Above W	<	0.0013	Below W	<	0.0022	Below W		0.0102	Below W	<	0.0018	Below W
BROMOCHLOROMETHANE	74-97-5	1.6	0.16	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
BROMODICHLOROMETHANE	75-27-4	3.40	0.34	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
TRIBROMOMETHANE (BROMOFORM)	75-25-2	4.4	0.44	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
BROMOMETHANE	74-83-9	0.54	0.054	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
2-BUTANONE (METHYL ETHYL KETONE)	78-93-3	54	5.4		0.0142	Below W	<	0.009	Below W		0.0113	Below W	<	0.011	Below W		0.263	Below W	<	0.0091	Below W
CARBON DISULFIDE	75-15-0	160	16	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
CARBON TETRACHLORIDE	56-23-5	0.26	0.026	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
CHLOROBENZENE	108-90-7	6.1	0.61	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W		0.0134	Below W	<	0.0018	Below W
CHLORODIBROMOMETHANE	124-48-1	3.20	0.32	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
CHLOROETHANE	75-00-3	5.00	0.5	<	0.0032	Below W	<	0.0045	Below W	<	0.0032	Below W	<	0.0055	Below W	<	0.0038	Below W	<	0.0046	Below W
CHLOROFORM	67-66-3	2.50	0.25	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
METHYL CHLORIDE (CHLOROMETHANE)	74-87-3	0.002	0.002	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.0092	0.005	<	0.0032	Below W	<	0.0045	Below W	<	0.0032	Below W	<	0.0055	Below W	<	0.0038	Below W	<	0.0046	Below W
DIBROMOETHANE, 1,2-	106-93-4	0.002	0.002	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
DICHLOROETHANE, 1, 1-	75-34-3	0.65	0.065	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
DICHLOROETHANE, 1, 2-	107-06-2	0.10	0.01	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
DICHLOROETHYLENE, 1, 1-	75-35-4	0.19	0.019	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
DICHLOROETHYLENE, CIS-1, 2-*	156-59-2	1.6	0.16	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
DICHLOROETHYLENE, TRANS-1, 2-	156-60-5	2.3	0.23	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.076	0.0076	<	0.0013	Below W		0.0045	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
DICHLOROPROPANE, 1, 2-	78-87-5	0.11	0.011	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
DICHLOROPROPENE, CIS-1,3-	10061-01-5	NA	NA	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
DICHLOROPROPENE, TRANS-1,3-	10061-02-6	NA	NA	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
DICHLOROPROPENE, 1,3- (TOTAL)	542-75-6	0.12	0.012	<	0.0026	Below W	<	0.0036	Below W	<	0.0026	Below W	<	0.0044	Below W	<	0.003	Below W	<	0.0037	Below W
TETRACHLOROETHANE, 1, 1, 2, 2-	79-34-5	0.0093	0.005	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
TETRACHLOROETHYLENE (PCE)	127-18-4	0.43	0.043	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
TRICHLOROETHANE, 1, 1, 1-	71-55-6	7.20	0.72	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
TRICHLOROETHANE, 1, 1, 2-	79-00-5	0.15	0.015	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
TRICHLOROETHYLENE (TCE)	79-01-6	0.17	0.017	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W		0.0642	Above W	<	0.0015	Below W	<	0.0018	Below W
ETHYL BENZENE	100-41-4	46	4.6	<	0.0013	Below W		0.0732	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
2-HEXANONE	591-78-6	NA	NA	<	0.0064	Below W	<	0.009	Below W	<	0.0064	Below W	<	0.011	Below W	<	0.0075	Below W	<	0.0091	Below W
4-METHYL-2-PENTANONE (MIBK)	108-10-1	2.90	0.29	<	0.043	Below W	<	0.009	Below W	<	0.0064	Below W	<	0.011	Below W	<	0.0075	Below W	<	0.0091	Below W
STYRENE	100-42-5	24	2.4	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
PPL VOCS (Continued)																					
TOLUENE	108-88-3	44	4.4	<	0.0013	Below W		0.164	Below W	<	0.0013	Below W		0.0412	Below W		0.0085	Below W	<	0.0018	Below W
VINYL CHLORIDE	75-01-4	0.03	0.002	<	0.0013	Below W	<	0.0018	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
mp-XYLENE	108383/106423	NA	NA	<	0.0026	Below W		0.261	Below W	<	0.0026	Below W	<	0.0044	Below W	<	0.003	Below W	<	0.0037	Below W
o-XYLENE	95-47-6	NA	NA	<	0.0013	Below W		0.0684	Below W	<	0.0013	Below W	<	0.0022	Below W	<	0.0015	Below W	<	0.0018	Below W
TOTAL XYLENES	1330-20-7	990	99	<	0.0038	Below W		0.329	Below W	<	0.0039	Below W	<	0.0066	Below W	<	0.0045	Below W	<	0.0055	Below W
GRAB SAMPLES FINAL EVALUATION:				May place below the Water Table		May place above the Water Table		May place below the Water Table		May place above the Water Table		May place below the Water Table		May place below the Water Table							

TABLES FP-1a & FP-1b				COMPOSITE SAMPLE IDENTIFICATION AND RESULTS (mg/kg)											
PROJECT SITE:	ALSI CAS Number	Clean Fill Total Analysis	Clean Fill Water Zone	H & K Sample ID: COMP NB211+00-214+00		H & K Sample ID: COMP NB214+00-217+00		H & K Sample ID: COMP NB217+00-219+00		H & K Sample ID: COMP SB-17-1		H & K Sample ID: COMP SB-17-2		H & K Sample ID: COMP SB-17-3	
NE PA TURNPIKE EXT (CLEAN FILL)				ALS ID: 9926520006	ALS ID: 9926520004	ALS ID: 9926520002	ALS ID: 9926520008	ALS ID: 9926520010	ALS ID: 9926520012						
PARAMETER:	(mg/kg)	(mg/kg)	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation	
PPL SVOCs															
ACENAPHTHENE	83-32-9	2700	270	<	0.0553	Below W	<	0.0567	Below W	<	0.0555	Below W	<	0.0592	Below W
ACENAPHTHYLENE	208-96-8	2500	250	<	0.0553	Below W	<	0.0567	Below W	<	0.0937	Below W	<	0.0592	Below W
ANTHRACENE	120-12-7	350	35	<	0.0553	Below W	<	0.0567	Below W	<	0.0555	Below W	<	0.0592	Below W
BENZO[A]ANTHRACENE	56-55-3	25	2.5	<	0.0668	Below W	<	0.0567	Below W	<	0.263	Below W	<	0.0592	Below W
BENZO[A]PYRENE	50-32-8	2.5	0.25	<	0.0705	Below W	<	0.0567	Below W	<	0.373	Above W	<	0.0592	Below W
BENZO[B]FLUORANTHENE	205-99-2	25	2.5	<	0.125	Below W	<	0.067	Below W	<	0.342	Below W	<	0.0592	Below W
BENZO[GHI]PERYLENE	191-24-2	180	18	<	0.0553	Below W	<	0.0567	Below W	<	0.161	Below W	<	0.0592	Below W
BENZO[K]FLUORANTHENE	207-08-9	250	25	<	0.0553	Below W	<	0.0567	Below W	<	0.337	Below W	<	0.0592	Below W
BIS(2-CHLOROETHOXY)METHANE	111-91-1	NA	NA	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.100	0.100	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	8.00	0.8	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
BIS[2-ETHYLHEXYL]PHTHALATE	117-81-7	130	13	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
4-BROMOPHENYL-PHENYL ETHER	101-55-3	NA	NA	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
BUTYLBENZYL PHTHALATE	85-68-7	10000	1000	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
CARBAZOLE	86-74-8	21	2.1	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
CHLOROANILINE, 4-	106-47-8	19.00	1.9	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
4-CHLORO-3-METHYL PHENOL	59-50-7	37	3.7	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	NA	NA	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
CHLORONAPHTHALENE, 2-	91-58-7	6200	620	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
CHLOROPHENOL, 2-	95-57-8	4.40	0.44	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
CHRYSENE	218-01-9	230	23	<	0.0572	Below W	<	0.0567	Below W	<	0.296	Below W	<	0.0592	Below W
mp-CRESOL	108394/106445	NA	NA	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
o-CRESOL	95-48-7	64	6.4	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
DIBENZO[A,H]ANTHRACENE	53-70-3	2.50	0.25	<	0.0663	Below W	<	0.0681	Below W	<	0.0667	Below W	<	0.071	Below W
DIBENZOFURAN	132-64-9	NA	NA	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
DICHLOROBENZENE, 1, 2-	95-50-1	59	5.9	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
DICHLOROBENZENE, 1, 3-	541-73-1	61	6.1	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
DICHLOROBENZENE, P-	106-46-7	10	1	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
DICHLOROBENZIDINE, 3, 3'-	91-94-1	8.3	0.83	<	0.597	Below W	<	0.613	Below W	<	0.6	Below W	<	0.639	Below W
DICHLOROPHENOL, 2, 4-	120-83-2	1	0.270	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
DIETHYL PHTHALATE	84-66-2	160	16	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
DIMETHYLPHENOL, 2, 4-	105-67-9	32	3.2	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
DIMETHYL PHTHALATE	131-11-3	NA	NA	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
DI-N-BUTYLPHTHALATE, N-	84-74-2	1500	150	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
DINITROPHENOL, 2, 4-	51-28-5	0.540	0.540	<	0.597	Below W	<	0.613	Below W	<	0.6	Below W	<	0.639	Below W
PPL SVOCs (Continued)															
DINITROTOLUENE, 2, 4-	121-14-2	0.100	0.100	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
DINITROTOLUENE, 2, 6, - (2, 6-DNT)	606-20-2	1.10	0.110	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
OCTYL PHTHALATE, DI-N-	117-84-0	4400	440	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
FLUORANTHENE	206-44-0	3200	320	<	0.116	Below W	<	0.0578	Below W	<	0.378	Below W	<	0.0592	Below W
FLUORENE	86-73-7	3000	300	<	0.0553	Below W	<	0.0567	Below W	<	0.0555	Below W	<	0.0592	Below W
HEXACHLOROBENZENE	118-74-1	0.96	0.100	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
HEXACHLOROBUTADIENE	87-68-3	1.20	0.120	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
HEXACHLOROCYCLOPENTADIENE	77-47-4	91	9.1	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
HEXACHLOROETHANE	67-72-1	0.560	0.100	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
INDENO[1,2,3-CD]PYRENE	193-39-5	25	2.5	<	0.0553	Below W	<	0.0567	Below W	<	0.181	Below W	<	0.0592	Below W
ISOPHORONE	78-59-1	1.90	0.190	<	0.111	Below W	<	0.113	Below W	<	0.111	Below W	<	0.118	Below W
2-METHYL-4,6-DINITROPHENOL	534-52-1	NA	NA	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
METHYLNAPHTHALENE, 2-	91-57-6	2900	290	<	0.0553	Below W	<	0.0567	Below W	<	0.0555	Below W	<	0.0592	Below W
NAPHTHALENE*	91-20-3	25	2.5	<	0.0553	Below W	<	0.0567	Below W	<	0.0555	Below W	<	0.0592	Below W
NITROANILINE, 2-	88-74-4	0.270	0.270	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
NITROANILINE, 3-	99-09-2	0.270	0.270	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
NITROANILINE, 4-	100-01-6	0.270	0.270	<	0.299	Below W	<	0.306	Below W	<	0.3	Below W	<	0.32	Below W
NITROBENZENE	98-95-3	0.79	0.120	<	0.133	Below W	<	0.136	Below W	<	0.133	Below W	<	0.142	Below W

This information has been compiled and provided to assist in the review of the analytical results. Refer to the original laboratory Certificate of Analysis for official analytical results.

TABLES FP-1a & FP-1b				COMPOSITE SAMPLE IDENTIFICATION AND RESULTS (mg/kg)											
PROJECT SITE:	ALSI CAS Number	Clean Fill Total Analysis	Clean Fill Water Zone	H & K Sample ID: COMP NB211+00-214+00		H & K Sample ID: COMP NB214+00-217+00		H & K Sample ID: COMP NB217+00-219+00		H & K Sample ID: COMP SB-17-1		H & K Sample ID: COMP SB-17-2		H & K Sample ID: COMP SB-17-3	
NE PA TURNPIKE EXT (CLEAN FILL)				ALS ID: 9926520006	ALS ID: 9926520004	ALS ID: 9926520002	ALS ID: 9926520008	ALS ID: 9926520010	ALS ID: 9926520012						
PARAMETER:		(mg/kg)	(mg/kg)	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation
NITROPHENOL, 2-	88-75-5	5.90	0.590	< 0.299	Below W	< 0.306	Below W	< 0.3	Below W	< 0.32	Below W	< 0.31	Below W	< 0.314	Below W
NITROPHENOL, 4-	100-02-7	4.1	0.41	< 0.299	Below W	< 0.306	Below W	< 0.3	Below W	< 0.32	Below W	< 0.31	Below W	< 0.314	Below W
NITROSODI-N-PROPYLAMINE, N-	621-64-7	0.100	0.100	< 0.111	Below W	< 0.113	Below W	< 0.111	Below W	< 0.118	Below W	< 0.115	Below W	< 0.116	Below W
NITROSODIPHENYLAMINE, N-	86-30-6	20.00	2.000	< 0.111	Below W	< 0.113	Below W	< 0.111	Below W	< 0.118	Below W	< 0.115	Below W	< 0.116	Below W
PENTACHLOROPHENOL	87-86-5	5.00	0.540	< 0.597	Below W	< 0.613	Below W	< 0.6	Below W	< 0.639	Below W	< 0.621	Below W	< 0.628	Below W
PHENANTHRENE	85-01-8	10000	1000	< 0.0553	Below W	< 0.0567	Below W	0.0701	Below W	< 0.0592	Below W	< 0.0575	Below W	< 0.0581	Below W
PHENOL	108-95-2	66.00	6.6	< 0.299	Below W	< 0.306	Below W	< 0.3	Below W	< 0.32	Below W	< 0.31	Below W	< 0.314	Below W
PYRENE	129-00-0	2200	220	0.11	Below W	0.0653	Below W	0.408	Below W	< 0.0592	Below W	< 0.0575	Below W	< 0.0581	Below W
TRICHLOROBENZENE, 1, 2, 4-	120-82-1	27	2.7	< 0.111	Below W	< 0.113	Below W	< 0.111	Below W	< 0.118	Below W	< 0.115	Below W	< 0.116	Below W
TRICHLOROPHENOL, 2, 4, 5-	95-95-4	2300	230	< 0.299	Below W	< 0.306	Below W	< 0.3	Below W	< 0.32	Below W	< 0.31	Below W	< 0.314	Below W
TRICHLOROPHENOL, 2, 4, 6-	88-06-2	3.1	0.31	< 0.299	Below W	< 0.306	Below W	< 0.3	Below W	< 0.32	Below W	< 0.31	Below W	< 0.314	Below W
PPL HERBICIDES															
DICHLOROPHENOXYACETIC ACID, 2, 4- (2, 4-D)	94-75-7	1.8	0.18	< 0.0166	Below W	< 0.0168	Below W	< 0.0169	Below W	< 0.0181	Below W	< 0.0179	Below W	< 0.0178	Below W
2,4-DB	94-82-6	NA	NA	< 0.0166	Below W	< 0.0168	Below W	< 0.0169	Below W	< 0.0181	Below W	< 0.0179	Below W	< 0.0178	Below W
DICHLOROPROPIONIC ACID (DALAPON), 2,2-	75-99-0	5.30	0.530	< 0.0499	Below W	< 0.0504	Below W	< 0.0507	Below W	< 0.0543	Below W	< 0.0536	Below W	< 0.0533	Below W
DICAMBA	1918-00-9	NA	NA	< 0.0166	Below W	< 0.0168	Below W	< 0.0169	Below W	< 0.0181	Below W	< 0.0179	Below W	< 0.0178	Below W
DICHLOROPROP	120-36-5	NA	NA	< 0.0166	Below W	< 0.0168	Below W	< 0.0169	Below W	< 0.0181	Below W	< 0.0179	Below W	< 0.0178	Below W
PPL HERBICIDES (Continued)															
DINOSEB	88-85-7	0.290	0.0300	< 0.0333	Below W	< 0.0336	Below W	< 0.0338	Below W	< 0.0362	Below W	< 0.0357	Below W	< 0.0356	Below W
PENTACHLOROPHENOL	87-86-5	5.00	0.500												
TRICHLOROPHENOXYACETIC ACID 2, 4, 5- (2, 4, 5-T)	93-76-5	1.50	0.15	< 0.0166	Below W	< 0.0168	Below W	< 0.0169	Below W	< 0.0181	Below W	< 0.0179	Below W	< 0.0178	Below W
TRICHLOROPHENOXYPROPIONIC ACID,2,4,5-(2,4,5-TP)(SILV	93-72-1	22	2.2	< 0.0166	Below W	< 0.0168	Below W	< 0.0169	Below W	< 0.0181	Below W	< 0.0179	Below W	< 0.0178	Below W
PPL PESTICIDES															
ALDRIN	309-00-2	0.10	0.01	< 0.0188	Above W	< 0.0191	Above W	< 0.0019	Below W	< 0.002	Below W	< 0.002	Below W	< 0.0021	Below W
BHC, ALPHA-	319-84-6	0.046	0.0046	< 0.0188	Above W	< 0.0191	Above W	< 0.0019	Below W	< 0.002	Below W	< 0.002	Below W	< 0.0021	Below W
BHC, BETA-	319-85-7	0.22	0.022	< 0.0188	Below W	< 0.0191	Below W	< 0.0019	Below W	< 0.002	Below W	< 0.002	Below W	< 0.0021	Below W
BHC, DELTA-	319-86-8	11	1.1	< 0.0188	Below W	< 0.0191	Below W	< 0.0019	Below W	< 0.002	Below W	< 0.002	Below W	< 0.0021	Below W
BHC, GAMMA (LINDANE)	58-89-9	0.072	0.0072	< 0.0188	Above W	< 0.0191	Above W	< 0.0019	Below W	< 0.002	Below W	< 0.002	Below W	< 0.0021	Below W
CHLORDANE (ALPHA)	5103-71-9	49	4.9	< 0.0188	Below W	< 0.0191	Below W	< 0.0019	Below W	< 0.002	Below W	< 0.002	Below W	< 0.0021	Below W
CHLORDANE (GAMMA)	5103-74-2	49	4.9	< 0.0188	Below W	< 0.0191	Below W	< 0.0019	Below W	< 0.002	Below W	< 0.002	Below W	< 0.0021	Below W
DDD, 4, 4'-	72-54-8	6.8	0.68	< 0.0365	Below W	< 0.0371	Below W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
DDE, 4, 4'-	72-55-9	41	4.1	< 0.0365	Below W	< 0.0371	Below W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
DDT, 4, 4'-	50-29-3	53	5.3	< 0.0365	Below W	< 0.0371	Below W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
DIELDRIN	60-57-1	0.11	0.011	< 0.0365	Above W	< 0.0371	Above W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
ENDOSULFAN I (ALPHA)	959-98-8	110	11	< 0.0188	Below W	< 0.0191	Below W	< 0.0019	Below W	< 0.002	Below W	< 0.002	Below W	< 0.0021	Below W
ENDOSULFAN II (BETA)	33213-65-9	130	13	< 0.0365	Below W	< 0.0371	Below W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
ENDOSULFAN SULFATE	1031-07-8	70	7	< 0.0365	Below W	< 0.0371	Below W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
ENDRIN	72-20-8	5.5	0.55	< 0.0365	Below W	< 0.0371	Below W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
ENDRIN ALDEHYDE	7421-93-4	NA	NA	< 0.0365	Below W	< 0.0371	Below W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
ENDRIN KETONE	53494-70-5	NA	NA	< 0.0365	Below W	< 0.0371	Below W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
HEPTACHLOR	76-44-8	0.68	0.068	< 0.0188	Below W	< 0.0191	Below W	< 0.0019	Below W	< 0.002	Below W	< 0.002	Below W	< 0.0021	Below W
HEPTACHLOR EPOXIDE	1024-57-3	1.1	0.11	< 0.0188	Below W	< 0.0191	Below W	< 0.0019	Below W	< 0.002	Below W	< 0.002	Below W	< 0.0021	Below W
METHOXYCHLOR	72-43-5	630	63	< 0.0365	Below W	< 0.0371	Below W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
MIREX	2385-85-5	NA	NA	< 0.0365	Below W	< 0.0371	Below W	< 0.0037	Below W	< 0.004	Below W	< 0.0039	Below W	< 0.004	Below W
TOXAPHENE	8001-35-2	1.20	0.12	< 0.774	Below W	< 0.786	Below W	< 0.0791	Below W	< 0.084	Below W	< 0.0834	Below W	< 0.0849	Below W
PCBs															
PCB-1016 (AROCLOR)	12674-11-2	15	1.5	< 0.036	Below W	< 0.037	Below W	< 0.037	Below W	< 0.04	Below W	< 0.039	Below W	< 0.04	Below W
PCB-1221 (AROCLOR)	11104-28-2	0.63	0.063	< 0.036	Below W	< 0.037	Below W	< 0.037	Below W	< 0.04	Below W	< 0.039	Below W	< 0.04	Below W
PCB-1232 (AROCLOR)	11141-16-5	0.50	0.050	< 0.036	Below W	< 0.037	Below W	< 0.037	Below W	< 0.04	Below W	< 0.039	Below W	< 0.04	Below W
PCB-1242 (AROCLOR)	53469-21-9	16	1.6	< 0.036	Below W	< 0.037	Below W	< 0.037	Below W	< 0.04	Below W	< 0.039	Below W	< 0.04	Below W
PCB-1248 (AROCLOR)	12672-29-6	9.90	0.990	< 0.036	Below W	< 0.037	Below W	< 0.037	Below W	< 0.04	Below W	< 0.039	Below W	< 0.04	Below W
PCB-1254 (AROCLOR)	11097-69-1	4.40	0.440	< 0.036	Below W	< 0.037	Below W	< 0.037	Below W	< 0.04	Below W	< 0.039	Below W	< 0.04	Below W
PCB-1260 (AROCLOR)	11096-82-5	30	3.0	< 0.036	Below W	< 0.037	Below W	< 0.037	Below W	< 0.04	Below W	< 0.039	Below W	< 0.04	Below W
PCBs (Continued)															
TOTAL POLYCHLORINATED BIPHENYLS	TOTALPCBS	NA	NA	< 0.036	Below W	< 0.037	Below W	< 0.037	Below W	< 0.04	Below W	< 0.039	Below W	< 0.04	Below W

This information has been compiled and provided to assist in the review of the analytical results. Refer to the original laboratory Certificate of Analysis for official analytical results.

TABLES FP-1a & FP-1b				COMPOSITE SAMPLE IDENTIFICATION AND RESULTS (mg/kg)															
PROJECT SITE:		ALSI CAS Number	Clean Fill Total Analysis	Clean Fill Water Zone	H & K Sample ID: COMP NB211+00-214+00		H & K Sample ID: COMP NB214+00-217+00		H & K Sample ID: COMP NB217+00-219+00		H & K Sample ID: COMP SB-17-1		H & K Sample ID: COMP SB-17-2		H & K Sample ID: COMP SB-17-3				
NE PA TURNPIKE EXT (CLEAN FILL)					ALS ID: 9926520006		ALS ID: 9926520004		ALS ID: 9926520002		ALS ID: 9926520008		ALS ID: 9926520010		ALS ID: 9926520012				
PARAMETER:			(mg/kg)	(mg/kg)	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation	Result	Evaluation			
RCRA METALS																			
ARSENIC	7440-38-2	12	5	<	2.2	Below W	<	2	Below W	<	2	Below W	4.4	Below W	5.9	Above W	5	Below W	
BARIUM	7440-39-3	8200	820		331	Below W	<	201	Below W	<	278	Below W	75.7	Below W	107	Below W	61.4	Below W	
CADMIUM	7440-43-9	38	3.8	<	0.56	Below W	<	0.5	Below W	<	0.5	Below W	0.56	Below W	<	0.5	Below W	0.58	Below W
CHROMIUM (TOTAL)	7440-47-3	190000	19000		8.1	Below W		5.4	Below W		3.5	Below W	23.7	Below W	22.3	Below W	19.9	Below W	
LEAD	7439-92-1	450	45		7.3	Below W		8.3	Below W		9.4	Below W	8.5	Below W	7.8	Below W	10.8	Below W	
MERCURY	7439-97-6	10	1	<	0.19	Below W	<	0.23	Below W	<	0.21	Below W	0.22	Below W	<	0.2	Below W	0.22	Below W
SELENIUM	7782-49-2	26	2.6	<	1.9	Below W	<	1.7	Below W	<	1.7	Below W	1.9	Below W	<	1.7	Below W	1.9	Below W
SILVER	7440-22-4	84	8.4	<	0.56	Below W	<	0.5	Below W	<	0.5	Below W	0.56	Below W	<	0.5	Below W	0.58	Below W
COMPOSITE SAMPLES FINAL EVALUATION:				May place above the Water Table		May place above the Water Table		May place above the Water Table		May place below the Water Table		May place above the Water Table		May place below the Water Table					

September 30, 2011

Mr. Andrew Curtis
Haines & Kibblehouse Inc.
2052 Lucon Road
P.O. Box 196
Skipack, PA 19474

Certificate of Analysis

Project Name:	NE PA TURNPIKE EXT (CLEAN	Workorder:	9926520
Purchase Order:		Workorder ID:	NE PA TURNPIKE EXT (CLEAN FILL

Dear Mr. Curtis,

Enclosed are the analytical results for samples received by the laboratory on Wednesday, September 14, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticalab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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CC: Ms. Sharon Colletti, H&K RCA Access

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Anna G Milliken
Technical Manager

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SAMPLE SUMMARY

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Discard Date: 10/14/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9926520001	Grab NB217+00-219+00	Solid	9/13/11 12:25	9/14/11 19:40	Customer
9926520002	Comp NB217+00-219+00	Solid	9/13/11 12:25	9/14/11 19:40	Customer
9926520003	Grab NB214+00-217+00	Solid	9/13/11 12:50	9/14/11 19:40	Customer
9926520004	Comp NB214+00-217+00	Solid	9/13/11 12:50	9/14/11 19:40	Customer
9926520005	Grab NB211+00-214+00	Solid	9/13/11 13:10	9/14/11 19:40	Customer
9926520006	Comp NB211+00-214+00	Solid	9/13/11 13:10	9/14/11 19:40	Customer
9926520007	Grab SB-17-1	Solid	9/13/11 15:00	9/14/11 19:40	Customer
9926520008	Comp SB-17-1	Solid	9/13/11 15:00	9/14/11 19:40	Customer
9926520009	Grab SB-17-2	Solid	9/13/11 15:15	9/14/11 19:40	Customer
9926520010	Comp SB-17-2	Solid	9/13/11 15:15	9/14/11 19:40	Customer
9926520011	Grab SB-17-3	Solid	9/13/11 15:30	9/14/11 19:40	Customer
9926520012	Comp SB-17-3	Solid	9/13/11 15:30	9/14/11 19:40	Customer

Workorder Comments:

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 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Discard Date: 10/14/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
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Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

- J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected - indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference

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Vancouver Waterloo · Winnipeg · Yellowknife
United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York
Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520001**

Date Collected: 9/13/2011 12:25

Matrix: Solid

Sample ID: **Grab NB217+00-219+00**

Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	153	1	ug/kg	6.4	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Benzene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Bromochloromethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Bromodichloromethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Bromoform	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Bromomethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
2-Butanone	11.3		ug/kg	6.4	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Carbon Disulfide	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Carbon Tetrachloride	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Chlorobenzene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Chlorodibromomethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Chloroethane	ND		ug/kg	3.2	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Chloroform	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Chloromethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
1,2-Dibromoethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
1,1-Dichloroethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
1,2-Dichloroethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
1,1-Dichloroethene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
cis-1,2-Dichloroethene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
trans-1,2-Dichloroethene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
1,2-Dichloropropane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
cis-1,3-Dichloropropene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
trans-1,3-Dichloropropene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
1,3-Dichloropropene, Total	ND		ug/kg	2.6	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Ethylbenzene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
2-Hexanone	ND		ug/kg	6.4	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	6.4	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Methylene Chloride	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Styrene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Tetrachloroethene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Toluene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Total Xylenes	ND		ug/kg	3.9	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
1,1,1-Trichloroethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
1,1,2-Trichloroethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Trichloroethene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Vinyl Chloride	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
o-Xylene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520001**

Date Collected: 9/13/2011 12:25

Matrix: Solid

Sample ID: **Grab NB217+00-219+00**

Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
mp-Xylene	ND		ug/kg	2.6	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.3		%	56-124	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
4-Bromofluorobenzene (S)	104		%	51-128	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Dibromofluoromethane (S)	92.7		%	62-123	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A
Toluene-d8 (S)	99.8		%	59-131	8260/5035	9/13/11	TMP	9/20/11 13:22	MES	A

WET CHEMISTRY

Moisture	11.6		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A
Total Solids	88.4		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A

Sample Comments:


Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520002**

Date Collected: 9/13/2011 12:25

Matrix: Solid

Sample ID: **Comp NB217+00-219+00**

Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Hexachlorobutadiene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Hexachlorocyclopentadiene	ND		ug/kg	300	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Hexachloroethane	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Indeno(1,2,3-cd)pyrene	181		ug/kg	55.5	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Isophorone	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
2-Methyl-4,6-dinitrophenol	ND		ug/kg	300	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
2-Methylnaphthalene	ND		ug/kg	55.5	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Naphthalene	ND		ug/kg	55.5	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
2-Nitroaniline	ND		ug/kg	300	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
3-Nitroaniline	ND		ug/kg	300	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
4-Nitroaniline	ND		ug/kg	300	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Nitrobenzene	ND		ug/kg	133	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
2-Nitrophenol	ND		ug/kg	300	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
4-Nitrophenol	ND		ug/kg	300	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
N-Nitroso-di-n-propylamine	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
N-Nitrosodiphenylamine	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Pentachlorophenol	ND		ug/kg	600	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Phenanthrene	70.1		ug/kg	55.5	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Phenol	ND		ug/kg	300	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Pyrene	408		ug/kg	55.5	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
1,2,4-Trichlorobenzene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
2,4,5-Trichlorophenol	ND		ug/kg	300	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
2,4,6-Trichlorophenol	ND		ug/kg	300	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	68		%	37-123	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
2-Fluorobiphenyl (S)	66.2		%	45-105	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
2-Fluorophenol (S)	67.4		%	35-104	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Nitrobenzene-d5 (S)	65.7		%	41-110	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Phenol-d5 (S)	65.2		%	40-100	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
Terphenyl-d14 (S)	75.8		%	38-113	SW846 8270D	9/23/11	MDO	9/28/11 19:48	SAS	A7
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:16	JJH	A5
Aroclor-1016	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:16	JJH	A5
Aroclor-1221	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:16	JJH	A5
Aroclor-1232	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:16	JJH	A5
Aroclor-1242	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:16	JJH	A5
Aroclor-1248	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:16	JJH	A5
Aroclor-1254	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:16	JJH	A5

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: 9926520002 **Date Collected:** 9/13/2011 12:25 **Matrix:** Solid
Sample ID: Comp NB217+00-219+00 **Date Received:** 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1260	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:16	JJH	A5
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	62.4		%	46-120	SW846 8082A	9/16/11	MDO	9/19/11 16:16	JJH	A5
Tetrachloro-m-xylene (S)	81.7		%	52-115	SW846 8082A	9/16/11	MDO	9/19/11 16:16	JJH	A5

PESTICIDES

Aldrin	ND		ug/kg	1.9	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
alpha-BHC	ND		ug/kg	1.9	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
beta-BHC	ND		ug/kg	1.9	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
delta-BHC	ND		ug/kg	1.9	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
gamma-BHC	ND		ug/kg	1.9	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
alpha-Chlordane	ND		ug/kg	1.9	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
gamma-Chlordane	ND		ug/kg	1.9	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
4,4'-DDD	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
4,4'-DDE	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
4,4'-DDT	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Dieldrin	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Endosulfan I	ND		ug/kg	1.9	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Endosulfan II	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Endosulfan Sulfate	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Endrin	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Endrin Aldehyde	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Endrin Ketone	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Heptachlor	ND		ug/kg	1.9	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Heptachlor Epoxide	ND		ug/kg	1.9	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Methoxychlor	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Mirex	ND		ug/kg	3.7	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Toxaphene	ND		ug/kg	79.1	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	103		%	30-117	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3
Tetrachloro-m-xylene (S)	86		%	30-89	SW846 8081B	9/16/11	CJG	9/19/11 18:59	KJH	A3

HERBICIDES

2,4-D	ND		ug/kg	16.9	SW846 8151A	9/15/11	MDO	9/23/11 00:34	JLH	A1
2,4-DB	ND		ug/kg	16.9	SW846 8151A	9/15/11	MDO	9/23/11 00:34	JLH	A1
Dalapon	ND		ug/kg	50.7	SW846 8151A	9/15/11	MDO	9/23/11 00:34	JLH	A1
Dicamba	ND		ug/kg	16.9	SW846 8151A	9/15/11	MDO	9/23/11 00:34	JLH	A1
Dichloroprop	ND		ug/kg	16.9	SW846 8151A	9/15/11	MDO	9/23/11 00:34	JLH	A1
Dinoseb	ND		ug/kg	33.8	SW846 8151A	9/15/11	MDO	9/23/11 00:34	JLH	A1

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520002**
Sample ID: **Comp NB217+00-219+00**

Date Collected: 9/13/2011 12:25 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,5-T	ND		ug/kg	16.9	SW846 8151A	9/15/11	MDO	9/23/11 00:34	JLH	A1
2,4,5-TP	ND		ug/kg	16.9	SW846 8151A	9/15/11	MDO	9/23/11 00:34	JLH	A1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	82.3		%	77-139	SW846 8151A	9/15/11	MDO	9/23/11 00:34	JLH	A1

WET CHEMISTRY

Moisture	11.5		%	0.1	SM20-2540 G			9/17/11 10:50	KAK	A
Total Solids	88.5		%	0.1	SM20-2540 G			9/17/11 10:50	KAK	A

METALS

Arsenic, Total	ND		mg/kg	2.0	SW846 6010C	9/15/11	KMK	9/16/11 03:12	SRT	A2
Barium, Total	278		mg/kg	1.0	SW846 6010C	9/15/11	KMK	9/16/11 03:12	SRT	A2
Cadmium, Total	ND		mg/kg	0.50	SW846 6010C	9/15/11	KMK	9/16/11 03:12	SRT	A2
Chromium, Total	3.5		mg/kg	1.0	SW846 6010C	9/15/11	KMK	9/16/11 03:12	SRT	A2
Lead, Total	9.4		mg/kg	2.0	SW846 6010C	9/15/11	KMK	9/16/11 03:12	SRT	A2
Mercury, Total	ND		mg/kg	0.21	SW846 7471B	9/20/11	MNP	9/20/11 14:09	MNP	A6
Selenium, Total	ND		mg/kg	1.7	SW846 6010C	9/15/11	KMK	9/16/11 03:12	SRT	A2
Silver, Total	ND		mg/kg	0.50	SW846 6010C	9/15/11	KMK	9/16/11 03:12	SRT	A2

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520003**
Sample ID: **Grab NB214+00-217+00**

Date Collected: 9/13/2011 12:50 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	121		ug/kg	9.0	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Benzene	27.2		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Bromochloromethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Bromodichloromethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Bromoform	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Bromomethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
2-Butanone	ND		ug/kg	9.0	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Carbon Disulfide	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Carbon Tetrachloride	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Chlorobenzene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Chlorodibromomethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Chloroethane	ND		ug/kg	4.5	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Chloroform	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Chloromethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
1,2-Dibromoethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
1,1-Dichloroethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
1,2-Dichloroethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
1,1-Dichloroethene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
cis-1,2-Dichloroethene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
trans-1,2-Dichloroethene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
1,2-Dichloropropane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
cis-1,3-Dichloropropene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
trans-1,3-Dichloropropene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
1,3-Dichloropropene, Total	ND		ug/kg	3.6	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Ethylbenzene	73.2		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
2-Hexanone	ND		ug/kg	9.0	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	9.0	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Methylene Chloride	4.5		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Styrene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Tetrachloroethene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Toluene	164		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Total Xylenes	329		ug/kg	5.4	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
1,1,1-Trichloroethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
1,1,2-Trichloroethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Trichloroethene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Vinyl Chloride	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
o-Xylene	68.4		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520003**

Date Collected: 9/13/2011 12:50

Matrix: Solid

Sample ID: **Grab NB214+00-217+00**

Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
mp-Xylene	261		ug/kg	3.6	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	91.7		%	56-124	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
4-Bromofluorobenzene (S)	98.6		%	51-128	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Dibromofluoromethane (S)	92.8		%	62-123	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A
Toluene-d8 (S)	99.8		%	59-131	8260/5035	9/13/11	TMP	9/20/11 13:45	MES	A

WET CHEMISTRY

Moisture	22.3		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A
Total Solids	77.7		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A

Sample Comments:



Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520004**
Sample ID: **Comp NB214+00-217+00**

Date Collected: 9/13/2011 12:50 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Acenaphthylene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Anthracene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Benzo(a)anthracene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Benzo(a)pyrene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Benzo(b)fluoranthene	67.0		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Benzo(g,h,i)perylene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Benzo(k)fluoranthene	ND	2	ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
4-Bromophenyl-phenylether	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Butylbenzylphthalate	ND	3	ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Carbazole	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
4-Chloro-3-methylphenol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
4-Chloroaniline	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
bis(2-Chloroethoxy)methane	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
bis(2-Chloroethyl)ether	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
bis(2-Chloroisopropyl)ether	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2-Chloronaphthalene	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2-Chlorophenol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
4-Chlorophenyl-phenylether	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Chrysene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
mp-Cresol	ND	4	ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
o-Cresol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Di-n-Butylphthalate	ND	5	ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Di-n-Octylphthalate	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Dibenzo(a,h)anthracene	ND	6	ug/kg	68.1	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Dibenzofuran	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
1,2-Dichlorobenzene	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
1,3-Dichlorobenzene	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
1,4-Dichlorobenzene	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
3,3-Dichlorobenzidine	ND		ug/kg	613	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2,4-Dichlorophenol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Diethylphthalate	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2,4-Dimethylphenol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Dimethylphthalate	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2,4-Dinitrophenol	ND		ug/kg	613	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2,4-Dinitrotoluene	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2,6-Dinitrotoluene	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
bis(2-Ethylhexyl)phthalate	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Fluoranthene	57.8		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Fluorene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520004**

Date Collected: 9/13/2011 12:50

Matrix: Solid

Sample ID: **Comp NB214+00-217+00**

Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Hexachlorobutadiene	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Hexachlorocyclopentadiene	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Hexachloroethane	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Indeno(1,2,3-cd)pyrene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Isophorone	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2-Methyl-4,6-dinitrophenol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2-Methylnaphthalene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Naphthalene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2-Nitroaniline	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
3-Nitroaniline	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
4-Nitroaniline	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Nitrobenzene	ND		ug/kg	136	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2-Nitrophenol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
4-Nitrophenol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
N-Nitroso-di-n-propylamine	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
N-Nitrosodiphenylamine	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Pentachlorophenol	ND		ug/kg	613	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Phenanthrene	ND		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Phenol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Pyrene	65.3		ug/kg	56.7	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
1,2,4-Trichlorobenzene	ND		ug/kg	113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2,4,5-Trichlorophenol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2,4,6-Trichlorophenol	ND		ug/kg	306	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	80		%	37-123	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2-Fluorobiphenyl (S)	64		%	45-105	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
2-Fluorophenol (S)	82.9		%	35-104	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Nitrobenzene-d5 (S)	85.5		%	41-110	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Phenol-d5 (S)	90.1		%	40-100	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7
Terphenyl-d14 (S)	100		%	38-113	SW846 8270D	9/23/11	MDO	9/27/11 04:43	CGS	A7

PCBs

Total Polychlorinated Biphenyl	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:31	JJH	A4
Aroclor-1016	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:31	JJH	A4
Aroclor-1221	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:31	JJH	A4
Aroclor-1232	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:31	JJH	A4
Aroclor-1242	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:31	JJH	A4
Aroclor-1248	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:31	JJH	A4
Aroclor-1254	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:31	JJH	A4

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520004**

Date Collected: 9/13/2011 12:50

Matrix: Solid

Sample ID: **Comp NB214+00-217+00**

Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1260	ND		mg/kg	0.037	SW846 8082A	9/16/11	MDO	9/19/11 16:31	JJH	A4
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	67.3		%	46-120	SW846 8082A	9/16/11	MDO	9/19/11 16:31	JJH	A4
Tetrachloro-m-xylene (S)	88.2		%	52-115	SW846 8082A	9/16/11	MDO	9/19/11 16:31	JJH	A4

PESTICIDES

Aldrin	ND		ug/kg	19.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
alpha-BHC	ND		ug/kg	19.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
beta-BHC	ND		ug/kg	19.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
delta-BHC	ND		ug/kg	19.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
gamma-BHC	ND		ug/kg	19.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
alpha-Chlordane	ND		ug/kg	19.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
gamma-Chlordane	ND		ug/kg	19.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
4,4'-DDD	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
4,4'-DDE	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
4,4'-DDT	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Dieldrin	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Endosulfan I	ND		ug/kg	19.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Endosulfan II	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Endosulfan Sulfate	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Endrin	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Endrin Aldehyde	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Endrin Ketone	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Heptachlor	ND		ug/kg	19.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Heptachlor Epoxide	ND		ug/kg	19.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Methoxychlor	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Mirex	ND		ug/kg	37.1	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Toxaphene	ND		ug/kg	786	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	98.6		%	30-117	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3
Tetrachloro-m-xylene (S)	91.2	7	%	30-89	SW846 8081B	9/16/11	CJG	9/20/11 06:26	KJH	A3

HERBICIDES

2,4-D	ND		ug/kg	16.8	SW846 8151A	9/15/11	MDO	9/23/11 16:44	JLH	A1
2,4-DB	ND		ug/kg	16.8	SW846 8151A	9/15/11	MDO	9/23/11 16:44	JLH	A1
Dalapon	ND		ug/kg	50.4	SW846 8151A	9/15/11	MDO	9/23/11 16:44	JLH	A1
Dicamba	ND		ug/kg	16.8	SW846 8151A	9/15/11	MDO	9/23/11 16:44	JLH	A1
Dichloroprop	ND		ug/kg	16.8	SW846 8151A	9/15/11	MDO	9/23/11 16:44	JLH	A1
Dinoseb	ND		ug/kg	33.6	SW846 8151A	9/15/11	MDO	9/23/11 16:44	JLH	A1

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520004**

Date Collected: 9/13/2011 12:50

Matrix: Solid

Sample ID: **Comp NB214+00-217+00**

Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,5-T	ND		ug/kg	16.8	SW846 8151A	9/15/11	MDO	9/23/11 16:44	JLH	A1
2,4,5-TP	ND		ug/kg	16.8	SW846 8151A	9/15/11	MDO	9/23/11 16:44	JLH	A1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	126		%	77-139	SW846 8151A	9/15/11	MDO	9/23/11 16:44	JLH	A1

WET CHEMISTRY

Moisture	12.1		%	0.1	SM20-2540 G			9/17/11 10:50	KAK	A
Total Solids	87.9		%	0.1	SM20-2540 G			9/17/11 10:50	KAK	A

METALS

Arsenic, Total	ND		mg/kg	2.0	SW846 6010C	9/15/11	KMK	9/16/11 03:16	SRT	A2
Barium, Total	201		mg/kg	1.0	SW846 6010C	9/15/11	KMK	9/16/11 03:16	SRT	A2
Cadmium, Total	ND		mg/kg	0.50	SW846 6010C	9/15/11	KMK	9/16/11 03:16	SRT	A2
Chromium, Total	5.4		mg/kg	1.0	SW846 6010C	9/15/11	KMK	9/16/11 03:16	SRT	A2
Lead, Total	8.3		mg/kg	2.0	SW846 6010C	9/15/11	KMK	9/16/11 03:16	SRT	A2
Mercury, Total	ND		mg/kg	0.23	SW846 7471B	9/20/11	MNP	9/20/11 14:10	MNP	A6
Selenium, Total	ND		mg/kg	1.7	SW846 6010C	9/15/11	KMK	9/16/11 03:16	SRT	A2
Silver, Total	ND		mg/kg	0.50	SW846 6010C	9/15/11	KMK	9/16/11 03:16	SRT	A2

Sample Comments:

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.



Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520005** Date Collected: 9/13/2011 13:10 Matrix: Solid
Sample ID: **Grab NB211+00-214+00** Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	136		ug/kg	6.4	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Benzene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Bromochloromethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Bromodichloromethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Bromoform	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Bromomethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
2-Butanone	14.2		ug/kg	6.4	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Carbon Disulfide	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Carbon Tetrachloride	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Chlorobenzene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Chlorodibromomethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Chloroethane	ND		ug/kg	3.2	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Chloroform	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Chloromethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
1,2-Dibromoethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
1,1-Dichloroethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
1,2-Dichloroethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
1,1-Dichloroethene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
cis-1,2-Dichloroethene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
trans-1,2-Dichloroethene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
1,2-Dichloropropane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
cis-1,3-Dichloropropene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
trans-1,3-Dichloropropene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
1,3-Dichloropropene, Total	ND		ug/kg	2.6	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Ethylbenzene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
2-Hexanone	ND		ug/kg	6.4	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
4-Methyl-2-Pentanone(MIBK)	43.0		ug/kg	6.4	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Methylene Chloride	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Styrene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Tetrachloroethene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Toluene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Total Xylenes	ND		ug/kg	3.8	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
1,1,1-Trichloroethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
1,1,2-Trichloroethane	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Trichloroethene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Vinyl Chloride	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
o-Xylene	ND		ug/kg	1.3	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520005**

Date Collected: 9/13/2011 13:10

Matrix: Solid

Sample ID: **Grab NB211+00-214+00**

Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
mp-Xylene	ND		ug/kg	2.6	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.5		%	56-124	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
4-Bromofluorobenzene (S)	113		%	51-128	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Dibromofluoromethane (S)	94.6		%	62-123	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A
Toluene-d8 (S)	101		%	59-131	8260/5035	9/13/11	TMP	9/20/11 14:08	MES	A

WET CHEMISTRY

Moisture	8.7		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A
Total Solids	91.3		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A

Sample Comments:


Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520006** Date Collected: 9/13/2011 13:10 Matrix: Solid
Sample ID: **Comp NB211+00-214+00** Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Acenaphthylene	ND		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Anthracene	ND		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Benzo(a)anthracene	66.8		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Benzo(a)pyrene	70.5		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Benzo(b)fluoranthene	125		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Benzo(g,h,i)perylene	ND		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Benzo(k)fluoranthene	ND	2	ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
4-Bromophenyl-phenylether	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Butylbenzylphthalate	ND	3	ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Carbazole	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
4-Chloro-3-methylphenol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
4-Chloroaniline	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
bis(2-Chloroethoxy)methane	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
bis(2-Chloroethyl)ether	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
bis(2-Chloroisopropyl)ether	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2-Chloronaphthalene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2-Chlorophenol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
4-Chlorophenyl-phenylether	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Chrysene	57.2		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
mp-Cresol	ND	4	ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
o-Cresol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Di-n-Butylphthalate	ND	5	ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Di-n-Octylphthalate	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Dibenzo(a,h)anthracene	ND	6	ug/kg	66.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Dibenzofuran	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
1,2-Dichlorobenzene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
1,3-Dichlorobenzene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
1,4-Dichlorobenzene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
3,3-Dichlorobenzidine	ND		ug/kg	597	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2,4-Dichlorophenol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Diethylphthalate	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2,4-Dimethylphenol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Dimethylphthalate	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2,4-Dinitrophenol	ND		ug/kg	597	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2,4-Dinitrotoluene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2,6-Dinitrotoluene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
bis(2-Ethylhexyl)phthalate	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Fluoranthene	116		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Fluorene	ND		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520006**
Sample ID: **Comp NB211+00-214+00**

Date Collected: 9/13/2011 13:10 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Hexachlorobutadiene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Hexachlorocyclopentadiene	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Hexachloroethane	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Indeno(1,2,3-cd)pyrene	ND		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Isophorone	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2-Methyl-4,6-dinitrophenol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2-Methylnaphthalene	ND		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Naphthalene	ND		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2-Nitroaniline	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
3-Nitroaniline	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
4-Nitroaniline	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Nitrobenzene	ND		ug/kg	133	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2-Nitrophenol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
4-Nitrophenol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
N-Nitroso-di-n-propylamine	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
N-Nitrosodiphenylamine	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Pentachlorophenol	ND		ug/kg	597	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Phenanthrene	ND		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Phenol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Pyrene	110		ug/kg	55.3	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
1,2,4-Trichlorobenzene	ND		ug/kg	111	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2,4,5-Trichlorophenol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2,4,6-Trichlorophenol	ND		ug/kg	299	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	72.9		%	37-123	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2-Fluorobiphenyl (S)	62.2		%	45-105	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
2-Fluorophenol (S)	80.3		%	35-104	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Nitrobenzene-d5 (S)	76.9		%	41-110	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Phenol-d5 (S)	87.7		%	40-100	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
Terphenyl-d14 (S)	93.4		%	38-113	SW846 8270D	9/23/11	MDO	9/27/11 05:15	CGS	A8
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.036	SW846 8082A	9/16/11	MDO	9/19/11 17:01	JJH	A5
Aroclor-1016	ND		mg/kg	0.036	SW846 8082A	9/16/11	MDO	9/19/11 17:01	JJH	A5
Aroclor-1221	ND		mg/kg	0.036	SW846 8082A	9/16/11	MDO	9/19/11 17:01	JJH	A5
Aroclor-1232	ND		mg/kg	0.036	SW846 8082A	9/16/11	MDO	9/19/11 17:01	JJH	A5
Aroclor-1242	ND		mg/kg	0.036	SW846 8082A	9/16/11	MDO	9/19/11 17:01	JJH	A5
Aroclor-1248	ND		mg/kg	0.036	SW846 8082A	9/16/11	MDO	9/19/11 17:01	JJH	A5
Aroclor-1254	ND		mg/kg	0.036	SW846 8082A	9/16/11	MDO	9/19/11 17:01	JJH	A5

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520006**

Date Collected: 9/13/2011 13:10

Matrix: Solid

Sample ID: **Comp NB211+00-214+00**

Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1260	ND		mg/kg	0.036	SW846 8082A	9/16/11	MDO	9/19/11 17:01	JJH	A5
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	64		%	46-120	SW846 8082A	9/16/11	MDO	9/19/11 17:01	JJH	A5
Tetrachloro-m-xylene (S)	83.5		%	52-115	SW846 8082A	9/16/11	MDO	9/19/11 17:01	JJH	A5

PESTICIDES

Aldrin	ND		ug/kg	18.8	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
alpha-BHC	ND		ug/kg	18.8	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
beta-BHC	ND		ug/kg	18.8	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
delta-BHC	ND		ug/kg	18.8	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
gamma-BHC	ND		ug/kg	18.8	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
alpha-Chlordane	ND		ug/kg	18.8	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
gamma-Chlordane	ND		ug/kg	18.8	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
4,4'-DDD	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
4,4'-DDE	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
4,4'-DDT	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Dieldrin	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Endosulfan I	ND		ug/kg	18.8	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Endosulfan II	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Endosulfan Sulfate	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Endrin	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Endrin Aldehyde	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Endrin Ketone	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Heptachlor	ND		ug/kg	18.8	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Heptachlor Epoxide	ND		ug/kg	18.8	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Methoxychlor	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Mirex	ND		ug/kg	36.5	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Toxaphene	ND		ug/kg	774	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	99.7		%	30-117	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3
Tetrachloro-m-xylene (S)	87.1		%	30-89	SW846 8081B	9/16/11	CJG	9/20/11 05:26	KJH	A3

HERBICIDES

2,4-D	ND		ug/kg	16.6	SW846 8151A	9/15/11	MDO	9/23/11 17:21	JLH	A1
2,4-DB	ND		ug/kg	16.6	SW846 8151A	9/15/11	MDO	9/23/11 17:21	JLH	A1
Dalapon	ND		ug/kg	49.9	SW846 8151A	9/15/11	MDO	9/23/11 17:21	JLH	A1
Dicamba	ND		ug/kg	16.6	SW846 8151A	9/15/11	MDO	9/23/11 17:21	JLH	A1
Dichloroprop	ND		ug/kg	16.6	SW846 8151A	9/15/11	MDO	9/23/11 17:21	JLH	A1
Dinoseb	ND		ug/kg	33.3	SW846 8151A	9/15/11	MDO	9/23/11 17:21	JLH	A1

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520006** Date Collected: 9/13/2011 13:10 Matrix: Solid
Sample ID: **Comp NB211+00-214+00** Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,5-T	ND		ug/kg	16.6	SW846 8151A	9/15/11	MDO	9/23/11 17:21	JLH	A1
2,4,5-TP	ND		ug/kg	16.6	SW846 8151A	9/15/11	MDO	9/23/11 17:21	JLH	A1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	120		%	77-139	SW846 8151A	9/15/11	MDO	9/23/11 17:21	JLH	A1

WET CHEMISTRY

Moisture	10.2		%	0.1	SM20-2540 G			9/17/11 10:50	KAK	A
Total Solids	89.8		%	0.1	SM20-2540 G			9/17/11 10:50	KAK	A

METALS

Arsenic, Total	ND		mg/kg	2.2	SW846 6010C	9/15/11	KMK	9/16/11 03:19	SRT	A2
Barium, Total	331		mg/kg	1.1	SW846 6010C	9/15/11	KMK	9/16/11 03:19	SRT	A2
Cadmium, Total	ND		mg/kg	0.56	SW846 6010C	9/15/11	KMK	9/16/11 03:19	SRT	A2
Chromium, Total	8.1		mg/kg	1.1	SW846 6010C	9/15/11	KMK	9/16/11 03:19	SRT	A2
Lead, Total	7.3		mg/kg	2.2	SW846 6010C	9/15/11	KMK	9/16/11 03:19	SRT	A2
Mercury, Total	ND		mg/kg	0.19	SW846 7471B	9/20/11	MNP	9/20/11 14:15	MNP	A7
Selenium, Total	ND		mg/kg	1.9	SW846 6010C	9/15/11	KMK	9/16/11 03:19	SRT	A2
Silver, Total	ND		mg/kg	0.56	SW846 6010C	9/15/11	KMK	9/16/11 03:19	SRT	A2

Sample Comments:

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

One or more of the matrix spike compounds for the EPA 8270 analysis were recovered outside of the quality control limits due to sample matrix interferences.


Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520007**
Sample ID: **Grab SB-17-1**

Date Collected: 9/13/2011 15:00 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	131		ug/kg	11.0	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Benzene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Bromochloromethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Bromodichloromethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Bromoform	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Bromomethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
2-Butanone	ND		ug/kg	11.0	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Carbon Disulfide	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Carbon Tetrachloride	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Chlorobenzene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Chlorodibromomethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Chloroethane	ND		ug/kg	5.5	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Chloroform	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Chloromethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
1,2-Dibromoethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
1,1-Dichloroethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
1,2-Dichloroethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
1,1-Dichloroethene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
cis-1,2-Dichloroethene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
trans-1,2-Dichloroethene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
1,2-Dichloropropane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
cis-1,3-Dichloropropene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
trans-1,3-Dichloropropene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
1,3-Dichloropropene, Total	ND		ug/kg	4.4	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Ethylbenzene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
2-Hexanone	ND		ug/kg	11.0	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	11.0	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Methylene Chloride	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Styrene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Tetrachloroethene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Toluene	41.2		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Total Xylenes	ND		ug/kg	6.6	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
1,1,1-Trichloroethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
1,1,2-Trichloroethane	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Trichloroethene	64.2		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Vinyl Chloride	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
o-Xylene	ND		ug/kg	2.2	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520007**
Sample ID: **Grab SB-17-1**

Date Collected: 9/13/2011 15:00 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
mp-Xylene	ND		ug/kg	4.4	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	85.8		%	56-124	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
4-Bromofluorobenzene (S)	73.8		%	51-128	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Dibromofluoromethane (S)	76.7		%	62-123	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A
Toluene-d8 (S)	110		%	59-131	8260/5035	9/13/11	DJB	9/27/11 15:02	MES	A

WET CHEMISTRY

Moisture	17.9		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A
Total Solids	82.1		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520008**
Sample ID: **Comp SB-17-1**

Date Collected: 9/13/2011 15:00 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Acenaphthylene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Anthracene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Benzo(a)anthracene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Benzo(a)pyrene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Benzo(b)fluoranthene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Benzo(g,h,i)perylene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Benzo(k)fluoranthene	ND	2	ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
4-Bromophenyl-phenylether	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Butylbenzylphthalate	ND	3	ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Carbazole	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
4-Chloro-3-methylphenol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
4-Chloroaniline	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
bis(2-Chloroethoxy)methane	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
bis(2-Chloroethyl)ether	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
bis(2-Chloroisopropyl)ether	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2-Chloronaphthalene	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2-Chlorophenol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
4-Chlorophenyl-phenylether	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Chrysene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
mp-Cresol	ND	4	ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
o-Cresol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Di-n-Butylphthalate	ND	5	ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Di-n-Octylphthalate	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Dibenzo(a,h)anthracene	ND	6	ug/kg	71.0	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Dibenzofuran	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
1,2-Dichlorobenzene	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
1,3-Dichlorobenzene	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
1,4-Dichlorobenzene	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
3,3-Dichlorobenzidine	ND		ug/kg	639	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2,4-Dichlorophenol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Diethylphthalate	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2,4-Dimethylphenol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Dimethylphthalate	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2,4-Dinitrophenol	ND		ug/kg	639	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2,4-Dinitrotoluene	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2,6-Dinitrotoluene	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
bis(2-Ethylhexyl)phthalate	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Fluoranthene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Fluorene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520008**
Sample ID: **Comp SB-17-1**

Date Collected: 9/13/2011 15:00 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Hexachlorobutadiene	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Hexachlorocyclopentadiene	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Hexachloroethane	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Indeno(1,2,3-cd)pyrene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Isophorone	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2-Methyl-4,6-dinitrophenol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2-Methylnaphthalene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Naphthalene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2-Nitroaniline	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
3-Nitroaniline	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
4-Nitroaniline	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Nitrobenzene	ND		ug/kg	142	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2-Nitrophenol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
4-Nitrophenol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
N-Nitroso-di-n-propylamine	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
N-Nitrosodiphenylamine	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Pentachlorophenol	ND		ug/kg	639	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Phenanthrene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Phenol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Pyrene	ND		ug/kg	59.2	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
1,2,4-Trichlorobenzene	ND		ug/kg	118	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2,4,5-Trichlorophenol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2,4,6-Trichlorophenol	ND		ug/kg	320	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	77.1		%	37-123	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2-Fluorobiphenyl (S)	63.5		%	45-105	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
2-Fluorophenol (S)	83.4		%	35-104	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Nitrobenzene-d5 (S)	83.2		%	41-110	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Phenol-d5 (S)	89.4		%	40-100	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
Terphenyl-d14 (S)	96.6		%	38-113	SW846 8270D	9/23/11	MDO	9/27/11 03:07	CGS	A6
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 17:31	JJH	A4
Aroclor-1016	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 17:31	JJH	A4
Aroclor-1221	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 17:31	JJH	A4
Aroclor-1232	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 17:31	JJH	A4
Aroclor-1242	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 17:31	JJH	A4
Aroclor-1248	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 17:31	JJH	A4
Aroclor-1254	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 17:31	JJH	A4

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

 Lab ID: **9926520008** Date Collected: 9/13/2011 15:00 Matrix: Solid
 Sample ID: **Comp SB-17-1** Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1260	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 17:31	JJH	A4
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	69.9		%	46-120	SW846 8082A	9/16/11	MDO	9/19/11 17:31	JJH	A4
Tetrachloro-m-xylene (S)	88.7		%	52-115	SW846 8082A	9/16/11	MDO	9/19/11 17:31	JJH	A4

PESTICIDES

Aldrin	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
alpha-BHC	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
beta-BHC	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
delta-BHC	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
gamma-BHC	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
alpha-Chlordane	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
gamma-Chlordane	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
4,4'-DDD	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
4,4'-DDE	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
4,4'-DDT	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Dieldrin	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Endosulfan I	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Endosulfan II	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Endosulfan Sulfate	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Endrin	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Endrin Aldehyde	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Endrin Ketone	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Heptachlor	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Heptachlor Epoxide	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Methoxychlor	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Mirex	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Toxaphene	ND		ug/kg	84.0	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	95.7		%	30-117	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3
Tetrachloro-m-xylene (S)	72.4		%	30-89	SW846 8081B	9/16/11	CJG	9/19/11 19:29	KJH	A3

HERBICIDES

2,4-D	ND		ug/kg	18.1	SW846 8151A	9/15/11	MDO	9/23/11 18:12	JLH	A1
2,4-DB	ND		ug/kg	18.1	SW846 8151A	9/15/11	MDO	9/23/11 18:12	JLH	A1
Dalapon	ND		ug/kg	54.3	SW846 8151A	9/15/11	MDO	9/23/11 18:12	JLH	A1
Dicamba	ND		ug/kg	18.1	SW846 8151A	9/15/11	MDO	9/23/11 18:12	JLH	A1
Dichloroprop	ND		ug/kg	18.1	SW846 8151A	9/15/11	MDO	9/23/11 18:12	JLH	A1
Dinoseb	ND		ug/kg	36.2	SW846 8151A	9/15/11	MDO	9/23/11 18:12	JLH	A1

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520008**
Sample ID: **Comp SB-17-1**

Date Collected: 9/13/2011 15:00 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,5-T	ND		ug/kg	18.1	SW846 8151A	9/15/11	MDO	9/23/11 18:12	JLH	A1
2,4,5-TP	ND		ug/kg	18.1	SW846 8151A	9/15/11	MDO	9/23/11 18:12	JLH	A1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	121		%	77-139	SW846 8151A	9/15/11	MDO	9/23/11 18:12	JLH	A1

WET CHEMISTRY

Moisture	17.2		%	0.1	SM20-2540 G			9/17/11 10:50	KAK	A
Total Solids	82.8		%	0.1	SM20-2540 G			9/17/11 10:50	KAK	A

METALS

Arsenic, Total	4.4		mg/kg	2.2	SW846 6010C	9/15/11	KMK	9/16/11 03:23	SRT	A2
Barium, Total	75.7		mg/kg	1.1	SW846 6010C	9/15/11	KMK	9/16/11 03:23	SRT	A2
Cadmium, Total	ND		mg/kg	0.56	SW846 6010C	9/15/11	KMK	9/16/11 03:23	SRT	A2
Chromium, Total	23.7		mg/kg	1.1	SW846 6010C	9/15/11	KMK	9/16/11 03:23	SRT	A2
Lead, Total	8.5		mg/kg	2.2	SW846 6010C	9/15/11	KMK	9/16/11 03:23	SRT	A2
Mercury, Total	ND		mg/kg	0.22	SW846 7471B	9/20/11	MNP	9/20/11 14:16	MNP	A5
Selenium, Total	ND		mg/kg	1.9	SW846 6010C	9/15/11	KMK	9/16/11 03:23	SRT	A2
Silver, Total	ND		mg/kg	0.56	SW846 6010C	9/15/11	KMK	9/16/11 03:23	SRT	A2

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520009** Date Collected: 9/13/2011 15:15 Matrix: Solid
Sample ID: **Grab SB-17-2** Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	783		ug/kg	412	8260/5035	9/13/11	DD	9/25/11 03:50	DD	C
Benzene	10.2		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Bromochloromethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Bromodichloromethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Bromoform	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Bromomethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
2-Butanone	263		ug/kg	7.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Carbon Disulfide	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Carbon Tetrachloride	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Chlorobenzene	13.4		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Chlorodibromomethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Chloroethane	ND		ug/kg	3.8	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Chloroform	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Chloromethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
1,2-Dibromoethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
1,1-Dichloroethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
1,2-Dichloroethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
1,1-Dichloroethene	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
cis-1,2-Dichloroethene	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
trans-1,2-Dichloroethene	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
1,2-Dichloropropane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
cis-1,3-Dichloropropene	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
trans-1,3-Dichloropropene	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
1,3-Dichloropropene, Total	ND		ug/kg	3.0	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Ethylbenzene	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
2-Hexanone	ND		ug/kg	7.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	7.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Methylene Chloride	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Styrene	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Tetrachloroethene	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Toluene	8.5		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Total Xylenes	ND		ug/kg	4.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
1,1,1-Trichloroethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
1,1,2-Trichloroethane	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Trichloroethene	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Vinyl Chloride	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
o-Xylene	ND		ug/kg	1.5	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520009**

Date Collected: 9/13/2011 15:15

Matrix: Solid

Sample ID: **Grab SB-17-2**

Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
mp-Xylene	ND		ug/kg	3.0	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	112		%	71-146	8260/5035	9/13/11	DD	9/25/11 03:50	DD	C
4-Bromofluorobenzene (S)	131		%	46-138	8260/5035	9/13/11	DD	9/25/11 03:50	DD	C
Dibromofluoromethane (S)	113		%	42-143	8260/5035	9/13/11	DD	9/25/11 03:50	DD	C
Toluene-d8 (S)	106		%	54-141	8260/5035	9/13/11	DD	9/25/11 03:50	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	93.4		%	56-124	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
4-Bromofluorobenzene (S)	96.9		%	51-128	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Dibromofluoromethane (S)	93.9		%	62-123	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A
Toluene-d8 (S)	95.1		%	59-131	8260/5035	9/13/11	TMP	9/21/11 05:21	DJB	A

WET CHEMISTRY

Moisture	15.5		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A
Total Solids	84.5		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520010**
Sample ID: **Comp SB-17-2**

Date Collected: 9/13/2011 15:15 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Acenaphthylene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Anthracene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Benzo(a)anthracene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Benzo(a)pyrene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Benzo(b)fluoranthene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Benzo(g,h,i)perylene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Benzo(k)fluoranthene	ND	2	ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
4-Bromophenyl-phenylether	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Butylbenzylphthalate	ND	3	ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Carbazole	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
4-Chloro-3-methylphenol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
4-Chloroaniline	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
bis(2-Chloroethoxy)methane	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
bis(2-Chloroethyl)ether	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
bis(2-Chloroisopropyl)ether	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2-Chloronaphthalene	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2-Chlorophenol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
4-Chlorophenyl-phenylether	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Chrysene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
mp-Cresol	ND	4	ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
o-Cresol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Di-n-Butylphthalate	ND	5	ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Di-n-Octylphthalate	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Dibenzo(a,h)anthracene	ND	6	ug/kg	69.0	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Dibenzofuran	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
1,2-Dichlorobenzene	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
1,3-Dichlorobenzene	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
1,4-Dichlorobenzene	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
3,3-Dichlorobenzidine	ND		ug/kg	621	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2,4-Dichlorophenol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Diethylphthalate	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2,4-Dimethylphenol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Dimethylphthalate	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2,4-Dinitrophenol	ND		ug/kg	621	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2,4-Dinitrotoluene	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2,6-Dinitrotoluene	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
bis(2-Ethylhexyl)phthalate	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Fluoranthene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Fluorene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520010**
Sample ID: **Comp SB-17-2**

Date Collected: 9/13/2011 15:15 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Hexachlorobutadiene	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Hexachlorocyclopentadiene	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Hexachloroethane	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Indeno(1,2,3-cd)pyrene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Isophorone	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2-Methyl-4,6-dinitrophenol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2-Methylnaphthalene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Naphthalene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2-Nitroaniline	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
3-Nitroaniline	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
4-Nitroaniline	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Nitrobenzene	ND		ug/kg	138	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2-Nitrophenol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
4-Nitrophenol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
N-Nitroso-di-n-propylamine	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
N-Nitrosodiphenylamine	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Pentachlorophenol	ND		ug/kg	621	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Phenanthrene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Phenol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Pyrene	ND		ug/kg	57.5	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
1,2,4-Trichlorobenzene	ND		ug/kg	115	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2,4,5-Trichlorophenol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2,4,6-Trichlorophenol	ND		ug/kg	310	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	77.2		%	37-123	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2-Fluorobiphenyl (S)	64.3		%	45-105	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
2-Fluorophenol (S)	83.9		%	35-104	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Nitrobenzene-d5 (S)	84.6		%	41-110	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Phenol-d5 (S)	92.5		%	40-100	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
Terphenyl-d14 (S)	100		%	38-113	SW846 8270D	9/23/11	MDO	9/27/11 03:39	CGS	A6
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.039	SW846 8082A	9/16/11	MDO	9/19/11 17:46	JJH	A4
Aroclor-1016	ND		mg/kg	0.039	SW846 8082A	9/16/11	MDO	9/19/11 17:46	JJH	A4
Aroclor-1221	ND		mg/kg	0.039	SW846 8082A	9/16/11	MDO	9/19/11 17:46	JJH	A4
Aroclor-1232	ND		mg/kg	0.039	SW846 8082A	9/16/11	MDO	9/19/11 17:46	JJH	A4
Aroclor-1242	ND		mg/kg	0.039	SW846 8082A	9/16/11	MDO	9/19/11 17:46	JJH	A4
Aroclor-1248	ND		mg/kg	0.039	SW846 8082A	9/16/11	MDO	9/19/11 17:46	JJH	A4
Aroclor-1254	ND		mg/kg	0.039	SW846 8082A	9/16/11	MDO	9/19/11 17:46	JJH	A4

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520010**
Sample ID: **Comp SB-17-2**

Date Collected: 9/13/2011 15:15 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1260	ND		mg/kg	0.039	SW846 8082A	9/16/11	MDO	9/19/11 17:46	JJH	A4
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	68.5		%	46-120	SW846 8082A	9/16/11	MDO	9/19/11 17:46	JJH	A4
Tetrachloro-m-xylene (S)	91.1		%	52-115	SW846 8082A	9/16/11	MDO	9/19/11 17:46	JJH	A4

PESTICIDES

Aldrin	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
alpha-BHC	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
beta-BHC	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
delta-BHC	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
gamma-BHC	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
alpha-Chlordane	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
gamma-Chlordane	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
4,4'-DDD	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
4,4'-DDE	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
4,4'-DDT	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Dieldrin	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Endosulfan I	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Endosulfan II	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Endosulfan Sulfate	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Endrin	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Endrin Aldehyde	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Endrin Ketone	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Heptachlor	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Heptachlor Epoxide	ND		ug/kg	2.0	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Methoxychlor	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Mirex	ND		ug/kg	3.9	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Toxaphene	ND		ug/kg	83.4	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	95		%	30-117	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3
Tetrachloro-m-xylene (S)	70.6		%	30-89	SW846 8081B	9/16/11	CJG	9/19/11 19:59	KJH	A3

HERBICIDES

2,4-D	ND		ug/kg	17.9	SW846 8151A	9/15/11	MDO	9/23/11 18:49	JLH	A1
2,4-DB	ND		ug/kg	17.9	SW846 8151A	9/15/11	MDO	9/23/11 18:49	JLH	A1
Dalapon	ND		ug/kg	53.6	SW846 8151A	9/15/11	MDO	9/23/11 18:49	JLH	A1
Dicamba	ND		ug/kg	17.9	SW846 8151A	9/15/11	MDO	9/23/11 18:49	JLH	A1
Dichloroprop	ND		ug/kg	17.9	SW846 8151A	9/15/11	MDO	9/23/11 18:49	JLH	A1
Dinoseb	ND		ug/kg	35.7	SW846 8151A	9/15/11	MDO	9/23/11 18:49	JLH	A1

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520010**
Sample ID: **Comp SB-17-2**

Date Collected: 9/13/2011 15:15 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,5-T	ND		ug/kg	17.9	SW846 8151A	9/15/11	MDO	9/23/11 18:49	JLH	A1
2,4,5-TP	ND		ug/kg	17.9	SW846 8151A	9/15/11	MDO	9/23/11 18:49	JLH	A1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	131		%	77-139	SW846 8151A	9/15/11	MDO	9/23/11 18:49	JLH	A1

WET CHEMISTRY

Moisture	16.6		%	0.1	SM20-2540 G			9/17/11 10:50	KAK	A
Total Solids	83.4		%	0.1	SM20-2540 G			9/17/11 10:50	KAK	A

METALS

Arsenic, Total	5.9		mg/kg	2.0	SW846 6010C	9/15/11	KMK	9/16/11 03:27	SRT	A2
Barium, Total	107		mg/kg	1.0	SW846 6010C	9/15/11	KMK	9/16/11 03:27	SRT	A2
Cadmium, Total	ND		mg/kg	0.50	SW846 6010C	9/15/11	KMK	9/16/11 03:27	SRT	A2
Chromium, Total	22.3		mg/kg	1.0	SW846 6010C	9/15/11	KMK	9/16/11 03:27	SRT	A2
Lead, Total	7.8		mg/kg	2.0	SW846 6010C	9/15/11	KMK	9/16/11 03:27	SRT	A2
Mercury, Total	ND		mg/kg	0.20	SW846 7471B	9/20/11	MNP	9/20/11 14:17	MNP	A5
Selenium, Total	ND		mg/kg	1.7	SW846 6010C	9/15/11	KMK	9/16/11 03:27	SRT	A2
Silver, Total	ND		mg/kg	0.50	SW846 6010C	9/15/11	KMK	9/16/11 03:27	SRT	A2

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520011** Date Collected: 9/13/2011 15:30 Matrix: Solid
Sample ID: **Grab SB-17-3** Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	28.4		ug/kg	9.1	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Benzene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Bromochloromethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Bromodichloromethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Bromoform	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Bromomethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
2-Butanone	ND		ug/kg	9.1	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Carbon Disulfide	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Carbon Tetrachloride	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Chlorobenzene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Chlorodibromomethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Chloroethane	ND		ug/kg	4.6	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Chloroform	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Chloromethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
1,2-Dibromoethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
1,1-Dichloroethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
1,2-Dichloroethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
1,1-Dichloroethene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
cis-1,2-Dichloroethene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
trans-1,2-Dichloroethene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
1,2-Dichloropropane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
cis-1,3-Dichloropropene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
trans-1,3-Dichloropropene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
1,3-Dichloropropene, Total	ND		ug/kg	3.7	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Ethylbenzene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
2-Hexanone	ND		ug/kg	9.1	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	9.1	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Methylene Chloride	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Styrene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Tetrachloroethene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Toluene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Total Xylenes	ND		ug/kg	5.5	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
1,1,1-Trichloroethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
1,1,2-Trichloroethane	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Trichloroethene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Vinyl Chloride	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
o-Xylene	ND		ug/kg	1.8	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520011**
Sample ID: **Grab SB-17-3**

Date Collected: 9/13/2011 15:30 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
mp-Xylene	ND		ug/kg	3.7	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.3		%	56-124	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
4-Bromofluorobenzene (S)	97.8		%	51-128	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Dibromofluoromethane (S)	94.7		%	62-123	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B
Toluene-d8 (S)	96.2		%	59-131	8260/5035	9/13/11	TMP	9/20/11 14:32	MES	B

WET CHEMISTRY

Moisture	15.2		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A
Total Solids	84.8		%	0.1	SM20-2540 G			9/16/11 06:25	LJF	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: **9926520012**
Sample ID: **Comp SB-17-3**

Date Collected: 9/13/2011 15:30 Matrix: Solid
Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Acenaphthylene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Anthracene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Benzo(a)anthracene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Benzo(a)pyrene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Benzo(b)fluoranthene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Benzo(g,h,i)perylene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Benzo(k)fluoranthene	ND	2	ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
4-Bromophenyl-phenylether	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Butylbenzylphthalate	ND	3	ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Carbazole	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
4-Chloro-3-methylphenol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
4-Chloroaniline	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
bis(2-Chloroethoxy)methane	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
bis(2-Chloroethyl)ether	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
bis(2-Chloroisopropyl)ether	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2-Chloronaphthalene	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2-Chlorophenol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
4-Chlorophenyl-phenylether	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Chrysene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
mp-Cresol	ND	4	ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
o-Cresol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Di-n-Butylphthalate	ND	5	ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Di-n-Octylphthalate	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Dibenzo(a,h)anthracene	ND	6	ug/kg	69.7	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Dibenzofuran	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
1,2-Dichlorobenzene	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
1,3-Dichlorobenzene	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
1,4-Dichlorobenzene	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
3,3-Dichlorobenzidine	ND		ug/kg	628	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2,4-Dichlorophenol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Diethylphthalate	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2,4-Dimethylphenol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Dimethylphthalate	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2,4-Dinitrophenol	ND		ug/kg	628	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2,4-Dinitrotoluene	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2,6-Dinitrotoluene	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
bis(2-Ethylhexyl)phthalate	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Fluoranthene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Fluorene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

 Lab ID: **9926520012**
 Sample ID: **Comp SB-17-3**

 Date Collected: 9/13/2011 15:30 Matrix: Solid
 Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Hexachlorobutadiene	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Hexachlorocyclopentadiene	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Hexachloroethane	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Indeno(1,2,3-cd)pyrene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Isophorone	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2-Methyl-4,6-dinitrophenol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2-Methylnaphthalene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Naphthalene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2-Nitroaniline	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
3-Nitroaniline	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
4-Nitroaniline	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Nitrobenzene	ND		ug/kg	139	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2-Nitrophenol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
4-Nitrophenol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
N-Nitroso-di-n-propylamine	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
N-Nitrosodiphenylamine	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Pentachlorophenol	ND		ug/kg	628	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Phenanthrene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Phenol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Pyrene	ND		ug/kg	58.1	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
1,2,4-Trichlorobenzene	ND		ug/kg	116	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2,4,5-Trichlorophenol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2,4,6-Trichlorophenol	ND		ug/kg	314	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	75.3		%	37-123	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2-Fluorobiphenyl (S)	60.7		%	45-105	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
2-Fluorophenol (S)	86.1		%	35-104	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Nitrobenzene-d5 (S)	81.6		%	41-110	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Phenol-d5 (S)	88		%	40-100	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
Terphenyl-d14 (S)	96.9		%	38-113	SW846 8270D	9/23/11	MDO	9/27/11 04:11	CGS	A6
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 18:01	JJH	A4
Aroclor-1016	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 18:01	JJH	A4
Aroclor-1221	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 18:01	JJH	A4
Aroclor-1232	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 18:01	JJH	A4
Aroclor-1242	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 18:01	JJH	A4
Aroclor-1248	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 18:01	JJH	A4
Aroclor-1254	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 18:01	JJH	A4

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

 Lab ID: **9926520012**
 Sample ID: **Comp SB-17-3**

 Date Collected: 9/13/2011 15:30 Matrix: Solid
 Date Received: 9/14/2011 19:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1260	ND		mg/kg	0.040	SW846 8082A	9/16/11	MDO	9/19/11 18:01	JJH	A4
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	70.6		%	46-120	SW846 8082A	9/16/11	MDO	9/19/11 18:01	JJH	A4
Tetrachloro-m-xylene (S)	97.6		%	52-115	SW846 8082A	9/16/11	MDO	9/19/11 18:01	JJH	A4

PESTICIDES

Aldrin	ND		ug/kg	2.1	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
alpha-BHC	ND		ug/kg	2.1	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
beta-BHC	ND		ug/kg	2.1	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
delta-BHC	ND		ug/kg	2.1	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
gamma-BHC	ND		ug/kg	2.1	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
alpha-Chlordane	ND		ug/kg	2.1	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
gamma-Chlordane	ND		ug/kg	2.1	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
4,4'-DDD	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
4,4'-DDE	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
4,4'-DDT	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Dieldrin	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Endosulfan I	ND		ug/kg	2.1	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Endosulfan II	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Endosulfan Sulfate	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Endrin	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Endrin Aldehyde	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Endrin Ketone	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Heptachlor	ND		ug/kg	2.1	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Heptachlor Epoxide	ND		ug/kg	2.1	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Methoxychlor	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Mirex	ND		ug/kg	4.0	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Toxaphene	ND		ug/kg	84.9	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	98.5		%	30-117	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3
Tetrachloro-m-xylene (S)	79.6		%	30-89	SW846 8081B	9/16/11	CJG	9/19/11 20:28	KJH	A3

HERBICIDES

2,4-D	ND		ug/kg	17.8	SW846 8151A	9/15/11	MDO	9/23/11 19:26	JLH	A1
2,4-DB	ND		ug/kg	17.8	SW846 8151A	9/15/11	MDO	9/23/11 19:26	JLH	A1
Dalapon	ND		ug/kg	53.3	SW846 8151A	9/15/11	MDO	9/23/11 19:26	JLH	A1
Dicamba	ND		ug/kg	17.8	SW846 8151A	9/15/11	MDO	9/23/11 19:26	JLH	A1
Dichloroprop	ND		ug/kg	17.8	SW846 8151A	9/15/11	MDO	9/23/11 19:26	JLH	A1
Dinoseb	ND		ug/kg	35.6	SW846 8151A	9/15/11	MDO	9/23/11 19:26	JLH	A1

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ANALYTICAL RESULTS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

Lab ID: 9926520012	Date Collected: 9/13/2011 15:30	Matrix: Solid
Sample ID: Comp SB-17-3	Date Received: 9/14/2011 19:40	

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,5-T	ND		ug/kg	17.8	SW846 8151A	9/15/11	MDO	9/23/11 19:26	JLH	A1
2,4,5-TP	ND		ug/kg	17.8	SW846 8151A	9/15/11	MDO	9/23/11 19:26	JLH	A1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	113		%	77-139	SW846 8151A	9/15/11	MDO	9/23/11 19:26	JLH	A1

WET CHEMISTRY

Moisture	17.5	%	0.1	SM20-2540 G	9/17/11 10:50	KAK	A
Total Solids	82.5	%	0.1	SM20-2540 G	9/17/11 10:50	KAK	A

METALS

Arsenic, Total	5.0	mg/kg	2.3	SW846 6010C	9/15/11	KMK	9/16/11 03:30	SRT	A2
Barium, Total	61.4	mg/kg	1.2	SW846 6010C	9/15/11	KMK	9/16/11 03:30	SRT	A2
Cadmium, Total	ND	mg/kg	0.58	SW846 6010C	9/15/11	KMK	9/16/11 03:30	SRT	A2
Chromium, Total	19.9	mg/kg	1.2	SW846 6010C	9/15/11	KMK	9/16/11 03:30	SRT	A2
Lead, Total	10.8	mg/kg	2.3	SW846 6010C	9/15/11	KMK	9/16/11 03:30	SRT	A2
Mercury, Total	ND	mg/kg	0.22	SW846 7471B	9/20/11	MNP	9/20/11 14:19	MNP	A5
Selenium, Total	ND	mg/kg	1.9	SW846 6010C	9/15/11	KMK	9/16/11 03:30	SRT	A2
Silver, Total	ND	mg/kg	0.58	SW846 6010C	9/15/11	KMK	9/16/11 03:30	SRT	A2

Sample Comments:


 Anna G Milliken
 Technical Manager

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ANALYTICAL RESULTS QUALIFIERS/FLAGS

Workorder: 9926520 NE PA TURNPIKE EXT (CLEAN FILL)

PARAMETER QUALIFIERS/FLAGS

- [1] The QC sample type MS for method 8260/5035 was outside the control limits for the analyte Acetone. The % Recovery was reported as 221 and the control limits were 58 to 146.
- [2] The QC sample type DUP for method SW846 8270D was outside the control limits for the analyte Benzo(k)fluoranthene. The RPD was reported as 23.5 and the upper control limit is 22.
- [3] The QC sample type DUP for method SW846 8270D was outside the control limits for the analyte Butylbenzylphthalate. The RPD was reported as 200 and the upper control limit is 18.
- [4] The QC sample type DUP for method SW846 8270D was outside the control limits for the analyte mp-Cresol. The RPD was reported as 200 and the upper control limit is 20.
- [5] The QC sample type DUP for method SW846 8270D was outside the control limits for the analyte Di-n-Butylphthalate. The RPD was reported as 88.1 and the upper control limit is 20.
- [6] The QC sample type DUP for method SW846 8270D was outside the control limits for the analyte Dibenzo(a,h)anthracene. The RPD was reported as 56.9 and the upper control limit is 28.
- [7] The surrogate Tetrachloro-m-xylene for method SW846 8081B was outside of control limits. The % Recovery was reported as 91.2 and the control limits were 30 to 89. This result was reported at a dilution of 10.

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Page 1 of 2
 Courier: [Signature]
 Tracking #: [Signature]

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE
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Analytical Laboratory Services, Inc.
 Environmental • Industrial Hygiene • Field Services
 34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Co. Name: Haines and Kibblehouse Inc.

Contact Representative: Andrew Curtis
 Address: 2052 Lucon Road
 P.O. Box 196
 Skippack, PA 19474

Bill to (if different than Report to): PO#: _____

Accounts Payable

P.O. Box 196, Skippack, PA 19474

Project Name#: NE PA Turnpike Ext (Clean Fill) ALSI Quote #: 229270

TAT: Normal Standard TAT is 10-12 business days.
 Rush-Subject to ALSI approval and surcharges.

Email? Y N
 Fax? Y N

Sample Description/Location (as it will appear on the lab report)

Sample	Military	Sample	COC Comments
Date	Time	Date	
9/13/2011	1225	G S 1	2 1
9/13/2011	1225	C S	1 X X X X
9/13/2011	1250	G S 1	2 1
9/13/2011	1250	C S	1 X X X X
9/13/2011	1310	G S 1	2 1
9/13/2011	1310	C S	1 X X X X
9/13/2011	1500	G S 1	2 1
9/13/2011	1500	C S	1 X X X X

SAMPLED BY (Please Print): Health Lahr

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
[Signature]	9/13/11	1700	[Signature]	9/14/11	1306
[Signature]	9/14	1720	[Signature]	9/14/11	1450
[Signature]	9/14	1940	[Signature]	9/14/11	1900

Container Type: MeOH	Vial: MeOH	4oz: None	16oz: None
Container Size: MeOH	Glass: MeOH	Glass: None	Glass: None
Preservative: MeOH	MeOH: MeOH	None: None	None: None

ANALYSIS METHOD REQUESTED

Method	Requested
TCL VOC (8260)	<input checked="" type="checkbox"/>
TCL VOC (8260)	<input checked="" type="checkbox"/>
Dry Weight	<input checked="" type="checkbox"/>
TCL SVOC (8270)	<input checked="" type="checkbox"/>
Herbicides (8151)	<input checked="" type="checkbox"/>
TCL Pesticides (8081)	<input checked="" type="checkbox"/>
PCB (8082)	<input checked="" type="checkbox"/>
RCRA Metals (6010)	<input checked="" type="checkbox"/>

Enter Number of Containers Per Analysis

Container in good condition? Y N
 COC/Labels complete/accurate? Y N
 Received on ice? Y N
 (if present) Seals intact? Y N
 Correct sample volume? Y N
 Correct preservation? Y N
 Headspace/Volatiles? Y N
 Circle appropriate Y or N.

ALS FIELD SERVICES
 Pickup
 Labor
 Composite Sampling
 Recal Equipment
 Other

LOGGED BY (signature): [Signature]
 REVIEWED BY (signature): [Signature]
 Date: 9/13/11
 Time: 1700

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY
 * G-Grab, C-Composite
 **Matrix: A=Air; D=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipes; WH=Wastewater
 ***Container Type: AG=Amber Glass; CG=Clear Glass; PL=Plastic. Container Size: 250ml, 500ml, 1L, 9oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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 Counter: _____
 Tracking #: _____

9926520

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS
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Analytical Laboratory Services, Inc.
 Environmental • Industrial Hygiene • Field Services
 34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

Co. Name: Haines and Kibblehouse Inc.
Contact (Report): Andrew Curtis
Address: 2062 Lucon Road
 P.O. Box 196
 Skippack, PA 19474

Phone: _____
PO#: _____

Account Payable: _____
PO Box 196, Skippack, PA 19474

Project Name#: NE PA Turnpike Ext (Clean Fill) **ALSI Quote #:** 229270

TAT: Normal-Standard TAT is 10-12 business days. **Date Required:** _____
 Rush-Subject to ALSI approval and surcharges. **Approved By:** _____

Enroll? Yes No **acurits@hkgcup.com**
Fax? Yes No

Receipt Information
 (Completed by Sample Receiver)
 Performed by: _____
 Cooler Temp: _____
 Therm. ID: TH-245
 No. of Coolers: _____
 Notes: _____

Correct container?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Volatiles?	Y	N
COCLabels complete/accurate?	Y	N
Container in good condition?	Y	N

Circle appropriate Y or N.

ANALYSIS/METHOD REQUESTED

Container Type	Vial	4oz	16oz
TCL VOC (8260)	Glass	Glass	Glass
TCL VOC (8260)	MeOH	NH ₄ SO ₄	None
Dry Weight			
TCL SVOC (8270)			
Herbicides (8151)			
TCL Pesticides (8081)			
PCB (8082)			
RCRA Metals (6010)			

Enter Number of Containers Per Analysis

Sample Date	Military Time	G	S	1	2	1
9/13/2011	1515	G	S	1	2	1
9/13/2011	1515	C	S			1
9/13/2011	1530	G	S	1	2	1
9/13/2011	1530	C	S			1

LOGGED BY (Signature): _____
REVIEWED BY (Signature): _____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Andrew Curtis	9/13/11	1900	Andrew Curtis	9/14/11	1306
Andrew Curtis	9/14	0730	Andrew Curtis	9/14/11	1730
Andrew Curtis	9/14	1940	Andrew Curtis	9/14/11	1940

SAMPLED BY (Please Print): Heath Lahr

State Samples Collected by?	SNK Form?	Special H&K
MD <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>
NJ <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>
NY <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>
PA <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>
Other <input type="checkbox"/>	Other <input type="checkbox"/>	Other <input type="checkbox"/>

ALS FIELD SERVICES
 Heavy Labor Composite Sampling Rental Equipment Other

* G-Grab; C-Composite **Matrix: A=Air; D=Drinking Water; GW=Groundwater; O=Oil; Q=Other Liquid; SL=Sludge; SO=Soil; WP=Wiper; WW=Wastewater
 ***Container Type: AG=Amber Glass; CG=Clear Glass; PL=Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.analyticalab.com ■ www.alsglobal.com

July 18, 2011

Mr. Andy Curtis
Haines and Kibblehouse Inc.
2052 Lucon Road
Skippack, PA 19474

Re: PQLs vs. Regulatory Limits

Mr. Curtis,

The purpose of this letter is to discuss PQLs reported by ALS Environmental and why these PQLs may exceed the Pennsylvania clean fill criteria. The PQLs reported by ALS Environmental are determined by the sensitivity of the method and are typically the lowest level calibration standard used for analysis. The clean fill standards are often based on health related criteria. The clean fill standards do not take into account the limitations of the technology used to conduct the measurement and in some cases the methodology is not capable of achieving the sensitivity required by the clean fill criteria. Examples of compounds where this is the case include, but are not limited to, bis (2-chloroethyl) ether, N-Nitroso-di-N-propylamine, and the nitroaniline compounds. PQLs will always exceed the clean fill criteria for these parameters.

Isolated circumstances may also arise where clean fill criteria normally reachable is not obtainable for a particular sample. If chemical or physical interferences such as high levels of target or non-target analytes are present in a sample, the sample may need to be diluted prior to analysis to avoid masking other requested compounds, to pass quality control criteria, or in extreme cases, to avoid damage to the instrument. If a dilution is necessary, PQLs are multiplied by the dilution factor used and may be increased above clean fill standards for that sample.

These are the two most common reasons for PQLs exceeding clean fill criteria. If you have any questions concerning the information presented in this letter or PQLs in general please contact me at (717) 944-5541 Ext. 3135 or anna.milliken@alsglobal.com

Sincerely,


Anna Milliken
Technical Manager

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**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

Page ___ of ___

Courier: _____

Tracking #: _____

COC# _____

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Co. Name: Haines and Kibblehouse Inc.
Contact (Report to): Andrew Curtis **Phone:** _____
Address: 2052 Lucon Road
 P.O. Box 196
 Skippack, PA 19474

Bill to (if different than Report to): _____ **PO#:** _____
 Accounts Payable
 PO Box 196, Skippack, PA 19474
Project Name/#: NE PA Turnpike Ext (Clean Fill) **ALSI Quote #:** 229270

TAT: Normal-Standard TAT is 10-12 business days. **Date Required:** _____
 Rush-Subject to ALSI approval and surcharges. **Approved By:** _____

Email? -Y acurtis@hkgroup.com
Fax? -Y No.:

***Container Type	Vial	Vial	4oz	16oz									
***Container Size	Glass	Glass	Glass	Glass									
Preservative	MeOH	NaHSO4	None	None									

ANALYSES/METHOD REQUESTED

	TCL VOC (8260)	TCL VOC (8260)	Dry Weight	TCL SVOC (8270)	Herbicides (8151)	TCL Pesticides (8081)	PCB (8082)	RCRA Metals (6010)
*G or C								
**Matrix								

Enter Number of Containers Per Analysis

Sample Description/Location <small>(as it will appear on the lab report)</small>	COC Comments	Sample Date	Military Time	*G or C	**Matrix
1 Grab NB217+00-219+00		9/13/2011	1225	G	S
2 Comp NB217+00-219+00		9/13/2011	1225	C	S
3 Grab NB214+00-217+00		9/13/2011	1250	G	S
4 Comp NB214+00-217+00		9/13/2011	1250	C	S
5 Grab NB211+00-214+00		9/13/2011	1310	G	S
6 Comp NB211+00-214+00		9/13/2011	1310	C	S
7 Grab SB17-1		9/13/2011	1500	G	S
8 Comp SB17-1		9/13/2011	1500	C	S

1	1	2	1					
2				1	X	X	X	X
3	1	2	1					
4				1	X	X	X	X
5	1	2	1					
6				1	X	X	X	X
7	1	2	1					
8				1	X	X	X	X

Receipt Information
(Completed by Sample Receiver)

Performed by: _____ **INITIAL HERE**
Cooler Temp: _____
Therm. ID: _____
No. of Coolers: _____

Notes:

	N	N	N	N
Correct containers?	Y	Y	Y	Y
Correct sample volume?	N	N	N	N
Correct preservation?	Y	Y	Y	Y
Headspace/Volatiles?	Y	Y	Y	Y
Circle appropriate Y or N.				
Custody seals Present?	Y	Y	Y	Y
(if present) Seals intact?				
Received on ice?				
COC Labels complete/accurate?				
Container in good condition?				

SAMPLED BY (Please Print):
Heath Lahr

LOGGED BY (signature): _____ **DATE:** _____ **TIME:** _____
REVIEWED BY (signature): _____ **DATE:** _____ **TIME:** _____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time

Data Deliverables
 Standard
 CLP-like
 NJ-Reduced
 NJ-Full
 (other) _____
EDDs Required? If yes, format type: **Special H&K**
DOD Criteria Required? _____

SDWA Forms?
 yes
 Other _____

State Samples Collected In?
 MD
 NJ
 NY
 PA

PWSID _____

ALSI FIELD SERVICES

Pickup
 Labor
 Composite Sampling
 Rental Equipment
 Other: _____

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**

Page ___ of ___

Courier: _____

Tracking #: _____

COC# _____

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Co. Name: Haines and Kibblehouse Inc.
Contact (Report to): Andrew Curtis **Phone:** _____
Address: 2052 Lucon Road
 P.O. Box 196
 Skippack, PA 19474

Bill to (if different than Report to): _____ **PO#:** _____
 Accounts Payable
 PO Box 196, Skippack, PA 19474
Project Name/#: NE PA Turnpike Ext (Clean Fill) **ALSI Quote #:** 229270

TAT: Normal-Standard TAT is 10-12 business days. **Date Required:** _____
 Rush-Subject to ALSI approval and surcharges. **Approved By:** _____

Email? -Y acurtis@hkgroup.com
Fax? -Y No.:

***Container Type	Vial	Vial	4oz	16oz										
***Container Size	Glass	Glass	Glass	Glass										
Preservative	MeOH	NaHSO4	None	None										

ANALYSES/METHOD REQUESTED

	TCL VOC (8260)	TCL VOC (8260)	Dry Weight	TCL SVOC (8270)	Herbicides (8151)	TCL Pesticides (8081)	PCB (8082)	RCRA Metals (6010)
*G or C								
**Matrix								

Enter Number of Containers Per Analysis

Sample Description/Location <small>(as it will appear on the lab report)</small>	COC Comments	Sample Date	Military Time	*G or C	**Matrix
1 Grab SB17-2		9/13/2011	1515	G	S
2 Comp SB17-2		9/13/2011	1515	C	S
3 Grab SB17-3		9/13/2011	1530	G	S
4 Comp SB17-3		9/13/2011	1530	C	S
5					
6					
7					
8					

1	1	2	1					
2				1	X	X	X	X
3	1	2	1					
4				1	X	X	X	X
5								
6								
7								
8								

Receipt Information
(Completed by Sample Receiver)

Performed by: _____ **INITIAL HERE**
Cooler Temp: _____
Therm. ID: _____
No. of Coolers: _____

Notes:

	N	N	N	N
Correct containers?	Y	Y	Y	Y
Correct sample volume?	N	N	N	N
Correct preservation?	Y	Y	Y	Y
Headspace/Volatiles?	N	N	N	N
Circle appropriate Y or N.				
Custody seals Present?	Y	Y	Y	Y
(if present) Seals intact?				
Received on ice?				
COC Labels complete/accurate?				
Container in good condition?				

SAMPLED BY (Please Print):
 Heath Lahr

LOGGED BY (signature): _____ **DATE:** _____ **TIME:** _____
REVIEWED BY (signature): _____ **DATE:** _____ **TIME:** _____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
			2		
			4		
			6		
			8		
			10		

Data Deliverables
 Standard
 CLP-like
 NJ-Reduced
 NJ-Full
 (other) _____
EDDs Required? If yes, format type: **Special H&K**
DOD Criteria Required? _____

SDWA Forms?
 yes
 yes
 yes
 yes
 Other _____
 PWSID _____

State Samples Collected In?
 MD
 NJ
 NY
 PA

ALSI FIELD SERVICES

Pickup
 Labor
 Composite Sampling
 Rental Equipment
 Other: _____