

September 15, 2015

Matthew Pesci
The Mannik & Smith Group
1800 Indian Wood Circle
Maumee, OH 43537

RE: Project: Facility #3 Sediment Analysis
Pace Project No.: 50127277

Dear Matthew Pesci:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kelly Jones
kelly.jones@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Facility #3 Sediment Analysis
Pace Project No.: 50127277

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #: 98019
Louisiana Certification #: 04076

Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50127277001	Area 1	Solid	09/04/15 07:50	09/09/15 08:50
50127277002	Area 2	Solid	09/04/15 08:37	09/09/15 08:50
50127277003	Area 3	Solid	09/04/15 09:30	09/09/15 08:50
50127277004	Area 4	Solid	09/04/15 10:20	09/09/15 08:50
50127277005	Area 5	Solid	09/04/15 11:00	09/09/15 08:50
50127277006	Area 6	Solid	09/04/15 11:40	09/09/15 08:50
50127277007	Area 7	Solid	09/04/15 12:35	09/09/15 08:50
50127277008	Area 8	Solid	09/04/15 14:45	09/09/15 08:50
50127277009	Area 9	Solid	09/04/15 13:40	09/09/15 08:50
50127277010	Area 10	Solid	09/04/15 14:10	09/09/15 08:50

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SAMPLE ANALYTE COUNT

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50127277001	Area 1	EPA 8270 by SIM	JCM	19	PASI-I
		ASTM D2974-87	SCM	1	PASI-I
50127277002	Area 2	EPA 8270 by SIM	JCM	19	PASI-I
		ASTM D2974-87	SCM	1	PASI-I
50127277003	Area 3	EPA 8270 by SIM	JCM	19	PASI-I
		ASTM D2974-87	SCM	1	PASI-I
50127277004	Area 4	EPA 8270 by SIM	JCM	19	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
50127277005	Area 5	EPA 8270 by SIM	JCM	19	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
50127277006	Area 6	EPA 8270 by SIM	JCM	19	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
50127277007	Area 7	EPA 8270 by SIM	JCM	19	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
50127277008	Area 8	EPA 8270 by SIM	JCM	19	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
50127277009	Area 9	EPA 8270 by SIM	JCM	19	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
50127277010	Area 10	EPA 8270 by SIM	JCM	19	PASI-I
		ASTM D2974-87	MLS	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50127277001	Area 1					
EPA 8270 by SIM	Acenaphthylene	0.012	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Anthracene	0.019	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Benzo(a)anthracene	0.047	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Benzo(a)pyrene	0.050	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.085	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.041	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.043	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Chrysene	0.075	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.019	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Fluoranthene	0.085	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.038	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	2-Methylnaphthalene	0.025	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Naphthalene	0.048	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Phenanthrene	0.062	mg/kg	0.0068	09/11/15 15:06	
EPA 8270 by SIM	Pyrene	0.081	mg/kg	0.0068	09/11/15 15:06	
ASTM D2974-87	Percent Moisture	27.6	%	0.10	09/11/15 13:55	
50127277002	Area 2					
EPA 8270 by SIM	Acenaphthene	0.019	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Acenaphthylene	0.051	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Anthracene	0.099	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Benzo(a)anthracene	0.17	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Benzo(a)pyrene	0.20	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.22	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.14	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.16	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Chrysene	0.23	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.039	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Fluoranthene	0.31	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Fluorene	0.033	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.12	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	2-Methylnaphthalene	0.088	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Naphthalene	0.17	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Phenanthrene	0.22	mg/kg	0.0063	09/11/15 15:23	
EPA 8270 by SIM	Pyrene	0.26	mg/kg	0.0063	09/11/15 15:23	
ASTM D2974-87	Percent Moisture	21.5	%	0.10	09/11/15 13:55	
50127277003	Area 3					
EPA 8270 by SIM	Acenaphthylene	0.0077	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Anthracene	0.013	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Benzo(a)anthracene	0.033	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Benzo(a)pyrene	0.036	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.046	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.028	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.034	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Chrysene	0.046	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.011	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Fluoranthene	0.076	mg/kg	0.0074	09/11/15 16:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50127277003	Area 3					
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.025	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	2-Methylnaphthalene	0.0096	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Naphthalene	0.016	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Phenanthrene	0.049	mg/kg	0.0074	09/11/15 16:13	
EPA 8270 by SIM	Pyrene	0.065	mg/kg	0.0074	09/11/15 16:13	
ASTM D2974-87	Percent Moisture	32.6	%	0.10	09/11/15 13:55	
50127277004	Area 4					
EPA 8270 by SIM	Benzo(a)anthracene	0.013	mg/kg	0.0080	09/11/15 17:02	
EPA 8270 by SIM	Benzo(a)pyrene	0.012	mg/kg	0.0080	09/11/15 17:02	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.013	mg/kg	0.0080	09/11/15 17:02	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0084	mg/kg	0.0080	09/11/15 17:02	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.011	mg/kg	0.0080	09/11/15 17:02	
EPA 8270 by SIM	Chrysene	0.015	mg/kg	0.0080	09/11/15 17:02	
EPA 8270 by SIM	Fluoranthene	0.021	mg/kg	0.0080	09/11/15 17:02	
EPA 8270 by SIM	Naphthalene	0.013	mg/kg	0.0080	09/11/15 17:02	
EPA 8270 by SIM	Phenanthrene	0.016	mg/kg	0.0080	09/11/15 17:02	
EPA 8270 by SIM	Pyrene	0.019	mg/kg	0.0080	09/11/15 17:02	
ASTM D2974-87	Percent Moisture	37.4	%	0.10	09/12/15 10:12	
50127277005	Area 5					
EPA 8270 by SIM	Anthracene	0.0080	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Benzo(a)anthracene	0.025	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Benzo(a)pyrene	0.027	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.032	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.018	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.022	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Chrysene	0.029	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.0079	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Fluoranthene	0.041	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.016	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Naphthalene	0.013	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Phenanthrene	0.023	mg/kg	0.0071	09/11/15 17:19	
EPA 8270 by SIM	Pyrene	0.037	mg/kg	0.0071	09/11/15 17:19	
ASTM D2974-87	Percent Moisture	30.4	%	0.10	09/12/15 10:13	
50127277006	Area 6					
EPA 8270 by SIM	Acenaphthene	0.0091	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Acenaphthylene	0.019	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Anthracene	0.044	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Benzo(a)anthracene	0.081	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Benzo(a)pyrene	0.072	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.095	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.049	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.066	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Chrysene	0.11	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.015	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Fluoranthene	0.15	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Fluorene	0.013	mg/kg	0.0070	09/11/15 17:35	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50127277006	Area 6					
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.048	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	2-Methylnaphthalene	0.020	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Naphthalene	0.044	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Phenanthrene	0.11	mg/kg	0.0070	09/11/15 17:35	
EPA 8270 by SIM	Pyrene	0.12	mg/kg	0.0070	09/11/15 17:35	
ASTM D2974-87	Percent Moisture	28.6	%	0.10	09/12/15 10:13	
50127277007	Area 7					
EPA 8270 by SIM	Acenaphthylene	0.016	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Anthracene	0.023	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Benzo(a)anthracene	0.060	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Benzo(a)pyrene	0.072	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.12	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.083	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.069	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Chrysene	0.099	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Fluoranthene	0.11	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Fluorene	0.0076	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.066	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	2-Methylnaphthalene	0.016	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Naphthalene	0.024	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Phenanthrene	0.063	mg/kg	0.0066	09/11/15 17:52	
EPA 8270 by SIM	Pyrene	0.10	mg/kg	0.0066	09/11/15 17:52	
ASTM D2974-87	Percent Moisture	24.2	%	0.10	09/12/15 10:13	
50127277008	Area 8					
EPA 8270 by SIM	Acenaphthylene	0.018	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Anthracene	0.024	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Benzo(a)anthracene	0.056	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Benzo(a)pyrene	0.056	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.068	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.038	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.043	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Chrysene	0.072	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.014	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Fluoranthene	0.084	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Fluorene	0.011	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.035	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	2-Methylnaphthalene	0.028	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Naphthalene	0.084	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Phenanthrene	0.068	mg/kg	0.0074	09/11/15 18:09	
EPA 8270 by SIM	Pyrene	0.079	mg/kg	0.0074	09/11/15 18:09	
ASTM D2974-87	Percent Moisture	32.8	%	0.10	09/12/15 08:28	
50127277009	Area 9					
EPA 8270 by SIM	Acenaphthylene	0.013	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Anthracene	0.020	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Benzo(a)anthracene	0.055	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Benzo(a)pyrene	0.058	mg/kg	0.0067	09/11/15 18:25	

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SUMMARY OF DETECTION

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50127277009	Area 9					
EPA 8270 by SIM	Benzo(b)fluoranthene	0.079	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.045	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.054	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Chrysene	0.078	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.014	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Fluoranthene	0.092	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Fluorene	0.0073	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.040	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	2-Methylnaphthalene	0.016	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Naphthalene	0.027	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Phenanthrene	0.057	mg/kg	0.0067	09/11/15 18:25	
EPA 8270 by SIM	Pyrene	0.083	mg/kg	0.0067	09/11/15 18:25	
ASTM D2974-87	Percent Moisture	24.8	%	0.10	09/12/15 08:28	
50127277010	Area 10					
EPA 8270 by SIM	Acenaphthylene	0.0093	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Anthracene	0.011	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Benzo(a)anthracene	0.030	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Benzo(a)pyrene	0.033	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.047	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.026	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.029	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Chrysene	0.047	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.012	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Fluoranthene	0.053	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.023	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	2-Methylnaphthalene	0.012	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Naphthalene	0.022	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Phenanthrene	0.036	mg/kg	0.0070	09/11/15 18:42	
EPA 8270 by SIM	Pyrene	0.050	mg/kg	0.0070	09/11/15 18:42	
ASTM D2974-87	Percent Moisture	28.8	%	0.10	09/12/15 08:28	

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ANALYTICAL RESULTS

Project: Facility #3 Sediment Analysis
Pace Project No.: 50127277

Sample: Area 1 **Lab ID: 50127277001** Collected: 09/04/15 07:50 Received: 09/09/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	83-32-9	
Acenaphthylene	0.012	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	208-96-8	
Anthracene	0.019	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	120-12-7	
Benzo(a)anthracene	0.047	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	56-55-3	
Benzo(a)pyrene	0.050	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	50-32-8	
Benzo(b)fluoranthene	0.085	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	205-99-2	
Benzo(g,h,i)perylene	0.041	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	191-24-2	
Benzo(k)fluoranthene	0.043	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	207-08-9	
Chrysene	0.075	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	218-01-9	
Dibenz(a,h)anthracene	0.019	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	53-70-3	
Fluoranthene	0.085	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	206-44-0	
Fluorene	ND	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	86-73-7	
Indeno(1,2,3-cd)pyrene	0.038	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	193-39-5	
2-Methylnaphthalene	0.025	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	91-57-6	
Naphthalene	0.048	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	91-20-3	
Phenanthrene	0.062	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	85-01-8	
Pyrene	0.081	mg/kg	0.0068	1	09/10/15 13:25	09/11/15 15:06	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	69	%	38-110	1	09/10/15 13:25	09/11/15 15:06	321-60-8	
p-Terphenyl-d14 (S)	70	%	32-111	1	09/10/15 13:25	09/11/15 15:06	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	27.6	%	0.10	1		09/11/15 13:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Sample: Area 2 **Lab ID: 50127277002** Collected: 09/04/15 08:37 Received: 09/09/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	0.019	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	83-32-9	
Acenaphthylene	0.051	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	208-96-8	
Anthracene	0.099	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	120-12-7	
Benzo(a)anthracene	0.17	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	56-55-3	
Benzo(a)pyrene	0.20	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	50-32-8	
Benzo(b)fluoranthene	0.22	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	205-99-2	
Benzo(g,h,i)perylene	0.14	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	191-24-2	
Benzo(k)fluoranthene	0.16	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	207-08-9	
Chrysene	0.23	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	218-01-9	
Dibenz(a,h)anthracene	0.039	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	53-70-3	
Fluoranthene	0.31	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	206-44-0	
Fluorene	0.033	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	86-73-7	
Indeno(1,2,3-cd)pyrene	0.12	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	193-39-5	
2-Methylnaphthalene	0.088	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	91-57-6	
Naphthalene	0.17	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	91-20-3	
Phenanthrene	0.22	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	85-01-8	
Pyrene	0.26	mg/kg	0.0063	1	09/10/15 13:25	09/11/15 15:23	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	82	%.	38-110	1	09/10/15 13:25	09/11/15 15:23	321-60-8	
p-Terphenyl-d14 (S)	77	%.	32-111	1	09/10/15 13:25	09/11/15 15:23	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	21.5	%	0.10	1		09/11/15 13:55		

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ANALYTICAL RESULTS

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Sample: Area 3 **Lab ID: 50127277003** Collected: 09/04/15 09:30 Received: 09/09/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	83-32-9	
Acenaphthylene	0.0077	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	208-96-8	
Anthracene	0.013	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	120-12-7	
Benzo(a)anthracene	0.033	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	56-55-3	
Benzo(a)pyrene	0.036	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	50-32-8	
Benzo(b)fluoranthene	0.046	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	205-99-2	
Benzo(g,h,i)perylene	0.028	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	191-24-2	
Benzo(k)fluoranthene	0.034	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	207-08-9	
Chrysene	0.046	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	218-01-9	
Dibenz(a,h)anthracene	0.011	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	53-70-3	
Fluoranthene	0.076	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	206-44-0	
Fluorene	ND	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	86-73-7	
Indeno(1,2,3-cd)pyrene	0.025	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	193-39-5	
2-Methylnaphthalene	0.0096	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	91-57-6	
Naphthalene	0.016	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	91-20-3	
Phenanthrene	0.049	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	85-01-8	
Pyrene	0.065	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 16:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%.	38-110	1	09/10/15 13:35	09/11/15 16:13	321-60-8	
p-Terphenyl-d14 (S)	67	%.	32-111	1	09/10/15 13:35	09/11/15 16:13	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	32.6	%	0.10	1		09/11/15 13:55		

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ANALYTICAL RESULTS

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Sample: Area 4 **Lab ID: 50127277004** Collected: 09/04/15 10:20 Received: 09/09/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	83-32-9	
Acenaphthylene	ND	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	208-96-8	
Anthracene	ND	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	120-12-7	
Benzo(a)anthracene	0.013	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	56-55-3	
Benzo(a)pyrene	0.012	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	50-32-8	
Benzo(b)fluoranthene	0.013	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	205-99-2	
Benzo(g,h,i)perylene	0.0084	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	191-24-2	
Benzo(k)fluoranthene	0.011	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	207-08-9	
Chrysene	0.015	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	53-70-3	
Fluoranthene	0.021	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	206-44-0	
Fluorene	ND	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	193-39-5	
2-Methylnaphthalene	ND	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	91-57-6	
Naphthalene	0.013	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	91-20-3	
Phenanthrene	0.016	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	85-01-8	
Pyrene	0.019	mg/kg	0.0080	1	09/10/15 13:35	09/11/15 17:02	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	90	%.	38-110	1	09/10/15 13:35	09/11/15 17:02	321-60-8	
p-Terphenyl-d14 (S)	74	%.	32-111	1	09/10/15 13:35	09/11/15 17:02	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	37.4	%	0.10	1		09/12/15 10:12		

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ANALYTICAL RESULTS

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Sample: Area 5 **Lab ID: 50127277005** Collected: 09/04/15 11:00 Received: 09/09/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	83-32-9	
Acenaphthylene	ND	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	208-96-8	
Anthracene	0.0080	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	120-12-7	
Benzo(a)anthracene	0.025	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	56-55-3	
Benzo(a)pyrene	0.027	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	50-32-8	
Benzo(b)fluoranthene	0.032	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	205-99-2	
Benzo(g,h,i)perylene	0.018	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	191-24-2	
Benzo(k)fluoranthene	0.022	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	207-08-9	
Chrysene	0.029	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	218-01-9	
Dibenz(a,h)anthracene	0.0079	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	53-70-3	
Fluoranthene	0.041	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	206-44-0	
Fluorene	ND	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	86-73-7	
Indeno(1,2,3-cd)pyrene	0.016	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	193-39-5	
2-Methylnaphthalene	ND	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	91-57-6	
Naphthalene	0.013	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	91-20-3	
Phenanthrene	0.023	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	85-01-8	
Pyrene	0.037	mg/kg	0.0071	1	09/10/15 13:35	09/11/15 17:19	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	83	%	38-110	1	09/10/15 13:35	09/11/15 17:19	321-60-8	
p-Terphenyl-d14 (S)	68	%	32-111	1	09/10/15 13:35	09/11/15 17:19	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	30.4	%	0.10	1		09/12/15 10:13		

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ANALYTICAL RESULTS

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Sample: Area 6 **Lab ID: 50127277006** Collected: 09/04/15 11:40 Received: 09/09/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	0.0091	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	83-32-9	
Acenaphthylene	0.019	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	208-96-8	
Anthracene	0.044	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	120-12-7	
Benzo(a)anthracene	0.081	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	56-55-3	
Benzo(a)pyrene	0.072	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	50-32-8	
Benzo(b)fluoranthene	0.095	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	205-99-2	
Benzo(g,h,i)perylene	0.049	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	191-24-2	
Benzo(k)fluoranthene	0.066	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	207-08-9	
Chrysene	0.11	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	218-01-9	
Dibenz(a,h)anthracene	0.015	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	53-70-3	
Fluoranthene	0.15	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	206-44-0	
Fluorene	0.013	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	86-73-7	
Indeno(1,2,3-cd)pyrene	0.048	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	193-39-5	
2-Methylnaphthalene	0.020	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	91-57-6	
Naphthalene	0.044	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	91-20-3	
Phenanthrene	0.11	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	85-01-8	
Pyrene	0.12	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 17:35	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78	%.	38-110	1	09/10/15 13:35	09/11/15 17:35	321-60-8	
p-Terphenyl-d14 (S)	69	%.	32-111	1	09/10/15 13:35	09/11/15 17:35	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	28.6	%	0.10	1		09/12/15 10:13		

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ANALYTICAL RESULTS

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Sample: Area 7 Lab ID: 50127277007 Collected: 09/04/15 12:35 Received: 09/09/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	83-32-9	
Acenaphthylene	0.016	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	208-96-8	
Anthracene	0.023	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	120-12-7	
Benzo(a)anthracene	0.060	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	56-55-3	
Benzo(a)pyrene	0.072	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	50-32-8	
Benzo(b)fluoranthene	0.12	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	205-99-2	
Benzo(g,h,i)perylene	0.083	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	191-24-2	
Benzo(k)fluoranthene	0.069	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	207-08-9	
Chrysene	0.099	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	53-70-3	
Fluoranthene	0.11	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	206-44-0	
Fluorene	0.0076	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	86-73-7	
Indeno(1,2,3-cd)pyrene	0.066	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	193-39-5	
2-Methylnaphthalene	0.016	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	91-57-6	
Naphthalene	0.024	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	91-20-3	
Phenanthrene	0.063	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	85-01-8	
Pyrene	0.10	mg/kg	0.0066	1	09/10/15 13:35	09/11/15 17:52	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79	%	38-110	1	09/10/15 13:35	09/11/15 17:52	321-60-8	
p-Terphenyl-d14 (S)	83	%	32-111	1	09/10/15 13:35	09/11/15 17:52	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	24.2	%	0.10	1		09/12/15 10:13		

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ANALYTICAL RESULTS

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

Sample: Area 8 **Lab ID: 50127277008** Collected: 09/04/15 14:45 Received: 09/09/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	83-32-9	
Acenaphthylene	0.018	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	208-96-8	
Anthracene	0.024	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	120-12-7	
Benzo(a)anthracene	0.056	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	56-55-3	
Benzo(a)pyrene	0.056	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	50-32-8	
Benzo(b)fluoranthene	0.068	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	205-99-2	
Benzo(g,h,i)perylene	0.038	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	191-24-2	
Benzo(k)fluoranthene	0.043	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	207-08-9	
Chrysene	0.072	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	218-01-9	
Dibenz(a,h)anthracene	0.014	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	53-70-3	
Fluoranthene	0.084	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	206-44-0	
Fluorene	0.011	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	86-73-7	
Indeno(1,2,3-cd)pyrene	0.035	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	193-39-5	
2-Methylnaphthalene	0.028	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	91-57-6	
Naphthalene	0.084	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	91-20-3	
Phenanthrene	0.068	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	85-01-8	
Pyrene	0.079	mg/kg	0.0074	1	09/10/15 13:35	09/11/15 18:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78	%	38-110	1	09/10/15 13:35	09/11/15 18:09	321-60-8	
p-Terphenyl-d14 (S)	70	%	32-111	1	09/10/15 13:35	09/11/15 18:09	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	32.8	%	0.10	1		09/12/15 08:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Facility #3 Sediment Analysis
Pace Project No.: 50127277

Sample: Area 9 **Lab ID: 50127277009** Collected: 09/04/15 13:40 Received: 09/09/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	83-32-9	
Acenaphthylene	0.013	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	208-96-8	
Anthracene	0.020	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	120-12-7	
Benzo(a)anthracene	0.055	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	56-55-3	
Benzo(a)pyrene	0.058	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	50-32-8	
Benzo(b)fluoranthene	0.079	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	205-99-2	
Benzo(g,h,i)perylene	0.045	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	191-24-2	
Benzo(k)fluoranthene	0.054	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	207-08-9	
Chrysene	0.078	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	218-01-9	
Dibenz(a,h)anthracene	0.014	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	53-70-3	
Fluoranthene	0.092	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	206-44-0	
Fluorene	0.0073	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	86-73-7	
Indeno(1,2,3-cd)pyrene	0.040	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	193-39-5	
2-Methylnaphthalene	0.016	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	91-57-6	
Naphthalene	0.027	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	91-20-3	
Phenanthrene	0.057	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	85-01-8	
Pyrene	0.083	mg/kg	0.0067	1	09/10/15 13:35	09/11/15 18:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78	%.	38-110	1	09/10/15 13:35	09/11/15 18:25	321-60-8	
p-Terphenyl-d14 (S)	74	%.	32-111	1	09/10/15 13:35	09/11/15 18:25	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	24.8	%	0.10	1		09/12/15 08:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Facility #3 Sediment Analysis
Pace Project No.: 50127277

Sample: Area 10 **Lab ID: 50127277010** Collected: 09/04/15 14:10 Received: 09/09/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	83-32-9	
Acenaphthylene	0.0093	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	208-96-8	
Anthracene	0.011	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	120-12-7	
Benzo(a)anthracene	0.030	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	56-55-3	
Benzo(a)pyrene	0.033	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	50-32-8	
Benzo(b)fluoranthene	0.047	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	205-99-2	
Benzo(g,h,i)perylene	0.026	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	191-24-2	
Benzo(k)fluoranthene	0.029	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	207-08-9	
Chrysene	0.047	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	218-01-9	
Dibenz(a,h)anthracene	0.012	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	53-70-3	
Fluoranthene	0.053	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	206-44-0	
Fluorene	ND	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	86-73-7	
Indeno(1,2,3-cd)pyrene	0.023	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	193-39-5	
2-Methylnaphthalene	0.012	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	91-57-6	
Naphthalene	0.022	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	91-20-3	
Phenanthrene	0.036	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	85-01-8	
Pyrene	0.050	mg/kg	0.0070	1	09/10/15 13:35	09/11/15 18:42	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66	%.	38-110	1	09/10/15 13:35	09/11/15 18:42	321-60-8	
p-Terphenyl-d14 (S)	70	%.	32-111	1	09/10/15 13:35	09/11/15 18:42	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	28.8	%	0.10	1		09/12/15 08:28		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

QC Batch: OEXT/40756

Analysis Method: EPA 8270 by SIM

QC Batch Method: EPA 3546

Analysis Description: 8270 MSSV PAH by SIM

Associated Lab Samples: 50127277001, 50127277002

METHOD BLANK: 1375742

Matrix: Solid

Associated Lab Samples: 50127277001, 50127277002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Methylnaphthalene	mg/kg	ND	0.0050	09/11/15 09:01	
Acenaphthene	mg/kg	ND	0.0050	09/11/15 09:01	
Acenaphthylene	mg/kg	ND	0.0050	09/11/15 09:01	
Anthracene	mg/kg	ND	0.0050	09/11/15 09:01	
Benzo(a)anthracene	mg/kg	ND	0.0050	09/11/15 09:01	
Benzo(a)pyrene	mg/kg	ND	0.0050	09/11/15 09:01	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	09/11/15 09:01	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	09/11/15 09:01	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	09/11/15 09:01	
Chrysene	mg/kg	ND	0.0050	09/11/15 09:01	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	09/11/15 09:01	
Fluoranthene	mg/kg	ND	0.0050	09/11/15 09:01	
Fluorene	mg/kg	ND	0.0050	09/11/15 09:01	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	09/11/15 09:01	
Naphthalene	mg/kg	ND	0.0050	09/11/15 09:01	
Phenanthrene	mg/kg	ND	0.0050	09/11/15 09:01	
Pyrene	mg/kg	ND	0.0050	09/11/15 09:01	
2-Fluorobiphenyl (S)	%	99	38-110	09/11/15 09:01	
p-Terphenyl-d14 (S)	%	113	32-111	09/11/15 09:01	S3

LABORATORY CONTROL SAMPLE: 1375743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylnaphthalene	mg/kg	.33	0.33	100	39-104	
Acenaphthene	mg/kg	.33	0.36	109	43-108	L5
Acenaphthylene	mg/kg	.33	0.37	112	44-110	L5
Anthracene	mg/kg	.33	0.39	120	44-112	L5
Benzo(a)anthracene	mg/kg	.33	0.41	124	43-124	
Benzo(a)pyrene	mg/kg	.33	0.44	134	44-124	L5
Benzo(b)fluoranthene	mg/kg	.33	0.47	144	44-123	L5
Benzo(g,h,i)perylene	mg/kg	.33	0.42	128	44-118	L5
Benzo(k)fluoranthene	mg/kg	.33	0.44	134	42-122	L5
Chrysene	mg/kg	.33	0.39	120	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.43	130	44-119	L5
Fluoranthene	mg/kg	.33	0.41	124	45-119	L5
Fluorene	mg/kg	.33	0.38	114	44-113	L5
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.43	129	44-119	L5
Naphthalene	mg/kg	.33	0.32	98	42-103	
Phenanthrene	mg/kg	.33	0.40	120	44-113	L5
Pyrene	mg/kg	.33	0.41	123	45-123	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

LABORATORY CONTROL SAMPLE: 1375743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			100	38-110	
p-Terphenyl-d14 (S)	%.			105	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1375744 1375745

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50127355012 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
2-Methylnaphthalene	mg/kg	ND	.38	.38	0.30	0.28	80	73	10-131	8	20	
Acenaphthene	mg/kg	ND	.38	.38	0.33	0.33	88	86	25-117	1	20	
Acenaphthylene	mg/kg	ND	.38	.38	0.34	0.33	92	87	27-123	4	20	
Anthracene	mg/kg	ND	.38	.38	0.36	0.37	95	97	20-123	3	20	
Benzo(a)anthracene	mg/kg	ND	.38	.38	0.34	0.36	91	96	23-124	6	20	
Benzo(a)pyrene	mg/kg	ND	.38	.38	0.36	0.39	96	101	23-120	7	20	
Benzo(b)fluoranthene	mg/kg	ND	.38	.38	0.37	0.39	99	102	24-117	5	20	
Benzo(g,h,i)perylene	mg/kg	ND	.38	.38	0.33	0.35	88	92	12-122	6	20	
Benzo(k)fluoranthene	mg/kg	ND	.38	.38	0.37	0.39	99	103	14-123	6	20	
Chrysene	mg/kg	ND	.38	.38	0.35	0.36	92	95	22-124	5	20	
Dibenz(a,h)anthracene	mg/kg	ND	.38	.38	0.37	0.38	97	100	26-113	5	20	
Fluoranthene	mg/kg	ND	.38	.38	0.36	0.37	94	95	21-125	3	20	
Fluorene	mg/kg	ND	.38	.38	0.35	0.36	93	94	19-127	2	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.38	.38	0.34	0.36	90	94	15-121	6	20	
Naphthalene	mg/kg	ND	.38	.38	0.31	0.28	83	73	15-125	11	20	
Phenanthrene	mg/kg	0.0074	.38	.38	0.36	0.38	94	97	10-139	5	20	
Pyrene	mg/kg	ND	.38	.38	0.35	0.37	91	97	17-132	8	20	
2-Fluorobiphenyl (S)	%.						81	74	38-110			
p-Terphenyl-d14 (S)	%.						74	77	32-111			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

QC Batch: OEXT/40757 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
 Associated Lab Samples: 50127277003, 50127277004, 50127277005, 50127277006, 50127277007, 50127277008, 50127277009, 50127277010

METHOD BLANK: 1375746 Matrix: Solid
 Associated Lab Samples: 50127277003, 50127277004, 50127277005, 50127277006, 50127277007, 50127277008, 50127277009, 50127277010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Methylnaphthalene	mg/kg	ND	0.0050	09/11/15 15:39	
Acenaphthene	mg/kg	ND	0.0050	09/11/15 15:39	
Acenaphthylene	mg/kg	ND	0.0050	09/11/15 15:39	
Anthracene	mg/kg	ND	0.0050	09/11/15 15:39	
Benzo(a)anthracene	mg/kg	ND	0.0050	09/11/15 15:39	
Benzo(a)pyrene	mg/kg	ND	0.0050	09/11/15 15:39	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	09/11/15 15:39	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	09/11/15 15:39	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	09/11/15 15:39	
Chrysene	mg/kg	ND	0.0050	09/11/15 15:39	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	09/11/15 15:39	
Fluoranthene	mg/kg	ND	0.0050	09/11/15 15:39	
Fluorene	mg/kg	ND	0.0050	09/11/15 15:39	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	09/11/15 15:39	
Naphthalene	mg/kg	ND	0.0050	09/11/15 15:39	
Phenanthrene	mg/kg	ND	0.0050	09/11/15 15:39	
Pyrene	mg/kg	ND	0.0050	09/11/15 15:39	
2-Fluorobiphenyl (S)	%	111	38-110	09/11/15 15:39	S3
p-Terphenyl-d14 (S)	%	119	32-111	09/11/15 15:39	S3

LABORATORY CONTROL SAMPLE: 1375747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylnaphthalene	mg/kg	.33	0.37	111	39-104	L5
Acenaphthene	mg/kg	.33	0.39	119	43-108	L5
Acenaphthylene	mg/kg	.33	0.40	122	44-110	L5
Anthracene	mg/kg	.33	0.43	130	44-112	L5
Benzo(a)anthracene	mg/kg	.33	0.44	134	43-124	L5
Benzo(a)pyrene	mg/kg	.33	0.47	141	44-124	L5
Benzo(b)fluoranthene	mg/kg	.33	0.50	151	44-123	L5
Benzo(g,h,i)perylene	mg/kg	.33	0.44	132	44-118	L5
Benzo(k)fluoranthene	mg/kg	.33	0.45	137	42-122	L5
Chrysene	mg/kg	.33	0.43	129	44-124	L5
Dibenz(a,h)anthracene	mg/kg	.33	0.45	136	44-119	L5
Fluoranthene	mg/kg	.33	0.44	132	45-119	L5
Fluorene	mg/kg	.33	0.42	126	44-113	L5
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.45	135	44-119	L5
Naphthalene	mg/kg	.33	0.36	109	42-103	L5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

LABORATORY CONTROL SAMPLE: 1375747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.43	131	44-113	L5
Pyrene	mg/kg	.33	0.44	134	45-123	L5
2-Fluorobiphenyl (S)	%			109	38-110	
p-Terphenyl-d14 (S)	%			111	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1375748 1375749

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50127277003 Result	Spike Conc.	Spike Conc.	MS Result						
2-Methylnaphthalene	mg/kg	0.0096	.49	.49	0.35	0.43	70	84	10-131	18	20
Acenaphthene	mg/kg	ND	.49	.49	0.39	0.45	78	90	25-117	15	20
Acenaphthylene	mg/kg	0.0077	.49	.49	0.40	0.46	80	92	27-123	14	20
Anthracene	mg/kg	0.013	.49	.49	0.43	0.47	84	93	20-123	10	20
Benzo(a)anthracene	mg/kg	0.033	.49	.49	0.44	0.49	83	93	23-124	11	20
Benzo(a)pyrene	mg/kg	0.036	.49	.49	0.45	0.51	84	95	23-120	11	20
Benzo(b)fluoranthene	mg/kg	0.046	.49	.49	0.49	0.54	90	100	24-117	11	20
Benzo(g,h,i)perylene	mg/kg	0.028	.49	.49	0.41	0.46	78	88	12-122	11	20
Benzo(k)fluoranthene	mg/kg	0.034	.49	.49	0.44	0.49	82	92	14-123	11	20
Chrysene	mg/kg	0.046	.49	.49	0.43	0.49	79	89	22-124	12	20
Dibenz(a,h)anthracene	mg/kg	0.011	.49	.49	0.41	0.46	80	92	26-113	13	20
Fluoranthene	mg/kg	0.076	.49	.49	0.48	0.51	83	87	21-125	5	20
Fluorene	mg/kg	ND	.49	.49	0.42	0.47	84	94	19-127	12	20
Indeno(1,2,3-cd)pyrene	mg/kg	0.025	.49	.49	0.42	0.47	80	90	15-121	12	20
Naphthalene	mg/kg	0.016	.49	.49	0.36	0.44	70	85	15-125	20	20
Phenanthrene	mg/kg	0.049	.49	.49	0.46	0.52	84	95	10-139	11	20
Pyrene	mg/kg	0.065	.49	.49	0.47	0.53	83	95	17-132	12	20
2-Fluorobiphenyl (S)	%						72	82	38-110		
p-Terphenyl-d14 (S)	%						66	70	32-111		

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QUALITY CONTROL DATA

Project: Facility #3 Sediment Analysis
Pace Project No.: 50127277

QC Batch: PMST/11090 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50127277008, 50127277009, 50127277010

SAMPLE DUPLICATE: 1377900

Parameter	Units	50127355001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.6	7.8	17	5	R1

SAMPLE DUPLICATE: 1377901

Parameter	Units	50127355010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.0	11.8	10	5	R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Facility #3 Sediment Analysis

Pace Project No.: 50127277

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

L5 LCS recovery exceeded QC limits. Batch accepted based on matrix spike recovery within LCS limits.

R1 RPD value was outside control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Facility #3 Sediment Analysis
Pace Project No.: 50127277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50127277001	Area 1	EPA 3546	OEXT/40756	EPA 8270 by SIM	MSSV/18995
50127277002	Area 2	EPA 3546	OEXT/40756	EPA 8270 by SIM	MSSV/18995
50127277003	Area 3	EPA 3546	OEXT/40757	EPA 8270 by SIM	MSSV/18999
50127277004	Area 4	EPA 3546	OEXT/40757	EPA 8270 by SIM	MSSV/18999
50127277005	Area 5	EPA 3546	OEXT/40757	EPA 8270 by SIM	MSSV/18999
50127277006	Area 6	EPA 3546	OEXT/40757	EPA 8270 by SIM	MSSV/18999
50127277007	Area 7	EPA 3546	OEXT/40757	EPA 8270 by SIM	MSSV/18999
50127277008	Area 8	EPA 3546	OEXT/40757	EPA 8270 by SIM	MSSV/18999
50127277009	Area 9	EPA 3546	OEXT/40757	EPA 8270 by SIM	MSSV/18999
50127277010	Area 10	EPA 3546	OEXT/40757	EPA 8270 by SIM	MSSV/18999
50127277001	Area 1	ASTM D2974-87	PMST/11088		
50127277002	Area 2	ASTM D2974-87	PMST/11088		
50127277003	Area 3	ASTM D2974-87	PMST/11088		
50127277004	Area 4	ASTM D2974-87	PMST/11089		
50127277005	Area 5	ASTM D2974-87	PMST/11089		
50127277006	Area 6	ASTM D2974-87	PMST/11089		
50127277007	Area 7	ASTM D2974-87	PMST/11089		
50127277008	Area 8	ASTM D2974-87	PMST/11090		
50127277009	Area 9	ASTM D2974-87	PMST/11090		
50127277010	Area 10	ASTM D2974-87	PMST/11090		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

MW

Page: 1 of 1
1925532

Section A
Required Client Information:
Company: Mannik + Smith Group
Address: 1800 Indian Wood Circle
Maumee, OH 43537
Email To: mpesce@manniksmithgroup.com
Phone: 419-891-2233 Fax:
Requested Due Date/TAT: Std. - 5day

Section B
Required Project Information:
Report To: Matt Pesci
Copy To: Mannik + Smith Group
Purchase Order No.: 00- (MS)
Project Name: Facility #3 Sediment Analysis
Project Number: TLCPO026

Section C
Invoice Information:
Attention: Matt Pesci
Company Name: Mannik + Smith Group
Address:
Pace Quote Reference: 00019 831
Pace Project Manager: Kelly Jones
Pace Profile #:
REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER RSLS
Site Location: OH
STATE:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE DW WT VW P SL OL WP AR TS OT	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see veld codes to left)	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ O ₃ Methanol Other	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME					
1	Area 1				C	SL	9/4/15	07:35	9/4/15	07:50			001
2	Area 2				C	SL	9/4/15	08:20	9/4/15	08:37			002
3	Area 3				C	SL	9/4/15	09:10	9/4/15	09:20			003
4	Area 4				C	SL	9/4/15	10:05	9/4/15	10:20			004
5	Area 5				C	SL	9/4/15	10:45	9/4/15	11:00			005
6	Area 6				C	SL	9/4/15	11:20	9/4/15	11:40			006
7	Area 7				C	SL	9/4/15	12:15	9/4/15	12:35			007
8	Area 8				C	SL	9/4/15	14:30	9/4/15	14:45			008
9	Area 9				C	SL	9/4/15	13:20	9/4/15	13:40			009
10	Area 10				C	SL	9/4/15	13:55	9/4/15	14:10			010
11													
12													

ADDITIONAL COMMENTS
MDLs must meet US EPA
Regional Screening Levels (RSLs)
for Residential Soil (Attached)

RELINQUISHED BY / AFFILIATION
Matt Pesci / MSG
9/8/15 17:00
Jedore
9/9/15 8:20
Shafer
9/9/15 8:50
3.8

ACCEPTED BY / AFFILIATION
Jedore
9/9/15 8:50
3.8

SAMPLE CONDITIONS
Received on (Y/N)
Custody Sealed Cooler (Y/N)
Temp In °C
y y y y y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Wes Speiser
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

ORIGINAL

Sample Condition Upon Receipt



Client Name: MANNILL + SMITH Project # 50127277

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 8075 8972 3737

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Date/Time 5035A kits placed in freezer

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer 123456 ABCDEF Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 3.8°c Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C

Comments:

Date and initials of person examining contents: 9/9/15 sj

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>5 DAY</u>
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9. (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		10. Present Absent
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Headspace TCLP Volatiles	<input type="checkbox"/> Yes <input type="checkbox"/> No	12.
Headspace Wisconsin Sulfide / Acidity	<input type="checkbox"/> Yes <input type="checkbox"/> No	13.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Project Manager Review: Kames

Date: 9-9-15

Sample Container Count

CLIENT: MANNIK & SMITH

COC PAGE 1 of 1
 COC ID# 1925532 Project # 50127277

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH >12	
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Container Codes	DG9H	40mL HCL	amber vial	AG0U	100mL	unpreserved	amber glass	BP1N	1 liter	HNO3	plastic	DG9P	40mL	TSP	amber vial	
	AG1U	1liter	unpreserved	amber glass	AG1H	1 liter	HCL	amber glass	BP1S	1 liter	H2SO4	plastic	DG9S	40mL	H2SO4	amber vial
	WGFU	4oz	clear	soil jar	AG1S	1 liter	H2SO4	amber glass	BP1U	1 liter	unpreserved	plastic	DG9T	40mL	Na Thio	amber vial
	R	terra	core	kit	AG1T	1 liter	Na Thiosulfate	amber glass	BP1Z	1 liter	NaOH, Zn, Ac		DG9U	40mL	unpreserved	amber vial
	BP2N	500mL	HNO3	plastic	AG2N	500mL	HNO3	amber glass	BP2A	500mL	NaOH, Asc Acid	plastic	SP5T	120mL	Coliform	Na Thiosulfate
	BP2U	500mL	unpreserved	plastic	AG2S	500mL	H2SO4	amber glass	BP2O	500mL	NaOH	plastic	JGFU	4oz	unpreserved	amber wide
	BP2S	500mL	H2SO4	plastic	AG2U	500mL	unpreserved	amber glass	BP2Z	500mL	NaOH, Zn Ac		U	Summa	Can	
	BP3N	250mL	HNO3	plastic	AG3U	250mL	unpreserved	amber glass	AF	Air	Filter		VG9H	40mL	HCL	clear vial
	BP3U	250mL	unpreserved	plastic	BG1H	1 liter	HCL	clear glass	BP3C	250mL	NaOH	plastic	VG9T	40mL	Na Thio,	clear vial
	BP3S	250mL	H2SO4	plastic	BG1S	1 liter	H2SO4	clear glass	BP3Z	250mL	NaOH, Zn Ac	plastic	VG9U	40mL	unpreserved	clear vial
	AG3S	250mL	H2SO4	glass	BG1T	1 liter	Na Thiosulfate	clear glass	C	Air	Cassettes		VSG	Headspace	septa	vial & HCL
	AG1S	1 liter	H2SO4	amber glass	BG1U	1 liter	unpreserved	glass	DG9B	40mL	Na Bisulfate	amber vial	WGFX	4oz	wide jar	w/hexane wipe
	BP1U	1 liter	unpreserved	plastic	BP1A	1 liter	NaOH, Asc Acid	plastic	DG9M	40mL	MeOH	clear vial	ZPLC	Ziploc	Bag	