



822 State Fair Blvd., Syracuse, NY 13209
Phone: 315-428-1959
www.churchillenvironmental.com

Environmental, Health & Safety Consultants

July 11, 2022

G.F. Frost Construction Co. Inc.
5229 Foxhill Lane
Camillus, NY 13031
Attn: Gary Frost

Re: PCB/RCRA Soil Sampling

Gary,

On June 3, 2022, Churchill Environmental performed Hazardous Soil Sampling for PCBs and RCRA-8s on the properties located at the Corner of Wolf St. and Park St., Syracuse, NY. Joe Nanno performed the PCB & RCRA sampling on these properties.

Sampling was performed in the grass lot behind 301 Wolf St., and 1920 Park St. in Syracuse, NY. The material in question was the soil behind these buildings. A total of fourteen (14) samples were taken from the soil; seven (7) samples were taken for PCBs & seven were taken for RCRA in random locations at approximately 12" below grade. The EPA limit for PCBs in soil is 50 parts per million (ppm). Please see Table #1. These samples were sent to EMSL Analytical, Inc. in Cinnaminson, NJ. RCRA, monitor eight different metallic elements. These heavy metals (EPA Limits) include; arsenic (5.0 ppm), barium (100.0 ppm), cadmium (1.0 ppm), chromium (5.0 ppm), lead (5.0 ppm), mercury (0.2 ppm), selenium (1.0 ppm), and silver (5.0 ppm). Please see Table #2. RCRA were sent to Pace Analytical Services in Melville, NY. Please see the attached Lab Reports and map locations.

***Table #1**

Sample #	Parameter	Result
PCB-3	Aroclor-1260	0.25 ppm
PCB-4	Aroclor-1254	0.18 ppm
PCB-5	Aroclor-1254	0.83 ppm
	Aroclor-1260	0.19 ppm
PCB-6	Aroclor-1254	0.13 ppm
	Aroclor-1260	0.12 ppm
PCB-7	Aroclor-1254	0.5 ppm
	Aroclor-1260	0.34 ppm

***Table #2**

Sample #	Parameter	Result
RCRA-8	Arsenic	< 2.7 ppm
	Barium	85.3 ppm
	Cadmium	< 0.67 ppm
	Chromium	15.4 ppm
	Lead	23.3 ppm
	Mercury	< 0.041 ppm
	Selenium	< 2.7 ppm
	Silver	< 2.7 ppm

RCRA-9	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	< 2.7 ppm 107 ppm < 0.67 ppm 18.6 ppm 116 ppm 0.071 ppm < 2.7 ppm < 2.7 ppm
RCRA-10	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	7.8 ppm 128 ppm 1.6 ppm 30.5 ppm 368 ppm 0.36 ppm < 2.5 ppm < 2.5 ppm
RCRA-11	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	7.1 ppm 246 ppm 0.69 ppm 22.0 ppm 305 ppm 0.58 ppm < 2.5 ppm < 2.5 ppm
RCRA-12	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	3.3 ppm 152 ppm 12.0 ppm 19.1 ppm 534 ppm 0.65 ppm < 2.2 ppm 2.4 ppm
RCRA-13	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	8.8 ppm 116 ppm 9.2 ppm 11.8 ppm 561 ppm 1.5 ppm < 2.6 ppm < 2.6 ppm
RCRA-14	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	5.4 ppm < 46.6 ppm 16.6 ppm 9.3 ppm 653 ppm 0.49 ppm < 2.3 ppm 3.1 ppm

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 012208948

CustomerID: CHUE80

CustomerPO:

ProjectID:

Attn: **Joe Nanno**
Churchill Environmental Inc.
822 State Fair Blvd
Syracuse, NY 13209

Phone: (315) 428-1959
Fax: (315) 428-0432
Received: 6/8/2022 09:20 AM

Project: 22064 Wolf/Park St. Soil Sampling

Analytical Results

Client Sample Description		Collected:		Lab ID:	
PCB-1 SW Corner		6/3/2022		012208948-0001	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3550C/8082A	Aroclor-1016	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1221	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1232	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1242	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1248	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1254	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1260	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1262	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1268	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
WET					
SM 2540G	Total Solids	88	N/A %	6/10/2022 MQ	6/10/2022 MQ 00:00

Client Sample Description		Collected:		Lab ID:	
PCB-2 West End		6/3/2022		012208948-0002	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3550C/8082A	Aroclor-1016	ND	52 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1221	ND	52 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1232	ND	52 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1242	ND	52 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1248	ND	52 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1254	ND	52 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00

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Project: 22064 Wolf/Park St. Soil Sampling

Analytical Results

Client Sample Description		Collected:		Lab ID:	
PCB-2 West End		6/3/2022		012208948-0002	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3550C/8082A	Aroclor-1260	ND	52 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1262	ND	52 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1268	ND	52 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
WET					
SM 2540G	Total Solids	90	N/A %	6/10/2022 MQ	6/10/2022 MQ 00:00

Client Sample Description		Collected:		Lab ID:	
PCB-3 NW Corner		6/3/2022		012208948-0003	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3550C/8082A	Aroclor-1016	ND	57 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1221	ND	57 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1232	ND	57 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1242	ND	57 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1248	ND	57 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1254	ND	57 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1260	250	57 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1262	ND	57 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1268	ND	57 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
WET					
SM 2540G	Total Solids	87	N/A %	6/10/2022 MQ	6/10/2022 MQ 00:00

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Analytical Results

Client Sample Description		Collected:		Lab ID:	
PCB-4 North End		6/3/2022		012208948-0004	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3550C/8082A	Aroclor-1016	ND	54 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1221	ND	54 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1232	ND	54 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1242	ND	54 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1248	ND	54 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1254	180	54 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1260	ND	54 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1262	ND	54 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1268	ND	54 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
WET					
SM 2540G	Total Solids	91	N/A %	6/10/2022 MQ	6/10/2022 MQ 00:00

Client Sample Description		Collected:		Lab ID:	
PCB-5 NE Corner		6/3/2022		012208948-0005	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3550C/8082A	Aroclor-1016	ND	51 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1221	ND	51 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1232	ND	51 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1242	ND	51 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1248	ND	51 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1254	830	51 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00

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Analytical Results

Client Sample Description		Collected:		Lab ID:	
PCB-5 NE Corner		6/3/2022		012208948-0005	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3550C/8082A	Aroclor-1260	190	51 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1262	ND	51 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1268	ND	51 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
WET					
SM 2540G	Total Solids	94	N/A %	6/10/2022 MQ	6/10/2022 MQ 00:00

Client Sample Description		Collected:		Lab ID:	
PCB-6 East End		6/3/2022		012208948-0006	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3550C/8082A	Aroclor-1016	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1221	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1232	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1242	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1248	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1254	130	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1260	120	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1262	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
3550C/8082A	Aroclor-1268	ND	53 µg/Kg	6/9/2022 AJ	6/10/2022 PM 00:00
WET					
SM 2540G	Total Solids	91	N/A %	6/10/2022 MQ	6/10/2022 MQ 00:00

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 Received: 6/8/2022 09:20 AM

Project: 22064 Wolf/Park St. Soil Sampling

Analytical Results

Client Sample Description PCB-7
SE Corner
Collected: 6/3/2022
Lab ID: 012208948-0007

Method	Parameter	Result	RL Units	Prep Date & Analyst		Analysis Date & Analyst	
GC-SVOA							
3550C/8082A	Aroclor-1016	ND	51 µg/Kg	6/9/2022	AJ	6/10/2022 00:00	PM
3550C/8082A	Aroclor-1221	ND	51 µg/Kg	6/9/2022	AJ	6/10/2022 00:00	PM
3550C/8082A	Aroclor-1232	ND	51 µg/Kg	6/9/2022	AJ	6/10/2022 00:00	PM
3550C/8082A	Aroclor-1242	ND	51 µg/Kg	6/9/2022	AJ	6/10/2022 00:00	PM
3550C/8082A	Aroclor-1248	ND	51 µg/Kg	6/9/2022	AJ	6/10/2022 00:00	PM
3550C/8082A	Aroclor-1254	500	51 µg/Kg	6/9/2022	AJ	6/10/2022 00:00	PM
3550C/8082A	Aroclor-1260	340	51 µg/Kg	6/9/2022	AJ	6/10/2022 00:00	PM
3550C/8082A	Aroclor-1262	ND	51 µg/Kg	6/9/2022	AJ	6/10/2022 00:00	PM
3550C/8082A	Aroclor-1268	ND	51 µg/Kg	6/9/2022	AJ	6/10/2022 00:00	PM
WET							
SM 2540G	Total Solids	94	N/A %	6/10/2022	MQ	6/10/2022 00:00	MQ

Client Sample Description RCRA-1
SW Corner
Collected: 6/3/2022
Lab ID: 012208948-0008

<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>	<i>Analysis Date & Analyst</i>
SUBCONTRACT					
Subcontract-Pace Analytical Services	See Attached		N/A		

Client Sample Description RCRA-2
West End
Collected: 6/3/2022
Lab ID: 012208948-0009

<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>	<i>Analysis Date & Analyst</i>
SUBCONTRACT					
Subcontract-Pace Analytical Services	See Attached		N/A		

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Project: 22064 Wolf/Park St. Soil Sampling

Analytical Results

Client Sample Description		RCRA-3 NW Corner	Collected:	6/3/2022	Lab ID:	012208948-0010
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst	
SUBCONTRACT						
Subcontract-Pace Analytical Services	See Attached		N/A			
Client Sample Description		RCRA-4 North End	Collected:	6/3/2022	Lab ID:	012208948-0011
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst	
SUBCONTRACT						
Subcontract-Pace Analytical Services	See Attached		N/A			
Client Sample Description		RCRA-5 NE Corner	Collected:	6/3/2022	Lab ID:	012208948-0012
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst	
SUBCONTRACT						
Subcontract-Pace Analytical Services	See Attached		N/A			
Client Sample Description		RCRA-6 East End	Collected:	6/3/2022	Lab ID:	012208948-0013
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst	
SUBCONTRACT						
Subcontract-Pace Analytical Services	See Attached		N/A			
Client Sample Description		RCRA-7 SE Corner	Collected:	6/3/2022	Lab ID:	012208948-0014
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst	
SUBCONTRACT						
Subcontract-Pace Analytical Services	See Attached		N/A			



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Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results

CERTIFICATIONS

Project: 012208948 6/3

Pace Project No.: 70217802

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 012208948 6/3

Pace Project No.: 70217802

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70217802001	012208948-0008	Solid	06/03/22 00:00	06/09/22 11:00
70217802002	012208948-0009	Solid	06/03/22 00:00	06/09/22 11:00
70217802003	012208948-0010	Solid	06/03/22 00:00	06/09/22 11:00
70217802004	012208948-0011	Solid	06/03/22 00:00	06/09/22 11:00
70217802005	012208948-0012	Solid	06/03/22 00:00	06/09/22 11:00
70217802006	012208948-0013	Solid	06/03/22 00:00	06/09/22 11:00
70217802007	012208948-0014	Solid	06/03/22 00:00	06/09/22 11:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 012208948 6/3
Pace Project No.: 70217802

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70217802001	012208948-0008	EPA 6010D	CAM	7
		EPA 7471B	JJS	1
		ASTM D2216-05M	CEA	1
70217802002	012208948-0009	EPA 6010D	CAM	7
		EPA 7471B	JJS	1
		ASTM D2216-05M	CEA	1
70217802003	012208948-0010	EPA 6010D	CAM	7
		EPA 7471B	JJS	1
		ASTM D2216-05M	CEA	1
70217802004	012208948-0011	EPA 6010D	CAM	7
		EPA 7471B	JJS	1
		ASTM D2216-05M	CEA	1
70217802005	012208948-0012	EPA 6010D	CAM	7
		EPA 7471B	JJS	1
		ASTM D2216-05M	CEA	1
70217802006	012208948-0013	EPA 6010D	CAM	7
		EPA 7471B	JJS	1
		ASTM D2216-05M	CEA	1
70217802007	012208948-0014	EPA 6010D	CAM	7
		EPA 7471B	JJS	1
		ASTM D2216-05M	CEA	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 012208948 6/3

Pace Project No.: 70217802

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
70217802001	012208948-0008					
EPA 6010D	Barium	85.3	mg/kg	53.8	06/21/22 11:49	
EPA 6010D	Chromium	15.4	mg/kg	2.7	06/21/22 11:49	
EPA 6010D	Lead	23.3	mg/kg	1.3	06/21/22 11:49	
ASTM D2216-05M	Percent Moisture	8.9	%	0.10	06/15/22 15:37	
70217802002	012208948-0009					
EPA 6010D	Barium	107	mg/kg	53.4	06/21/22 11:52	
EPA 6010D	Chromium	18.6	mg/kg	2.7	06/21/22 11:52	
EPA 6010D	Lead	116	mg/kg	1.3	06/21/22 11:52	
EPA 7471B	Mercury	0.071	mg/kg	0.043	06/15/22 15:10	
ASTM D2216-05M	Percent Moisture	8.6	%	0.10	06/15/22 15:37	
70217802003	012208948-0010					
EPA 6010D	Arsenic	7.8	mg/kg	2.5	06/21/22 11:54	
EPA 6010D	Barium	128	mg/kg	49.1	06/21/22 11:54	
EPA 6010D	Cadmium	1.6	mg/kg	0.61	06/21/22 11:54	
EPA 6010D	Chromium	30.5	mg/kg	2.5	06/21/22 11:54	
EPA 6010D	Lead	368	mg/kg	1.2	06/21/22 11:54	
EPA 7471B	Mercury	0.36	mg/kg	0.042	06/15/22 15:11	
ASTM D2216-05M	Percent Moisture	10.8	%	0.10	06/15/22 15:37	
70217802004	012208948-0011					
EPA 6010D	Arsenic	7.1	mg/kg	2.5	06/21/22 11:57	
EPA 6010D	Barium	246	mg/kg	50.9	06/21/22 11:57	
EPA 6010D	Cadmium	0.69	mg/kg	0.64	06/21/22 11:57	
EPA 6010D	Chromium	22.0	mg/kg	2.5	06/21/22 11:57	
EPA 6010D	Lead	305	mg/kg	1.3	06/21/22 11:57	
EPA 7471B	Mercury	0.58	mg/kg	0.040	06/15/22 15:13	
ASTM D2216-05M	Percent Moisture	10.4	%	0.10	06/15/22 15:37	
70217802005	012208948-0012					
EPA 6010D	Arsenic	3.3	mg/kg	2.2	06/21/22 11:59	
EPA 6010D	Barium	152	mg/kg	43.4	06/21/22 11:59	
EPA 6010D	Cadmium	12.0	mg/kg	0.54	06/21/22 11:59	
EPA 6010D	Chromium	19.1	mg/kg	2.2	06/21/22 11:59	
EPA 6010D	Lead	534	mg/kg	1.1	06/21/22 11:59	
EPA 6010D	Silver	2.4	mg/kg	2.2	06/21/22 11:59	
EPA 7471B	Mercury	0.65	mg/kg	0.037	06/16/22 10:30	
ASTM D2216-05M	Percent Moisture	4.6	%	0.10	06/15/22 15:37	
70217802006	012208948-0013					
EPA 6010D	Arsenic	8.8	mg/kg	2.6	06/21/22 12:01	
EPA 6010D	Barium	116	mg/kg	51.5	06/21/22 12:01	
EPA 6010D	Cadmium	9.2	mg/kg	0.64	06/21/22 12:01	
EPA 6010D	Chromium	11.8	mg/kg	2.6	06/21/22 12:01	
EPA 6010D	Lead	561	mg/kg	1.3	06/21/22 12:01	
EPA 7471B	Mercury	1.5	mg/kg	0.036	06/16/22 10:31	
ASTM D2216-05M	Percent Moisture	8.4	%	0.10	06/15/22 15:38	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 012208948 6/3

Pace Project No.: 70217802

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
70217802007	012208948-0014					
EPA 6010D	Arsenic	5.4	mg/kg	2.3	06/21/22 12:08	
EPA 6010D	Cadmium	16.6	mg/kg	0.58	06/21/22 12:08	
EPA 6010D	Chromium	9.3	mg/kg	2.3	06/21/22 12:08	
EPA 6010D	Lead	653	mg/kg	1.2	06/21/22 12:08	
EPA 6010D	Silver	3.1	mg/kg	2.3	06/21/22 12:08	
EPA 7471B	Mercury	0.49	mg/kg	0.038	06/16/22 10:33	
ASTM D2216-05M	Percent Moisture	4.6	%	0.10	06/15/22 15:38	

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ANALYTICAL RESULTS

Project: 012208948 6/3
Pace Project No.: 70217802

Sample: 012208948-0008 Lab ID: 70217802001 Collected: 06/03/22 00:00 Received: 06/09/22 11:00 Matrix: Solid

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

Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Melville									
Arsenic	<2.7	mg/kg	2.7	1.3	5	06/14/22 08:05	06/21/22 11:49	7440-38-2	
Barium	85.3	mg/kg	53.8	3.2	5	06/14/22 08:05	06/21/22 11:49	7440-39-3	
Cadmium	<0.67	mg/kg	0.67	0.076	5	06/14/22 08:05	06/21/22 11:49	7440-43-9	
Chromium	15.4	mg/kg	2.7	1.1	5	06/14/22 08:05	06/21/22 11:49	7440-47-3	
Lead	23.3	mg/kg	1.3	0.69	5	06/14/22 08:05	06/21/22 11:49	7439-92-1	
Selenium	<2.7	mg/kg	2.7	1.6	5	06/14/22 08:05	06/21/22 11:49	7782-49-2	
Silver	<2.7	mg/kg	2.7	0.33	5	06/14/22 08:05	06/21/22 11:49	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Melville									
Mercury	<0.041	mg/kg	0.041	0.027	1	06/14/22 14:03	06/15/22 15:08	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2216-05M									
Pace Analytical Services - Melville									
Percent Moisture	8.9	%	0.10	0.10	1		06/15/22 15:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 012208948 6/3
Pace Project No.: 70217802

Sample: 012208948-0009 Lab ID: 70217802002 Collected: 06/03/22 00:00 Received: 06/09/22 11:00 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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Melville									
Arsenic	<2.7	mg/kg	2.7	1.3	5	06/14/22 08:05	06/21/22 11:52	7440-38-2	
Barium	107	mg/kg	53.4	3.2	5	06/14/22 08:05	06/21/22 11:52	7440-39-3	
Cadmium	<0.67	mg/kg	0.67	0.076	5	06/14/22 08:05	06/21/22 11:52	7440-43-9	
Chromium	18.6	mg/kg	2.7	1.1	5	06/14/22 08:05	06/21/22 11:52	7440-47-3	
Lead	116	mg/kg	1.3	0.69	5	06/14/22 08:05	06/21/22 11:52	7439-92-1	
Selenium	<2.7	mg/kg	2.7	1.6	5	06/14/22 08:05	06/21/22 11:52	7782-49-2	
Silver	<2.7	mg/kg	2.7	0.33	5	06/14/22 08:05	06/21/22 11:52	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Melville									
Mercury	0.071	mg/kg	0.043	0.028	1	06/14/22 14:03	06/15/22 15:10	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2216-05M									
Pace Analytical Services - Melville									
Percent Moisture	8.6	%	0.10	0.10	1		06/15/22 15:37		

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ANALYTICAL RESULTS

Project: 012208948 6/3

Pace Project No.: 70217802

Sample: 012208948-0010 Lab ID: 70217802003 Collected: 06/03/22 00:00 Received: 06/09/22 11:00 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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Melville									
Arsenic	7.8	mg/kg	2.5	1.2	5	06/14/22 08:05	06/21/22 11:54	7440-38-2	
Barium	128	mg/kg	49.1	3.0	5	06/14/22 08:05	06/21/22 11:54	7440-39-3	
Cadmium	1.6	mg/kg	0.61	0.070	5	06/14/22 08:05	06/21/22 11:54	7440-43-9	
Chromium	30.5	mg/kg	2.5	0.99	5	06/14/22 08:05	06/21/22 11:54	7440-47-3	
Lead	368	mg/kg	1.2	0.63	5	06/14/22 08:05	06/21/22 11:54	7439-92-1	
Selenium	<2.5	mg/kg	2.5	1.4	5	06/14/22 08:05	06/21/22 11:54	7782-49-2	
Silver	<2.5	mg/kg	2.5	0.30	5	06/14/22 08:05	06/21/22 11:54	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Melville									
Mercury	0.36	mg/kg	0.042	0.027	1	06/14/22 14:03	06/15/22 15:11	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2216-05M									
Pace Analytical Services - Melville									
Percent Moisture	10.8	%	0.10	0.10	1		06/15/22 15:37		

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ANALYTICAL RESULTS

Project: 012208948 6/3

Pace Project No.: 70217802

Sample: 012208948-0011 **Lab ID: 70217802004** Collected: 06/03/22 00:00 Received: 06/09/22 11:00 Matrix: Solid

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

Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Melville									
Arsenic	7.1	mg/kg	2.5	1.2	5	06/14/22 08:05	06/21/22 11:57	7440-38-2	
Barium	246	mg/kg	50.9	3.1	5	06/14/22 08:05	06/21/22 11:57	7440-39-3	
Cadmium	0.69	mg/kg	0.64	0.072	5	06/14/22 08:05	06/21/22 11:57	7440-43-9	
Chromium	22.0	mg/kg	2.5	1.0	5	06/14/22 08:05	06/21/22 11:57	7440-47-3	
Lead	305	mg/kg	1.3	0.65	5	06/14/22 08:05	06/21/22 11:57	7439-92-1	
Selenium	<2.5	mg/kg	2.5	1.5	5	06/14/22 08:05	06/21/22 11:57	7782-49-2	
Silver	<2.5	mg/kg	2.5	0.32	5	06/14/22 08:05	06/21/22 11:57	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Melville									
Mercury	0.58	mg/kg	0.040	0.026	1	06/14/22 14:03	06/15/22 15:13	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2216-05M									
Pace Analytical Services - Melville									
Percent Moisture	10.4	%	0.10	0.10	1		06/15/22 15:37		

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ANALYTICAL RESULTS

Project: 012208948 6/3

Pace Project No.: 70217802

Sample: 012208948-0012 **Lab ID:** 70217802005 **Collected:** 06/03/22 00:00 **Received:** 06/09/22 11:00 **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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Melville									
Arsenic	3.3	mg/kg	2.2	1.0	5	06/14/22 08:05	06/21/22 11:59	7440-38-2	
Barium	152	mg/kg	43.4	2.6	5	06/14/22 08:05	06/21/22 11:59	7440-39-3	
Cadmium	12.0	mg/kg	0.54	0.062	5	06/14/22 08:05	06/21/22 11:59	7440-43-9	
Chromium	19.1	mg/kg	2.2	0.88	5	06/14/22 08:05	06/21/22 11:59	7440-47-3	
Lead	534	mg/kg	1.1	0.56	5	06/14/22 08:05	06/21/22 11:59	7439-92-1	
Selenium	<2.2	mg/kg	2.2	1.3	5	06/14/22 08:05	06/21/22 11:59	7782-49-2	
Silver	2.4	mg/kg	2.2	0.27	5	06/14/22 08:05	06/21/22 11:59	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Melville									
Mercury	0.65	mg/kg	0.037	0.024	1	06/14/22 14:03	06/16/22 10:30	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2216-05M									
Pace Analytical Services - Melville									
Percent Moisture	4.6	%	0.10	0.10	1		06/15/22 15:37		

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ANALYTICAL RESULTS

Project: 012208948 6/3

Pace Project No.: 70217802

Sample: 012208948-0013 **Lab ID:** 70217802006 **Collected:** 06/03/22 00:00 **Received:** 06/09/22 11:00 **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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Melville									
Arsenic	8.8	mg/kg	2.6	1.2	5	06/14/22 08:05	06/21/22 12:01	7440-38-2	
Barium	116	mg/kg	51.5	3.1	5	06/14/22 08:05	06/21/22 12:01	7440-39-3	
Cadmium	9.2	mg/kg	0.64	0.073	5	06/14/22 08:05	06/21/22 12:01	7440-43-9	
Chromium	11.8	mg/kg	2.6	1.0	5	06/14/22 08:05	06/21/22 12:01	7440-47-3	
Lead	561	mg/kg	1.3	0.66	5	06/14/22 08:05	06/21/22 12:01	7439-92-1	
Selenium	<2.6	mg/kg	2.6	1.5	5	06/14/22 08:05	06/21/22 12:01	7782-49-2	
Silver	<2.6	mg/kg	2.6	0.32	5	06/14/22 08:05	06/21/22 12:01	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Melville									
Mercury	1.5	mg/kg	0.036	0.023	1	06/14/22 14:03	06/16/22 10:31	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2216-05M									
Pace Analytical Services - Melville									
Percent Moisture	8.4	%	0.10	0.10	1		06/15/22 15:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 012208948 6/3

Pace Project No.: 70217802

Sample: 012208948-0014 **Lab ID:** 70217802007 **Collected:** 06/03/22 00:00 **Received:** 06/09/22 11:00 **Matrix:** Solid

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

Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Melville									
Arsenic	5.4	mg/kg	2.3	1.1	5	06/14/22 08:05	06/21/22 12:08	7440-38-2	
Barium	<46.6	mg/kg	46.6	2.8	5	06/14/22 08:05	06/21/22 12:08	7440-39-3	
Cadmium	16.6	mg/kg	0.58	0.066	5	06/14/22 08:05	06/21/22 12:08	7440-43-9	
Chromium	9.3	mg/kg	2.3	0.94	5	06/14/22 08:05	06/21/22 12:08	7440-47-3	
Lead	653	mg/kg	1.2	0.60	5	06/14/22 08:05	06/21/22 12:08	7439-92-1	
Selenium	<2.3	mg/kg	2.3	1.4	5	06/14/22 08:05	06/21/22 12:08	7782-49-2	
Silver	3.1	mg/kg	2.3	0.29	5	06/14/22 08:05	06/21/22 12:08	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Melville									
Mercury	0.49	mg/kg	0.038	0.024	1	06/14/22 14:03	06/16/22 10:33	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2216-05M									
Pace Analytical Services - Melville									
Percent Moisture	4.6	%	0.10	0.10	1		06/15/22 15:38		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 012208948 6/3
Pace Project No.: 70217802

QC Batch: 260663 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70217802001, 70217802002, 70217802003, 70217802004

METHOD BLANK: 1316163 Matrix: Solid
Associated Lab Samples: 70217802001, 70217802002, 70217802003, 70217802004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.039	0.039	0.025	06/15/22 14:32	

LABORATORY CONTROL SAMPLE: 1316164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.19	0.17	90	80-120	

MATRIX SPIKE SAMPLE: 1316165

Parameter	Units	70217097004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.040	0.2	0.31	137	80-120 M1	

SAMPLE DUPLICATE: 1316166

Parameter	Units	70217097004 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.040	<0.040		20	

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QUALITY CONTROL DATA

Project: 012208948 6/3

Pace Project No.: 70217802

QC Batch: 260665

Analysis Method: EPA 7471B

QC Batch Method: EPA 7471B

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70217802005, 70217802006, 70217802007

METHOD BLANK: 1316168

Matrix: Solid

Associated Lab Samples: 70217802005, 70217802006, 70217802007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.037	0.037	0.024	06/16/22 10:19	

LABORATORY CONTROL SAMPLE: 1316169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.2	0.20	99	80-120	

MATRIX SPIKE SAMPLE: 1316170

Parameter	Units	70217629001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.64	0.46	1.4	164	80-120 M1	

SAMPLE DUPLICATE: 1316171

Parameter	Units	70217629001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.64	0.68	6	20	

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QUALITY CONTROL DATA

Project: 012208948 6/3

Pace Project No.: 70217802

QC Batch: 260553

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70217802001, 70217802002, 70217802003, 70217802004, 70217802005, 70217802006, 70217802007

METHOD BLANK: 1315547

Matrix: Solid

Associated Lab Samples: 70217802001, 70217802002, 70217802003, 70217802004, 70217802005, 70217802006, 70217802007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	<0.49	0.49	0.23	06/21/22 11:45	
Barium	mg/kg	<9.7	9.7	0.59	06/21/22 11:45	
Cadmium	mg/kg	<0.12	0.12	0.014	06/21/22 11:45	
Chromium	mg/kg	<0.49	0.49	0.20	06/21/22 11:45	
Lead	mg/kg	<0.24	0.24	0.13	06/21/22 11:45	
Selenium	mg/kg	<0.49	0.49	0.29	06/21/22 11:45	
Silver	mg/kg	<0.49	0.49	0.060	06/21/22 11:45	

LABORATORY CONTROL SAMPLE: 1315548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	109	82.9	76	75-106	
Barium	mg/kg	364	316	87	77-110	
Cadmium	mg/kg	48.7	42.5	87	75-106	
Chromium	mg/kg	173	151	87	76-110	
Lead	mg/kg	101	88.9	88	81-115	
Selenium	mg/kg	104	86.9	84	71-110	
Silver	mg/kg	29.9	24.2	81	75-113	

MATRIX SPIKE SAMPLE: 1315550

Parameter	Units	70217924003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	5.9	31.8	41.3	111	75-125	
Barium	mg/kg	124	31.8	178	171	75-125	M1
Cadmium	mg/kg	0.28J	31.8	37.8	118	75-125	
Chromium	mg/kg	24.3	31.8	62.3	120	75-125	
Lead	mg/kg	8.4	31.8	48.3	125	75-125	
Selenium	mg/kg	<2.2	31.8	36.9	111	75-125	
Silver	mg/kg	1.4J	15.9	17.3	100	75-125	

SAMPLE DUPLICATE: 1315549

Parameter	Units	70217924003 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	5.9	<3.8		20	
Barium	mg/kg	124	117	6	20	
Cadmium	mg/kg	0.28J	<0.96		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 012208948 6/3

Pace Project No.: 70217802

SAMPLE DUPLICATE: 1315549

Parameter	Units	70217924003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium	mg/kg	24.3	24.7	1	20	
Lead	mg/kg	8.4	9.2	9	20	
Selenium	mg/kg	<2.2	<3.8		20	
Silver	mg/kg	1.4J	<3.8		20	

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.

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QUALITY CONTROL DATA

Project: 012208948 6/3

Pace Project No.: 70217802

QC Batch: 260784

Analysis Method: ASTM D2216-05M

QC Batch Method: ASTM D2216-05M

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70217802001, 70217802002, 70217802003, 70217802004, 70217802005, 70217802006, 70217802007

SAMPLE DUPLICATE: 1316818

Parameter	Units	70218167001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.3	26.7	9	20	

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

QUALIFIERS

Project: 012208948 6/3
Pace Project No.: 70217802

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.
TNTC - Too Numerous To Count
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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
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.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 012208948 6/3
Pace Project No.: 70217802

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70217802001	012208948-0008	EPA 3050B	260553	EPA 6010D	260619
70217802002	012208948-0009	EPA 3050B	260553	EPA 6010D	260619
70217802003	012208948-0010	EPA 3050B	260553	EPA 6010D	260619
70217802004	012208948-0011	EPA 3050B	260553	EPA 6010D	260619
70217802005	012208948-0012	EPA 3050B	260553	EPA 6010D	260619
70217802006	012208948-0013	EPA 3050B	260553	EPA 6010D	260619
70217802007	012208948-0014	EPA 3050B	260553	EPA 6010D	260619
70217802001	012208948-0008	EPA 7471B	260663	EPA 7471B	260688
70217802002	012208948-0009	EPA 7471B	260663	EPA 7471B	260688
70217802003	012208948-0010	EPA 7471B	260663	EPA 7471B	260688
70217802004	012208948-0011	EPA 7471B	260663	EPA 7471B	260688
70217802005	012208948-0012	EPA 7471B	260665	EPA 7471B	260689
70217802006	012208948-0013	EPA 7471B	260665	EPA 7471B	260689
70217802007	012208948-0014	EPA 7471B	260665	EPA 7471B	260689
70217802001	012208948-0008	ASTM D2216-05M	260784		
70217802002	012208948-0009	ASTM D2216-05M	260784		
70217802003	012208948-0010	ASTM D2216-05M	260784		
70217802004	012208948-0011	ASTM D2216-05M	260784		
70217802005	012208948-0012	ASTM D2216-05M	260784		
70217802006	012208948-0013	ASTM D2216-05M	260784		
70217802007	012208948-0014	ASTM D2216-05M	260784		

REPORT OF LABORATORY ANALYSIS

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Chain of Custody / Analysis Request Form Print ALL Information. Incomplete chain of custody could result in the delay of analysis.				EMSL Project # 012208948 Account Rep: <u>CHUE80</u> Indicate State where samples were collected: <u>NY</u>			
EMSL Analytical, Inc. Environmental Chemistry Lab Service 200 Route 130 North, Cinnaminson, NJ 08077 TEL: (856) 858-4800 FAX: (856) 786-5974				SEND INVOICE TO: Name: PO#: _____ Company _____ Address: 200 Route 130 North City: Cinnaminson State: NJ Zip: 08077 Tel: 800-220-3675 Fax: 856-854-2362			
REPORT RESULTS TO: Name: Debbie Kreider PO#: _____ Company EMSL Analytical, Inc. Address: 200 Route 130 North City: Cinnaminson State: NJ Zip: 08077 Tel: 856-303-2548 ext. 2548 Fax: 856-854-2362 Email: dkreider@emsl.com talbert@emsl.com				Turnaround Time – 10 Business Days DUE 6/23 Pace-Long Island 575 Broadhollow Road Melville, NY 11747 PROJECT NAME: Date of Sample Shipment: 6/6/22			
# of Samples in Shipment: <u>1</u>				List Method and Test Needed			
Sampled by: (Signature) _____				Matrix			
Lab Sample Number				Preservative			
Client Sample ID				DATE			
Comp				TIME			
Grab				RCRA 8 metals			
WASTE WATER				SOIL			
AIR				SLUDGE			
OTHER				HCl			
HNO3				Na2S2O3			
ICE				DATE			
1. 012208948-0008				6/3			
2. 012208948-0009				6/3			
3. 012208948-0010				6/3			
4. 012208948-0011				6/3			
5. 012208948-0012				6/3			
6. 012208948-0013				6/3			
7. 012208948-0014				6/3			
8.				Condition Noted			
Released By Signature				Date & Time Received			
6/6/22				6/6/22 1:00			
Delivery Method				Agency			
FedEx				Dec 4			
Received By Signature				Date & Time Received			
6/6/22				6/6/22 1:00			
Please indicate reporting requirements: ☐ 1. Results Only ☒ 2. Results and QC ☐ 3. Reduced Deliverables ☐ 4. Disk Deliverable ☐ 5. Other							
Comments: Please analyze for RCRA 8 metals (As, Ba, Cd, Cr, Pb, Hg, Se and Ag)							

WO#: 70217802



70217802



Sample Condition Upon Receipt

WO#: 70217802

Client Name:

Project

PM: KMM

Due Date: 06/16/22

CLIENT: EMSL-NJ

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 2741 0370 3740

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No ☒ N/ATemperature Blank Present: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Type of Ice: Wet Blue None

Thermometer Used: H109T H189

Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 12.1

Cooler Temperature Corrected(°C): 15.2

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents: AD 6/10/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

Did samples originate from a foreign source

NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☒ Noincluding Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☒ Yes	☐ No		1.
Chain of Custody Filled Out:	☒ Yes	☐ No		2.
Chain of Custody Relinquished:	☒ Yes	☐ No		3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume: (Triple volume provided for)	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
-Pace Containers Used:	☐ Yes	☐ No		
Containers Intact:	☒ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SLWT OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation?				
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☐ Yes ☐ No ☒ N/A				
NaOH>12 Cyanide)				
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				
Per Method, VOA pH is checked after analysis				Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☒ N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #				
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☒ N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☒ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☒ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM [Project Manager] review is documented electronically in LIMS.

ENV-FRM-MELV-0024 01



If you have any questions regarding this report, please feel free to call our office.

Sincerely,

A handwritten signature in cursive script, appearing to read "Joe Nanno".

Joe Nanno
Project Manager
Churchill Environmental, Inc.