

APPENDIX A: SOIL BORING LOGS AND SEDIMENT ANALYSIS REPORT

Spring Harbor Dredge Results

Prepared on: June 14, 2022 by Brynn Bemis, City of Madison Engineering (608.695.1385, bbemis@cityofmadison.com)
 Sampled: February 23-24, 2021 and May 27, 2022

Depth of Sediment (ft BGS)	Boring ID	SC1 Date Collected	SC2 Date Collected	SC3 Date Collected	SC4 Date Collected	SC5 Date Collected	SC6 Date Collected	SC7 Date Collected	SC8 Date Collected	NR 720 Non-Industrial Not-To Exceed Direct Contract RCLs	Wisconsin Background Threshold Values	NR 720 Groundwater Pathway RCL
		2/23/2021	2/23/2021	2/24/2021	2/24/2021	2/24/2021	5/27/2022	5/27/2022	5/27/2022			
		0'-6"	0'-6"	0'-6"	0'-5"	0'-3'	0-3 ft	0-3 ft	0-4 ft			
		silt/clay	silt/clay	1" sand, then silt/clay	1" sand, then silt/clay	silt/clay	silt	silt	silt/sand			
Arsenic	mg/kg	4.5	4.0 J	3.3 J	3.9 J	3.0 J	<2.7	3.7	4.5 J	0.677	8.0	0.584
Cadmium	mg/kg	0.42 J	0.59 J	0.46 J	0.24 J	0.24 J	<0.24	0.38 J	0.61 J	71.1	1.0	0.752
Chromium	mg/kg	24.0	26.2	22.5	25.5	14.5	8.4	18.8	28.3	100,000	44	360,000
Copper	mg/kg	32.4	35.6	29.6	16.6	16.8	11.8	26.7	30.6	3,130	35	91.6
Lead	mg/kg	50.4	53.3	53.7	16.4	22.9	7.4	27.8	65.4	400	52	27.0
Nickel	mg/kg	21.2	17.8	14.3	19.1	8.8	NA	NA	NA	1,550	31	13.1
Zinc	mg/kg	76.4	176	116	68.2	76.5	46.4	127	152	23,500	150	NE
Mercury	mg/kg	0.029 J	0.037 J	0.030 J	0.021 J	<0.018	<0.017	<0.020	0.021 J	3.13	NE	0.208
PCBs, Total	ug/kg	26.8 J	42.8 J	42.8 J	312	82.0	<28.1	32.9	<28.6	234	NE	9.38
Nitrogen, Ammonia	mg/kg	406	561	158	312	82.0	NA	NA	NA	NE	NE	NE
Nitrogen, NO2 plus NO3	mg/kg	1.9 J	1.9 J	1.9 J	1.9 J	1.9 J	NA	NA	NA	NE	NE	NE
Phosphorus	mg/kg	630	824	494	704	425	NA	NA	NA	NE	NE	NE
Total Organic Carbon	mg/kg	23400	30200	30500	26100	24000	NA	NA	NA	NE	NE	NE
Total Organic Carbon	mg/kg	27600	36100	32900	27200	27400	NA	NA	NA	NE	NE	NE
Mean Total Organic Carbon	mg/kg	25500	33200	31700	26700	25700	31,200	4,700	38,300	NE	NE	NE
RPD%	%	16.3	17.7	7.6	4.1	13.4	NA	NA	NA	--	--	--
Percent Moisture	%	35.2	47.3	46.3	39.8	45.9	47.4	53.9	46.7	--	--	--
1-Methylnaphthalene	ug/kg	<17.6	<16.2	<15.5	<11.1	<11.1	<13.2	<11.2	<12.9	17,600	NE	NE
2-Methylnaphthalene	ug/kg	<37.6	<46.3	<44.1	<41.1	<41.5	<33.2	<12.2	<23.9	239,000	NE	NE
Acenaphthene	ug/kg	47.0 J	51.5 J	44.0	10.7 J	8.9 J	63.9 J	19.3 J	29.2 J	3,590,000	NE	NE
Acenaphthylene	ug/kg	<31.4	<33.9	<33.9	<31.6	<31.6	<31.0	<15.3	<15.6	NE	NE	NE
Anthracene	ug/kg	144 J	183 J	143 J	31.7	31.7	149 J	35.7 J	107 J	17,900,000	NE	196,949
Benzo(a)anthracene	ug/kg	800	975	41.9	20.5 J	136	606	350	564	1140 (GPAH)	NE	NE
Benzo(a)pyrene	ug/kg	1020	1220	71.8	127	162	570	417	593	115 (GPAH)	NE	470
Benzo(b)fluoranthene	ug/kg	1670	1810	113	207	242	807	770	991	1150 (GPAH)	NE	478
Benzo(g,h,i)perylene	ug/kg	929	1170	62.0	101	138	394	330	465	NE	NE	NE
Benzo(k)fluoranthene	ug/kg	591	663	49.9	82.3	92.3	340	293	384	115000 (GPAH)	NE	NE
Chrysene	ug/kg	1290	1470	96.4	162	162	810	557	790	115000 (GPAH)	NE	144
Dibenz(a,h)anthracene	ug/kg	217 J	285 J	13 J	25.8 J	34.1	101 J	68.7 J	99 J	115 (GPAH)	NE	NE
Fluoranthene	ug/kg	3010	2930	185	372	350	1920	1180	1690	2,390,000	NE	88,878
Fluorene	ug/kg	76.3 J	89.3 J	3.9 J	14.2 J	10.4 J	87.9 J	32 J	49.4 J	2,390,000	NE	14,830
Indeno(1,2,3-cd)pyrene	ug/kg	772	979	51.0	85.5	119	362	268	412	1150 (GPAH)	NE	NE
Naphthalene	ug/kg	<51.1	<30.8	<31.0	3.3 J	<31.0	<35.5	<14.1	<15.3	5,620	NE	658
Phenanthrene	ug/kg	1030	1240	61.1	163	147	1160	457	733	NE	NE	NE
Pyrene	ug/kg	2300	2230	137	264	272	1480	879	1330	1,790,000	NE	54,546
Cumulative cPAHs Cancer Risk (DC)	DC	1.4E-05	1.6E-05	9.2E-07	1.7E-06	2.1E-06	7.4E-6	5.4E-6	7.80E-06	NR722 cPAH Evaluation: This section evaluates the cumulative cancer risk posed by seven carcinogenic PAHs. It uses a calculated cancer risk value of 5x10 ⁻⁶ to assess non-industrial direct contact risk, following the process outlined in RR-087 and RR-079.		
No. of Individual Exceedances (DC)	DC	3	3	0	1	1	1	1	1			
Cumulative Hazard Index		0.0635	0.2732	0.1838	0.0372	0.0423	0.0351	0.026	0.2088			
Cumulative Cancer Risk		1.4E-05	1.6E-05	1.9E-06	2.5E-06	2.9E-06	7.4E-6	5.60E-06	8.00E-06			

BOLD + Underlined - Values met or exceed a Direct Contact RCL, as of April 2021.
BOLD + Italics = Values met or exceed a Groundwater Pathway RCL, as of April 2021
 NR 720 RCLs were calculated using the EPA Regional Screening Level Web Calculator.
 J - Result is less than the reporting limit but greater than or equal to the method detection limit--the concentration is approximated.
 mg or ug/kg = milligrams or micrograms per kilogram or parts per million (ppm)
 NE = Not Established
 PAHs = Polycyclic aromatic hydrocarbons
 PCBs = Polychlorinated biphenyls
 cPAH = carcinogenic PAH
 DC = Direct contact



Time: 6/14/2022 11:09:30 AM
Session: C:\Users\enblb2\Desktop\Brynn.gts
City of Madison, WI - GIS/Mapping data
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March 29, 2021

Brynn Bemis
City of Madison - Department of Engineering
210 Martin Luther King Jr Blvd
Room 115
Madison, WI 53703

RE: Project: SPRING HARBOR
Pace Project No.: 40223291

Dear Brynn Bemis:

Enclosed are the analytical results for sample(s) received by the laboratory between March 12, 2021 and March 15, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Green Bay
- Pace Analytical Services - Minneapolis

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: SPRING HARBOR
Pace Project No.: 40223291

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932

Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487

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CERTIFICATIONS

Project: SPRING HARBOR
Pace Project No.: 40223291

Pace Analytical Services National

Georgia DW Certification #: 923	North Carolina Drinking Water Certification #: 21704
Georgia Certification: NELAP	North Carolina Environmental Certificate #: 375
Idaho Certification #: TN00003	North Dakota Certification #: R-140
Illinois Certification #: 200008	Ohio VAP Certification #: CL0069
Indiana Certification #: C-TN-01	Oklahoma Certification #: 9915
Iowa Certification #: 364	Oregon Certification #: TN200002
Kansas Certification #: E-10277	Pennsylvania Certification #: 68-02979
Kentucky UST Certification #: 16	Rhode Island Certification #: LAO00356
Kentucky Certification #: 90010	South Carolina Certification #: 84004
Louisiana Certification #: AI30792	South Dakota Certification
Louisiana DW Certification #: LA180010	Tennessee DW/Chem/Micro Certification #: 2006
Maine Certification #: TN0002	Texas Certification #: T 104704245-17-14
Maryland Certification #: 324	Texas Mold Certification #: LAB0152
Massachusetts Certification #: M-TN003	USDA Soil Permit #: P330-15-00234
Michigan Certification #: 9958	Utah Certification #: TN00003
Minnesota Certification #: 047-999-395	Virginia Certification #: VT2006
Mississippi Certification #: TN00003	Vermont Dept. of Health: ID# VT-2006
Missouri Certification #: 340	Virginia Certification #: 460132
Montana Certification #: CERT0086	Washington Certification #: C847
Nebraska Certification #: NE-OS-15-05	West Virginia Certification #: 233
Nevada Certification #: TN-03-2002-34	Wisconsin Certification #: 998093910
New Hampshire Certification #: 2975	Wyoming UST Certification #: via A2LA 2926.01
New Jersey Certification #: TN002	A2LA-ISO 17025 Certification #: 1461.01
New Mexico DW Certification	A2LA-ISO 17025 Certification #: 1461.02
New York Certification #: 11742	AIHA-LAP/LLC EMLAP Certification #:100789
North Carolina Aquatic Toxicity Certification #: 41	

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804	North Carolina Wastewater Certification #: 40
Florida/NELAP Certification #: E87648	South Carolina Certification #: 99030001
North Carolina Drinking Water Certification #: 37712	Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: SPRING HARBOR

Pace Project No.: 40223291

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40223291001	SC1 TOP	Solid	02/23/21 10:00	03/12/21 07:45
40223291002	SC2 TOP	Solid	02/23/21 11:30	03/12/21 07:45
40223291003	SC3 TOP	Solid	02/24/21 10:00	03/12/21 07:45
40223291004	SC4 TOP	Solid	02/24/21 11:30	03/12/21 07:45
40223291005	SC5 TOP	Solid	02/24/21 12:30	03/12/21 07:45
40223291006	LF	Solid	02/23/21 00:00	03/15/21 07:45

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SAMPLE ANALYTE COUNT

Project: SPRING HARBOR
Pace Project No.: 40223291

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40223291001	SC1 TOP	EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	JJB	20	PASI-G
		ASTM D2974-87	SRK	1	PASI-G
		EPA 350.1	TMK	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 365.4	DAW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
40223291002	SC2 TOP	EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	JJB	20	PASI-G
		ASTM D2974-87	SRK	1	PASI-G
		EPA 350.1	TMK	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 365.4	DAW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
40223291003	SC3 TOP	EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	JJB	20	PASI-G
		ASTM D2974-87	SRK	1	PASI-G
		EPA 350.1	TMK	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 365.4	DAW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
40223291004	SC4 TOP	EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	JJB	20	PASI-G
		ASTM D2974-87	SRK	1	PASI-G
		EPA 350.1	TMK	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 365.4	DAW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
40223291005	SC5 TOP	EPA 8082	BLM	10	PASI-G

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SAMPLE ANALYTE COUNT

Project: SPRING HARBOR

Pace Project No.: 40223291

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	JJB	20	PASI-G
		ASTM D2974-87	SRK	1	PASI-G
		EPA 350.1	TMK	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 365.4	DAW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
40223291006	LF	EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	10	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270E	JJB	17	PASI-G
		EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	SRK	1	PASI-G
		EPA 1010	HNT	1	PASI-G
		EPA 9012B	SDL	1	PAN
		EPA 9030B	LDT	1	PAN
		EPA 9066	SDL	1	PAN
		EPA 9040	ALY	1	PASI-G
		EPA 9071	EPT	1	PASI-M
		EPA 9076	NAF	1	PASI-A
		EPA 9095	EXM	1	PASI-G

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-G = Pace Analytical Services - Green Bay

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: SC1 TOP **Lab ID: 40223291001** Collected: 02/23/21 10:00 Received: 03/12/21 07:45 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<23.5	ug/kg	77.2	23.5	1	03/16/21 06:00	03/16/21 18:49	12674-11-2	
PCB-1221 (Aroclor 1221)	<23.5	ug/kg	77.2	23.5	1	03/16/21 06:00	03/16/21 18:49	11104-28-2	
PCB-1232 (Aroclor 1232)	<23.5	ug/kg	77.2	23.5	1	03/16/21 06:00	03/16/21 18:49	11141-16-5	
PCB-1242 (Aroclor 1242)	<23.5	ug/kg	77.2	23.5	1	03/16/21 06:00	03/16/21 18:49	53469-21-9	
PCB-1248 (Aroclor 1248)	<23.5	ug/kg	77.2	23.5	1	03/16/21 06:00	03/16/21 18:49	12672-29-6	
PCB-1254 (Aroclor 1254)	26.8J	ug/kg	77.2	23.5	1	03/16/21 06:00	03/16/21 18:49	11097-69-1	
PCB-1260 (Aroclor 1260)	<23.5	ug/kg	77.2	23.5	1	03/16/21 06:00	03/16/21 18:49	11096-82-5	
PCB, Total	26.8J	ug/kg	77.2	23.5	1	03/16/21 06:00	03/16/21 18:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	67-102		1	03/16/21 06:00	03/16/21 18:49	877-09-8	
Decachlorobiphenyl (S)	80	%	47-114		1	03/16/21 06:00	03/16/21 18:49	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	4.5	mg/kg	3.8	2.2	1	03/16/21 07:01	03/16/21 20:25	7440-38-2	
Cadmium	0.42J	mg/kg	0.77	0.20	1	03/16/21 07:01	03/16/21 20:25	7440-43-9	
Chromium	24.0	mg/kg	1.5	0.43	1	03/16/21 07:01	03/16/21 20:25	7440-47-3	
Copper	32.4	mg/kg	1.5	0.42	1	03/16/21 07:01	03/16/21 20:25	7440-50-8	
Lead	50.4	mg/kg	3.1	0.92	1	03/16/21 07:01	03/16/21 20:25	7439-92-1	
Nickel	21.2	mg/kg	1.5	0.41	1	03/16/21 07:01	03/16/21 20:25	7440-02-0	
Zinc	76.4	mg/kg	6.1	1.8	1	03/16/21 07:01	03/16/21 20:25	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.029J	mg/kg	0.049	0.014	1	03/19/21 09:51	03/22/21 11:30	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	47.0J	ug/kg	257	33.4	10	03/23/21 09:28	03/24/21 17:33	83-32-9	H3
Acenaphthylene	<32.4	ug/kg	257	32.4	10	03/23/21 09:28	03/24/21 17:33	208-96-8	H3
Anthracene	144J	ug/kg	257	31.9	10	03/23/21 09:28	03/24/21 17:33	120-12-7	H3
Benzo(a)anthracene	800	ug/kg	257	33.3	10	03/23/21 09:28	03/24/21 17:33	56-55-3	H3
Benzo(a)pyrene	1020	ug/kg	257	29.2	10	03/23/21 09:28	03/24/21 17:33	50-32-8	H3
Benzo(b)fluoranthene	1670	ug/kg	257	35.7	10	03/23/21 09:28	03/24/21 17:33	205-99-2	H3
Benzo(g,h,i)perylene	929	ug/kg	257	45.2	10	03/23/21 09:28	03/24/21 17:33	191-24-2	H3
Benzo(k)fluoranthene	591	ug/kg	257	32.9	10	03/23/21 09:28	03/24/21 17:33	207-08-9	H3
Chrysene	1290	ug/kg	257	48.5	10	03/23/21 09:28	03/24/21 17:33	218-01-9	H3
Dibenz(a,h)anthracene	217J	ug/kg	257	35.6	10	03/23/21 09:28	03/24/21 17:33	53-70-3	H3
Fluoranthene	3010	ug/kg	257	30.5	10	03/23/21 09:28	03/24/21 17:33	206-44-0	H3
Fluorene	76.3J	ug/kg	257	30.9	10	03/23/21 09:28	03/24/21 17:33	86-73-7	H3
Indeno(1,2,3-cd)pyrene	772	ug/kg	257	53.6	10	03/23/21 09:28	03/24/21 17:33	193-39-5	H3
1-Methylnaphthalene	<37.6	ug/kg	257	37.6	10	03/23/21 09:28	03/24/21 17:33	90-12-0	H3
2-Methylnaphthalene	<37.6	ug/kg	257	37.6	10	03/23/21 09:28	03/24/21 17:33	91-57-6	H3
Naphthalene	<25.1	ug/kg	257	25.1	10	03/23/21 09:28	03/24/21 17:33	91-20-3	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: SC1 TOP **Lab ID: 40223291001** Collected: 02/23/21 10:00 Received: 03/12/21 07:45 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Phenanthrene	1030	ug/kg	257	29.5	10	03/23/21 09:28	03/24/21 17:33	85-01-8	H3
Pyrene	2300	ug/kg	257	37.8	10	03/23/21 09:28	03/24/21 17:33	129-00-0	H3
Surrogates									
2-Fluorobiphenyl (S)	57	%	17-100		10	03/23/21 09:28	03/24/21 17:33	321-60-8	
Terphenyl-d14 (S)	74	%	17-98		10	03/23/21 09:28	03/24/21 17:33	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	35.2	%	0.10	0.10	1		03/15/21 13:15		
350.1 Ammonia									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1									
Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	406	mg/kg	32.0	9.6	1	03/16/21 14:46	03/16/21 17:08	7664-41-7	
353.2 Nitrogen, NO2/NO3									
Analytical Method: EPA 353.2 Preparation Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<1.5	mg/kg	4.9	1.5	1	03/18/21 14:00	03/19/21 10:44		
365.4 Total Phosphorus									
Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Pace Analytical Services - Green Bay									
Phosphorus	630	mg/kg	18.9	2.8	1	03/22/21 09:10	03/22/21 14:17	7723-14-0	
Total Organic Carbon									
Analytical Method: EPA 9060 Modified									
Pace Analytical Services - Green Bay									
Surrogates									
RPD%	16.3	%	0.10	0.10	1		03/18/21 11:22		
Total Organic Carbon	27600	mg/kg	3870	1150	1		03/18/21 11:22	7440-44-0	
Total Organic Carbon	23400	mg/kg	3920	1170	1		03/18/21 11:28	7440-44-0	
Mean Total Organic Carbon	25500	mg/kg	3890	1160	1		03/18/21 11:22	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: SC2 TOP **Lab ID: 40223291002** Collected: 02/23/21 11:30 Received: 03/12/21 07:45 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<28.8	ug/kg	94.7	28.8	1	03/16/21 06:00	03/16/21 19:32	12674-11-2	
PCB-1221 (Aroclor 1221)	<28.8	ug/kg	94.7	28.8	1	03/16/21 06:00	03/16/21 19:32	11104-28-2	
PCB-1232 (Aroclor 1232)	<28.8	ug/kg	94.7	28.8	1	03/16/21 06:00	03/16/21 19:32	11141-16-5	
PCB-1242 (Aroclor 1242)	<28.8	ug/kg	94.7	28.8	1	03/16/21 06:00	03/16/21 19:32	53469-21-9	
PCB-1248 (Aroclor 1248)	<28.8	ug/kg	94.7	28.8	1	03/16/21 06:00	03/16/21 19:32	12672-29-6	
PCB-1254 (Aroclor 1254)	<28.8	ug/kg	94.7	28.8	1	03/16/21 06:00	03/16/21 19:32	11097-69-1	
PCB-1260 (Aroclor 1260)	<28.8	ug/kg	94.7	28.8	1	03/16/21 06:00	03/16/21 19:32	11096-82-5	
PCB, Total	<28.8	ug/kg	94.7	28.8	1	03/16/21 06:00	03/16/21 19:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	67-102		1	03/16/21 06:00	03/16/21 19:32	877-09-8	
Decachlorobiphenyl (S)	82	%	47-114		1	03/16/21 06:00	03/16/21 19:32	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	4.0J	mg/kg	4.5	2.6	1	03/16/21 07:01	03/16/21 20:34	7440-38-2	
Cadmium	0.59J	mg/kg	0.90	0.24	1	03/16/21 07:01	03/16/21 20:34	7440-43-9	
Chromium	26.2	mg/kg	1.8	0.50	1	03/16/21 07:01	03/16/21 20:34	7440-47-3	
Copper	35.6	mg/kg	1.8	0.50	1	03/16/21 07:01	03/16/21 20:34	7440-50-8	
Lead	53.3	mg/kg	3.6	1.1	1	03/16/21 07:01	03/16/21 20:34	7439-92-1	
Nickel	17.8	mg/kg	1.8	0.47	1	03/16/21 07:01	03/16/21 20:34	7440-02-0	
Zinc	176	mg/kg	7.2	2.1	1	03/16/21 07:01	03/16/21 20:34	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.037J	mg/kg	0.062	0.018	1	03/19/21 09:51	03/22/21 11:32	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	51.5J	ug/kg	317	41.1	10	03/23/21 09:28	03/24/21 17:16	83-32-9	H3
Acenaphthylene	<39.9	ug/kg	317	39.9	10	03/23/21 09:28	03/24/21 17:16	208-96-8	H3
Anthracene	183J	ug/kg	317	39.3	10	03/23/21 09:28	03/24/21 17:16	120-12-7	H3
Benzo(a)anthracene	975	ug/kg	317	40.9	10	03/23/21 09:28	03/24/21 17:16	56-55-3	H3
Benzo(a)pyrene	1220	ug/kg	317	36.0	10	03/23/21 09:28	03/24/21 17:16	50-32-8	H3
Benzo(b)fluoranthene	1810	ug/kg	317	43.9	10	03/23/21 09:28	03/24/21 17:16	205-99-2	H3
Benzo(g,h,i)perylene	1170	ug/kg	317	55.5	10	03/23/21 09:28	03/24/21 17:16	191-24-2	H3
Benzo(k)fluoranthene	663	ug/kg	317	40.5	10	03/23/21 09:28	03/24/21 17:16	207-08-9	H3
Chrysene	1470	ug/kg	317	59.7	10	03/23/21 09:28	03/24/21 17:16	218-01-9	H3
Dibenz(a,h)anthracene	285J	ug/kg	317	43.8	10	03/23/21 09:28	03/24/21 17:16	53-70-3	H3
Fluoranthene	2930	ug/kg	317	37.5	10	03/23/21 09:28	03/24/21 17:16	206-44-0	H3
Fluorene	89.3J	ug/kg	317	37.9	10	03/23/21 09:28	03/24/21 17:16	86-73-7	H3
Indeno(1,2,3-cd)pyrene	979	ug/kg	317	65.9	10	03/23/21 09:28	03/24/21 17:16	193-39-5	H3
1-Methylnaphthalene	<46.2	ug/kg	317	46.2	10	03/23/21 09:28	03/24/21 17:16	90-12-0	H3
2-Methylnaphthalene	<46.3	ug/kg	317	46.3	10	03/23/21 09:28	03/24/21 17:16	91-57-6	H3
Naphthalene	<30.8	ug/kg	317	30.8	10	03/23/21 09:28	03/24/21 17:16	91-20-3	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: SC2 TOP **Lab ID: 40223291002** Collected: 02/23/21 11:30 Received: 03/12/21 07:45 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Phenanthrene	1240	ug/kg	317	36.2	10	03/23/21 09:28	03/24/21 17:16	85-01-8	H3
Pyrene	2230	ug/kg	317	46.5	10	03/23/21 09:28	03/24/21 17:16	129-00-0	H3
Surrogates									
2-Fluorobiphenyl (S)	55	%	17-100		10	03/23/21 09:28	03/24/21 17:16	321-60-8	
Terphenyl-d14 (S)	59	%	17-98		10	03/23/21 09:28	03/24/21 17:16	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	47.3	%	0.10	0.10	1		03/15/21 13:15		
350.1 Ammonia									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1									
Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	561	mg/kg	38.6	11.6	1	03/16/21 14:46	03/16/21 17:12	7664-41-7	
353.2 Nitrogen, NO2/NO3									
Analytical Method: EPA 353.2 Preparation Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	1.9J	mg/kg	6.1	1.8	1	03/18/21 14:00	03/19/21 10:45		B
365.4 Total Phosphorus									
Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Pace Analytical Services - Green Bay									
Phosphorus	824	mg/kg	36.6	5.4	1	03/22/21 09:10	03/22/21 14:18	7723-14-0	
Total Organic Carbon									
Analytical Method: EPA 9060 Modified									
Pace Analytical Services - Green Bay									
Surrogates									
RPD%	17.7	%	0.10	0.10	1		03/18/21 11:34		
Total Organic Carbon	36100	mg/kg	4890	1460	1		03/18/21 11:34	7440-44-0	
Total Organic Carbon	30200	mg/kg	4800	1430	1		03/18/21 11:39	7440-44-0	
Mean Total Organic Carbon	33200	mg/kg	4840	1440	1		03/18/21 11:34	7440-44-0	

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: SC3 TOP **Lab ID: 40223291003** Collected: 02/24/21 10:00 Received: 03/12/21 07:45 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<28.3	ug/kg	92.8	28.3	1	03/16/21 06:00	03/16/21 20:16	12674-11-2	
PCB-1221 (Aroclor 1221)	<28.3	ug/kg	92.8	28.3	1	03/16/21 06:00	03/16/21 20:16	11104-28-2	
PCB-1232 (Aroclor 1232)	<28.3	ug/kg	92.8	28.3	1	03/16/21 06:00	03/16/21 20:16	11141-16-5	
PCB-1242 (Aroclor 1242)	<28.3	ug/kg	92.8	28.3	1	03/16/21 06:00	03/16/21 20:16	53469-21-9	
PCB-1248 (Aroclor 1248)	<28.3	ug/kg	92.8	28.3	1	03/16/21 06:00	03/16/21 20:16	12672-29-6	
PCB-1254 (Aroclor 1254)	42.8J	ug/kg	92.8	28.3	1	03/16/21 06:00	03/16/21 20:16	11097-69-1	
PCB-1260 (Aroclor 1260)	<28.3	ug/kg	92.8	28.3	1	03/16/21 06:00	03/16/21 20:16	11096-82-5	
PCB, Total	42.8J	ug/kg	92.8	28.3	1	03/16/21 06:00	03/16/21 20:16	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	67-102		1	03/16/21 06:00	03/16/21 20:16	877-09-8	
Decachlorobiphenyl (S)	80	%	47-114		1	03/16/21 06:00	03/16/21 20:16	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	3.3J	mg/kg	4.5	2.6	1	03/16/21 07:01	03/16/21 20:39	7440-38-2	
Cadmium	0.46J	mg/kg	0.90	0.24	1	03/16/21 07:01	03/16/21 20:39	7440-43-9	
Chromium	22.5	mg/kg	1.8	0.50	1	03/16/21 07:01	03/16/21 20:39	7440-47-3	
Copper	29.6	mg/kg	1.8	0.50	1	03/16/21 07:01	03/16/21 20:39	7440-50-8	
Lead	53.7	mg/kg	3.6	1.1	1	03/16/21 07:01	03/16/21 20:39	7439-92-1	
Nickel	14.3	mg/kg	1.8	0.48	1	03/16/21 07:01	03/16/21 20:39	7440-02-0	
Zinc	116	mg/kg	7.2	2.2	1	03/16/21 07:01	03/16/21 20:39	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.030J	mg/kg	0.060	0.017	1	03/19/21 09:51	03/22/21 11:35	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<4.0	ug/kg	31.1	4.0	1	03/23/21 09:28	03/24/21 14:59	83-32-9	H3
Acenaphthylene	<3.9	ug/kg	31.1	3.9	1	03/23/21 09:28	03/24/21 14:59	208-96-8	H3
Anthracene	<3.9	ug/kg	31.1	3.9	1	03/23/21 09:28	03/24/21 14:59	120-12-7	H3
Benzo(a)anthracene	41.9	ug/kg	31.1	4.0	1	03/23/21 09:28	03/24/21 14:59	56-55-3	H3
Benzo(a)pyrene	71.8	ug/kg	31.1	3.5	1	03/23/21 09:28	03/24/21 14:59	50-32-8	H3
Benzo(b)fluoranthene	113	ug/kg	31.1	4.3	1	03/23/21 09:28	03/24/21 14:59	205-99-2	H3
Benzo(g,h,i)perylene	62.0	ug/kg	31.1	5.5	1	03/23/21 09:28	03/24/21 14:59	191-24-2	H3
Benzo(k)fluoranthene	49.9	ug/kg	31.1	4.0	1	03/23/21 09:28	03/24/21 14:59	207-08-9	H3
Chrysene	96.4	ug/kg	31.1	5.9	1	03/23/21 09:28	03/24/21 14:59	218-01-9	H3
Dibenz(a,h)anthracene	13.0J	ug/kg	31.1	4.3	1	03/23/21 09:28	03/24/21 14:59	53-70-3	H3
Fluoranthene	185	ug/kg	31.1	3.7	1	03/23/21 09:28	03/24/21 14:59	206-44-0	H3
Fluorene	3.9J	ug/kg	31.1	3.7	1	03/23/21 09:28	03/24/21 14:59	86-73-7	H3
Indeno(1,2,3-cd)pyrene	51.0	ug/kg	31.1	6.5	1	03/23/21 09:28	03/24/21 14:59	193-39-5	H3
1-Methylnaphthalene	<4.5	ug/kg	31.1	4.5	1	03/23/21 09:28	03/24/21 14:59	90-12-0	H3
2-Methylnaphthalene	<4.6	ug/kg	31.1	4.6	1	03/23/21 09:28	03/24/21 14:59	91-57-6	H3
Naphthalene	<3.0	ug/kg	31.1	3.0	1	03/23/21 09:28	03/24/21 14:59	91-20-3	H3

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: SC3 TOP **Lab ID: 40223291003** Collected: 02/24/21 10:00 Received: 03/12/21 07:45 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Phenanthrene	61.1	ug/kg	31.1	3.6	1	03/23/21 09:28	03/24/21 14:59	85-01-8	H3
Pyrene	137	ug/kg	31.1	4.6	1	03/23/21 09:28	03/24/21 14:59	129-00-0	H3
Surrogates									
2-Fluorobiphenyl (S)	66	%	17-100		1	03/23/21 09:28	03/24/21 14:59	321-60-8	
Terphenyl-d14 (S)	70	%	17-98		1	03/23/21 09:28	03/24/21 14:59	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	46.3	%	0.10	0.10	1		03/15/21 13:16		
350.1 Ammonia									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1									
Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	158	mg/kg	35.8	10.7	1	03/16/21 14:46	03/16/21 17:13	7664-41-7	
353.2 Nitrogen, NO2/NO3									
Analytical Method: EPA 353.2 Preparation Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<1.8	mg/kg	5.9	1.8	1	03/18/21 14:00	03/19/21 10:46		
365.4 Total Phosphorus									
Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Pace Analytical Services - Green Bay									
Phosphorus	494	mg/kg	20.6	3.0	1	03/22/21 09:10	03/22/21 14:21	7723-14-0	
Total Organic Carbon									
Analytical Method: EPA 9060 Modified									
Pace Analytical Services - Green Bay									
Surrogates									
RPD%	7.6	%	0.10	0.10	1		03/23/21 07:30		
Total Organic Carbon	30500	mg/kg	4210	1250	1		03/23/21 07:30	7440-44-0	
Total Organic Carbon	32900	mg/kg	4250	1270	1		03/23/21 07:37	7440-44-0	
Mean Total Organic Carbon	31700	mg/kg	4230	1260	1		03/23/21 07:30	7440-44-0	

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: SC4 TOP **Lab ID: 40223291004** Collected: 02/24/21 11:30 Received: 03/12/21 07:45 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<25.2	ug/kg	82.8	25.2	1	03/16/21 06:00	03/16/21 20:59	12674-11-2	
PCB-1221 (Aroclor 1221)	<25.2	ug/kg	82.8	25.2	1	03/16/21 06:00	03/16/21 20:59	11104-28-2	
PCB-1232 (Aroclor 1232)	<25.2	ug/kg	82.8	25.2	1	03/16/21 06:00	03/16/21 20:59	11141-16-5	
PCB-1242 (Aroclor 1242)	<25.2	ug/kg	82.8	25.2	1	03/16/21 06:00	03/16/21 20:59	53469-21-9	
PCB-1248 (Aroclor 1248)	<25.2	ug/kg	82.8	25.2	1	03/16/21 06:00	03/16/21 20:59	12672-29-6	
PCB-1254 (Aroclor 1254)	<25.2	ug/kg	82.8	25.2	1	03/16/21 06:00	03/16/21 20:59	11097-69-1	
PCB-1260 (Aroclor 1260)	<25.2	ug/kg	82.8	25.2	1	03/16/21 06:00	03/16/21 20:59	11096-82-5	
PCB, Total	<25.2	ug/kg	82.8	25.2	1	03/16/21 06:00	03/16/21 20:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	67-102		1	03/16/21 06:00	03/16/21 20:59	877-09-8	
Decachlorobiphenyl (S)	83	%	47-114		1	03/16/21 06:00	03/16/21 20:59	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	3.9J	mg/kg	4.0	2.3	1	03/16/21 07:01	03/16/21 20:41	7440-38-2	
Cadmium	0.24J	mg/kg	0.79	0.21	1	03/16/21 07:01	03/16/21 20:41	7440-43-9	
Chromium	25.5	mg/kg	1.6	0.44	1	03/16/21 07:01	03/16/21 20:41	7440-47-3	
Copper	16.6	mg/kg	1.6	0.44	1	03/16/21 07:01	03/16/21 20:41	7440-50-8	
Lead	16.4	mg/kg	3.2	0.95	1	03/16/21 07:01	03/16/21 20:41	7439-92-1	
Nickel	19.1	mg/kg	1.6	0.42	1	03/16/21 07:01	03/16/21 20:41	7440-02-0	
Zinc	68.2	mg/kg	6.3	1.9	1	03/16/21 07:01	03/16/21 20:41	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.021J	mg/kg	0.053	0.015	1	03/19/21 09:51	03/22/21 11:37	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	10.7J	ug/kg	27.8	3.6	1	03/23/21 09:28	03/24/21 15:50	83-32-9	H3
Acenaphthylene	<3.5	ug/kg	27.8	3.5	1	03/23/21 09:28	03/24/21 15:50	208-96-8	H3
Anthracene	20.5J	ug/kg	27.8	3.4	1	03/23/21 09:28	03/24/21 15:50	120-12-7	H3
Benzo(a)anthracene	110	ug/kg	27.8	3.6	1	03/23/21 09:28	03/24/21 15:50	56-55-3	H3
Benzo(a)pyrene	127	ug/kg	27.8	3.2	1	03/23/21 09:28	03/24/21 15:50	50-32-8	H3
Benzo(b)fluoranthene	207	ug/kg	27.8	3.9	1	03/23/21 09:28	03/24/21 15:50	205-99-2	H3
Benzo(g,h,i)perylene	101	ug/kg	27.8	4.9	1	03/23/21 09:28	03/24/21 15:50	191-24-2	H3
Benzo(k)fluoranthene	82.3	ug/kg	27.8	3.6	1	03/23/21 09:28	03/24/21 15:50	207-08-9	H3
Chrysene	162	ug/kg	27.8	5.2	1	03/23/21 09:28	03/24/21 15:50	218-01-9	H3
Dibenz(a,h)anthracene	25.8J	ug/kg	27.8	3.8	1	03/23/21 09:28	03/24/21 15:50	53-70-3	H3
Fluoranthene	372	ug/kg	27.8	3.3	1	03/23/21 09:28	03/24/21 15:50	206-44-0	H3
Fluorene	14.2J	ug/kg	27.8	3.3	1	03/23/21 09:28	03/24/21 15:50	86-73-7	H3
Indeno(1,2,3-cd)pyrene	85.5	ug/kg	27.8	5.8	1	03/23/21 09:28	03/24/21 15:50	193-39-5	H3
1-Methylnaphthalene	<4.1	ug/kg	27.8	4.1	1	03/23/21 09:28	03/24/21 15:50	90-12-0	H3
2-Methylnaphthalene	<4.1	ug/kg	27.8	4.1	1	03/23/21 09:28	03/24/21 15:50	91-57-6	H3
Naphthalene	3.3J	ug/kg	27.8	2.7	1	03/23/21 09:28	03/24/21 15:50	91-20-3	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: SC4 TOP **Lab ID: 40223291004** Collected: 02/24/21 11:30 Received: 03/12/21 07:45 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Phenanthrene	163	ug/kg	27.8	3.2	1	03/23/21 09:28	03/24/21 15:50	85-01-8	H3
Pyrene	264	ug/kg	27.8	4.1	1	03/23/21 09:28	03/24/21 15:50	129-00-0	H3
Surrogates									
2-Fluorobiphenyl (S)	61	%	17-100		1	03/23/21 09:28	03/24/21 15:50	321-60-8	
Terphenyl-d14 (S)	61	%	17-98		1	03/23/21 09:28	03/24/21 15:50	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	39.8	%	0.10	0.10	1		03/15/21 13:16		
350.1 Ammonia									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1									
Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	312	mg/kg	32.6	9.8	1	03/16/21 14:46	03/16/21 17:14	7664-41-7	
353.2 Nitrogen, NO2/NO3									
Analytical Method: EPA 353.2 Preparation Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<1.6	mg/kg	5.2	1.6	1	03/18/21 14:00	03/19/21 10:46		
365.4 Total Phosphorus									
Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Pace Analytical Services - Green Bay									
Phosphorus	704	mg/kg	23.8	3.5	1	03/22/21 09:10	03/22/21 14:22	7723-14-0	
Total Organic Carbon									
Analytical Method: EPA 9060 Modified									
Pace Analytical Services - Green Bay									
Surrogates									
RPD%	4.1	%	0.10	0.10	1		03/23/21 08:15		
Total Organic Carbon	26100	mg/kg	4910	1460	1		03/23/21 08:15	7440-44-0	
Total Organic Carbon	27200	mg/kg	4910	1470	1		03/23/21 08:21	7440-44-0	
Mean Total Organic Carbon	26700	mg/kg	4910	1460	1		03/23/21 08:15	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: SC5 TOP **Lab ID: 40223291005** Collected: 02/24/21 12:30 Received: 03/12/21 07:45 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<28.1	ug/kg	92.3	28.1	1	03/16/21 06:00	03/16/21 21:43	12674-11-2	
PCB-1221 (Aroclor 1221)	<28.1	ug/kg	92.3	28.1	1	03/16/21 06:00	03/16/21 21:43	11104-28-2	
PCB-1232 (Aroclor 1232)	<28.1	ug/kg	92.3	28.1	1	03/16/21 06:00	03/16/21 21:43	11141-16-5	
PCB-1242 (Aroclor 1242)	<28.1	ug/kg	92.3	28.1	1	03/16/21 06:00	03/16/21 21:43	53469-21-9	
PCB-1248 (Aroclor 1248)	<28.1	ug/kg	92.3	28.1	1	03/16/21 06:00	03/16/21 21:43	12672-29-6	
PCB-1254 (Aroclor 1254)	<28.1	ug/kg	92.3	28.1	1	03/16/21 06:00	03/16/21 21:43	11097-69-1	
PCB-1260 (Aroclor 1260)	<28.1	ug/kg	92.3	28.1	1	03/16/21 06:00	03/16/21 21:43	11096-82-5	
PCB, Total	<28.1	ug/kg	92.3	28.1	1	03/16/21 06:00	03/16/21 21:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	67-102		1	03/16/21 06:00	03/16/21 21:43	877-09-8	
Decachlorobiphenyl (S)	83	%	47-114		1	03/16/21 06:00	03/16/21 21:43	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	3.0J	mg/kg	4.3	2.5	1	03/16/21 07:01	03/16/21 20:44	7440-38-2	
Cadmium	0.24J	mg/kg	0.87	0.23	1	03/16/21 07:01	03/16/21 20:44	7440-43-9	
Chromium	14.5	mg/kg	1.7	0.48	1	03/16/21 07:01	03/16/21 20:44	7440-47-3	
Copper	16.8	mg/kg	1.7	0.48	1	03/16/21 07:01	03/16/21 20:44	7440-50-8	
Lead	22.9	mg/kg	3.5	1.0	1	03/16/21 07:01	03/16/21 20:44	7439-92-1	
Nickel	8.8	mg/kg	1.7	0.46	1	03/16/21 07:01	03/16/21 20:44	7440-02-0	
Zinc	76.5	mg/kg	6.9	2.1	1	03/16/21 07:01	03/16/21 20:44	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.018	mg/kg	0.063	0.018	1	03/19/21 09:51	03/22/21 11:39	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	8.9J	ug/kg	30.9	4.0	1	03/23/21 09:28	03/24/21 16:07	83-32-9	H3
Acenaphthylene	<3.9	ug/kg	30.9	3.9	1	03/23/21 09:28	03/24/21 16:07	208-96-8	H3
Anthracene	31.7	ug/kg	30.9	3.8	1	03/23/21 09:28	03/24/21 16:07	120-12-7	H3
Benzo(a)anthracene	136	ug/kg	30.9	4.0	1	03/23/21 09:28	03/24/21 16:07	56-55-3	H3
Benzo(a)pyrene	162	ug/kg	30.9	3.5	1	03/23/21 09:28	03/24/21 16:07	50-32-8	H3
Benzo(b)fluoranthene	242	ug/kg	30.9	4.3	1	03/23/21 09:28	03/24/21 16:07	205-99-2	H3
Benzo(g,h,i)perylene	138	ug/kg	30.9	5.4	1	03/23/21 09:28	03/24/21 16:07	191-24-2	H3
Benzo(k)fluoranthene	92.3	ug/kg	30.9	3.9	1	03/23/21 09:28	03/24/21 16:07	207-08-9	H3
Chrysene	182	ug/kg	30.9	5.8	1	03/23/21 09:28	03/24/21 16:07	218-01-9	H3
Dibenz(a,h)anthracene	34.1	ug/kg	30.9	4.3	1	03/23/21 09:28	03/24/21 16:07	53-70-3	H3
Fluoranthene	350	ug/kg	30.9	3.7	1	03/23/21 09:28	03/24/21 16:07	206-44-0	H3
Fluorene	10.4J	ug/kg	30.9	3.7	1	03/23/21 09:28	03/24/21 16:07	86-73-7	H3
Indeno(1,2,3-cd)pyrene	119	ug/kg	30.9	6.4	1	03/23/21 09:28	03/24/21 16:07	193-39-5	H3
1-Methylnaphthalene	<4.5	ug/kg	30.9	4.5	1	03/23/21 09:28	03/24/21 16:07	90-12-0	H3
2-Methylnaphthalene	<4.5	ug/kg	30.9	4.5	1	03/23/21 09:28	03/24/21 16:07	91-57-6	H3
Naphthalene	<3.0	ug/kg	30.9	3.0	1	03/23/21 09:28	03/24/21 16:07	91-20-3	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: SC5 TOP **Lab ID: 40223291005** Collected: 02/24/21 12:30 Received: 03/12/21 07:45 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Phenanthrene	147	ug/kg	30.9	3.5	1	03/23/21 09:28	03/24/21 16:07	85-01-8	H3
Pyrene	272	ug/kg	30.9	4.5	1	03/23/21 09:28	03/24/21 16:07	129-00-0	H3
Surrogates									
2-Fluorobiphenyl (S)	58	%	17-100		1	03/23/21 09:28	03/24/21 16:07	321-60-8	
Terphenyl-d14 (S)	61	%	17-98		1	03/23/21 09:28	03/24/21 16:07	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	45.9	%	0.10	0.10	1		03/15/21 13:16		
350.1 Ammonia									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1									
Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	82.0	mg/kg	38.5	11.5	1	03/16/21 14:46	03/16/21 17:15	7664-41-7	
353.2 Nitrogen, NO2/NO3									
Analytical Method: EPA 353.2 Preparation Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<1.8	mg/kg	5.9	1.8	1	03/18/21 14:00	03/19/21 10:47		
365.4 Total Phosphorus									
Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Pace Analytical Services - Green Bay									
Phosphorus	425	mg/kg	32.4	4.8	1	03/22/21 09:10	03/22/21 14:23	7723-14-0	
Total Organic Carbon									
Analytical Method: EPA 9060 Modified									
Pace Analytical Services - Green Bay									
Surrogates									
RPD%	13.4	%	0.10	0.10	1		03/23/21 08:27		
Total Organic Carbon	24000	mg/kg	5070	1510	1		03/23/21 08:27	7440-44-0	
Total Organic Carbon	27400	mg/kg	5080	1520	1		03/23/21 08:33	7440-44-0	
Mean Total Organic Carbon	25700	mg/kg	5080	1510	1		03/23/21 08:27	7440-44-0	

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: LF **Lab ID: 40223291006** Collected: 02/23/21 00:00 Received: 03/15/21 07:45 Matrix: Solid

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

Comments: • Sample container used for ZHE had headspace.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<27.8	ug/kg	91.2	27.8	1	03/16/21 06:00	03/16/21 22:26	12674-11-2	
PCB-1221 (Aroclor 1221)	<27.8	ug/kg	91.2	27.8	1	03/16/21 06:00	03/16/21 22:26	11104-28-2	
PCB-1232 (Aroclor 1232)	<27.8	ug/kg	91.2	27.8	1	03/16/21 06:00	03/16/21 22:26	11141-16-5	
PCB-1242 (Aroclor 1242)	<27.8	ug/kg	91.2	27.8	1	03/16/21 06:00	03/16/21 22:26	53469-21-9	
PCB-1248 (Aroclor 1248)	<27.8	ug/kg	91.2	27.8	1	03/16/21 06:00	03/16/21 22:26	12672-29-6	
PCB-1254 (Aroclor 1254)	35.0J	ug/kg	91.2	27.8	1	03/16/21 06:00	03/16/21 22:26	11097-69-1	
PCB-1260 (Aroclor 1260)	<27.8	ug/kg	91.2	27.8	1	03/16/21 06:00	03/16/21 22:26	11096-82-5	
PCB, Total	35.0J	ug/kg	91.2	27.8	1	03/16/21 06:00	03/16/21 22:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	67-102		1	03/16/21 06:00	03/16/21 22:26	877-09-8	
Decachlorobiphenyl (S)	81	%	47-114		1	03/16/21 06:00	03/16/21 22:26	2051-24-3	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 03/15/21 13:57									
Pace Analytical Services - Green Bay									
Arsenic	0.026	mg/L	0.025	0.0084	1	03/16/21 10:10	03/16/21 17:40	7440-38-2	
Barium	0.68	mg/L	0.0050	0.0015	1	03/16/21 10:10	03/16/21 17:40	7440-39-3	
Cadmium	0.0035J	mg/L	0.0050	0.0013	1	03/16/21 10:10	03/16/21 17:40	7440-43-9	
Chromium	<0.0025	mg/L	0.010	0.0025	1	03/16/21 10:10	03/16/21 17:40	7440-47-3	
Copper	0.010	mg/L	0.010	0.0034	1	03/16/21 10:10	03/16/21 17:40	7440-50-8	
Lead	0.034	mg/L	0.020	0.0059	1	03/16/21 10:10	03/16/21 17:40	7439-92-1	
Nickel	0.040	mg/L	0.010	0.0026	1	03/16/21 10:10	03/16/21 17:40	7440-02-0	
Selenium	<0.012	mg/L	0.040	0.012	1	03/16/21 10:10	03/16/21 17:40	7782-49-2	
Silver	<0.0032	mg/L	0.010	0.0032	1	03/16/21 10:10	03/16/21 17:40	7440-22-4	
Zinc	1.1	mg/L	0.040	0.012	1	03/16/21 10:10	03/16/21 17:40	7440-66-6	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 03/15/21 13:57									
Pace Analytical Services - Green Bay									
Mercury	0.00015J	mg/L	0.00020	0.000066	1	03/16/21 09:50	03/16/21 13:32	7439-97-6	
8270E MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270E Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 03/15/21 13:57									
Pace Analytical Services - Green Bay									
1,4-Dichlorobenzene	<0.014	mg/L	0.050	0.014	1	03/16/21 12:52	03/19/21 15:46	106-46-7	H2
2,4-Dinitrotoluene	<0.011	mg/L	0.050	0.011	1	03/16/21 12:52	03/19/21 15:46	121-14-2	H2
Hexachloro-1,3-butadiene	<0.017	mg/L	0.050	0.017	1	03/16/21 12:52	03/19/21 15:46	87-68-3	H2,L2, M0
Hexachlorobenzene	<0.011	mg/L	0.055	0.011	1	03/16/21 12:52	03/19/21 15:46	118-74-1	H2
Hexachloroethane	<0.014	mg/L	0.050	0.014	1	03/16/21 12:52	03/19/21 15:46	67-72-1	H2
2-Methylphenol(o-Cresol)	<0.0093	mg/L	0.050	0.0093	1	03/16/21 12:52	03/19/21 15:46	95-48-7	H2
3&4-Methylphenol(m&p Cresol)	<0.0061	mg/L	0.050	0.0061	1	03/16/21 12:52	03/19/21 15:46		H2
Nitrobenzene	<0.011	mg/L	0.050	0.011	1	03/16/21 12:52	03/19/21 15:46	98-95-3	H2

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ANALYTICAL RESULTS

Project: SPRING HARBOR
Pace Project No.: 40223291

Sample: LF **Lab ID: 40223291006** Collected: 02/23/21 00:00 Received: 03/15/21 07:45 Matrix: Solid

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

Comments: • Sample container used for ZHE had headspace.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270E Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 03/15/21 13:57									
Pace Analytical Services - Green Bay									
Pentachlorophenol	<0.046	mg/L	0.15	0.046	1	03/16/21 12:52	03/19/21 15:46	87-86-5	H2
Phenol	<0.0032	mg/L	0.050	0.0032	1	03/16/21 12:52	03/19/21 15:46	108-95-2	H2
Pyridine	<0.015	mg/L	0.050	0.015	1	03/16/21 12:52	03/19/21 15:46	110-86-1	H2
2,4,5-Trichlorophenol	<0.0064	mg/L	0.050	0.0064	1	03/16/21 12:52	03/19/21 15:46	95-95-4	H2
2,4,6-Trichlorophenol	<0.0080	mg/L	0.050	0.0080	1	03/16/21 12:52	03/19/21 15:46	88-06-2	H2
Surrogates									
Nitrobenzene-d5 (S)	89	%	41-118		1	03/16/21 12:52	03/19/21 15:46	4165-60-0	
2-Fluorobiphenyl (S)	73	%	54-107		1	03/16/21 12:52	03/19/21 15:46	321-60-8	
2,4,6-Tribromophenol (S)	100	%	62-172		1	03/16/21 12:52	03/19/21 15:46	118-79-6	
Phenol-d6 (S)	38	%	12-120		1	03/16/21 12:52	03/19/21 15:46	13127-88-3	
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 03/16/21 14:32									
Pace Analytical Services - Green Bay									
Benzene	<0.0025	mg/L	0.010	0.0025	10		03/17/21 23:35	71-43-2	H2
2-Butanone (MEK)	<0.029	mg/L	0.20	0.029	10		03/17/21 23:35	78-93-3	H2
Carbon tetrachloride	<0.016	mg/L	0.055	0.016	10		03/17/21 23:35	56-23-5	H2
Chlorobenzene	<0.0071	mg/L	0.024	0.0071	10		03/17/21 23:35	108-90-7	H2
Chloroform	<0.013	mg/L	0.050	0.013	10		03/17/21 23:35	67-66-3	H2
1,2-Dichloroethane	<0.0028	mg/L	0.010	0.0028	10		03/17/21 23:35	107-06-2	H2
1,1-Dichloroethene	<0.0024	mg/L	0.010	0.0024	10		03/17/21 23:35	75-35-4	H2
Tetrachloroethene	<0.0033	mg/L	0.011	0.0033	10		03/17/21 23:35	127-18-4	H2
Trichloroethene	<0.0026	mg/L	0.010	0.0026	10		03/17/21 23:35	79-01-6	H2
Vinyl chloride	<0.0017	mg/L	0.010	0.0017	10		03/17/21 23:35	75-01-4	H2
Surrogates									
Toluene-d8 (S)	100	%	70-130		10		03/17/21 23:35	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		10		03/17/21 23:35	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		10		03/17/21 23:35	1868-53-7	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	45.2	%	0.10	0.10	1		03/15/21 14:03		
1010 Flashpoint,Closed Cup									
Analytical Method: EPA 1010									
Pace Analytical Services - Green Bay									
Flashpoint	>200	deg F			1		03/19/21 16:12		2q
Wet Chemistry 9012 B									
Analytical Method: EPA 9012B Preparation Method: 9012B									
Pace National - Mt. Juliet									
Cyanide, Reactive	<0.0390	mg/kg	0.130	0.0390	1	03/19/21 08:57	03/20/21 03:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR

Pace Project No.: 40223291

Sample: LF **Lab ID: 40223291006** Collected: 02/23/21 00:00 Received: 03/15/21 07:45 Matrix: Solid

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

Comments: • Sample container used for ZHE had headspace.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 9034-9030B									
Analytical Method: EPA 9030B Preparation Method: 9034-9030B Pace National - Mt. Juliet									
Sulfide, Reactive	<7.63	mg/kg	25.4	7.63	1	03/17/21 22:00	03/17/21 22:00		H3
Wet Chemistry 9066									
Analytical Method: EPA 9066 Preparation Method: 4AAP Pace National - Mt. Juliet									
Phenolics, Total Recoverable	0.850	mg/kg	0.733	0.220	1	03/17/21 13:26	03/18/21 04:08	64743-03-9	
9040 pH									
Analytical Method: EPA 9040 Pace Analytical Services - Green Bay									
pH at 25 Degrees C	7.2	Std. Units	0.10	0.010	1		03/16/21 10:20		1q,H6
9071 Oil and Grease, Soxhlet									
Analytical Method: EPA 9071 Preparation Method: EPA 9071B Pace Analytical Services - Minneapolis									
Oil and Grease	<669	mg/kg	2230	669	1	03/23/21 08:02	03/23/21 15:14		
9076 Total Chlorine									
Analytical Method: EPA 9076 Pace Analytical Services - Asheville									
Chlorine, Total	<0.010	%	0.010	0.010	1		03/24/21 02:32	7782-50-5	N2
9095 Paint Filter Liquid Test									
Analytical Method: EPA 9095 Pace Analytical Services - Green Bay									
Free Liquids	Pass	no units			1		03/15/21 11:59		

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 379842 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury TCLP
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291006

METHOD BLANK: 2190511 Matrix: Water
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.000066	0.00020	03/16/21 13:05	

METHOD BLANK: 2190023 Matrix: Water
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.000066	0.00020	03/16/21 13:37	

METHOD BLANK: 2190024 Matrix: Water
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	0.00012J	0.00020	03/16/21 14:12	

LABORATORY CONTROL SAMPLE: 2190512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0051	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2190513 2190514

Parameter	Units	40223217001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.22 ug/L	0.005	0.005	0.0052	0.0059	100	113	85-115	11	20	

MATRIX SPIKE SAMPLE: 2190515

Parameter	Units	40222279001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.30 ug/L	0.005	0.0059	113	85-115	

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QUALITY CONTROL DATA

Project: SPRING HARBOR

Pace Project No.: 40223291

MATRIX SPIKE SAMPLE:		2190516					
Parameter	Units	40222279002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.15J ug/L	0.005	0.0054	104	85-115	

MATRIX SPIKE SAMPLE:		2190517					
Parameter	Units	10549755001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.64 ug/L	0.005	0.0061	109	85-115	

MATRIX SPIKE SAMPLE:		2190518					
Parameter	Units	40223280001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.066 ug/L	0.005	0.0052	104	85-115	

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 380087 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

METHOD BLANK: 2191886 Matrix: Solid
Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	03/22/21 10:35	

LABORATORY CONTROL SAMPLE: 2191887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.92	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2191888 2191889

Parameter	Units	40223352001		2191889		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/kg	<0.011	0.89	0.89	1.0	1.0	113	113	85-115	0	20	

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 379717 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

METHOD BLANK: 2190090 Matrix: Solid
Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	03/16/21 20:16	
Cadmium	mg/kg	<0.13	0.50	03/16/21 20:16	
Chromium	mg/kg	<0.28	1.0	03/16/21 20:16	
Copper	mg/kg	<0.28	1.0	03/16/21 20:16	
Lead	mg/kg	<0.60	2.0	03/16/21 20:16	
Nickel	mg/kg	<0.26	1.0	03/16/21 20:16	
Zinc	mg/kg	<1.2	4.0	03/16/21 20:16	

LABORATORY CONTROL SAMPLE: 2190091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	52.0	104	80-120	
Cadmium	mg/kg	50	50.6	101	80-120	
Chromium	mg/kg	50	52.2	104	80-120	
Copper	mg/kg	50	53.9	108	80-120	
Lead	mg/kg	50	51.5	103	80-120	
Nickel	mg/kg	50	52.9	106	80-120	
Zinc	mg/kg	50	53.0	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2190092 2190093

Parameter	Units	2190092		2190093		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40223291001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/kg	4.5	77.1	77	79.2	80.3	97	99	75-125	1	20
Cadmium	mg/kg	0.42J	77.1	77	73.4	74.9	95	97	75-125	2	20
Chromium	mg/kg	24.0	77.1	77	98.9	101	97	100	75-125	2	20
Copper	mg/kg	32.4	77.1	77	102	107	91	97	75-125	4	20
Lead	mg/kg	50.4	77.1	77	109	131	76	105	75-125	18	20
Nickel	mg/kg	21.2	77.1	77	93.1	98.1	93	100	75-125	5	20
Zinc	mg/kg	76.4	77.1	77	139	153	81	100	75-125	10	20

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 379843 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291006

METHOD BLANK: 2190519 Matrix: Water
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	03/16/21 17:06	
Barium	mg/L	<0.0015	0.0050	03/16/21 17:06	
Cadmium	mg/L	<0.0013	0.0050	03/16/21 17:06	
Chromium	mg/L	<0.0025	0.010	03/16/21 17:06	
Copper	mg/L	<0.0034	0.010	03/16/21 17:06	
Lead	mg/L	<0.0059	0.020	03/16/21 17:06	
Nickel	mg/L	<0.0026	0.010	03/16/21 17:06	
Selenium	mg/L	<0.012	0.040	03/16/21 17:06	
Silver	mg/L	<0.0032	0.010	03/16/21 17:06	
Zinc	mg/L	<0.012	0.040	03/16/21 17:06	

METHOD BLANK: 2190014 Matrix: Solid
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	03/16/21 17:45	
Barium	mg/L	0.0023J	0.0050	03/16/21 17:45	
Cadmium	mg/L	<0.0013	0.0050	03/16/21 17:45	
Chromium	mg/L	<0.0025	0.010	03/16/21 17:45	
Copper	mg/L	<0.0034	0.010	03/16/21 17:45	
Lead	mg/L	<0.0059	0.020	03/16/21 17:45	
Nickel	mg/L	<0.0026	0.010	03/16/21 17:45	
Selenium	mg/L	<0.012	0.040	03/16/21 17:45	
Silver	mg/L	<0.0032	0.010	03/16/21 17:45	
Zinc	mg/L	<0.012	0.040	03/16/21 17:45	

METHOD BLANK: 2190015 Matrix: Solid
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	03/16/21 18:26	
Barium	mg/L	0.0035J	0.0050	03/16/21 18:26	
Cadmium	mg/L	<0.0013	0.0050	03/16/21 18:26	
Chromium	mg/L	<0.0025	0.010	03/16/21 18:26	
Copper	mg/L	<0.0034	0.010	03/16/21 18:26	
Lead	mg/L	<0.0059	0.020	03/16/21 18:26	

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

METHOD BLANK: 2190015 Matrix: Solid
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nickel	mg/L	<0.0026	0.010	03/16/21 18:26	
Selenium	mg/L	<0.012	0.040	03/16/21 18:26	
Silver	mg/L	<0.0032	0.010	03/16/21 18:26	
Zinc	mg/L	0.013J	0.040	03/16/21 18:26	

METHOD BLANK: 2190128 Matrix: Solid
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	03/16/21 18:38	
Barium	mg/L	<0.0015	0.0050	03/16/21 18:38	
Cadmium	mg/L	<0.0013	0.0050	03/16/21 18:38	
Chromium	mg/L	<0.0025	0.010	03/16/21 18:38	
Copper	mg/L	<0.0034	0.010	03/16/21 18:38	
Lead	mg/L	<0.0059	0.020	03/16/21 18:38	
Nickel	mg/L	<0.0026	0.010	03/16/21 18:38	
Selenium	mg/L	<0.012	0.040	03/16/21 18:38	
Silver	mg/L	<0.0032	0.010	03/16/21 18:38	
Zinc	mg/L	<0.012	0.040	03/16/21 18:38	

LABORATORY CONTROL SAMPLE: 2190520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.50	99	80-120	
Barium	mg/L	0.5	0.49	98	80-120	
Cadmium	mg/L	0.5	0.49	97	80-120	
Chromium	mg/L	0.5	0.50	100	80-120	
Copper	mg/L	0.5	0.50	101	80-120	
Lead	mg/L	0.5	0.49	98	80-120	
Nickel	mg/L	0.5	0.50	101	80-120	
Selenium	mg/L	0.5	0.50	100	80-120	
Silver	mg/L	0.25	0.24	98	80-120	
Zinc	mg/L	0.5	0.50	101	80-120	

MATRIX SPIKE SAMPLE: 2190521

Parameter	Units	10549755001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.17	0.5	0.53	100	75-125	
Barium	mg/L	0.072J	0.5	0.53	92	75-125	
Cadmium	mg/L	0.34	0.5	0.81	92	75-125	

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

MATRIX SPIKE SAMPLE: 2190521		10549755001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chromium	mg/L	12.9	0.5	13.0	37	75-125	P6
Copper	mg/L	0.26	0.5	0.78	104	75-125	
Lead	mg/L	1.4	0.5	1.8	88	75-125	
Nickel	mg/L	3.8	0.5	4.2	82	75-125	
Selenium	mg/L	<0.24	0.5	0.67J	95	75-125	
Silver	mg/L	0.14J	0.25	0.40	103	75-125	
Zinc	mg/L	0.93	0.5	1.4	92	75-125	

MATRIX SPIKE SAMPLE: 2190522		40222279001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	<0.017	0.5	0.48	94	75-125	
Barium	mg/L	0.042	0.5	0.52	95	75-125	
Cadmium	mg/L	<0.0027	0.5	0.47	94	75-125	
Chromium	mg/L	0.24	0.5	0.72	98	75-125	
Copper	mg/L	<0.0067	0.5	0.49	98	75-125	
Lead	mg/L	<0.012	0.5	0.48	96	75-125	
Nickel	mg/L	0.62	0.5	1.1	96	75-125	
Selenium	mg/L	<0.024	0.5	0.48	93	75-125	
Silver	mg/L	<0.0064	0.25	0.25	98	75-125	
Zinc	mg/L	0.19	0.5	0.67	98	75-125	

MATRIX SPIKE SAMPLE: 2190523		40222279002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	<0.0084	0.5	0.50	101	75-125	
Barium	mg/L	0.013	0.5	0.50	98	75-125	
Cadmium	mg/L	<0.0013	0.5	0.49	98	75-125	
Chromium	mg/L	0.0065J	0.5	0.51	100	75-125	
Copper	mg/L	0.0037J	0.5	0.52	103	75-125	
Lead	mg/L	<0.0059	0.5	0.48	95	75-125	
Nickel	mg/L	0.0076J	0.5	0.50	98	75-125	
Selenium	mg/L	<0.012	0.5	0.51	102	75-125	
Silver	mg/L	<0.0032	0.25	0.25	101	75-125	
Zinc	mg/L	0.021J	0.5	0.52	100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2190524	2190525						% Rec	Max		
Parameter	Units	40223217001	MS	MSD	MS	MSD	MS	MSD	Limits	RPD	RPD	Qual
		Result	Spike	Spike	Result	Result	% Rec	% Rec				
Arsenic	mg/L	<0.0084	0.5	0.5	0.52	0.52	104	102	75-125	2	20	
Barium	mg/L	0.18	0.5	0.5	0.66	0.66	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2190524												2190525	
Parameter	Units	40223217001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		RPD	
Cadmium	mg/L	<0.0013	0.5	0.5	0.51	0.50	101	100	75-125	1	20		
Chromium	mg/L	<0.0025	0.5	0.5	0.49	0.49	98	98	75-125	0	20		
Copper	mg/L	<0.0034	0.5	0.5	0.53	0.52	105	104	75-125	1	20		
Lead	mg/L	<0.0059	0.5	0.5	0.48	0.47	96	95	75-125	1	20		
Nickel	mg/L	0.015	0.5	0.5	0.50	0.50	98	96	75-125	1	20		
Selenium	mg/L	<0.012	0.5	0.5	0.52	0.52	105	103	75-125	1	20		
Silver	mg/L	<0.0032	0.25	0.25	0.26	0.26	103	102	75-125	1	20		
Zinc	mg/L	<0.012	0.5	0.5	0.50	0.49	98	96	75-125	2	20		

MATRIX SPIKE SAMPLE: 2190526									
Parameter	Units	40223278001 Result	Spike	MS	MS	% Rec	Qualifiers		
			Conc.	Result	% Rec	Limits			
Arsenic	mg/L	<0.084	0.5	0.49	98	75-125			
Barium	mg/L	0.025J	0.5	0.49	92	75-125			
Cadmium	mg/L	<0.013	0.5	0.47	93	75-125			
Chromium	mg/L	<0.025	0.5	0.48	95	75-125			
Copper	mg/L	<0.034	0.5	0.49	92	75-125			
Lead	mg/L	<0.059	0.5	0.47	94	75-125			
Nickel	mg/L	0.40	0.5	0.89	97	75-125			
Selenium	mg/L	<0.12	0.5	0.48	83	75-125			
Silver	mg/L	<0.032	0.25	0.24	91	75-125			
Zinc	mg/L	1.0	0.5	1.5	95	75-125			

MATRIX SPIKE SAMPLE: 2190527									
Parameter	Units	40223280001 Result	Spike	MS	MS	% Rec	Qualifiers		
			Conc.	Result	% Rec	Limits			
Arsenic	mg/L	<0.0084	0.5	0.52	102	75-125			
Barium	mg/L	0.011	0.5	0.50	98	75-125			
Cadmium	mg/L	<0.0013	0.5	0.50	100	75-125			
Chromium	mg/L	0.0087J	0.5	0.51	100	75-125			
Copper	mg/L	<0.0034	0.5	0.52	104	75-125			
Lead	mg/L	0.0083J	0.5	0.49	96	75-125			
Nickel	mg/L	<0.0026	0.5	0.50	99	75-125			
Selenium	mg/L	<0.012	0.5	0.52	104	75-125			
Silver	mg/L	<0.0032	0.25	0.26	103	75-125			
Zinc	mg/L	<0.012	0.5	0.51	102	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 379967 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291006

METHOD BLANK: 2191089 Matrix: Water
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/L	<0.00024	0.0010	03/17/21 15:43	
1,2-Dichloroethane	mg/L	<0.00028	0.0010	03/17/21 15:43	
2-Butanone (MEK)	mg/L	<0.0029	0.020	03/17/21 15:43	
Benzene	mg/L	<0.00025	0.0010	03/17/21 15:43	
Carbon tetrachloride	mg/L	<0.0016	0.0055	03/17/21 15:43	
Chlorobenzene	mg/L	<0.00071	0.0024	03/17/21 15:43	
Chloroform	mg/L	<0.0013	0.0050	03/17/21 15:43	
Tetrachloroethene	mg/L	<0.00033	0.0011	03/17/21 15:43	
Trichloroethene	mg/L	<0.00026	0.0010	03/17/21 15:43	
Vinyl chloride	mg/L	<0.00017	0.0010	03/17/21 15:43	
4-Bromofluorobenzene (S)	%	93	70-130	03/17/21 15:43	
Dibromofluoromethane (S)	%	102	70-130	03/17/21 15:43	
Toluene-d8 (S)	%	100	70-130	03/17/21 15:43	

METHOD BLANK: 2190534 Matrix: Solid
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/L	<0.00098	0.0040	03/17/21 19:13	
1,2-Dichloroethane	mg/L	<0.0011	0.0040	03/17/21 19:13	
2-Butanone (MEK)	mg/L	<0.012	0.080	03/17/21 19:13	
Benzene	mg/L	<0.00099	0.0040	03/17/21 19:13	
Carbon tetrachloride	mg/L	<0.0065	0.022	03/17/21 19:13	
Chlorobenzene	mg/L	<0.0028	0.0095	03/17/21 19:13	
Chloroform	mg/L	<0.0051	0.020	03/17/21 19:13	
Tetrachloroethene	mg/L	<0.0013	0.0044	03/17/21 19:13	
Trichloroethene	mg/L	<0.0010	0.0040	03/17/21 19:13	
Vinyl chloride	mg/L	<0.00070	0.0040	03/17/21 19:13	
4-Bromofluorobenzene (S)	%	94	70-130	03/17/21 19:13	
Dibromofluoromethane (S)	%	104	70-130	03/17/21 19:13	
Toluene-d8 (S)	%	100	70-130	03/17/21 19:13	

LABORATORY CONTROL SAMPLE: 2191090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/L	0.05	0.054	108	85-126	
1,2-Dichloroethane	mg/L	0.05	0.055	110	70-130	

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

LABORATORY CONTROL SAMPLE: 2191090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/L	0.05	0.053	105	70-132	
Carbon tetrachloride	mg/L	0.05	0.055	111	70-130	
Chlorobenzene	mg/L	0.05	0.052	104	70-130	
Chloroform	mg/L	0.05	0.053	107	80-122	
Tetrachloroethene	mg/L	0.05	0.053	105	70-130	
Trichloroethene	mg/L	0.05	0.053	105	70-130	
Vinyl chloride	mg/L	0.05	0.054	108	63-142	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2191161 2191162

Parameter	Units	40223266001		2191161		2191162		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
1,1-Dichloroethene	mg/L	<2.4 ug/L	0.5	0.5	0.52	0.53	104	105	76-132	2	20	
1,2-Dichloroethane	mg/L	<2.8 ug/L	0.5	0.5	0.55	0.54	109	109	70-130	1	20	
2-Butanone (MEK)	mg/L	<29.4 ug/L			<0.029	<0.029						20
Benzene	mg/L	<2.5 ug/L	0.5	0.5	0.52	0.51	105	103	70-132	2	20	
Carbon tetrachloride	mg/L	<16.4 ug/L	0.5	0.5	0.56	0.56	112	111	70-132	1	20	
Chlorobenzene	mg/L	<7.1 ug/L	0.5	0.5	0.52	0.52	104	104	70-130	0	20	
Chloroform	mg/L	<12.7 ug/L	0.5	0.5	0.53	0.54	105	107	80-122	1	20	
Tetrachloroethene	mg/L	<3.3 ug/L	0.5	0.5	0.52	0.53	105	106	70-130	1	20	
Trichloroethene	mg/L	<2.6 ug/L	0.5	0.5	0.52	0.52	105	104	70-130	0	20	
Vinyl chloride	mg/L	<1.7 ug/L	0.5	0.5	0.53	0.52	105	105	61-143	0	20	
4-Bromofluorobenzene (S)	%						102	101	70-130			
Dibromofluoromethane (S)	%						104	107	70-130			
Toluene-d8 (S)	%						97	99	70-130			

MATRIX SPIKE SAMPLE: 2191163

Parameter	Units	40223280001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/L	<2.4 ug/L	0.5	0.40	81	76-132	
1,2-Dichloroethane	mg/L	<2.8 ug/L	0.5	0.40	81	70-130	
2-Butanone (MEK)	mg/L	<29.4 ug/L		<0.029			
Benzene	mg/L	<2.5 ug/L	0.5	0.40	80	70-132	
Carbon tetrachloride	mg/L	<16.4 ug/L	0.5	0.42	84	70-132	
Chlorobenzene	mg/L	<7.1 ug/L	0.5	0.38	77	70-130	
Chloroform	mg/L	<12.7 ug/L	0.5	0.40	80	80-122	
Tetrachloroethene	mg/L	<3.3 ug/L	0.5	0.41	82	70-130	
Trichloroethene	mg/L	<2.6 ug/L	0.5	0.40	80	70-130	
Vinyl chloride	mg/L	<1.7 ug/L	0.5	0.42	83	61-143	
4-Bromofluorobenzene (S)	%				103	70-130	
Dibromofluoromethane (S)	%				103	70-130	

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QUALITY CONTROL DATA

Project: SPRING HARBOR

Pace Project No.: 40223291

MATRIX SPIKE SAMPLE:		2191163						
Parameter	Units	40223280001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
Toluene-d8 (S)	%				97	70-130		

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 379817 Analysis Method: EPA 8082
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005, 40223291006

METHOD BLANK: 2190452 Matrix: Solid
Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005, 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	03/16/21 12:15	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	03/16/21 12:15	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	03/16/21 12:15	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	03/16/21 12:15	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	03/16/21 12:15	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	03/16/21 12:15	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	03/16/21 12:15	
Decachlorobiphenyl (S)	%	90	47-114	03/16/21 12:15	
Tetrachloro-m-xylene (S)	%	87	67-102	03/16/21 12:15	

LABORATORY CONTROL SAMPLE: 2190453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		<15.2			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	438	88	69-115	
Decachlorobiphenyl (S)	%			88	47-114	
Tetrachloro-m-xylene (S)	%			86	67-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2190454 2190455

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40223292001 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	<32.9			<33.0	<33.1					20
PCB-1221 (Aroclor 1221)	ug/kg	<32.9			<33.0	<33.1					20
PCB-1232 (Aroclor 1232)	ug/kg	<32.9			<33.0	<33.1					20
PCB-1242 (Aroclor 1242)	ug/kg	<32.9			<33.0	<33.1					20
PCB-1248 (Aroclor 1248)	ug/kg	<32.9			<33.0	<33.1					20
PCB-1254 (Aroclor 1254)	ug/kg	1460			1510	1330				13	20
PCB-1260 (Aroclor 1260)	ug/kg	<32.9	542	544	472	467	87	86	45-120	1	20
Decachlorobiphenyl (S)	%						83	81	47-114		
Tetrachloro-m-xylene (S)	%						86	83	67-102		

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 380414 Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

METHOD BLANK: 2193950 Matrix: Solid
Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	03/23/21 13:33	
2-Methylnaphthalene	ug/kg	<2.4	16.7	03/23/21 13:33	
Acenaphthene	ug/kg	<2.2	16.7	03/23/21 13:33	
Acenaphthylene	ug/kg	<2.1	16.7	03/23/21 13:33	
Anthracene	ug/kg	<2.1	16.7	03/23/21 13:33	
Benzo(a)anthracene	ug/kg	<2.2	16.7	03/23/21 13:33	
Benzo(a)pyrene	ug/kg	<1.9	16.7	03/23/21 13:33	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	03/23/21 13:33	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	03/23/21 13:33	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	03/23/21 13:33	
Chrysene	ug/kg	<3.1	16.7	03/23/21 13:33	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	03/23/21 13:33	
Fluoranthene	ug/kg	<2.0	16.7	03/23/21 13:33	
Fluorene	ug/kg	<2.0	16.7	03/23/21 13:33	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	03/23/21 13:33	
Naphthalene	ug/kg	<1.6	16.7	03/23/21 13:33	
Phenanthrene	ug/kg	<1.9	16.7	03/23/21 13:33	
Pyrene	ug/kg	<2.5	16.7	03/23/21 13:33	
2-Fluorobiphenyl (S)	%	78	17-100	03/23/21 13:33	
Terphenyl-d14 (S)	%	97	17-98	03/23/21 13:33	

LABORATORY CONTROL SAMPLE: 2193951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	298	90	58-101	
2-Methylnaphthalene	ug/kg	333	294	88	59-101	
Acenaphthene	ug/kg	333	273	82	62-97	
Acenaphthylene	ug/kg	333	282	85	67-102	
Anthracene	ug/kg	333	322	97	69-120	
Benzo(a)anthracene	ug/kg	333	264	79	59-101	
Benzo(a)pyrene	ug/kg	333	319	96	70-110	
Benzo(b)fluoranthene	ug/kg	333	310	93	66-111	
Benzo(g,h,i)perylene	ug/kg	333	295	89	64-106	
Benzo(k)fluoranthene	ug/kg	333	345	104	65-108	
Chrysene	ug/kg	333	317	95	61-102	
Dibenz(a,h)anthracene	ug/kg	333	290	87	64-120	
Fluoranthene	ug/kg	333	351	105	69-120	
Fluorene	ug/kg	333	290	87	70-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	303	91	66-120	

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

LABORATORY CONTROL SAMPLE: 2193951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	333	276	83	60-95	
Phenanthrene	ug/kg	333	304	91	66-98	
Pyrene	ug/kg	333	321	96	63-120	
2-Fluorobiphenyl (S)	%			81	17-100	
Terphenyl-d14 (S)	%			100	17-98	S0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2193952 2193953

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40223599022	Spike Conc.	Spike Conc.	Result								
1-Methylnaphthalene	ug/kg	1270	423	423	1570	943	72	-77	48-101	50	25	M1,R1	
2-Methylnaphthalene	ug/kg	2470	423	423	2720	1610	58	-205	46-101	51	21	M1,R1	
Acenaphthene	ug/kg	56.8J	423	423	329	272	64	51	52-97	19	20	M1	
Acenaphthylene	ug/kg	<26.6	423	423	288	259	68	61	51-102	11	20		
Anthracene	ug/kg	126J	423	423	384	339	61	50	54-120	13	20	M1	
Benzo(a)anthracene	ug/kg	186J	423	423	382	333	47	35	34-101	14	22		
Benzo(a)pyrene	ug/kg	164J	423	423	402	326	56	38	46-110	21	25	M1	
Benzo(b)fluoranthene	ug/kg	270	423	423	479	354	49	20	40-111	30	23	M1,R1	
Benzo(g,h,i)perylene	ug/kg	144J	423	423	391	327	59	43	40-120	18	24		
Benzo(k)fluoranthene	ug/kg	118J	423	423	387	326	64	49	47-108	17	24		
Chrysene	ug/kg	232	423	423	476	389	58	37	35-115	20	20		
Dibenz(a,h)anthracene	ug/kg	29.7J	423	423	302	257	64	54	46-120	16	21		
Fluoranthene	ug/kg	695	423	423	761	667	16	-7	52-120	13	23	M1	
Fluorene	ug/kg	60.3J	423	423	327	275	63	51	54-99	17	20	M1	
Indeno(1,2,3-cd)pyrene	ug/kg	113J	423	423	371	311	61	47	46-120	18	22		
Naphthalene	ug/kg	1380	423	423	1830	1210	105	-42	46-95	41	23	M1,R1	
Phenanthrene	ug/kg	601	423	423	687	539	20	-15	51-98	24	20	M1,R1	
Pyrene	ug/kg	565	423	423	582	600	4	8	46-120	3	24	M1	
2-Fluorobiphenyl (S)	%						63	51	17-100				
Terphenyl-d14 (S)	%						64	61	17-98				

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 379830 Analysis Method: EPA 8270E
QC Batch Method: EPA 3510 Analysis Description: 8270E TCLP MSSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291006

METHOD BLANK: 2190492 Matrix: Water
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	mg/L	<0.0029	0.010	03/18/21 09:05	
2,4,5-Trichlorophenol	mg/L	<0.0013	0.010	03/18/21 09:05	
2,4,6-Trichlorophenol	mg/L	<0.0016	0.010	03/18/21 09:05	
2,4-Dinitrotoluene	mg/L	<0.0021	0.010	03/18/21 09:05	
2-Methylphenol(o-Cresol)	mg/L	<0.0019	0.010	03/18/21 09:05	
3&4-Methylphenol(m&p Cresol)	mg/L	<0.0012	0.010	03/18/21 09:05	
Hexachloro-1,3-butadiene	mg/L	<0.0033	0.010	03/18/21 09:05	
Hexachlorobenzene	mg/L	<0.0023	0.011	03/18/21 09:05	
Hexachloroethane	mg/L	<0.0028	0.010	03/18/21 09:05	
Nitrobenzene	mg/L	<0.0021	0.010	03/18/21 09:05	
Pentachlorophenol	mg/L	<0.0091	0.030	03/18/21 09:05	
Phenol	mg/L	<0.00064	0.010	03/18/21 09:05	
Pyridine	mg/L	<0.0030	0.010	03/18/21 09:05	
2,4,6-Tribromophenol (S)	%	86	62-172	03/18/21 09:05	
2-Fluorobiphenyl (S)	%	78	54-107	03/18/21 09:05	
Nitrobenzene-d5 (S)	%	86	41-118	03/18/21 09:05	
Phenol-d6 (S)	%	35	12-120	03/18/21 09:05	

METHOD BLANK: 2190025 Matrix: Water
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	mg/L	<0.014	0.050	03/18/21 11:34	
2,4,5-Trichlorophenol	mg/L	<0.0064	0.050	03/18/21 11:34	
2,4,6-Trichlorophenol	mg/L	<0.0080	0.050	03/18/21 11:34	
2,4-Dinitrotoluene	mg/L	<0.011	0.050	03/18/21 11:34	
2-Methylphenol(o-Cresol)	mg/L	<0.0093	0.050	03/18/21 11:34	
3&4-Methylphenol(m&p Cresol)	mg/L	<0.0061	0.050	03/18/21 11:34	
Hexachloro-1,3-butadiene	mg/L	<0.017	0.050	03/18/21 11:34	
Hexachlorobenzene	mg/L	<0.011	0.055	03/18/21 11:34	
Hexachloroethane	mg/L	<0.014	0.050	03/18/21 11:34	
Nitrobenzene	mg/L	<0.011	0.050	03/18/21 11:34	
Pentachlorophenol	mg/L	<0.046	0.15	03/18/21 11:34	
Phenol	mg/L	<0.0032	0.050	03/18/21 11:34	
Pyridine	mg/L	<0.015	0.050	03/18/21 11:34	
2,4,6-Tribromophenol (S)	%	90	62-172	03/18/21 11:34	
2-Fluorobiphenyl (S)	%	80	54-107	03/18/21 11:34	
Nitrobenzene-d5 (S)	%	89	41-118	03/18/21 11:34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

METHOD BLANK: 2190025
Associated Lab Samples: 40223291006

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenol-d6 (S)	%	37	12-120	03/18/21 11:34	

LABORATORY CONTROL SAMPLE: 2190493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	mg/L	0.05	0.030	60	46-89	
2,4,5-Trichlorophenol	mg/L	0.05	0.048	96	60-122	
2,4,6-Trichlorophenol	mg/L	0.05	0.049	98	59-119	
2,4-Dinitrotoluene	mg/L	0.05	0.050	99	70-130	
2-Methylphenol(o-Cresol)	mg/L	0.05	0.040	79	47-130	
3&4-Methylphenol(m&p Cresol)	mg/L	0.05	0.035	71	43-130	
Hexachloro-1,3-butadiene	mg/L	0.05	0.025	49	51-103	L2
Hexachlorobenzene	mg/L	0.05	0.048	96	70-130	
Hexachloroethane	mg/L	0.05	0.022	44	35-102	
Nitrobenzene	mg/L	0.05	0.045	89	70-130	
Pentachlorophenol	mg/L	0.05	0.049	97	53-101	
Phenol	mg/L	0.05	0.021	42	28-120	
Pyridine	mg/L	0.05	0.037	73	10-130	
2,4,6-Tribromophenol (S)	%			99	62-172	
2-Fluorobiphenyl (S)	%			89	54-107	
Nitrobenzene-d5 (S)	%			90	41-118	
Phenol-d6 (S)	%			40	12-120	

MATRIX SPIKE SAMPLE: 2190494

Parameter	Units	40223280001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	mg/L	<14.4 ug/L	0.25	0.15	60	46-99	
2,4,5-Trichlorophenol	mg/L	<6.4 ug/L	0.25	0.24	97	24-139	
2,4,6-Trichlorophenol	mg/L	<8.0 ug/L	0.25	0.23	91	18-131	
2,4-Dinitrotoluene	mg/L	<10.6 ug/L	0.25	0.25	99	22-158	
2-Methylphenol(o-Cresol)	mg/L	<9.3 ug/L	0.25	0.20	79	29-130	
3&4-Methylphenol(m&p Cresol)	mg/L	<6.1 ug/L	0.25	0.18	73	19-130	
Hexachloro-1,3-butadiene	mg/L	<16.5 ug/L	0.25	0.14	55	51-113	
Hexachlorobenzene	mg/L	<11.5 ug/L	0.25	0.23	92	70-130	
Hexachloroethane	mg/L	<14.2 ug/L	0.25	0.11	45	35-102	
Nitrobenzene	mg/L	<10.7 ug/L	0.25	0.22	88	51-130	
Pentachlorophenol	mg/L	<45.5 ug/L	0.25	0.25	100	10-200	
Phenol	mg/L	<3.2 ug/L	0.25	0.10	41	14-120	
Pyridine	mg/L	<15.1 ug/L	0.25	0.16	63	10-130	
2,4,6-Tribromophenol (S)	%				95	62-172	
2-Fluorobiphenyl (S)	%				85	54-107	
Nitrobenzene-d5 (S)	%				92	41-118	

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QUALITY CONTROL DATA

Project: SPRING HARBOR

Pace Project No.: 40223291

MATRIX SPIKE SAMPLE:		2190494		40223280001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers		
Phenol-d6 (S)	%				40	12-120			

MATRIX SPIKE SAMPLE:		2190495		40223291006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers		
1,4-Dichlorobenzene	mg/L	<0.014	0.25	0.13	51	46-99			
2,4,5-Trichlorophenol	mg/L	<0.0064	0.25	0.25	99	24-139			
2,4,6-Trichlorophenol	mg/L	<0.0080	0.25	0.24	98	18-131			
2,4-Dinitrotoluene	mg/L	<0.011	0.25	0.24	95	22-158			
2-Methylphenol(o-Cresol)	mg/L	<0.0093	0.25	0.19	76	29-130			
3&4-Methylphenol(m&p Cresol)	mg/L	<0.0061	0.25	0.18	71	19-130			
Hexachloro-1,3-butadiene	mg/L	<0.017	0.25	0.12	47	51-113	MO		
Hexachlorobenzene	mg/L	<0.011	0.25	0.24	94	70-130			
Hexachloroethane	mg/L	<0.014	0.25	0.091	36	35-102			
Nitrobenzene	mg/L	<0.011	0.25	0.22	88	51-130			
Pentachlorophenol	mg/L	<0.046	0.25	0.24	97	10-200			
Phenol	mg/L	<0.0032	0.25	0.10	42	14-120			
Pyridine	mg/L	<0.015	0.25	0.16	66	10-130			
2,4,6-Tribromophenol (S)	%				99	62-172			
2-Fluorobiphenyl (S)	%				83	54-107			
Nitrobenzene-d5 (S)	%				87	41-118			
Phenol-d6 (S)	%				41	12-120			

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QUALITY CONTROL DATA

Project: SPRING HARBOR

Pace Project No.: 40223291

QC Batch: 379759

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

SAMPLE DUPLICATE: 2190276

Parameter	Units	40223322003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.2	9.1	1	10	

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QUALITY CONTROL DATA

Project: SPRING HARBOR

Pace Project No.: 40223291

QC Batch: 379774

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291006

SAMPLE DUPLICATE: 2190303

Parameter	Units	40223397002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.8	20.9	4	10	

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QUALITY CONTROL DATA

Project: SPRING HARBOR

Pace Project No.: 40223291

QC Batch: 380206

Analysis Method: EPA 1010

QC Batch Method: EPA 1010

Analysis Description: 1010 Flash Point, Closed Cup

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291006

LABORATORY CONTROL SAMPLE: 2192669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		83.0			

SAMPLE DUPLICATE: 2193201

Parameter	Units	40223292001 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	>200	>200			

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 1637283 Analysis Method: EPA 9012B
QC Batch Method: 9012B Analysis Description: Wet Chemistry 9012 B
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 40223291006

METHOD BLANK: R3632858-1 Matrix: Solid
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	<0.0390	0.130	03/20/21 02:36	

LABORATORY CONTROL SAMPLE: R3632858-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	2.50	2.57	103	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3632858-4 R3632858-5

Parameter	Units	R3632858-4		R3632858-5		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual	
		L1326772-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Cyanide, Reactive	mg/kg	ND	1.67	1.67	0.958	1.30	57.5	77.8	75.0-125	30.0	20	ML, R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3632858-6 R3632858-7

Parameter	Units	R3632858-6		R3632858-7		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual	
		L1327214-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Cyanide, Reactive	mg/kg	0.253	1.67	1.67	0.704	0.748	27.1	29.7	75.0-125	5.98	20	ML

SAMPLE DUPLICATE: R3632858-3

Parameter	Units	L1326768-03 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/kg	ND	<0.0390	0.00	20	

SAMPLE DUPLICATE: R3632858-8

Parameter	Units	L1327992-03 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/kg	ND	<0.0390	0.00	20	

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 1636150 Analysis Method: EPA 9030B
QC Batch Method: 9034-9030B Analysis Description: Wet Chemistry 9034-9030B
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 40223291006

METHOD BLANK: R3631965-1 Matrix: Solid
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	<7.63	25.0	03/17/21 22:00	

LABORATORY CONTROL SAMPLE: R3631965-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	100	96.2	96.2	70.0-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3631965-3 R3631965-4

Parameter	Units	L1326531-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Reactive	mg/kg	ND	100	100	91.9	91.7	91.9	91.7	70.0-130	0.209	20	

SAMPLE DUPLICATE: R3631965-5

Parameter	Units	L1326531-04 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/kg	ND	<7.63	0.00	20	

SAMPLE DUPLICATE: R3631965-6

Parameter	Units	L1326531-06 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/kg	ND	<7.63	0.00	20	

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 1635938	Analysis Method: EPA 9066
QC Batch Method: 4AAP	Analysis Description: Wet Chemistry 9066
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 40223291006

METHOD BLANK: R3631992-1 Matrix: Solid
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/kg	<0.220	0.733	03/18/21 03:57	

LABORATORY CONTROL SAMPLE: R3631992-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/kg	8.33	8.62	103	72.1-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3631992-4 R3631992-5

Parameter	Units	R3631992-4		R3631992-5		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		L1326727-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Phenolics, Total Recoverable	mg/kg	0.293	16.7	16.7	14.5	15.9	85.2	93.7	15.4-151	9.37	20

SAMPLE DUPLICATE: R3631992-3

Parameter	Units	L1324791-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Phenolics, Total Recoverable	mg/kg	1.31	2.54	64.1	20	D8

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 379834	Analysis Method: EPA 9040
QC Batch Method: EPA 9040	Analysis Description: 9040 pH
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291006

SAMPLE DUPLICATE: 2190505

Parameter	Units	40223291006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	20	H6

SAMPLE DUPLICATE: 2190506

Parameter	Units	40223392001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.9	9.9	0	20	H6

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 730781	Analysis Method: EPA 9071
QC Batch Method: EPA 9071B	Analysis Description: 9071 SOX, Oil and Grease
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 40223291006

METHOD BLANK: 3894644 Matrix: Solid
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/kg	<114	380	03/23/21 15:14	

LABORATORY CONTROL SAMPLE & LCSD: 3894645

Parameter	Units	3894646								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Oil and Grease	mg/kg	4000	3890	4100	97	102	78-114	5	18	

MATRIX SPIKE SAMPLE: 3894647

Parameter	Units	70165851001						
		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers		
Oil and Grease	mg/kg	17900	49700	66700	98	78-114		

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QUALITY CONTROL DATA

Project: SPRING HARBOR

Pace Project No.: 40223291

QC Batch: 608765

Analysis Method: EPA 9076

QC Batch Method: EPA 9076

Analysis Description: 9076 Total Chlorine

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 40223291006

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3206492 3206493

Parameter	Units	92529028001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chlorine, Total	%	ND	0.05	0.05	<0.010	<0.010	2	3	80-120			20	M0,N2

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 379718	Analysis Method: EPA 9095
QC Batch Method: EPA 9095	Analysis Description: 9095 PAINT FILTER LIQUID TEST
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291006

METHOD BLANK: 2190094 Matrix: Solid
Associated Lab Samples: 40223291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Free Liquids	no units	Fail		03/15/21 11:43	

LABORATORY CONTROL SAMPLE: 2190095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Free Liquids	no units		Pass			

SAMPLE DUPLICATE: 2190096

Parameter	Units	40223320002 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids	no units	Pass	Pass			

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 379873 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

METHOD BLANK: 2190691 Matrix: Solid
Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	<6.4	21.5	03/16/21 17:00	

LABORATORY CONTROL SAMPLE: 2190692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	300	303	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2190693 2190694

Parameter	Units	40222962001		2190693		2190694		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Nitrogen, Ammonia	mg/kg	4790	306	303	5670	4970	288	58	80-120	13	20	P6		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2190695 2190696

Parameter	Units	40223291001		2190695		2190696		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Nitrogen, Ammonia	mg/kg	406	447	452	812	823	91	92	80-120	1	20			

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 380101 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

METHOD BLANK: 2191932 Matrix: Solid
Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	1.1J	3.2	03/19/21 10:43	

LABORATORY CONTROL SAMPLE: 2191933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	25	29.0	116	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2191934 2191935

Parameter	Units	2191934		2191935		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40223544003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, NO2 plus NO3	mg/kg	2540	43.3	43.3	2500	2410	-82	-290	80-120	4	20 P6

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QUALITY CONTROL DATA

Project: SPRING HARBOR

Pace Project No.: 40223291

QC Batch:	380259	Analysis Method:	EPA 365.4
QC Batch Method:	EPA 365.4	Analysis Description:	365.4 Total Phosphorus
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

METHOD BLANK: 2193121 Matrix: Solid
Associated Lab Samples: 40223291001, 40223291002, 40223291003, 40223291004, 40223291005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/kg	3.1J	20.0	03/22/21 13:57	

LABORATORY CONTROL SAMPLE: 2193122

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	500	509	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2193123 2193124

Parameter	Units	2193123		2193124		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Phosphorus	mg/kg	425	872	1180	1160	87	85	80-120	1	20	

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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 380046 Analysis Method: EPA 9060 Modified
QC Batch Method: EPA 9060 Modified Analysis Description: 9060 TOC Average
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40223291001, 40223291002

METHOD BLANK: 2191747 Matrix: Solid
Associated Lab Samples: 40223291001, 40223291002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/kg	<179	600	03/18/21 10:36	

LABORATORY CONTROL SAMPLE: 2191748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/kg	120000	121000	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2191749 2191750

Parameter	Units	2191749		2191750		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40223269002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mean Total Organic Carbon	mg/kg	14000	7130	7130	23700	25700	135	163	50-150	8	30 M0

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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QUALITY CONTROL DATA

Project: SPRING HARBOR
Pace Project No.: 40223291

QC Batch: 380166 Analysis Method: EPA 9060 Modified
QC Batch Method: EPA 9060 Modified Analysis Description: 9060 TOC Average
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40223291003, 40223291004, 40223291005

METHOD BLANK: 2192459 Matrix: Solid
Associated Lab Samples: 40223291003, 40223291004, 40223291005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/kg	<179	600	03/23/21 04:15	

LABORATORY CONTROL SAMPLE: 2192460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/kg	120000	123000	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2192461 2192462

Parameter	Units	40223270003		2192462		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MSD Spike Conc.							
Mean Total Organic Carbon	mg/kg	571J	7190	7210	8910	9590	116	125	50-150	7	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2192463 2192464

Parameter	Units	40223270004		2192464		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MSD Spike Conc.							
Mean Total Organic Carbon	mg/kg	518J	7070	7070	9080	10100	121	135	50-150	10	30	

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QUALIFIERS

Project: SPRING HARBOR
Pace Project No.: 40223291

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 LOD.
 J - Estimated concentration at or above the LOD and below the LOQ.
 LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.
 LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.
 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 at or above the adjusted LOD.
 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.

WORKORDER QUALIFIERS

WO: 40223291

- [1] All Reactive Cyanide results reported in the attached report were determined as totals using method 9012B.
- [1] All Reactive Sulfide results reported in the attached report were determined as totals using method 9034/9030B.

ANALYTE QUALIFIERS

- 1q Due to the sample matrix, DI water was added to this sample on a one to one basis and the sample was stirred before analysis.
- 2q Use of method EPA 1010A for flash point analysis on solid samples is for informational purposes only. It is the user's responsibility to verify the acceptance of this data for intended use.
- B Analyte was detected in the associated method blank.
- D8 The sample and duplicate results for this parameter are less than 5 times the reporting limit, the RPD may not be statistically valid.
- H2 Extraction or preparation was conducted outside of the recognized method holding time.
- H3 Sample was received or analysis requested beyond the recognized method holding time.
- H6 Analysis initiated outside of the 15 minute EPA required holding time.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
- N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
- P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
- R1 RPD value was outside control limits.

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QUALIFIERS

Project: SPRING HARBOR

Pace Project No.: 40223291

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SPRING HARBOR
Pace Project No.: 40223291

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40223291001	SC1 TOP	EPA 3541	379817	EPA 8082	379818
40223291002	SC2 TOP	EPA 3541	379817	EPA 8082	379818
40223291003	SC3 TOP	EPA 3541	379817	EPA 8082	379818
40223291004	SC4 TOP	EPA 3541	379817	EPA 8082	379818
40223291005	SC5 TOP	EPA 3541	379817	EPA 8082	379818
40223291006	LF	EPA 3541	379817	EPA 8082	379818
40223291001	SC1 TOP	EPA 3050	379717	EPA 6010	379885
40223291002	SC2 TOP	EPA 3050	379717	EPA 6010	379885
40223291003	SC3 TOP	EPA 3050	379717	EPA 6010	379885
40223291004	SC4 TOP	EPA 3050	379717	EPA 6010	379885
40223291005	SC5 TOP	EPA 3050	379717	EPA 6010	379885
40223291006	LF	EPA 3010	379843	EPA 6010	379897
40223291006	LF	EPA 7470	379842	EPA 7470	379860
40223291001	SC1 TOP	EPA 7471	380087	EPA 7471	380288
40223291002	SC2 TOP	EPA 7471	380087	EPA 7471	380288
40223291003	SC3 TOP	EPA 7471	380087	EPA 7471	380288
40223291004	SC4 TOP	EPA 7471	380087	EPA 7471	380288
40223291005	SC5 TOP	EPA 7471	380087	EPA 7471	380288
40223291001	SC1 TOP	EPA 3546	380414	EPA 8270E by SIM	380477
40223291002	SC2 TOP	EPA 3546	380414	EPA 8270E by SIM	380477
40223291003	SC3 TOP	EPA 3546	380414	EPA 8270E by SIM	380477
40223291004	SC4 TOP	EPA 3546	380414	EPA 8270E by SIM	380477
40223291005	SC5 TOP	EPA 3546	380414	EPA 8270E by SIM	380477
40223291006	LF	EPA 3510	379830	EPA 8270E	379905
40223291006	LF	EPA 8260	379967		
40223291001	SC1 TOP	ASTM D2974-87	379759		
40223291002	SC2 TOP	ASTM D2974-87	379759		
40223291003	SC3 TOP	ASTM D2974-87	379759		
40223291004	SC4 TOP	ASTM D2974-87	379759		
40223291005	SC5 TOP	ASTM D2974-87	379759		
40223291006	LF	ASTM D2974-87	379774		
40223291006	LF	EPA 1010	380206		
40223291006	LF	9012B	1637283	EPA 9012B	1637283
40223291006	LF	9034-9030B	1636150	EPA 9030B	1636150
40223291006	LF	4AAP	1635938	EPA 9066	1635938
40223291006	LF	EPA 9040	379834		
40223291006	LF	EPA 9071B	730781	EPA 9071	730860
40223291006	LF	EPA 9076	608765		
40223291006	LF	EPA 9095	379718		
40223291001	SC1 TOP	EPA 350.1	379873	EPA 350.1	379900

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SPRING HARBOR
Pace Project No.: 40223291

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40223291002	SC2 TOP	EPA 350.1	379873	EPA 350.1	379900
40223291003	SC3 TOP	EPA 350.1	379873	EPA 350.1	379900
40223291004	SC4 TOP	EPA 350.1	379873	EPA 350.1	379900
40223291005	SC5 TOP	EPA 350.1	379873	EPA 350.1	379900
40223291001	SC1 TOP	EPA 353.2	380101	EPA 353.2	380144
40223291002	SC2 TOP	EPA 353.2	380101	EPA 353.2	380144
40223291003	SC3 TOP	EPA 353.2	380101	EPA 353.2	380144
40223291004	SC4 TOP	EPA 353.2	380101	EPA 353.2	380144
40223291005	SC5 TOP	EPA 353.2	380101	EPA 353.2	380144
40223291001	SC1 TOP	EPA 365.4	380259	EPA 365.4	380323
40223291002	SC2 TOP	EPA 365.4	380259	EPA 365.4	380323
40223291003	SC3 TOP	EPA 365.4	380259	EPA 365.4	380323
40223291004	SC4 TOP	EPA 365.4	380259	EPA 365.4	380323
40223291005	SC5 TOP	EPA 365.4	380259	EPA 365.4	380323
40223291001	SC1 TOP	EPA 9060 Modified	380046		
40223291001	SC1 TOP	EPA 9060 Modified	380047		
40223291002	SC2 TOP	EPA 9060 Modified	380046		
40223291002	SC2 TOP	EPA 9060 Modified	380047		
40223291003	SC3 TOP	EPA 9060 Modified	380166		
40223291003	SC3 TOP	EPA 9060 Modified	380167		
40223291004	SC4 TOP	EPA 9060 Modified	380166		
40223291004	SC4 TOP	EPA 9060 Modified	380167		
40223291005	SC5 TOP	EPA 9060 Modified	380166		
40223291005	SC5 TOP	EPA 9060 Modified	380167		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name: Brynn Bemis
 Branch/Location: City of Madison
 Project Contact: Brynn Bemis
 Phone: 608.695.1385
 Project Number: —
 Project Name: Spring Harbor
 Project State: WI
 Sampled By (Print): Brynn Bemis
 Sampled By (Sign): [Signature]
 PO #: Regulatory Program:

Data Package Options (billable)
 EPA Level III
 EPA Level IV
 On your sample (billable)
 NOT needed on your sample

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WW = Waste Water
 WP = Wipes

PACE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX
001	SC1-top	2/23/21	10:00	S
002	SC2-top	2/24/21	11:30	S
003	SC3-top	2/24/21	10:06	S
004	SC4-top	2/24/21	11:30	S
005	SC5-top	2/24/21	12:30	S
006	LF	2/28-2/21	—	S

Quote #: _____
 Mail To Contact: Brynn Bemis
 Mail To Company: _____
 Mail To Address: b Bemis@cityofmadison.com
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: 608.695.1385
 CLIENT COMMENTS: LAB COMMENTS (Lab Use Only)
 COMMENTS: I know these are out of the 2-wk hold time for PAHs. see attached. Please composite the 5 jars!

Y/N	Pick Letter	ANALYSES REQUESTED	PAHs	As, Cr, Cd, Cu, Pb, Ni, Zn	Total Org. Carbon	Total P	NO ₃ + NO ₂	Zn + Pb	PCBs	Protocol 3 (attached)
	A		X	X	X	X	X	X	X	
	A		X	X	X	X	X	X	X	
	A		X	X	X	X	X	X	X	
	A		X	X	X	X	X	X	X	
	A		X	X	X	X	X	X	X	
	A		X	X	X	X	X	X	X	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____
 Transmit Prelim Rush Results by (complete what you want): _____
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: [Signature] Date/Time: 3/11/21 15:52
 Relinquished By: [Signature] Date/Time: 3/12/21 0745
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: [Signature] Date/Time: 03-11-21 15:52
 Received By: [Signature] Date/Time: 03-12-21 0745
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

Sample Receipt pH: OK / Adjusted
 Cooler Custody Seal: Present / Not Present
 Intact / Not Intact: Intact / Not Intact of 60

Reception Temp = RA °C

PAGE Project No. 40273251

Protocol 3

(All Other Special Waste Sludge, Ash, and Sediments)

<u>Analytical Parameter</u>	<u>Acceptance Criteria</u>
pH	$2.5 \leq \text{pH} \leq 12.0$
Total solids	> 40%
Free liquids (paint filter)	0%
Flash point (closed cup)	> 140°F
% Chlorine ¹	< 1%
Oil & Grease	< 2,000 ppm ²
Sulfide, total available (as H ₂ S)	< 500 ppm
Cyanide, total available (as HCN)	< 250 ppm
Phenol	< 2,000 ppm
<u>TCLP Metals³</u>	
arsenic	< 5.0 ppm
barium	< 100.0 ppm
cadmium	< 1.0 ppm
chromium	< 5.0 ppm
copper	< 100.0 ppm
lead	< 5.0 ppm
mercury	< 0.2 ppm
nickel	< 35.0 ppm
selenium	< 1.0 ppm
silver	< 5.0 ppm
zinc	< 200.0 ppm
<u>TCLP Organics³</u>	
benzene	< 0.5 ppm
carbon tetrachloride	< 0.5 ppm
chlorobenzene	< 100.0 ppm
chloroform	< 6.0 ppm
o-cresol	< 200.0 ppm ⁴
m-cresol	< 200.0 ppm ⁴
p-cresol	< 200.0 ppm ⁴
1,4-dichlorobenzene	< 7.5 ppm

¹ If chlorine is $\geq 1\%$, the total concentration of the following 12 compounds must be analyzed; tetrachloroethene; carbon tetrachloride; 1,1,2-trichloro-1,2,2-trifluoroethane; trichloroethene; chloroform; trichlorofluoromethane; methylene chloride; o-dichlorobenzene; 1,1-dichloroethene; 1,1,1-trichloroethane dichlorodifluoromethane; 1,2-dichloroethene. The acceptance criteria for these chlorinated compounds is met if the sum of the weight concentrations of these compounds is less than 1% of the total weight. (NR 661.31, Table II).

² Parts per million (ppm) = mg/l = mg/kg

³ For all parameters identified as requiring TCLP extraction, it is permissible to run a totals analysis first and if the parameter totals analysis is < 20 times the TCLP acceptance criteria, the TCLP analysis is not required.

⁴ If o-, m- and p-cresol concentrations cannot be differentiated, the total cresol concentration is used. The acceptance criteria for total cresol is TCLP < 200.0 mg/l.

Protocol 3 (continued)

(All Other Special Waste Sludge, Ash, and Sediments)

<u>Analytical Parameter</u>	<u>Acceptance Criteria</u>
<u>TCLP Organics</u> ³	
1,2-dichloroethane	< 0.5 ppm
1,1-dichloroethene	< 0.7 ppm
2,4-dinitrotoluene	< 0.13 ppm
hexachlorobenzene	< 0.13 ppm
hexachloro-1,3-butadiene	< 0.5 ppm
hexachloroethane	< 3.0 ppm
methyl ethyl ketone	< 200.0 ppm
nitrobenzene	< 2.0 ppm
pentachlorophenol	< 100.0 ppm
pyridine	< 5.0 ppm
tetrachloroethene	< 0.7 ppm
trichloroethene	< 0.5 ppm
2,4,5-trichlorophenol	< 400.0 ppm
2,4,6-trichlorophenol	< 2.0 ppm
vinyl chloride	< 0.2 ppm
Polychlorinated Biphenyls (PCBs)	< 50 ppm

⁵ PCB analyses must include Arochlor 1016, 1221, 1232, 1242, 1248, 1254 and 1260 and the total of all of these must be < 50 ppm to meet the acceptance criteria.

June 10, 2022

Brynn Bemis
City of Madison - Department of Engineering
210 Martin Luther King Jr Blvd
Room 115
Madison, WI 53703

RE: Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

Dear Brynn Bemis:

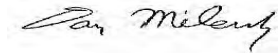
Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: SPRING HARBOR SEDIMENT

Pace Project No.: 40245827

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: SPRING HARBOR SEDIMENT

Pace Project No.: 40245827

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40245827001	SC6-5'-8'	Solid	05/27/22 10:00	06/02/22 07:50
40245827002	SC7-5'-8'	Solid	05/27/22 11:00	06/02/22 07:50
40245827003	SC8-4'-8'	Solid	05/27/22 11:45	06/02/22 07:50

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SAMPLE ANALYTE COUNT

Project: SPRING HARBOR SEDIMENT

Pace Project No.: 40245827

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40245827001	SC6-5'-8'	EPA 8082A	BLM	10
		EPA 6010D	TXW	7
		EPA 7471	AJT	1
		EPA 8270E by SIM	RJN	20
		ASTM D2974-87	PDV	1
		Walkley Black	TJJ	1
40245827002	SC7-5'-8'	EPA 8082A	BLM	10
		EPA 6010D	TXW	7
		EPA 7471	AJT	1
		EPA 8270E by SIM	RJN	20
		ASTM D2974-87	PDV	1
		Walkley Black	TJJ	1
40245827003	SC8-4'-8'	EPA 8082A	BLM	10
		EPA 6010D	TXW	7
		EPA 7471	AJT	1
		EPA 8270E by SIM	RJN	20
		ASTM D2974-87	PDV	1
		Walkley Black	TJJ	1

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: SPRING HARBOR SEDIMENT

Pace Project No.: 40245827

Sample: SC6-5'-8' **Lab ID: 40245827001** Collected: 05/27/22 10:00 Received: 06/02/22 07:50 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<28.9	ug/kg	95.0	28.9	1	06/02/22 18:01	06/03/22 18:54	12674-11-2	
PCB-1221 (Aroclor 1221)	<28.9	ug/kg	95.0	28.9	1	06/02/22 18:01	06/03/22 18:54	11104-28-2	
PCB-1232 (Aroclor 1232)	<28.9	ug/kg	95.0	28.9	1	06/02/22 18:01	06/03/22 18:54	11141-16-5	
PCB-1242 (Aroclor 1242)	<28.9	ug/kg	95.0	28.9	1	06/02/22 18:01	06/03/22 18:54	53469-21-9	
PCB-1248 (Aroclor 1248)	<28.9	ug/kg	95.0	28.9	1	06/02/22 18:01	06/03/22 18:54	12672-29-6	
PCB-1254 (Aroclor 1254)	<28.9	ug/kg	95.0	28.9	1	06/02/22 18:01	06/03/22 18:54	11097-69-1	
PCB-1260 (Aroclor 1260)	<28.9	ug/kg	95.0	28.9	1	06/02/22 18:01	06/03/22 18:54	11096-82-5	
PCB, Total	<28.9	ug/kg	95.0	28.9	1	06/02/22 18:01	06/03/22 18:54	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	50-99		1	06/02/22 18:01	06/03/22 18:54	877-09-8	
Decachlorobiphenyl (S)	59	%	38-95		1	06/02/22 18:01	06/03/22 18:54	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<2.7	mg/kg	4.6	2.7	1	06/06/22 07:15	06/06/22 19:23	7440-38-2	
Cadmium	<0.24	mg/kg	0.92	0.24	1	06/06/22 07:15	06/06/22 19:23	7440-43-9	
Chromium	8.4	mg/kg	1.8	0.51	1	06/06/22 07:15	06/06/22 19:23	7440-47-3	
Copper	11.8	mg/kg	1.8	0.51	1	06/06/22 07:15	06/06/22 19:23	7440-50-8	
Iron	5490	mg/kg	18.4	5.8	1	06/06/22 07:15	06/06/22 19:23	7439-89-6	
Lead	7.4	mg/kg	3.7	1.1	1	06/06/22 07:15	06/06/22 19:23	7439-92-1	
Zinc	46.4	mg/kg	7.3	2.2	1	06/06/22 07:15	06/06/22 19:23	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.017	mg/kg	0.060	0.017	1	06/08/22 08:29	06/09/22 11:50	7439-97-6	1q
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	63.9J	ug/kg	159	20.6	5	06/07/22 07:43	06/07/22 17:03	83-32-9	
Acenaphthylene	<20.0	ug/kg	159	20.0	5	06/07/22 07:43	06/07/22 17:03	208-96-8	
Anthracene	149J	ug/kg	159	19.7	5	06/07/22 07:43	06/07/22 17:03	120-12-7	
Benzo(a)anthracene	606	ug/kg	159	20.5	5	06/07/22 07:43	06/07/22 17:03	56-55-3	
Benzo(a)pyrene	570	ug/kg	159	18.0	5	06/07/22 07:43	06/07/22 17:03	50-32-8	
Benzo(b)fluoranthene	807	ug/kg	159	22.0	5	06/07/22 07:43	06/07/22 17:03	205-99-2	
Benzo(g,h,i)perylene	394	ug/kg	159	27.9	5	06/07/22 07:43	06/07/22 17:03	191-24-2	
Benzo(k)fluoranthene	340	ug/kg	159	20.3	5	06/07/22 07:43	06/07/22 17:03	207-08-9	
Chrysene	810	ug/kg	159	30.0	5	06/07/22 07:43	06/07/22 17:03	218-01-9	
Dibenz(a,h)anthracene	101J	ug/kg	159	22.0	5	06/07/22 07:43	06/07/22 17:03	53-70-3	
Fluoranthene	1920	ug/kg	159	18.8	5	06/07/22 07:43	06/07/22 17:03	206-44-0	
Fluorene	87.9J	ug/kg	159	19.0	5	06/07/22 07:43	06/07/22 17:03	86-73-7	
Indeno(1,2,3-cd)pyrene	352	ug/kg	159	33.1	5	06/07/22 07:43	06/07/22 17:03	193-39-5	
1-Methylnaphthalene	<23.2	ug/kg	159	23.2	5	06/07/22 07:43	06/07/22 17:03	90-12-0	
2-Methylnaphthalene	<23.2	ug/kg	159	23.2	5	06/07/22 07:43	06/07/22 17:03	91-57-6	
Naphthalene	<15.5	ug/kg	159	15.5	5	06/07/22 07:43	06/07/22 17:03	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR SEDIMENT

Pace Project No.: 40245827

Sample: SC6-5'-8' **Lab ID: 40245827001** Collected: 05/27/22 10:00 Received: 06/02/22 07:50 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Phenanthrene	1160	ug/kg	159	18.2	5	06/07/22 07:43	06/07/22 17:03	85-01-8	
Pyrene	1480	ug/kg	159	23.3	5	06/07/22 07:43	06/07/22 17:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	41-98		5	06/07/22 07:43	06/07/22 17:03	321-60-8	
Terphenyl-d14 (S)	53	%	37-106		5	06/07/22 07:43	06/07/22 17:03	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	47.4	%	0.10	0.10	1		06/02/22 15:39		
Organic Carbon Walkley Black									
Analytical Method: Walkley Black Preparation Method: Walkley Black									
Pace Analytical Services - Green Bay									
Total Organic Carbon	31200	mg/kg	4130	1240	1	06/10/22 06:20	06/10/22 08:50	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

Sample: SC7-5'-8' **Lab ID: 40245827002** Collected: 05/27/22 11:00 Received: 06/02/22 07:50 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<32.9	ug/kg	108	32.9	1	06/02/22 18:01	06/03/22 19:18	12674-11-2	
PCB-1221 (Aroclor 1221)	<32.9	ug/kg	108	32.9	1	06/02/22 18:01	06/03/22 19:18	11104-28-2	
PCB-1232 (Aroclor 1232)	<32.9	ug/kg	108	32.9	1	06/02/22 18:01	06/03/22 19:18	11141-16-5	
PCB-1242 (Aroclor 1242)	<32.9	ug/kg	108	32.9	1	06/02/22 18:01	06/03/22 19:18	53469-21-9	
PCB-1248 (Aroclor 1248)	<32.9	ug/kg	108	32.9	1	06/02/22 18:01	06/03/22 19:18	12672-29-6	
PCB-1254 (Aroclor 1254)	<32.9	ug/kg	108	32.9	1	06/02/22 18:01	06/03/22 19:18	11097-69-1	
PCB-1260 (Aroclor 1260)	<32.9	ug/kg	108	32.9	1	06/02/22 18:01	06/03/22 19:18	11096-82-5	
PCB, Total	<32.9	ug/kg	108	32.9	1	06/02/22 18:01	06/03/22 19:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	74	%	50-99		1	06/02/22 18:01	06/03/22 19:18	877-09-8	
Decachlorobiphenyl (S)	55	%	38-95		1	06/02/22 18:01	06/03/22 19:18	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	3.7J	mg/kg	5.4	3.2	1	06/06/22 07:15	06/06/22 19:26	7440-38-2	
Cadmium	0.38J	mg/kg	1.1	0.29	1	06/06/22 07:15	06/06/22 19:26	7440-43-9	
Chromium	18.8	mg/kg	2.2	0.60	1	06/06/22 07:15	06/06/22 19:26	7440-47-3	
Copper	26.7	mg/kg	2.2	0.60	1	06/06/22 07:15	06/06/22 19:26	7440-50-8	
Iron	9700	mg/kg	21.6	6.8	1	06/06/22 07:15	06/06/22 19:26	7439-89-6	
Lead	27.8	mg/kg	4.3	1.3	1	06/06/22 07:15	06/06/22 19:26	7439-92-1	
Zinc	127	mg/kg	8.6	2.6	1	06/06/22 07:15	06/06/22 19:26	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.020	mg/kg	0.070	0.020	1	06/08/22 08:29	06/09/22 11:57	7439-97-6	1q
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	19.3J	ug/kg	145	18.8	4	06/07/22 07:43	06/07/22 17:20	83-32-9	
Acenaphthylene	<18.3	ug/kg	145	18.3	4	06/07/22 07:43	06/07/22 17:20	208-96-8	
Anthracene	53.7J	ug/kg	145	18.0	4	06/07/22 07:43	06/07/22 17:20	120-12-7	
Benzo(a)anthracene	350	ug/kg	145	18.7	4	06/07/22 07:43	06/07/22 17:20	56-55-3	
Benzo(a)pyrene	417	ug/kg	145	16.5	4	06/07/22 07:43	06/07/22 17:20	50-32-8	
Benzo(b)fluoranthene	710	ug/kg	145	20.1	4	06/07/22 07:43	06/07/22 17:20	205-99-2	
Benzo(g,h,i)perylene	330	ug/kg	145	25.4	4	06/07/22 07:43	06/07/22 17:20	191-24-2	
Benzo(k)fluoranthene	293	ug/kg	145	18.5	4	06/07/22 07:43	06/07/22 17:20	207-08-9	
Chrysene	557	ug/kg	145	27.3	4	06/07/22 07:43	06/07/22 17:20	218-01-9	
Dibenz(a,h)anthracene	68.7J	ug/kg	145	20.1	4	06/07/22 07:43	06/07/22 17:20	53-70-3	
Fluoranthene	1180	ug/kg	145	17.2	4	06/07/22 07:43	06/07/22 17:20	206-44-0	
Fluorene	32.0J	ug/kg	145	17.4	4	06/07/22 07:43	06/07/22 17:20	86-73-7	
Indeno(1,2,3-cd)pyrene	268	ug/kg	145	30.2	4	06/07/22 07:43	06/07/22 17:20	193-39-5	
1-Methylnaphthalene	<21.2	ug/kg	145	21.2	4	06/07/22 07:43	06/07/22 17:20	90-12-0	
2-Methylnaphthalene	<21.2	ug/kg	145	21.2	4	06/07/22 07:43	06/07/22 17:20	91-57-6	
Naphthalene	<14.1	ug/kg	145	14.1	4	06/07/22 07:43	06/07/22 17:20	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR SEDIMENT

Pace Project No.: 40245827

Sample: SC7-5'-8' **Lab ID: 40245827002** Collected: 05/27/22 11:00 Received: 06/02/22 07:50 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Phenanthrene	457	ug/kg	145	16.6	4	06/07/22 07:43	06/07/22 17:20	85-01-8	
Pyrene	879	ug/kg	145	21.3	4	06/07/22 07:43	06/07/22 17:20	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	41-98		4	06/07/22 07:43	06/07/22 17:20	321-60-8	
Terphenyl-d14 (S)	70	%	37-106		4	06/07/22 07:43	06/07/22 17:20	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	53.9	%	0.10	0.10	1		06/02/22 15:39		
Organic Carbon Walkley Black									
Analytical Method: Walkley Black Preparation Method: Walkley Black									
Pace Analytical Services - Green Bay									
Total Organic Carbon	47000	mg/kg	5370	1610	1	06/10/22 06:20	06/10/22 08:51	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

Sample: SC8-4'-8' **Lab ID: 40245827003** Collected: 05/27/22 11:45 Received: 06/02/22 07:50 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<28.6	ug/kg	93.8	28.6	1	06/02/22 18:01	06/03/22 16:07	12674-11-2	
PCB-1221 (Aroclor 1221)	<28.6	ug/kg	93.8	28.6	1	06/02/22 18:01	06/03/22 16:07	11104-28-2	
PCB-1232 (Aroclor 1232)	<28.6	ug/kg	93.8	28.6	1	06/02/22 18:01	06/03/22 16:07	11141-16-5	
PCB-1242 (Aroclor 1242)	<28.6	ug/kg	93.8	28.6	1	06/02/22 18:01	06/03/22 16:07	53469-21-9	
PCB-1248 (Aroclor 1248)	<28.6	ug/kg	93.8	28.6	1	06/02/22 18:01	06/03/22 16:07	12672-29-6	
PCB-1254 (Aroclor 1254)	<28.6	ug/kg	93.8	28.6	1	06/02/22 18:01	06/03/22 16:07	11097-69-1	
PCB-1260 (Aroclor 1260)	<28.6	ug/kg	93.8	28.6	1	06/02/22 18:01	06/03/22 16:07	11096-82-5	
PCB, Total	<28.6	ug/kg	93.8	28.6	1	06/02/22 18:01	06/03/22 16:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	63	%	50-99		1	06/02/22 18:01	06/03/22 16:07	877-09-8	
Decachlorobiphenyl (S)	58	%	38-95		1	06/02/22 18:01	06/03/22 16:07	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	4.5J	mg/kg	4.6	2.7	1	06/06/22 07:15	06/06/22 19:28	7440-38-2	
Cadmium	0.61J	mg/kg	0.92	0.24	1	06/06/22 07:15	06/06/22 19:28	7440-43-9	
Chromium	28.3	mg/kg	1.8	0.51	1	06/06/22 07:15	06/06/22 19:28	7440-47-3	
Copper	30.6	mg/kg	1.8	0.51	1	06/06/22 07:15	06/06/22 19:28	7440-50-8	
Iron	12400	mg/kg	18.4	5.8	1	06/06/22 07:15	06/06/22 19:28	7439-89-6	
Lead	65.4	mg/kg	3.7	1.1	1	06/06/22 07:15	06/06/22 19:28	7439-92-1	
Zinc	152	mg/kg	7.4	2.2	1	06/06/22 07:15	06/06/22 19:28	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.021J	mg/kg	0.062	0.018	1	06/08/22 08:29	06/09/22 11:59	7439-97-6	1q
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	29.2J	ug/kg	157	20.3	5	06/07/22 07:43	06/07/22 17:38	83-32-9	
Acenaphthylene	<19.8	ug/kg	157	19.8	5	06/07/22 07:43	06/07/22 17:38	208-96-8	
Anthracene	107J	ug/kg	157	19.5	5	06/07/22 07:43	06/07/22 17:38	120-12-7	
Benzo(a)anthracene	564	ug/kg	157	20.3	5	06/07/22 07:43	06/07/22 17:38	56-55-3	
Benzo(a)pyrene	593	ug/kg	157	17.8	5	06/07/22 07:43	06/07/22 17:38	50-32-8	
Benzo(b)fluoranthene	991	ug/kg	157	21.8	5	06/07/22 07:43	06/07/22 17:38	205-99-2	
Benzo(g,h,i)perylene	465	ug/kg	157	27.5	5	06/07/22 07:43	06/07/22 17:38	191-24-2	
Benzo(k)fluoranthene	384	ug/kg	157	20.0	5	06/07/22 07:43	06/07/22 17:38	207-08-9	
Chrysene	790	ug/kg	157	29.6	5	06/07/22 07:43	06/07/22 17:38	218-01-9	
Dibenz(a,h)anthracene	99.0J	ug/kg	157	21.7	5	06/07/22 07:43	06/07/22 17:38	53-70-3	
Fluoranthene	1690	ug/kg	157	18.6	5	06/07/22 07:43	06/07/22 17:38	206-44-0	
Fluorene	49.4J	ug/kg	157	18.8	5	06/07/22 07:43	06/07/22 17:38	86-73-7	
Indeno(1,2,3-cd)pyrene	412	ug/kg	157	32.7	5	06/07/22 07:43	06/07/22 17:38	193-39-5	
1-Methylnaphthalene	<22.9	ug/kg	157	22.9	5	06/07/22 07:43	06/07/22 17:38	90-12-0	
2-Methylnaphthalene	<22.9	ug/kg	157	22.9	5	06/07/22 07:43	06/07/22 17:38	91-57-6	
Naphthalene	<15.3	ug/kg	157	15.3	5	06/07/22 07:43	06/07/22 17:38	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

Sample: SC8-4'-8' **Lab ID: 40245827003** Collected: 05/27/22 11:45 Received: 06/02/22 07:50 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Phenanthrene	733	ug/kg	157	18.0	5	06/07/22 07:43	06/07/22 17:38	85-01-8	
Pyrene	1330	ug/kg	157	23.0	5	06/07/22 07:43	06/07/22 17:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	41-98		5	06/07/22 07:43	06/07/22 17:38	321-60-8	
Terphenyl-d14 (S)	64	%	37-106		5	06/07/22 07:43	06/07/22 17:38	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	46.7	%	0.10	0.10	1		06/02/22 16:15		
Organic Carbon Walkley Black									
Analytical Method: Walkley Black Preparation Method: Walkley Black									
Pace Analytical Services - Green Bay									
Total Organic Carbon	38300	mg/kg	4290	1290	1	06/10/22 06:20	06/10/22 08:51	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

QC Batch: 417723 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245827001, 40245827002, 40245827003

METHOD BLANK: 2405264 Matrix: Solid

Associated Lab Samples: 40245827001, 40245827002, 40245827003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	06/09/22 11:29	

LABORATORY CONTROL SAMPLE: 2405265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.82	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2405266 2405267

Parameter	Units	40245659001		2405267		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/kg	<0.011	0.96	0.96	0.97	0.98	100	101	85-115	1	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

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QUALITY CONTROL DATA

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

QC Batch: 417349 Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40245827001, 40245827002, 40245827003

METHOD BLANK: 2403311 Matrix: Solid
Associated Lab Samples: 40245827001, 40245827002, 40245827003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	06/06/22 18:55	
Cadmium	mg/kg	<0.13	0.50	06/06/22 18:55	
Chromium	mg/kg	<0.28	1.0	06/06/22 18:55	
Copper	mg/kg	<0.28	1.0	06/06/22 18:55	
Iron	mg/kg	<3.2	10.0	06/06/22 18:55	
Lead	mg/kg	<0.60	2.0	06/06/22 18:55	
Zinc	mg/kg	<1.2	4.0	06/06/22 18:55	

LABORATORY CONTROL SAMPLE: 2403312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	25.9	104	80-120	
Cadmium	mg/kg	25	26.4	106	80-120	
Chromium	mg/kg	25	25.9	104	80-120	
Copper	mg/kg	25	26.6	107	80-120	
Iron	mg/kg	1000	1030	103	80-120	
Lead	mg/kg	25	27.0	108	80-120	
Zinc	mg/kg	25	27.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2403313 2403314

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40245760003 Result	Spike Conc.	Spike Conc.	Result							Result
Arsenic	mg/kg	<2.3	39.5	39.6	40.0	38.8	99	96	75-125	3	20	
Cadmium	mg/kg	<0.21	39.5	39.6	41.0	40.7	103	102	75-125	1	20	
Chromium	mg/kg	16.7	39.5	39.6	59.4	60.8	108	112	75-125	2	20	
Copper	mg/kg	33.9	39.5	39.6	131	56.6	246	57	75-125	79	20	M0, R1
Iron	mg/kg	3370	1580	1580	5660	5680	145	146	75-125	0	20	M0
Lead	mg/kg	3.8	39.5	39.6	45.0	44.5	104	103	75-125	1	20	
Zinc	mg/kg	70.2	39.5	39.6	107	112	92	105	75-125	5	20	

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QUALITY CONTROL DATA

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

QC Batch: 417331 Analysis Method: EPA 8082A
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245827001, 40245827002, 40245827003

METHOD BLANK: 2403187 Matrix: Solid
Associated Lab Samples: 40245827001, 40245827002, 40245827003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	06/03/22 12:55	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	06/03/22 12:55	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	06/03/22 12:55	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	06/03/22 12:55	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	06/03/22 12:55	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	06/03/22 12:55	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	06/03/22 12:55	
Decachlorobiphenyl (S)	%	88	38-95	06/03/22 12:55	
Tetrachloro-m-xylene (S)	%	81	50-99	06/03/22 12:55	

LABORATORY CONTROL SAMPLE: 2403188

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		37.8J			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	473	95	71-104	
Decachlorobiphenyl (S)	%			96	38-95	S0
Tetrachloro-m-xylene (S)	%			85	50-99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2403189 2403190

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40245783001 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	<16.3			<16.2	<16.3					20
PCB-1221 (Aroclor 1221)	ug/kg	<16.3			<16.2	<16.3					20
PCB-1232 (Aroclor 1232)	ug/kg	<16.3			<16.2	<16.3					20
PCB-1242 (Aroclor 1242)	ug/kg	<16.3			<16.2	<16.3					20
PCB-1248 (Aroclor 1248)	ug/kg	<16.3			<16.2	<16.3					20
PCB-1254 (Aroclor 1254)	ug/kg	<16.3			<16.2	<16.3					20
PCB-1260 (Aroclor 1260)	ug/kg	<16.3	532	535	384	373	72	70	42-109	3	20
Decachlorobiphenyl (S)	%						71	70	38-95		
Tetrachloro-m-xylene (S)	%						75	75	50-99		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

QC Batch: 417597 Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245827001, 40245827002, 40245827003

METHOD BLANK: 2404779 Matrix: Solid

Associated Lab Samples: 40245827001, 40245827002, 40245827003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	06/07/22 10:24	
2-Methylnaphthalene	ug/kg	<2.4	16.7	06/07/22 10:24	
Acenaphthene	ug/kg	<2.2	16.7	06/07/22 10:24	
Acenaphthylene	ug/kg	<2.1	16.7	06/07/22 10:24	
Anthracene	ug/kg	<2.1	16.7	06/07/22 10:24	
Benzo(a)anthracene	ug/kg	<2.2	16.7	06/07/22 10:24	
Benzo(a)pyrene	ug/kg	<1.9	16.7	06/07/22 10:24	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	06/07/22 10:24	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	06/07/22 10:24	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	06/07/22 10:24	
Chrysene	ug/kg	<3.1	16.7	06/07/22 10:24	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	06/07/22 10:24	
Fluoranthene	ug/kg	<2.0	16.7	06/07/22 10:24	
Fluorene	ug/kg	<2.0	16.7	06/07/22 10:24	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	06/07/22 10:24	
Naphthalene	ug/kg	<1.6	16.7	06/07/22 10:24	
Phenanthrene	ug/kg	<1.9	16.7	06/07/22 10:24	
Pyrene	ug/kg	<2.5	16.7	06/07/22 10:24	
2-Fluorobiphenyl (S)	%	102	41-98	06/07/22 10:24	S3
Terphenyl-d14 (S)	%	111	37-106	06/07/22 10:24	S3

LABORATORY CONTROL SAMPLE: 2404780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	274	82	64-110	
2-Methylnaphthalene	ug/kg	333	282	85	60-110	
Acenaphthene	ug/kg	333	297	89	69-120	
Acenaphthylene	ug/kg	333	281	84	63-120	
Anthracene	ug/kg	333	289	87	71-112	
Benzo(a)anthracene	ug/kg	333	291	87	62-120	
Benzo(a)pyrene	ug/kg	333	302	91	71-111	
Benzo(b)fluoranthene	ug/kg	333	306	92	59-112	
Benzo(g,h,i)perylene	ug/kg	333	331	99	64-115	
Benzo(k)fluoranthene	ug/kg	333	338	101	72-117	
Chrysene	ug/kg	333	307	92	75-120	
Dibenz(a,h)anthracene	ug/kg	333	282	85	67-114	
Fluoranthene	ug/kg	333	281	84	70-110	
Fluorene	ug/kg	333	281	84	64-104	
Indeno(1,2,3-cd)pyrene	ug/kg	333	286	86	71-114	

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QUALITY CONTROL DATA

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

LABORATORY CONTROL SAMPLE: 2404780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	333	258	77	62-120	
Phenanthrene	ug/kg	333	284	85	59-106	
Pyrene	ug/kg	333	318	95	69-120	
2-Fluorobiphenyl (S)	%			85	41-98	
Terphenyl-d14 (S)	%			91	37-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2404781 2404782

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40245806003 Result	Spike Conc.	Spike Conc.	MS Result						
1-Methylnaphthalene	ug/kg	<20.6	413	412	316	272	76	66	51-110	15	34
2-Methylnaphthalene	ug/kg	<20.6	413	412	306	283	74	68	45-110	8	29
Acenaphthene	ug/kg	<0.021 mg/kg	413	412	337	278	82	67	52-120	19	26
Acenaphthylene	ug/kg	<0.021 mg/kg	413	412	352	284	85	69	46-120	21	22
Anthracene	ug/kg	<0.021 mg/kg	413	412	338	286	82	69	50-112	17	25
Benzo(a)anthracene	ug/kg	<0.021 mg/kg	413	412	338	293	81	71	41-120	14	37
Benzo(a)pyrene	ug/kg	<0.021 mg/kg	413	412	346	277	84	67	44-114	22	33
Benzo(b)fluoranthene	ug/kg	<0.021 mg/kg	413	412	359	263	86	63	41-112	31	43
Benzo(g,h,i)perylene	ug/kg	<0.021 mg/kg	413	412	356	273	84	64	40-115	26	36
Benzo(k)fluoranthene	ug/kg	<0.021 mg/kg	413	412	367	282	89	68	56-117	26	30
Chrysene	ug/kg	<0.021 mg/kg	413	412	342	290	81	69	45-120	16	28
Dibenz(a,h)anthracene	ug/kg	<0.021 mg/kg	413	412	337	265	81	64	44-114	24	33
Fluoranthene	ug/kg	<0.021 mg/kg	413	412	345	295	83	71	55-110	16	43
Fluorene	ug/kg	<0.021 mg/kg	413	412	335	285	81	69	47-104	16	27
Indeno(1,2,3-cd)pyrene	ug/kg	<0.021 mg/kg	413	412	342	272	83	66	45-114	23	33
Naphthalene	ug/kg	<0.021 mg/kg	413	412	294	275	69	65	47-120	6	26
Phenanthrene	ug/kg	<0.021 mg/kg	413	412	329	285	79	69	38-106	14	24
Pyrene	ug/kg	<0.021 mg/kg	413	412	357	352	85	84	51-120	1	41
2-Fluorobiphenyl (S)	%						74	64	41-98		
Terphenyl-d14 (S)	%						79	79	37-106		

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QUALITY CONTROL DATA

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

QC Batch: 417324	Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87	Analysis Description: Dry Weight/Percent Moisture
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245827001, 40245827002

SAMPLE DUPLICATE: 2403145

Parameter	Units	40245731004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.7	6.0	5	10	

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QUALITY CONTROL DATA

Project: SPRING HARBOR SEDIMENT

Pace Project No.: 40245827

QC Batch: 417327

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245827003

SAMPLE DUPLICATE: 2403172

Parameter	Units	40245791001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.4	6.4	1	10	

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QUALITY CONTROL DATA

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

QC Batch: 417823 Analysis Method: Walkley Black
QC Batch Method: Walkley Black Analysis Description: Organic Carbon
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245827001, 40245827002, 40245827003

METHOD BLANK: 2406275 Matrix: Solid

Associated Lab Samples: 40245827001, 40245827002, 40245827003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	<193	644	06/10/22 08:50	

LABORATORY CONTROL SAMPLE: 2406276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	16000	16200	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2406277 2406278

Parameter	Units	2406277		2406278		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Organic Carbon	mg/kg	31200	103000	133000	134000	100	100	80-120	0	20	

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QUALIFIERS

Project: SPRING HARBOR SEDIMENT

Pace Project No.: 40245827

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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 at or above the adjusted LOD.

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.

BATCH QUALIFIERS

Batch: 417961

[WB] Results reported on dry weight basis per cited method.

ANALYTE QUALIFIERS

1q Analyte was measured in the associated method blank at -0.010 mg/Kg.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SPRING HARBOR SEDIMENT
Pace Project No.: 40245827

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40245827001	SC6-5'-8'	EPA 3541	417331	EPA 8082A	417334
40245827002	SC7-5'-8'	EPA 3541	417331	EPA 8082A	417334
40245827003	SC8-4'-8'	EPA 3541	417331	EPA 8082A	417334
40245827001	SC6-5'-8'	EPA 3050B	417349	EPA 6010D	417548
40245827002	SC7-5'-8'	EPA 3050B	417349	EPA 6010D	417548
40245827003	SC8-4'-8'	EPA 3050B	417349	EPA 6010D	417548
40245827001	SC6-5'-8'	EPA 7471	417723	EPA 7471	417786
40245827002	SC7-5'-8'	EPA 7471	417723	EPA 7471	417786
40245827003	SC8-4'-8'	EPA 7471	417723	EPA 7471	417786
40245827001	SC6-5'-8'	EPA 3546	417597	EPA 8270E by SIM	417639
40245827002	SC7-5'-8'	EPA 3546	417597	EPA 8270E by SIM	417639
40245827003	SC8-4'-8'	EPA 3546	417597	EPA 8270E by SIM	417639
40245827001	SC6-5'-8'	ASTM D2974-87	417324		
40245827002	SC7-5'-8'	ASTM D2974-87	417324		
40245827003	SC8-4'-8'	ASTM D2974-87	417327		
40245827001	SC6-5'-8'	Walkley Black	417823	Walkley Black	417961
40245827002	SC7-5'-8'	Walkley Black	417823	Walkley Black	417961
40245827003	SC8-4'-8'	Walkley Black	417823	Walkley Black	417961

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **City of Madison**
 Billing Information: **cityofmadison.com**
 Address: **210 MLK Jr. Blvd, Room 115**
 Report To: **Brynn Bennis**
 Email: **bbennis@cityofmadison.com**
 Site Collection Info/Address: **Madison, WI 53707**

Customer Project Name/Number: **Spring Harbor Sediment**
 State: **WI** County/City: **Dane/Madison** Time Zone Collected: **PT** [] MT [] CT [] ET
 Site/Facility ID #: **608-645.1385**
 Compliance Monitoring? [] Yes [] No
 DW PWS ID #: **NA**
 DW Location Code: **NA**
 Immediately Packed on Ice: [] Yes [] No
 Turnaround Date Required: **6/13/22**
 Rush: [] Same Day [] Next Day [] 3 Day [] 4 Day [] 5 Day
 (Expedite Charges Apply)
 Analysis: **NA**

* Matrix Codes (Insert in Matrix box below): Drinking Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res CI	# of Ctns
			Date	Time		
SC6-51-81	SL	Grab	5/29/22	10:00		2
SC7-51-81	"	"	↓	11:00		2
SC8-41-81	"	"	↓	11:45		2

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) **[Signature]** Date/Time: **6/1/22 15:55**
 Relinquished by/Company: (Signature) **[Signature]** Date/Time: **6/1/22 15:55**
 Relinquished by/Company: (Signature) **[Signature]** Date/Time: **6/2/22 0750**

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here
005827

Container Preservative Type **
 Lab Project Manager:
 ALL SHADED AREAS are for LAB USE ONLY

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Y	N	N/A
PAHs	X		
PCBs	X		
Total org. carbon	X		
As, Cu, Cr, Cd, Hg, Pb, Zn	X		

Lab Sample Receipt Checklist:
 Custody Seals Present/Intact Y N NA
 Collector Signatures Present Y N NA
 Bottles Intact Y N NA
 Correct Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y (N) NA
 Cl Strips: Y N NA
 Sample pH Acceptable Y N NA
 pH Strips: Y N NA
 Sulfide Present Y N NA
 Lead Acetate Strips: Y N NA
 LAB USE ONLY:
 Lab Sample # / Comments:
 001
 002
 003

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: _____ °C
 Cooler 1 Therm Corr Factor: _____ °C
 Cooler 1 Corriged Temp: _____ °C
 Comments: _____

Lab Tracking #: **2660117**
 Samples received via: FEDEX UPS Client Courier Pace Courier
 Date/Time: **6/2/22 15:55**
 Date/Time: **6/2/22 0750**
 Table #: _____
 Acctnum: _____
 Template: _____
 Prelogin: _____
 PM: _____
 PB: _____
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: **21** of **23**

Client Name: City of Madison Project # 00015021

All containers needing preservation have been checked and noted below: Yes No N/A

Pace Lab #	Lab Lot# of pH paper:			Lab Std #ID of preservation (if pH adjusted):			Initial when completed:				Date/ Time:	Volume (mL)
	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *	H2SO4 pH <2	NaOH+Zn Act pH 2-9	NaOH pH 2-12	HNO3 pH <2		
001	AG1U	BP1U	VG9A	JG9U	WG9U	SP5T						2.5/5/10
002	AG4U	BP3U	VG9M	JG9U	WG9U	ZPLC						2.5/5/10
003	AG5U	BP3U	VG9M	JG9U	WG9U	GN						2.5/5/10
004	AG1H	BP3U	VG9M	JG9U	WG9U							2.5/5/10
005	AG4S	BP3U	VG9M	JG9U	WG9U							2.5/5/10
006	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
007	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
008	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
009	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
010	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
011	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
012	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
013	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
014	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
015	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
016	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
017	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
018	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
019	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10
020	AG1U	BP3U	VG9M	JG9U	WG9U							2.5/5/10

6/2/22 NK

Exceptions to preservation check: VOA, Cellform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Yes No N/A *if yes look in headspace column

Headspace in VOA Vials (>6mm):	Headspace in VOA Vials (>6mm):
AG1U 1 liter amber glass	JG9U 4 oz amber jar unpres
BG1U 1 liter clear glass	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	WG9U 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4	GN
BG3U 250 mL clear glass unpres	

Sample Condition Upon Receipt Form (SCUR)

Client Name: City of Madison

Project #:

WO#: **40245827**

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: _____

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

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 98 Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 6/2/22 /Initials: NK
 Labeled By Initials: MP

Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>+ CC 6/2/22 NK</u>
Chain of Custody Filled Out: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>pg. #, preserv 6/2/22 NK</u>
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.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested: <u>6/2/22 NK</u> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>	
Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Sample Condition Upon Receipt Form (SCUR)

Client Name: Brynn Bemis

Project #:

WO# : 40223291

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: _____

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

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 20 / Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 3/12/21 Initials: SRK
Labeled By Initials: SRK

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>pg#</u>
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.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: 8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>006 ID "LF" 1 through 5</u>
-Includes date/time/ID/Analysis Matrix: <u>S</u>	<u>3/12/21</u>
Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

NR 722 Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # : Type BRRTS No. Here (If Known) Spring Harbor - SC1	# of Soil-Concentration Entries: 26	(Cumulative) cPAH Cancer Risk 1.4E-05	Number of Individual Exceedance 0	(Cumulative) Hazard Index 0.0635	(Cumulative) Cancer Risk 1.4E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.					

Date of Entry: 4/15/2021.
 Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0251				
Benz[a]pyrene	50-32-8	17.8	0.115	0.115	ca		1.02	8.87E-06	cPAH	0.0001	4.5E-09
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.047			0.	8.9E-06
Acenaphthylene	208-96-8	-	-	-	nc		0.0324				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.144			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.8	7.02E-07	cPAH		7.0E-07
Benzofluoranthene	205-99-2	-	1.15	1.15	ca		1.67	1.45E-06	cPAH		1.5E-06
Benzol[h]perylene	191-24-2	-	-	-	ca		0.929				
Benzok[fluoranthene	207-08-9	-	11.5	11.5	ca		0.591	5.14E-08	cPAH		5.1E-08
Chrysene	218-01-9	-	115.	115.	ca		1.29	1.12E-08	cPAH		1.1E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.217	1.89E-06	cPAH		1.9E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		3.01			0.0013	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0763			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.772				
Methylanthracene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0376				
Methylanthracene, 2-	91-57-6	239.	-	239.	nc		0.376				
Phenanthrene	85-01-8	-	-	-	nc		1.03				
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.3				
Arsenic, Inorganic	7440-36-2	34.9	0.677	0.677	ca	8.	4.5				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.42				
Chromium, Total	7440-47-3	-	-	-	nc	44.	24.				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	32.4				
Mercury (elemental)	7439-97-6	15.7	-	15.7	Csat		0.029				
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	50.4				
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	21.2			0.0018	
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	76.4				

NR 722 Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # : Type BRRTS No. Here (If Known) Spring Harbor - SC2	# of Soil-Concentration Entries: 27	(Cumulative) cPAH Cancer Risk 1.6E-05	Number of Individual Exceedance 0	(Cumulative) Hazard Index 0.2732	(Cumulative) Cancer Risk 1.6E-05
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Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 4/15/2021.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0308				
Benz[a]pyrene	50-32-8	17.8	0.115	0.115	ca		1.22	1.06E-05	cPAH	0.0002	5.6E-09
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0515			0.	1.1E-05
Acenaphthylene	208-96-8	-	-	-	nc		0.0399				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.183			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.975	8.55E-07	cPAH		8.6E-07
Benzofluoranthene	205-99-2	-	1.15	1.15	ca		1.81	1.57E-06	cPAH		1.6E-06
Benzol[h]perylene	191-24-2	-	-	-	nc		1.17				
Benzok[fluoranthene	207-08-9	-	11.5	11.5	ca		0.663	5.77E-08	cPAH		5.8E-08
Chrysene	218-01-9	-	115.	115.	ca		1.47	1.28E-08	cPAH		1.3E-08
Dibenz[a,h]anthracene	53-70-3	2,390.	0.115	0.115	ca		2.85	2.48E-06	cPAH	0.0012	2.5E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		2.93				
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0893				
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.979				8.5E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.462				2.6E-09
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.463				
Phenanthrene	85-01-8	-	-	-	nc		1.24				
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.23				
Arsenic, Inorganic	7440-36-2	34.9	0.677	0.677	ca	8.	4.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	26.2				
Chromium, Total	7440-47-3	-	-	-	nc	44.	35.6				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	0.037			0.0114	
Mercury (elemental)	7439-97-6	15.7	-	15.7	Csat	52.	53.3			0.0024	
Lead and Compounds	7439-92-1	400.	-	400.	nc	31.	17.8			0.1333	
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	176.			0.0455	
Selenium	7782-49-2	391.	-	391.	nc	17.8					
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.				0.0075	

NR 722 Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable * DC RCLs tab.

BRRTS # : Type BRRTS No. Here (If Known) Spring Harbor - SC3	# of Soil-Concentration Entries: 33 r Hazard do not enter	(Cumulative) cPAH Cancer Risk 9.2E-07	Number of Individual Exceedance 0	(Cumulative) Hazard Index 0.1838	(Cumulative) Cancer Risk 1.9E-06
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Yes, levels are below direct-contact concern.

Bottom-Line:

Date of Entry: 4/15/2021. List below only has contaminants with data.
 Date of Worksheet Used: 03/14/2017.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benz[a]pyrene	50-32-8	17.8	0.115	0.115	ca	0.0718	6.24E-07	0.004	cPAH	0.004	6.2E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc	0.004		0.			
Acenaphthylene	208-96-8	-	-	-	nc	0.0039		0.			
Anthracene	120-12-7	17,900.	-	17,900.	nc	0.0039		0.			
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca	0.0419	3.68E-08	0.	cPAH	0.	3.7E-08
Benzofluoranthene	205-99-2	-	1.15	1.15	ca	0.113	9.83E-08	0.	cPAH	0.	9.8E-08
Benzofluoranthene	191-24-2	-	-	-	ca	0.062					
Benzofluoranthene	207-08-9	-	11.5	11.5	ca	0.0499	4.34E-09	0.0001	cPAH	0.0001	4.3E-09
Chrysene	218-01-9	-	115.	115.	ca	0.0964	8.38E-10	0.	cPAH	0.	8.4E-10
Dibenz[a,h]anthracene	53-70-3	2,390.	0.115	0.115	ca	0.013	1.13E-07	0.0001	cPAH	0.0001	1.1E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc	0.0039		0.			
Fluorene	86-73-7	2,390.	-	2,390.	nc	0.0045		0.			
Indeno[1,2,3-cd]pyrene	193-39-5	4,180.	17.6	17.6	ca	0.0046		0.			
Methylnaphthalene, 1-	90-12-0	4,180.	-	-	ca	0.0611		0.0001			
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc	0.137		0.			
Phenanthrene	85-01-8	-	-	-	nc	0.0046		0.			
Pyrene	129-00-0	1,790.	-	1,790.	nc	0.0046		0.			
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.		0.0001			
Calcium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.		0.0001			
Chromium, Total	7440-47-3	-	-	-	nc	44.		0.0001			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.		0.0001			
Mercury (elemental)	7439-97-6	15.7	-	15.7	Csat	44.		0.0001			
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.		0.0001			
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.		0.0001			
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.		0.0001			
Aroclor 1016	12674-11-2	4.11	6.79	4.11	nc	0.0283		0.0001			
Aroclor 1221	11104-28-2	-	0.213	0.213	ca	0.0283		0.0001			
Aroclor 1232	11141-16-5	-	0.19	0.19	ca	0.0283		0.0001			
Aroclor 1242	53469-21-9	-	0.235	0.235	ca	0.0283		0.0001			
Aroclor 1248	12672-29-6	-	0.236	0.236	ca	0.0283		0.0001			
Aroclor 1254	11097-69-1	1.17	0.239	0.239	ca	0.0428		0.0001			
Aroclor 1260	11096-82-5	-	0.243	0.243	ca	0.0283		0.0001			
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.234	0.234	ca	0.043		0.0001			

NR 722 Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # : Type BRRTS No. Here (If Known) Spring Harbor - SC4	# of Soil-Concentration Entries: 36 Bottom-Line:	(Cumulative) cPAH Cancer Risk 1.7E-06	Number of Individual Exceedance 0	(Cumulative) Hazard Index 0.0372	(Cumulative) Cancer Risk 2.5E-06
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Yes, levels are below direct-contact concern.

Date of Entry: 4/15/2021. List below only has contaminants with data.

Date of Worksheet Used: 03/14/2017.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178	5.52	5.52	ca		0.0033	1.10E-06	cPAH	0.	6.0E-10
Benzofluoranthene	50-32-8	17.8	0.115	0.115	ca		0.0107	1.10E-06	cPAH	0.	1.1E-06
Acenaphthene	83-32-9	3,590	-	3,590	nc		0.0035				
Acenaphthylene	208-96-8	-	-	-	nc		0.0205				
Anthracene	120-12-7	17,900	-	17,900	nc		0.11	9.65E-08	cPAH	0.	9.6E-08
Benzofluoranthene	56-55-3	205-99-2	1.14	1.14	ca		0.207	1.80E-07	cPAH		1.8E-07
Benzofluoranthene	191-24-2	-	1.15	1.15	ca		0.101				
Benzofluoranthene	207-08-9	-	11.5	11.5	ca		0.0823	7.16E-09	cPAH		7.2E-09
Chrysene	218-01-9	-	115	115	ca		0.162	1.41E-09	cPAH		1.4E-09
Dibenzofluoranthene	53-70-3	-	0.115	0.115	ca		0.0258	2.24E-07	cPAH		2.2E-07
Fluoranthene	206-44-0	2,390	-	2,390	nc		0.372				
Fluorene	86-73-7	2,390	-	2,390	nc		0.0142				
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.0855				7.4E-08
Methylnaphthalene, 1-	90-12-0	4,180	17.6	17.6	ca		0.0045				2.6E-10
Methylnaphthalene, 2-	91-57-6	239	-	239	ca		0.0045				
Phenanthrene	85-01-8	-	-	-	nc		0.163				
Pyrene	129-00-0	1,790	-	1,790	nc		0.264				
Arsenic, Inorganic	7440-36-2	34.9	0.677	0.677	ca	8	3.9				
Cadmium (Diet)	7440-43-9	71.1	2,430	71.1	nc	1	0.24				
Chromium, Total	7440-47-3	-	-	-	nc	44	25.5				
Copper	7440-50-8	3,130	-	3,130	nc	35	16.6				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.021				
Lead and Compounds	7439-92-1	400	-	400	nc	52	16.4				
Nickel Soluble Salts	7440-02-0	1,550	16,900	1,550	nc	31	19.1				
Zinc and Compounds	7440-66-6	23,500	-	23,500	nc	150	68.2				
Aroclor 1016	12674-11-2	4.11	6.79	4.11	nc		0.0252				3.7E-09
Aroclor 1221	11104-28-2	-	0.213	0.213	ca		0.0252				1.2E-07
Aroclor 1232	11141-16-5	-	0.19	0.19	ca		0.0252				1.3E-07
Aroclor 1242	53469-21-9	-	0.235	0.235	ca		0.0252				1.1E-07
Aroclor 1248	12672-29-6	-	0.236	0.236	ca		0.0252				1.1E-07
Aroclor 1254	11097-69-1	1.17	0.239	0.239	ca		0.0252				1.1E-07
Aroclor 1260	11096-82-5	-	0.243	0.243	ca		0.0252				1.0E-07
Aroclor 5460	11126-42-4	35.2	-	35.2	nc		0.0252				
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.234	0.234	ca		0.0252				1.1E-07
Nitrate	14797-55-8	125,000	-	100,000	ceiling		1.8				

NR 722 Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable * DC RCLs tab.

BRRTS # : Type BRRTS No. Here (If Known) Spring Harbor Boring SC5	# of Soil-Concentration Entries: 35 r factor do not enter	(Cumulative) cPAH Cancer Risk 2.1E-06 (Cumulative) Hazard Index 0.0423 (Cumulative) Cancer Risk 2.9E-06
Bottom-Line: Yes, levels are below direct-contact concern.		

Date of Entry: 4/15/2021.
 Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.003	1.41E-06	cPAH	0.	5.4E-10
Benzofluoranthene	50-32-8	17.8	0.115	0.115	ca		0.162	0.0089		0.	1.4E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0039				
Acenaphthylene	208-96-8	-	-	-	nc		0.0317				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.136	1.19E-07	cPAH	0.	1.2E-07
Benzofluoranthene	56-55-3	-	1.14	1.14	ca		0.242	2.10E-07	cPAH		2.1E-07
Benzofluoranthene	205-99-2	-	1.15	1.15	ca		0.138				
Benzofluoranthene	191-24-2	-	-	-	ca		0.0923	8.03E-09	cPAH		8.0E-09
Chrysene	207-08-9	-	11.5	11.5	ca		0.182	1.58E-09	cPAH		1.6E-09
Benzofluoranthene	218-01-9	-	115.	115.	ca		0.0341	2.97E-07	cPAH		3.0E-07
Fluoranthene	53-70-3	-	0.115	0.115	ca		0.35				
Fluorene	206-44-0	2,390.	-	2,390.	nc		0.0104				
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.119	1.03E-07	cPAH		1.0E-07
Indeno(1,2,3-cd)pyrene	193-39-5	-	1.15	1.15	ca		0.0045				
Methylnaphthalene, 1-	90-12-0	4,180.	-	4,180.	ca		0.0045				
Methylnaphthalene, 2-	91-57-6	239.	-	239.	ca		0.147				
Phenanthrene	85-01-8	-	-	-	nc		0.272				
Pyrene	129-00-0	1,790.	-	1,790.	nc		3.				
Arsenic, Inorganic	7440-36-2	34.9	-	0.677	ca	8.	0.24				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	14.5				
Chromium, Total	7440-47-3	-	-	-	nc	44.	16.8				
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	0.018				
Mercury (elemental)	7439-97-6	15.7	-	3.13.	Csat	44.	22.9				
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	8.8				
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	76.5				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	0.0281				
Aroclor 1016	12674-11-2	-	4.11	6.79	nc		0.0281				
Aroclor 1221	11104-28-2	-	0.213	0.213	ca		0.0281				
Aroclor 1232	11141-16-5	-	0.19	0.19	ca		0.0281				
Aroclor 1242	53469-21-9	-	0.235	0.235	ca		0.0281				
Aroclor 1248	12672-29-6	-	0.236	0.236	ca		0.0281				
Aroclor 1254	11097-69-1	1.17	0.239	0.239	ca		0.0281				
Aroclor 1260	11096-82-5	-	0.243	0.243	ca		0.0281				
Aroclor 5460	11126-42-4	35.2	-	35.2	nc		0.0281				
Nitrate	14797-55-8	125,000.	-	100,000.	ceiling		1.8				

NR 722 Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRYS # : Spring Harbor SC6	# of Soil-Concentration Entries: 25	(Cumulative) cPAH Cancer Risk 7.4E-06 (Cumulative) Hazard Index 0.0351 (Cumulative) Cancer Risk 7.4E-06
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.		

Date of Entry: 6/13/2022.
 Date of Worksheet Used: 03/14/2017.
 List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Net-To-Exceed DC RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance	Hazard Quotient from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178	5.52	5.52	ca		0.0155			0.0001	2.8E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.57	4.95E-06	cPAH	0.032	5.0E-06
Acenaphthene	83-32-9	3,590	-	3,590	nc		0.0639			0.	
Acenaphthylene	208-96-8	-	-	-	-		0.02				
Anthracene	120-12-7	17,900	-	17,900	nc		0.149			0.	
Benzo[a]anthracene	56-55-3	-	1.14	1.14	ca		0.606	5.32E-07	cPAH		5.3E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.807	7.02E-07	cPAH		7.0E-07
Benzo[k]fluoranthene	191-24-2	-	-	-	-		0.394				
Benzo[e]fluoranthene	207-06-9	-	11.5	11.5	ca		0.34	2.96E-08	cPAH		3.0E-08
Chrysene	218-01-9	-	115.	115.	ca		0.81	7.04E-09	cPAH		7.0E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.101	8.78E-07	cPAH		8.8E-07
Fluorene	206-44-0	2,390	-	2,390	nc		1.92			0.0008	
Indeno[1,2,3-cd]pyrene	86-73-7	-	-	-	-		0.0879	3.06E-07	cPAH		3.1E-07
Methylnaphthalene, 1-	193-39-5	4,180	1.15	1.15	ca		0.352			0.	1.3E-09
Methylnaphthalene, 2-	90-12-0	4,180	17.6	17.6	ca		0.0232			0.	
Phenanthrene	91-57-6	239	-	239	nc		1.16			0.0001	
Pyrene	85-01-8	-	-	-	-		1.16			0.0008	
Arsenic, Inorganic	129-00-0	1,790	-	1,790	nc		1.48				
Cadmium (Diet)	7440-38-2	34.9	0.677	0.677	ca	8	2.7				
Cadmium (III), Insoluble Salts	7440-43-9	71.1	2,430	71.1	nc	1.	0.24				
Copper	16065-83-1	117,000	-	100,000	ceiling		8.4			0.0001	
Mercury (elemental)	7440-50-8	3,130	-	3,130	nc	35	1.8				
Lead and Compounds	7439-92-1	15.7	-	3.13	Csatt		0.017			0.0011	
Zinc and Compounds	7440-66-6	400	-	400	nc	52	7.4				
		23,500	-	23,500	nc	150	46.4				

NR 722 Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with Get Summary in Row 924 of the applicable * DC_RCLs tab.

BRRYS # : Spring Harbor SC7	# of Soil-Concentration Entries: 25	(Cumulative) cPAH Cancer Risk	5.4E-06	(Cumulative) Hazard Index	0.026	(Cumulative) Cancer Risk	5.4E-06
		Individual cPAH Cancer Risk Exceedance	0	Flag E =	0	Individual Hazard Index	0.026

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 04/14/2022. Date of Worksheet Used: 03/14/2017. List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178	5.52	5.52	ca		0.0141	3.65E-06	cPAH	0.0001	2.6E-09
Benzoflpyrene	50-32-8	17.8	0.115	0.115	ca		0.417			0.0234	3.6E-06
Acenaphthene	83-32-9	3.590	-	3.590	nc		0.0193			0.	
Acenaphthylene	208-96-9	-	-	-	nc		0.0163			0.	
Anthracene	120-12-7	17,900	-	17,900	nc		0.0537				
Benzoflanthracene	96-35-3	-	1.14	1.14	ca		0.35	3.07E-07	cPAH		3.1E-07
Benzofluoranthene	205-98-2	-	1.15	1.15	ca		0.71	6.17E-07	cPAH		6.2E-07
Benzofluoranthene	191-24-2	-	-	-	ca		0.33				
Chrysene	207-06-9	-	11.5	11.5	ca		0.293	2.55E-08	cPAH		2.5E-08
Benzofluoranthene	218-01-9	-	115.	115.	ca		0.557	4.84E-09	cPAH		4.8E-09
Dibenzofluoranthene	53-70-3	2,390	0.115	0.115	ca		0.0687	5.97E-07	cPAH		6.0E-07
Fluoranthene	206-44-0	2,390	-	2,390	nc		1.18			0.0005	
Fluorene	86-73-7	2,390	-	2,390	nc		0.032			0.	2.3E-07
Indeno(1,2,3-cd)pyrene	193-39-5	1.15	1.15	1.15	ca		0.268	2.33E-07	cPAH	0.	2.3E-07
Methylnaphthalene, 1-	90-12-0	4,180	17.6	17.6	ca		0.0212			0.	1.2E-09
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0212				
Phenanthrene	85-01-8	-	-	-	nc		0.457				
Pyrene	129-00-0	1,790	-	1,790	nc		0.879			0.0005	
Arsenic, inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	3.7				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.38				
Chromium (III), Insoluble Salts	16065-83-1	117,000.	-	100,000.	ceiling		18.8			0.0002	
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	26.7				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.02			0.0013	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52	27.8				
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	127.				

NR 722 Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRTS # : Spring Harbor SC8	# of Soil-Concentration Entries: 26	(Cumulative) cPAH Cancer Risk 7.8E-06	Number of Individual Exceedance 0	(Cumulative) Hazard Index 0.2088	(Cumulative) Cancer Risk 8.0E-06
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.					

Date of Entry: 6/13/2022.
 Date of Worksheet Used: 03/14/2017.
 List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C.RCL (mg/kg)	Net-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data Exceedance	Flag E = Individual Exceedance	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178	5.52	5.52	ca		0.412	5.16E-06	cPAH	0.0023	7.5E-08
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.893			0.0333	5.2E-06
Acenaphthene	83-32-9	3,590	-	3,590	nc		0.0292			0.	
Acenaphthylene	208-96-8	-	-	-	-		0.0198				
Anthracene	120-12-7	17,900	-	17,900	nc		0.107			0.	
Benzo[ghi]perylene	56-55-3	-	1.14	1.14	ca		0.564	4.95E-07	cPAH		4.9E-07
Benzo[ghi]perylene	205-99-2	-	1.15	1.15	ca		0.891	8.62E-07	cPAH		8.6E-07
Benzo[ghi]perylene	191-24-2	-	11.5	11.5	ca		0.465				
Benzo[ghi]perylene	207-06-9	-	115	115	ca		0.384	3.34E-08	cPAH		3.3E-08
Chrysene	218-01-9	-	115	115	ca		0.79	6.87E-09	cPAH		6.9E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.099	8.61E-07	cPAH		8.6E-07
Fluoranthene	206-44-0	2,390	-	2,390	nc		1.69			0.0007	
Fluorene	86-73-7	2,390	-	2,390	nc		0.0494			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.412	3.58E-07	cPAH		3.6E-07
Methylnaphthalene, 1-	90-12-0	4,180	17.6	17.6	ca		0.0229			0.	1.3E-09
Methylnaphthalene, 2-	91-57-6	239	-	239	nc		0.733			0.0001	
Phenanthrene	85-01-8	-	1,790	1,790	nc		1.33			0.0007	
Pyrene	129-00-0	1,790	-	1,790	nc		4.5				
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8					
Cadmium (Diet)	7440-43-9	71.1	71.1	71.1	nc	1					
Chromium (III), Insoluble Salts	16065-83-1	117,000	2,430	100,000	ceiling		28.3			0.0002	
Copper	7440-50-8	3,130	-	3,130	nc	35	30.6				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csatt		0.021			0.0013	
Lead and Compounds	7439-92-1	400	-	400	nc	52	65.4			0.1635	
Zinc and Compounds	7440-66-6	23,500	-	23,500	nc	150	152			0.0065	
Polychlorinated Biphenyls (high risk)	1336-36-3	-	0.234	0.234	ca		0.0286				1.2E-07



LOG OF SEDIMENT CORE

Project Spring Harbor 2021
 Location Madison, WI

Core No. 1
 Surface Elevation _____
 Job No. C21051-2
 Sheet 1 of 1

2921 PERRY STREET, MADISON, WIS. 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	Electrical Conductivity	W	LL	LI
					0					
					0.5					
					1					
					1.5					
					2					
					2.5					
					3					
					3.5					
					4					
					4.5					
					5					
					5.5					
					6					
					6.5					
					7					
					7.5					
					8					
					8.5					
					9					
					9.5					
					10					
					10.5					
					11					
					11.5					
					12					
					12.5					
					13					
					13.5					
					14					
					14.5					
					15					

4 in. ICE
WATER

Dark Gray-Brown Organic SILT and CLAY with Scattered Plant Fibers and Wood Pieces (OH)

Occasional Sand Partings Beginning Near 6'
Fewer Fibers and Wood Pieces Below 6'

End of Core at 10 ft

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Excavating _____ Upon Completion of Drilling _____
 Time After Excavating _____
 Depth to Water _____
 Depth to Cave in _____

Start 2/23/21 End 2/23/21
 Driller CGC Chief _____
 Logger ESF Editor ESF
 Equip. Used: Piston Sampler
Pre-Washed W/TSP-PF SOL'N

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



LOG OF SEDIMENT CORE

Project Spring Harbor 2021

Core No. 2

Surface Elevation _____

Location Madison, WI

Job No. C21051-2

Sheet 1 of 1

2921 PERRY STREET, MADISON, WIS. 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	Electrical Conductivity	W	LL	LI
					4 in. ICE WATER					
					Dark Gray-Brown Organic SILT and CLAY with Scattered Plant Fibers, Wood Pieces and Sand Partings/Thin (<1-in.) Seams (OH)					
					Fewer Fibers and Wood Pieces Below 6'					
					Sand Partings/Thin (<1/2-in.) Seams Continue to 10'					
					End of Core at 10 ft					

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Excavating <input checked="" type="checkbox"/> _____ Upon Completion of Drilling _____ Time After Excavating _____ Depth to Water _____ Depth to Cave in _____	Start <u>2/23/21</u> End <u>2/23/21</u> Driller <u>CGC</u> Chief _____ Logger <u>ESF</u> Editor <u>ESF</u> Equip. Used: <u>Piston Sampler</u> <u>Pre-Washed W/TSP-PF SOL'N</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



LOG OF SEDIMENT CORE

Project Spring Harbor 2021

Location Madison, WI

Core No. 3

Surface Elevation _____

Job No. C21051-2

Sheet 1 of 1

2921 PERRY STREET, MADISON, WIS. 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		Electrical Conductivity	W	LL	LI	pH (in.)
					6 in. ICE					
					WATER					
					Dark Gray-Brown Organic SAND with Silt and Plant Fibers (SM/OL)					
				5	Dark Gray-Brown Organic SILT and CLAY with Occasional Plant Fibers, Wood Pieces and Sand Partings (OH)					
					Becoming Sandy Near 9'					
				10	Dark Brown SAND, Trace to Little Silt (SP/SP-SM)					
					End of Core at 10 ft					
				15						

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Excavating ∇ _____ Upon Completion of Drilling _____
 Time After Excavating _____
 Depth to Water _____
 Depth to Cave in _____

Start 2/24/21 End 2/24/21
 Driller CGC Chief _____
 Logger ESF Editor ESF
 Equip. Used: Piston Sampler
Pre-Washed W/TSP-PF SOL'N

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



LOG OF SEDIMENT CORE

Project Spring Harbor 2021
 Location Madison, WI

Core No. 4
 Surface Elevation _____
 Job No. C21051-2
 Sheet 1 of 1

2921 PERRY STREET, MADISON, WIS. 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	Electrical Conductivity	W	LL	LI
					0					
					10 in.	ICE				
					10	WATER				
					5	Dark Gray-Brown Organic SAND with Silt and Plant Fibers (SM/OL)				
					5	Dark Gray-Brown Organic SILT and CLAY, Scattered Sand Partings/Thin (<1/2-in.) Seams (OH)				
					10	End of Core at 10 ft				
					15					

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Excavating ∇ _____ Upon Completion of Drilling _____ Time After Excavating _____ Depth to Water _____ Depth to Cave in _____	Start <u>2/24/21</u> End <u>2/24/21</u> Driller <u>CGC</u> Chief _____ Logger <u>ESF</u> Editor <u>ESF</u> Equip. Used: <u>Piston Sampler</u> <u>Pre-Washed W/TSP-PF SOL'N</u>
<small>The stratification lines represent the approximate boundary between soil types and the transition may be gradual.</small>	



LOG OF SEDIMENT CORE

Project Spring Harbor 2021
 Location Madison, WI

Core No. 5
 Surface Elevation _____
 Job No. C21051-2
 Sheet 1 of 1

2921 PERRY STREET, MADISON, WIS. 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		Electrical Conductivity	W	LL	LI	pH (in.)
				0	12 in. ICE					
				1	WATER					
				5	Dark Gray Organic SILT and CLAY, Occasional Plant Fibers, Wood Pieces and Sand Partings (OH)					
				6	Thin (<1/2-in.) Sand Seams Beginning Near 6'					
				7	Dark Brown Fine to Medium SAND, Some Silt (SM)					
				8	Light Brown Fine to Medium SAND, Trace Silt (SP)					
				8	End of Core at 8 ft					
				10						
				15						

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Excavating ∇ _____ Upon Completion of Drilling _____ Time After Excavating _____ Depth to Water _____ Depth to Cave in _____	Start <u>2/24/21</u> End <u>2/24/21</u> Driller <u>CGC</u> Chief _____ Logger <u>ESF</u> Editor <u>ESF</u> Equip. Used: <u>Piston Sampler</u> <u>Pre-Washed W/TSP-PF SOL'N</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



LOG OF SEDIMENT CORE

Project Spring Harbor
 Location Madison, WI

Core No. 6
 Surface Elevation _____
 Job No. C22051-8
 Sheet 1 of 1

2921 PERRY STREET, MADISON, WIS. 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	Electrical Conductivity	W	LL	LI
					50 in. Water					
					5					
					Dark Gray-Brown Organic SILT, Numerous Thin (<1/2 in.) Sand Seams					
					End of Core at 8 ft Backfilled with Bentonite Chips					
					10					

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Excavating <input checked="" type="checkbox"/> _____ Upon Completion of Drilling _____ Time After Excavating _____ Depth to Water _____ Depth to Cave in _____	Start <u>5/27/22</u> End <u>5/27/22</u> Driller _____ Chief _____ Logger <u>ESF</u> Editor <u>ESF</u> Equip. Used: <u>Piston Sampler</u> <u>Pre-Washed With TSP-PF Sol'n</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



LOG OF SEDIMENT CORE

Project Spring Harbor
 Location Madison, WI

Core No. 7
 Surface Elevation _____
 Job No. C22051-8
 Sheet 1 of 1

2921 PERRY STREET, MADISON, WIS. 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		Electrical Conductivity	W	LL	LI	pH (in.)
					58 in. Water					
				5	Dark Gray-Brown Organic SILT, Scattered Thin (<1/2 in.) Sand Seams					
				8.0	End of Core at 8.0 ft Backfilled with Bentonite Chips					
				10						

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Excavating _____ Upon Completion of Drilling _____
 Time After Excavating _____
 Depth to Water _____
 Depth to Cave in _____

Start 5/27/22 End 5/27/22
 Driller _____ Chief _____
 Logger ESF Editor ESF
 Equip. Used: Piston Sampler
Pre-Washed With TSP Sol'n

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



LOG OF SEDIMENT CORE

Project Spring Harbor
 Location Madison, WI

Core No. 8
 Surface Elevation _____
 Job No. C22051-8
 Sheet 1 of 1

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SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	Electrical Conductivity	W	LL	LI
					44 in. Water					
					Dark Gray Organic SILT, Scattered Sand Partings					
					End of Core at 8 ft Backfilled with Bentonite Chips					

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Excavating <u>∇</u> _____ Upon Completion of Drilling _____ Time After Excavating _____ Depth to Water _____ Depth to Cave in _____	Start <u>5/27/22</u> End <u>5/27/22</u> Driller _____ Chief _____ Logger <u>ESF</u> Editor <u>ESF</u> Equip. Used: <u>Piston Sampler</u> <u>Pre-Washed With TSP Sol'n</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	