



October 26, 2022

Ms. Jennifer Dorman
Wisconsin Department of Natural Resources
1027 West St. Paul Avenue.
Milwaukee, WI 53233

RE: Post Closure Modification & Exemption to Develop on a Historic Fill Site Report
Mankowski Property / Edward Bain School of Language & Art (EBSOLA)
2600 – 50th Street
Kenosha, WI 53140
BRRTS: 02-30-522702

Dear Ms. Dorman:

Midwest Environmental Consulting (MEC) is hereby providing a report pertaining to the construction of a playground at the above-referenced site. Kenosha Unified School District (KUSD) has completed installation of the poured-in-place (PIP) rubberized surface playground within the existing grass play area. The project was federally funded by an Elementary and Secondary School Emergency Relief Fund (ESSER) grant program under the American Rescue Plan (ARP) Act.

The project involved laying out the work area, establishing grade elevations and excavation of soil to a depth of 12 inches over an area necessary to install a 32'-6" x 35'-6" foot concrete slab and aggregate base course, upon which a playground surface and equipment was installed.

EBSOLA is the site of a Wisconsin Department of Natural Resources (WDNR) case (file number 02-30-522702) closed with residual soil contamination remaining in place. The existing grass play area was constructed with a minimum of 6-inches of clean topsoil over a minimum of 6-inches of clean compacted clay for a total of at least 12-inches of site cap material in this area to prevent direct contact exposure to underlying contaminated soils. However, the WDNR considers the bottom 6-inches of such a cap to be contaminated due to its contact with the underlying contaminated soil. Rather than segregating the top 6-inches of soil from the bottom 6-inches, it was decided that all of the excavated soil would be treated as contaminated and therefore, hauled to Kestrel Hawk landfill in Racine.

Due to the presence of the residual soil contamination and associated WDNR requirements, the construction activities were overseen by KUSD's environmental consultant, Midwest Environmental Consulting to ensure environmental compliance.

As required MEC submitted a Technical Assistance Post-Closure Modification Request and a Development at Historic Fill Site Exemption Application to the WDNR on June 21, 2022. The requests were conditionally approved on June 26, 2022 and June 28, 2022, respectively.

On June 21, 2022, MEC collected soil sample WP-1 for waste profile analysis to get approval for landfill disposal of the soils to be excavated. The sample was collected from within the footprint of the planned excavation at a depth of 0.5 to 1.0 feet below land surface (bls). Two polychlorinated biphenyl (PCB) compounds were identified at concentrations exceeding the groundwater protection residual contaminant levels (RCLs). No direct contact RCLs were exceeded. Approval to dispose of the excavated soil at Kestrel Hawk Landfill in Racine was obtained. The soil sample location is illustrated on Figure 1. The laboratory report is attached.

On August 10, 2022, soil excavation for the footprint of the playground foundation was conducted. An area of 33'-6" by 36'-6" feet was excavated to a depth of 12 inches. A total 88.26 tons of soil were transported to Republic Services Kestrel Hawk landfill in Racine for proper disposal. The Republic Services invoice, detailing the number of truckloads hauled and the tons of soil disposed is attached.

Six inches of crush concrete aggregate base was placed within the excavation on top of which a 6-inch thick, 32'-6" x 35'-6" concrete slab. The playground equipment was anchored onto the concrete slab and then a 2.5-inch rubberized PIP surface was poured over the concrete slab. Clean topsoil was placed around the margins of the concrete slab and graded to be flush with the PIP play surface and surrounding grass play area. The topsoil was then seeded with grass.

The playground configuration is illustrated on Figure 1. A cross-section of the concrete slab perimeter, play surface and clean soil backfill is illustrated on Figure 2. The on-site location of the playground is illustrated on Figure 3. A photographic log of the playground construction is also attached.

Since the previously existing site cap was modified by installation of the PIP rubberized surface playground, the site Site Cap Maintenance Plan has been updated and is attached.

Please let me know if you have any questions.

Sincerely,
MIDWEST ENVIRONMENTAL CONSULTING



Sean Cranley, P.G.
Principal Hydrogeologist
(262) 237-4351

FIGURE 1

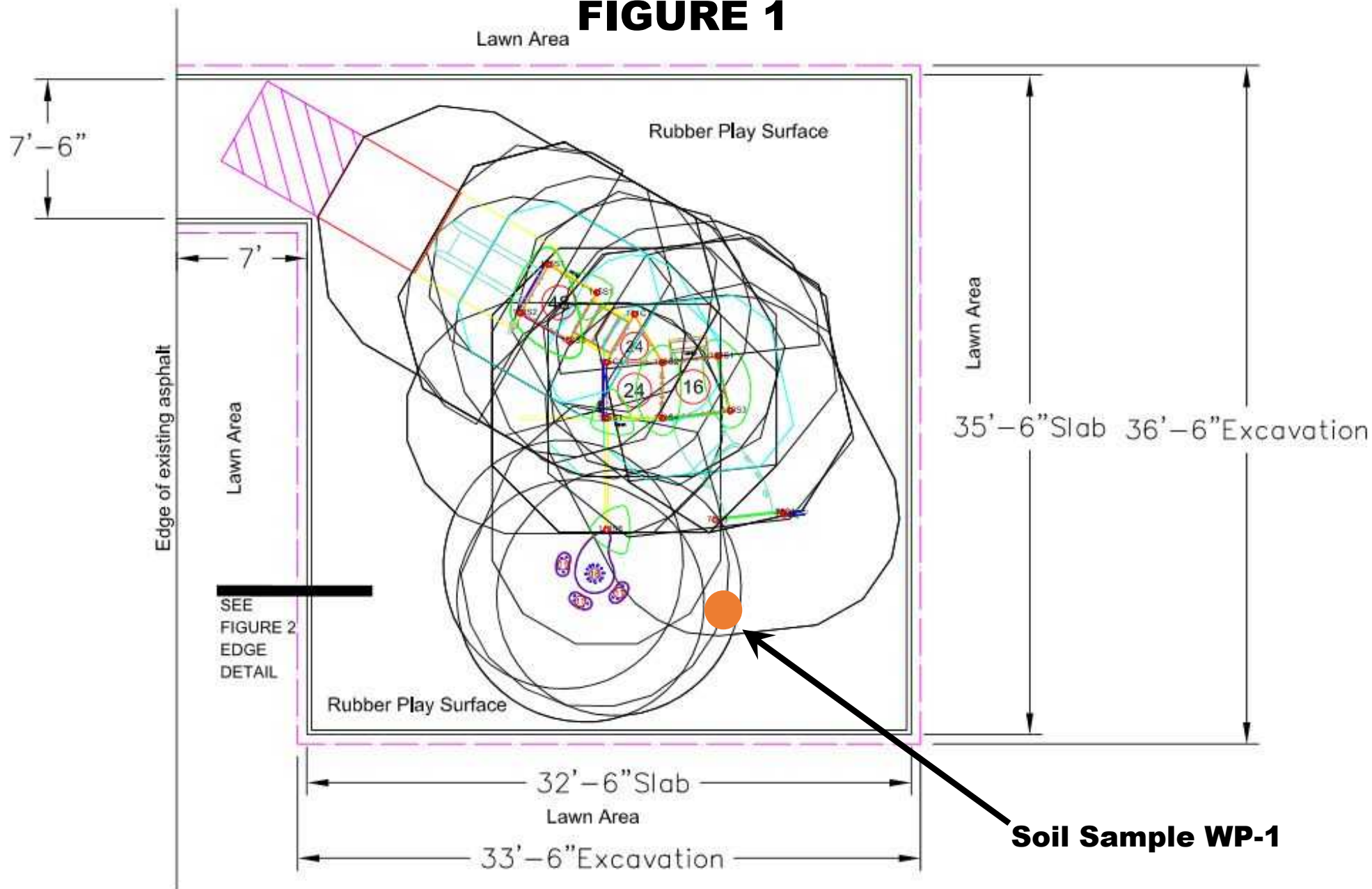


Figure 1: Site Plan

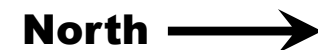
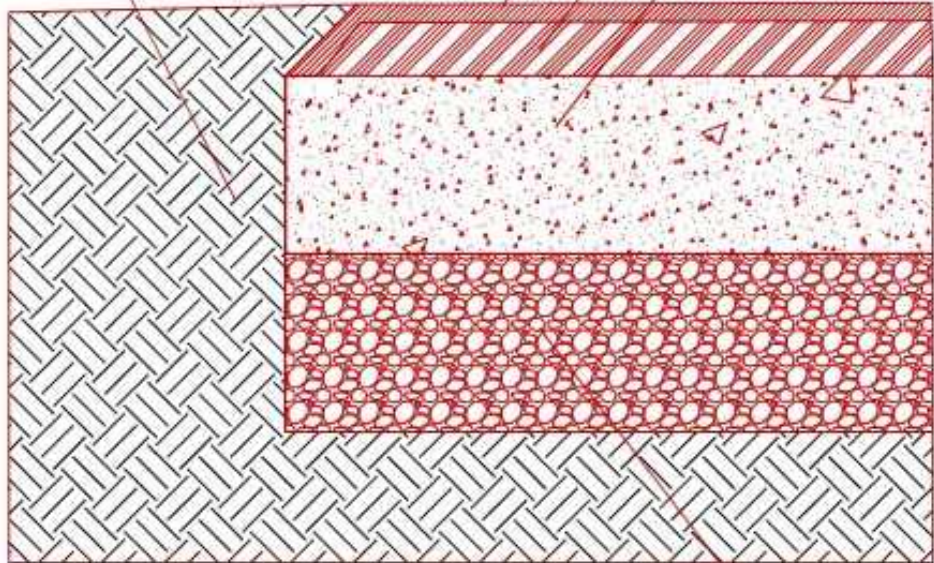


FIGURE 2

PIP SURFACE THICKNESS IS TO BE DETERMINED BY THE CONTRACTOR BASED ON A CRITIAL FALL HEIGHT OF 4'0" - CONFIRM WITH EQUIPMENT PROVIDER BEFORE INSTALLATION

SOIL BACKFILL



PLAYBOUND PIP TOP SURFACE
CROWN PIP SURFACE TO ENSURE PROPER DRAINAGE FREE OF PONDING (N.I.C)
PLAYBOUND PIP BASEMAT SURFACE (N.I.C)
6" 4000 PSI CONCRETE SLAB W/ FIBER REINFORCEMENT. PROVIDE BROOM FINISH AND TOOLED CONTROL JOINTS CENTERED EACH WAY.

0'-0"

GRADE

-2 1/2"

T / Conc.

-1'-2 1/2"

B / Stone

6" COMPACTED WELL DRAINING AGGREGATE STONE BASE

SLAB DIMENSION: 32'-6" X 35'-6"

DETAIL NOT TO SCALE

CONCRETE SLAB / PIP DETAIL SECTION EBSOLA Playground Equipment



DATE

06-10-22

SHEET NUMBER

1 OF 1

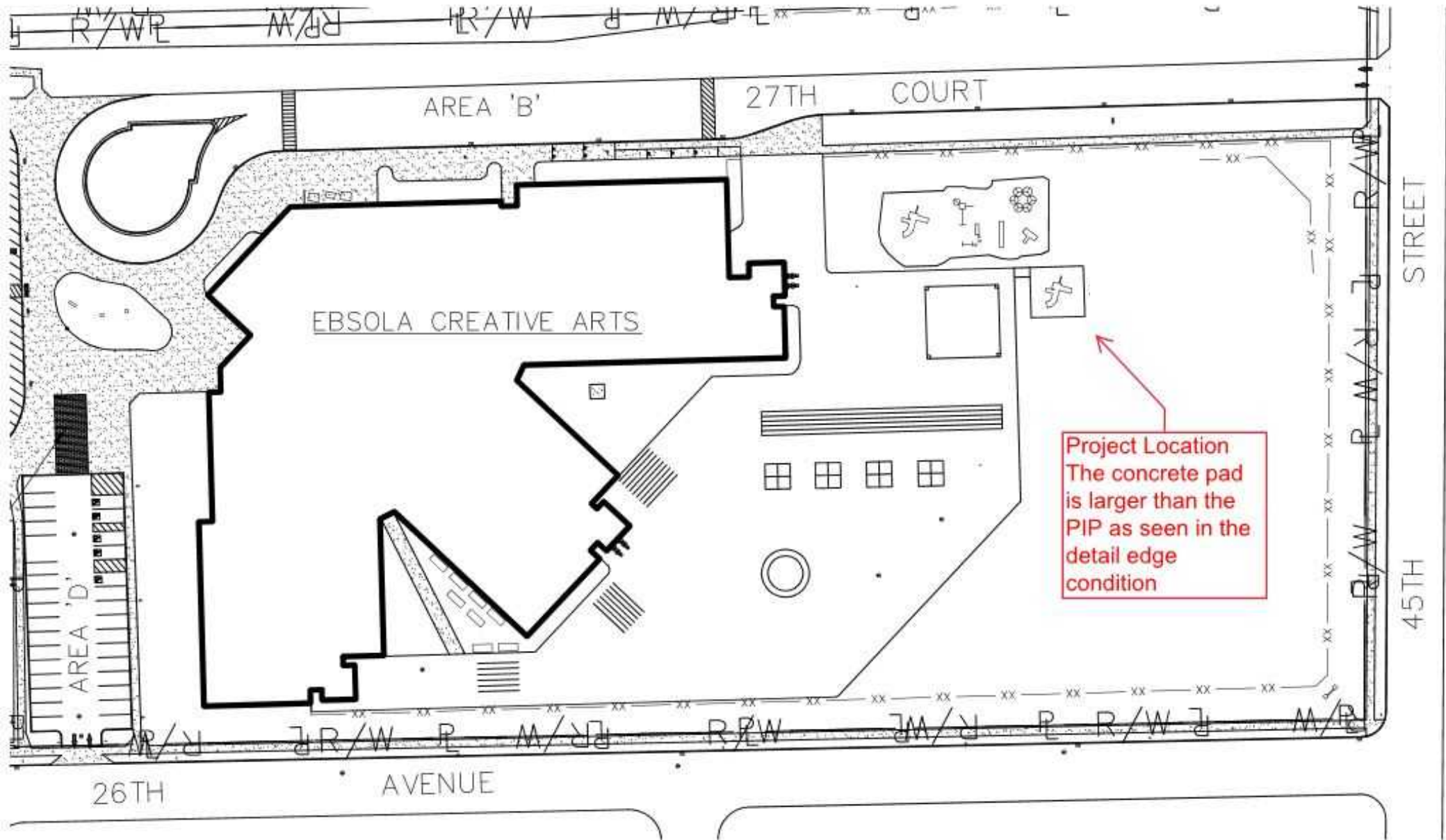
SHEET NUMBER

Figure 2

DRAWING SCALE

DRAWING NOT TO SCALE.

FIGURE 3



Project Location
The concrete pad
is larger than the
PIP as seen in the
detail edge
condition

North →

July 13, 2022

Sean Cranley
Midwest Environmental Consulting
N6395 E. Paradise Dr
Burlington, WI 53105

RE: Project: EBSOLA
Pace Project No.: 40247045

Dear Sean Cranley:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 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 - Asheville
- Pace Analytical Services - Green Bay
- Pace Analytical Services - Greensburg

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

Sincerely,



Christopher Hyska
christopher.hyska@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: EBSOLA
Pace Project No.: 40247045

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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 Asheville

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

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: EBSOLA
Pace Project No.: 40247045

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40247045001	WP-1	Solid	06/21/22 14:00	06/23/22 08:10
40247045002	TRIP BLANK	Solid	06/21/22 00:00	06/23/22 08:10

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SAMPLE ANALYTE COUNT

Project: EBSOLA
Pace Project No.: 40247045

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40247045001	WP-1	EPA 8082A	BDS	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E	TPO	19	PASI-G
		EPA 8260	ALD	13	PASI-G
		ASTM D2974-87	AXW	1	PASI-G
		EPA 1010	HNT	1	PASI-G
		SM 2540G	SRK	1	PASI-G
		EPA 9045	YER	1	PASI-G
		EPA 9076	KQB	1	PASI-A
		EPA 9095	SRK	1	PASI-G
		EPA 9014	PAS	1	PASI-PA
		SM 4500-S2-F-2011	PAS	1	PASI-PA
40247045002	TRIP BLANK	EPA 8260	ALD	10	PASI-G

PASI-A = Pace Analytical Services - Asheville
PASI-G = Pace Analytical Services - Green Bay
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: EBSOLA
Pace Project No.: 40247045

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40247045001	WP-1					
EPA 8082A	PCB-1248 (Aroclor 1248)	0.051J	mg/kg	0.057	06/28/22 13:48	
EPA 8082A	PCB-1254 (Aroclor 1254)	0.12	mg/kg	0.057	06/28/22 13:48	
EPA 8082A	PCB, Total	0.17	mg/kg	0.057	06/28/22 13:48	
EPA 6010D	Arsenic	5.7	mg/kg	5.7	06/29/22 14:36	
EPA 6010D	Barium	94.2	mg/kg	1.1	06/29/22 14:36	M0
EPA 6010D	Chromium	25.8	mg/kg	2.3	06/29/22 14:36	
EPA 6010D	Lead	25.2	mg/kg	4.6	06/29/22 14:36	
EPA 7471	Mercury	0.013J	mg/kg	0.037	06/29/22 07:31	
ASTM D2974-87	Percent Moisture	13.0	%	0.10	07/01/22 17:10	
EPA 1010	Flashpoint	>200	deg F		06/28/22 13:23	1q
SM 2540G	Total Solids	89.3	%	0.10	06/23/22 15:23	
EPA 9045	pH at 25 Degrees C	8.01	Std. Units	0.100	07/05/22 10:29	H6
EPA 9095	Free Liquids	Pass	no units		06/27/22 15:24	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EBSOLA
Pace Project No.: 40247045

Sample: WP-1 **Lab ID: 40247045001** Collected: 06/21/22 14:00 Received: 06/23/22 08:10 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)	<0.017	mg/kg	0.057	0.017	1	06/27/22 08:46	06/28/22 13:48	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.017	mg/kg	0.057	0.017	1	06/27/22 08:46	06/28/22 13:48	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.017	mg/kg	0.057	0.017	1	06/27/22 08:46	06/28/22 13:48	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.017	mg/kg	0.057	0.017	1	06/27/22 08:46	06/28/22 13:48	53469-21-9	
PCB-1248 (Aroclor 1248)	0.051J	mg/kg	0.057	0.017	1	06/27/22 08:46	06/28/22 13:48	12672-29-6	
PCB-1254 (Aroclor 1254)	0.12	mg/kg	0.057	0.017	1	06/27/22 08:46	06/28/22 13:48	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.017	mg/kg	0.057	0.017	1	06/27/22 08:46	06/28/22 13:48	11096-82-5	
PCB, Total	0.17	mg/kg	0.057	0.017	1	06/27/22 08:46	06/28/22 13:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	50-99		1	06/27/22 08:46	06/28/22 13:48	877-09-8	
Decachlorobiphenyl (S)	85	%	38-95		1	06/27/22 08:46	06/28/22 13:48	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	5.7	mg/kg	5.7	3.4	2	06/28/22 05:44	06/29/22 14:36	7440-38-2	
Barium	94.2	mg/kg	1.1	0.34	2	06/28/22 05:44	06/29/22 14:36	7440-39-3	M0
Cadmium	<0.30	mg/kg	1.1	0.30	2	06/28/22 05:44	06/29/22 14:36	7440-43-9	D3
Chromium	25.8	mg/kg	2.3	0.64	2	06/28/22 05:44	06/29/22 14:36	7440-47-3	
Lead	25.2	mg/kg	4.6	1.4	2	06/28/22 05:44	06/29/22 14:36	7439-92-1	
Selenium	<3.0	mg/kg	9.1	3.0	2	06/28/22 05:44	06/29/22 14:36	7782-49-2	D3
Silver	<0.70	mg/kg	2.3	0.70	2	06/28/22 05:44	06/29/22 14:36	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.013J	mg/kg	0.037	0.011	1	06/28/22 07:05	06/29/22 07:31	7439-97-6	
8270E MSSV FULL LIST MICROWAVE									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
1,4-Dichlorobenzene	<0.11	mg/kg	0.77	0.11	4	06/28/22 12:37	06/29/22 03:15	106-46-7	
2,4,5-Trichlorophenol	<0.14	mg/kg	0.77	0.14	4	06/28/22 12:37	06/29/22 03:15	95-95-4	
2,4,6-Trichlorophenol	<0.12	mg/kg	0.77	0.12	4	06/28/22 12:37	06/29/22 03:15	88-06-2	
2,4-Dinitrotoluene	<0.11	mg/kg	0.77	0.11	4	06/28/22 12:37	06/29/22 03:15	121-14-2	
2-Methylphenol(o-Cresol)	<0.14	mg/kg	0.77	0.14	4	06/28/22 12:37	06/29/22 03:15	95-48-7	
3&4-Methylphenol(m&p Cresol)	<0.14	mg/kg	0.77	0.14	4	06/28/22 12:37	06/29/22 03:15		
Hexachloro-1,3-butadiene	<0.20	mg/kg	0.77	0.20	4	06/28/22 12:37	06/29/22 03:15	87-68-3	
Hexachlorobenzene	<0.13	mg/kg	0.77	0.13	4	06/28/22 12:37	06/29/22 03:15	118-74-1	
Hexachloroethane	<0.12	mg/kg	0.77	0.12	4	06/28/22 12:37	06/29/22 03:15	67-72-1	
Nitrobenzene	<0.16	mg/kg	0.77	0.16	4	06/28/22 12:37	06/29/22 03:15	98-95-3	
Pentachlorophenol	<0.17	mg/kg	0.77	0.17	4	06/28/22 12:37	06/29/22 03:15	87-86-5	
Phenol	<0.18	mg/kg	0.77	0.18	4	06/28/22 12:37	06/29/22 03:15	108-95-2	D3
Pyridine	<0.12	mg/kg	0.77	0.12	4	06/28/22 12:37	06/29/22 03:15	110-86-1	
Surrogates									
Nitrobenzene-d5 (S)	52	%	10-125		4	06/28/22 12:37	06/29/22 03:15	4165-60-0	
2-Fluorobiphenyl (S)	60	%	12-118		4	06/28/22 12:37	06/29/22 03:15	321-60-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EBSOLA
Pace Project No.: 40247045

Sample: WP-1 **Lab ID: 40247045001** Collected: 06/21/22 14:00 Received: 06/23/22 08:10 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 FULL LIST MICROWAVE Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Surrogates									
Terphenyl-d14 (S)	71	%	10-124		4	06/28/22 12:37	06/29/22 03:15	1718-51-0	
Phenol-d6 (S)	50	%	10-125		4	06/28/22 12:37	06/29/22 03:15	13127-88-3	
2-Fluorophenol (S)	44	%	10-130		4	06/28/22 12:37	06/29/22 03:15	367-12-4	
2,4,6-Tribromophenol (S)	79	%	10-144		4	06/28/22 12:37	06/29/22 03:15	118-79-6	CH
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<0.015	mg/kg	0.026	0.015	1	06/27/22 11:00	06/27/22 23:44	71-43-2	
2-Butanone (MEK)	<0.21	mg/kg	1.6	0.21	1	06/27/22 11:00	06/27/22 23:44	78-93-3	
Carbon tetrachloride	<0.014	mg/kg	0.065	0.014	1	06/27/22 11:00	06/27/22 23:44	56-23-5	
Chlorobenzene	<0.0078	mg/kg	0.065	0.0078	1	06/27/22 11:00	06/27/22 23:44	108-90-7	
Chloroform	<0.046	mg/kg	0.32	0.046	1	06/27/22 11:00	06/27/22 23:44	67-66-3	
1,2-Dichloroethane	<0.015	mg/kg	0.065	0.015	1	06/27/22 11:00	06/27/22 23:44	107-06-2	
1,1-Dichloroethene	<0.022	mg/kg	0.065	0.022	1	06/27/22 11:00	06/27/22 23:44	75-35-4	
Tetrachloroethene	<0.025	mg/kg	0.065	0.025	1	06/27/22 11:00	06/27/22 23:44	127-18-4	
Trichloroethene	<0.024	mg/kg	0.065	0.024	1	06/27/22 11:00	06/27/22 23:44	79-01-6	
Vinyl chloride	<0.013	mg/kg	0.065	0.013	1	06/27/22 11:00	06/27/22 23:44	75-01-4	
Surrogates									
Toluene-d8 (S)	154	%	69-153		1	06/27/22 11:00	06/27/22 23:44	2037-26-5	S3
4-Bromofluorobenzene (S)	104	%	68-156		1	06/27/22 11:00	06/27/22 23:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	120	%	71-161		1	06/27/22 11:00	06/27/22 23:44	2199-69-1	
Percent Moisture Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	13.0	%	0.10	0.10	1		07/01/22 17:10		
1010 Flashpoint,Closed Cup Analytical Method: EPA 1010									
Pace Analytical Services - Green Bay									
Flashpoint	>200	deg F			1		06/28/22 13:23		1q
2540G Total Percent Solids Analytical Method: SM 2540G									
Pace Analytical Services - Green Bay									
Total Solids	89.3	%	0.10	0.10	1		06/23/22 15:23		
9045 pH Soil Analytical Method: EPA 9045									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.01	Std. Units	0.100	0.0100	1		07/05/22 10:29		H6
9076 Total Chlorine Analytical Method: EPA 9076									
Pace Analytical Services - Asheville									
Chlorine, Total	<0.010	%	0.010	0.010	1		07/01/22 03:01	7782-50-5	N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EBSOLA
Pace Project No.: 40247045

Sample: WP-1 **Lab ID: 40247045001** Collected: 06/21/22 14:00 Received: 06/23/22 08:10 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
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095 Pace Analytical Services - Green Bay								
Free Liquids	Pass	no units			1		06/27/22 15:24		
733C S Reactive Cyanide	Analytical Method: EPA 9014 Preparation Method: SW-846 7.3.3.2 Pace Analytical Services - Greensburg								
Cyanide, Reactive	<0.46	mg/kg	1.2	0.46	1	07/12/22 21:46	07/13/22 00:16		H1,H2
734S Reactive Sulfide	Analytical Method: SM 4500-S2-F-2011 Preparation Method: SW-846 7.3.4.2 Pace Analytical Services - Greensburg								
Sulfide, Reactive	<11.5	mg/kg	11.5	11.5	1	07/12/22 21:46	07/12/22 21:52		H1,H2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EBSOLA

Pace Project No.: 40247045

Sample: TRIP BLANK **Lab ID: 40247045002** Collected: 06/21/22 00:00 Received: 06/23/22 08:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay							
Benzene	<0.012	mg/kg	0.020	0.012	1	06/27/22 11:00	06/27/22 22:46	71-43-2	
2-Butanone (MEK)	<0.16	mg/kg	1.2	0.16	1	06/27/22 11:00	06/27/22 22:46	78-93-3	
Carbon tetrachloride	<0.011	mg/kg	0.050	0.011	1	06/27/22 11:00	06/27/22 22:46	56-23-5	
Chlorobenzene	<0.0060	mg/kg	0.050	0.0060	1	06/27/22 11:00	06/27/22 22:46	108-90-7	
Chloroform	<0.036	mg/kg	0.25	0.036	1	06/27/22 11:00	06/27/22 22:46	67-66-3	
1,2-Dichloroethane	<0.012	mg/kg	0.050	0.012	1	06/27/22 11:00	06/27/22 22:46	107-06-2	
1,1-Dichloroethene	<0.017	mg/kg	0.050	0.017	1	06/27/22 11:00	06/27/22 22:46	75-35-4	
Tetrachloroethene	<0.019	mg/kg	0.050	0.019	1	06/27/22 11:00	06/27/22 22:46	127-18-4	
Trichloroethene	<0.019	mg/kg	0.050	0.019	1	06/27/22 11:00	06/27/22 22:46	79-01-6	
Vinyl chloride	<0.010	mg/kg	0.050	0.010	1	06/27/22 11:00	06/27/22 22:46	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 419515	Analysis Method: EPA 7471
QC Batch Method: EPA 7471	Analysis Description: 7471 Mercury
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40247045001

METHOD BLANK: 2416135 Matrix: Solid
Associated Lab Samples: 40247045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	06/29/22 07:13	

LABORATORY CONTROL SAMPLE: 2416136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.80	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2416137 2416138

Parameter	Units	2416137		2416138		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/kg	0.012J	0.91	0.91	0.92	0.92	99	100	85-115	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 419514	Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B	Analysis Description: 6010D MET
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40247045001

METHOD BLANK: 2416131 Matrix: Solid

Associated Lab Samples: 40247045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	06/28/22 13:51	
Barium	mg/kg	<0.15	0.50	06/28/22 13:51	
Cadmium	mg/kg	<0.13	0.50	06/28/22 13:51	
Chromium	mg/kg	<0.28	1.0	06/28/22 13:51	
Lead	mg/kg	<0.60	2.0	06/28/22 13:51	
Selenium	mg/kg	<1.3	4.0	06/28/22 13:51	
Silver	mg/kg	<0.31	1.0	06/28/22 13:51	

LABORATORY CONTROL SAMPLE: 2416132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	23.8	95	80-120	
Barium	mg/kg	25	25.2	101	80-120	
Cadmium	mg/kg	25	25.4	102	80-120	
Chromium	mg/kg	25	24.7	99	80-120	
Lead	mg/kg	25	25.7	103	80-120	
Selenium	mg/kg	25	25.2	101	80-120	
Silver	mg/kg	12.5	12.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2416133 2416134

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40247045001 Result	Spike Conc.	Spike Conc.	Result						
Arsenic	mg/kg	5.7	28.6	28.5	32.5	33.0	93	95	75-125	1	20
Barium	mg/kg	94.2	28.6	28.5	148	149	187	193	75-125	1	20 MO
Cadmium	mg/kg	<0.30	28.6	28.5	29.0	28.1	100	97	75-125	3	20
Chromium	mg/kg	25.8	28.6	28.5	58.7	56.3	115	107	75-125	4	20
Lead	mg/kg	25.2	28.6	28.5	56.2	53.0	108	97	75-125	6	20
Selenium	mg/kg	<3.0	28.6	28.5	27.5	29.6	92	100	75-125	7	20
Silver	mg/kg	<0.70	14.3	14.3	15.2	14.4	104	99	75-125	5	20

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 419472 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40247045001, 40247045002

METHOD BLANK: 2415956 Matrix: Solid
Associated Lab Samples: 40247045001, 40247045002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/kg	<0.017	0.050	06/27/22 17:33	
1,2-Dichloroethane	mg/kg	<0.012	0.050	06/27/22 17:33	
2-Butanone (MEK)	mg/kg	<0.16	1.2	06/27/22 17:33	
Benzene	mg/kg	<0.012	0.020	06/27/22 17:33	
Carbon tetrachloride	mg/kg	<0.011	0.050	06/27/22 17:33	
Chlorobenzene	mg/kg	<0.0060	0.050	06/27/22 17:33	
Chloroform	mg/kg	<0.036	0.25	06/27/22 17:33	
Tetrachloroethene	mg/kg	<0.019	0.050	06/27/22 17:33	
Trichloroethene	mg/kg	<0.019	0.050	06/27/22 17:33	
Vinyl chloride	mg/kg	<0.010	0.050	06/27/22 17:33	
1,2-Dichlorobenzene-d4 (S)	%	91	71-161	06/27/22 17:33	
4-Bromofluorobenzene (S)	%	137	68-156	06/27/22 17:33	
Toluene-d8 (S)	%	109	69-153	06/27/22 17:33	

LABORATORY CONTROL SAMPLE: 2415957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	2.5	2.5	99	77-120	
1,2-Dichloroethane	mg/kg	2.5	2.5	99	70-130	
Benzene	mg/kg	2.5	2.4	96	70-130	
Carbon tetrachloride	mg/kg	2.5	2.9	114	70-130	
Chlorobenzene	mg/kg	2.5	2.5	101	70-130	
Chloroform	mg/kg	2.5	2.4	97	80-120	
Tetrachloroethene	mg/kg	2.5	2.6	104	70-130	
Trichloroethene	mg/kg	2.5	2.6	103	70-130	
Vinyl chloride	mg/kg	2.5	1.7	67	59-114	
1,2-Dichlorobenzene-d4 (S)	%			91	71-161	
4-Bromofluorobenzene (S)	%			107	68-156	
Toluene-d8 (S)	%			113	69-153	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2415958 2415959

Parameter	Units	2415958		2415959		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,1-Dichloroethene	mg/kg	40247126005	1.2	1.2	0.94	1.2	74	93	55-120	23	22 R1
1,2-Dichloroethane	mg/kg	<20.9 ug/kg	1.2	1.2	1.4	1.4	112	108	70-130	4	20
		<14.5 ug/kg									

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

Parameter	Units	40247126005		2415958		2415959		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Benzene	mg/kg	<15.0 ug/kg	1.2	1.2	1.3	1.3	104	107	70-130	3	20			
Carbon tetrachloride	mg/kg	<13.9 ug/kg	1.2	1.2	0.91	1.3	72	100	62-130	32	20	R1		
Chlorobenzene	mg/kg	<7.5 ug/kg	1.2	1.2	1.3	1.3	107	105	70-130	1	20			
Chloroform	mg/kg	<45.1 ug/kg	1.2	1.2	1.3	1.3	100	101	80-120	1	20			
Tetrachloroethene	mg/kg	<24.5 ug/kg	1.2	1.2	1.1	1.3	89	104	69-130	15	20			
Trichloroethene	mg/kg	<23.6 ug/kg	1.2	1.2	1.2	1.3	95	102	70-130	8	20			
Vinyl chloride	mg/kg	<12.7 ug/kg	1.2	1.2	0.95	1.3	76	103	26-114	31	20	R1		
1,2-Dichlorobenzene-d4 (S)	%						114	119	71-161					
4-Bromofluorobenzene (S)	%						105	140	68-156					
Toluene-d8 (S)	%						138	142	69-153					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 419428 Analysis Method: EPA 8082A
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40247045001

METHOD BLANK: 2415768 Matrix: Solid
Associated Lab Samples: 40247045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	<0.015	0.050	06/28/22 07:15	
PCB-1221 (Aroclor 1221)	mg/kg	<0.015	0.050	06/28/22 07:15	
PCB-1232 (Aroclor 1232)	mg/kg	<0.015	0.050	06/28/22 07:15	
PCB-1242 (Aroclor 1242)	mg/kg	<0.015	0.050	06/28/22 07:15	
PCB-1248 (Aroclor 1248)	mg/kg	<0.015	0.050	06/28/22 07:15	
PCB-1254 (Aroclor 1254)	mg/kg	<0.015	0.050	06/28/22 07:15	
PCB-1260 (Aroclor 1260)	mg/kg	<0.015	0.050	06/28/22 07:15	
Decachlorobiphenyl (S)	%	88	38-95	06/28/22 07:15	
Tetrachloro-m-xylene (S)	%	92	50-99	06/28/22 07:15	

LABORATORY CONTROL SAMPLE: 2415769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg		<0.015			
PCB-1221 (Aroclor 1221)	mg/kg		<0.015			
PCB-1232 (Aroclor 1232)	mg/kg		<0.015			
PCB-1242 (Aroclor 1242)	mg/kg		<0.015			
PCB-1248 (Aroclor 1248)	mg/kg		<0.015			
PCB-1254 (Aroclor 1254)	mg/kg		<0.015			
PCB-1260 (Aroclor 1260)	mg/kg	0.5	0.44	88	71-104	
Decachlorobiphenyl (S)	%			90	38-95	
Tetrachloro-m-xylene (S)	%			91	50-99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2415770 2415771

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40246873003	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	mg/kg	<0.017			<0.017	<0.017					20
PCB-1221 (Aroclor 1221)	mg/kg	<0.017			<0.017	<0.017					20
PCB-1232 (Aroclor 1232)	mg/kg	<0.017			<0.017	<0.017					20
PCB-1242 (Aroclor 1242)	mg/kg	<0.017			<0.017	<0.017					20
PCB-1248 (Aroclor 1248)	mg/kg	<0.017			<0.017	<0.017					20
PCB-1254 (Aroclor 1254)	mg/kg	<0.017			<0.017	<0.017					20
PCB-1260 (Aroclor 1260)	mg/kg	<0.017	0.56	0.56	0.48	0.48	86	86	42-109	0	20
Decachlorobiphenyl (S)	%						87	88	38-95		
Tetrachloro-m-xylene (S)	%						91	88	50-99		

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 419531 Analysis Method: EPA 8270E
QC Batch Method: EPA 3546 Analysis Description: 8270E Solid MSSV Microwave
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40247045001

METHOD BLANK: 2416179 Matrix: Solid
Associated Lab Samples: 40247045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	mg/kg	<0.023	0.17	06/28/22 22:36	
2,4,5-Trichlorophenol	mg/kg	<0.030	0.17	06/28/22 22:36	
2,4,6-Trichlorophenol	mg/kg	<0.025	0.17	06/28/22 22:36	
2,4-Dinitrotoluene	mg/kg	<0.024	0.17	06/28/22 22:36	
2-Methylphenol(o-Cresol)	mg/kg	<0.030	0.17	06/28/22 22:36	
3&4-Methylphenol(m&p Cresol)	mg/kg	<0.031	0.17	06/28/22 22:36	
Hexachloro-1,3-butadiene	mg/kg	<0.043	0.17	06/28/22 22:36	
Hexachlorobenzene	mg/kg	<0.028	0.17	06/28/22 22:36	
Hexachloroethane	mg/kg	<0.027	0.17	06/28/22 22:36	
Nitrobenzene	mg/kg	<0.034	0.17	06/28/22 22:36	
Pentachlorophenol	mg/kg	<0.037	0.17	06/28/22 22:36	
Phenol	mg/kg	<0.040	0.17	06/28/22 22:36	
Pyridine	mg/kg	<0.027	0.17	06/28/22 22:36	
2,4,6-Tribromophenol (S)	%	104	10-144	06/28/22 22:36	CH
2-Fluorobiphenyl (S)	%	84	12-118	06/28/22 22:36	
2-Fluorophenol (S)	%	75	10-130	06/28/22 22:36	
Nitrobenzene-d5 (S)	%	80	10-125	06/28/22 22:36	
Phenol-d6 (S)	%	72	10-125	06/28/22 22:36	
Terphenyl-d14 (S)	%	95	10-124	06/28/22 22:36	

LABORATORY CONTROL SAMPLE: 2416180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	mg/kg	1.7	1.3	77	64-130	
2,4,5-Trichlorophenol	mg/kg	1.7	1.7	104	70-125	
2,4,6-Trichlorophenol	mg/kg	1.7	1.7	100	70-124	
2,4-Dinitrotoluene	mg/kg	1.7	1.9	115	70-130	
2-Methylphenol(o-Cresol)	mg/kg	1.7	1.5	90	69-130	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.7	1.4	87	70-130	
Hexachloro-1,3-butadiene	mg/kg	1.7	1.7	99	67-130	
Hexachlorobenzene	mg/kg	1.7	1.6	96	70-130	
Hexachloroethane	mg/kg	1.7	1.3	76	64-130	
Nitrobenzene	mg/kg	1.7	1.4	85	70-130	
Pentachlorophenol	mg/kg	1.7	1.5	87	47-108	
Phenol	mg/kg	1.7	1.3	80	67-130	
Pyridine	mg/kg	1.7	0.61	37	12-86	
2,4,6-Tribromophenol (S)	%			123	10-144	CH
2-Fluorobiphenyl (S)	%			93	12-118	
2-Fluorophenol (S)	%			72	10-130	

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

LABORATORY CONTROL SAMPLE: 2416180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrobenzene-d5 (S)	%			85	10-125	
Phenol-d6 (S)	%			76	10-125	
Terphenyl-d14 (S)	%			95	10-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2416181 2416182

Parameter	Units	40247168001		2416182		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1,4-Dichlorobenzene	mg/kg	<0.028	2	2	1.6	1.6	80	83	42-130	4	32	
2,4,5-Trichlorophenol	mg/kg	<0.035	2	2	2.1	1.9	104	97	11-125	7	30	
2,4,6-Trichlorophenol	mg/kg	<0.030	2	2	1.9	2.0	95	99	16-124	4	31	
2,4-Dinitrotoluene	mg/kg	<0.028	2	2	2.1	2.0	107	100	38-130	6	27	
2-Methylphenol(o-Cresol)	mg/kg	<0.036	2	2	1.9	1.9	98	96	30-130	2	30	
3&4-Methylphenol(m&p Cresol)	mg/kg	<0.036	2	2	1.8	1.8	91	92	28-130	1	33	
Hexachloro-1,3-butadiene	mg/kg	<0.051	2	2	1.9	1.9	96	98	42-130	1	27	
Hexachlorobenzene	mg/kg	<0.033	2	2	1.7	1.6	86	81	51-130	6	24	
Hexachloroethane	mg/kg	<0.032	2	2	1.6	1.6	82	81	33-130	0	35	
Nitrobenzene	mg/kg	<0.040	2	2	1.5	1.6	78	82	42-130	5	25	
Pentachlorophenol	mg/kg	<0.044	2	2	1.7	1.5	83	76	10-108	10	50	
Phenol	mg/kg	<0.047	2	2	1.6	1.7	83	84	37-130	1	30	
Pyridine	mg/kg	<0.032	2	2	1.4	1.4	72	70	10-117	2	50	
2,4,6-Tribromophenol (S)	%						115	108	10-144			CH
2-Fluorobiphenyl (S)	%						86	85	12-118			
2-Fluorophenol (S)	%						75	75	10-130			
Nitrobenzene-d5 (S)	%						80	78	10-125			
Phenol-d6 (S)	%						77	77	10-125			
Terphenyl-d14 (S)	%						89	89	10-124			

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 419960	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: 40247045001

SAMPLE DUPLICATE: 2418690

Parameter	Units	40247486001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.4	5.4	1	10	

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 419549	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: 40247045001

LABORATORY CONTROL SAMPLE: 2416281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		81			

SAMPLE DUPLICATE: 2416616

Parameter	Units	40247079001 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	>200	>200			

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 419267	Analysis Method: SM 2540G
QC Batch Method: SM 2540G	Analysis Description: 2540G Total Solids
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40247045001

METHOD BLANK: 2414323 Matrix: Solid

Associated Lab Samples: 40247045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	<0.10	0.10	06/23/22 15:22	

LABORATORY CONTROL SAMPLE: 2414324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	722	817	113	80-120	

SAMPLE DUPLICATE: 2414325

Parameter	Units	40247019001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	14.6	15.0	3	10	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 420014	Analysis Method: EPA 9045
QC Batch Method: EPA 9045	Analysis Description: 9045 pH
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40247045001

SAMPLE DUPLICATE: 2418994

Parameter	Units	40247045001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.01	8.05	0	5	H6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 708187	Analysis Method: EPA 9076
QC Batch Method: EPA 9076	Analysis Description: 9076 Total Chlorine
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 40247045001

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3693410		3693411									
Parameter	Units	92611801001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chlorine, Total	%	ND	0.05	0.05	0.045	0.046	89	93	80-120	4	20	N2	

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: EBSOLA
Pace Project No.: 40247045

QC Batch: 419499	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: 40247045001

METHOD BLANK: 2416073 Matrix: Solid
Associated Lab Samples: 40247045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Free Liquids	no units	Fail		06/27/22 15:13	

LABORATORY CONTROL SAMPLE: 2416074

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

SAMPLE DUPLICATE: 2416075

Parameter	Units	40247001001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids	no units	Pass	Pass			

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: EBSOLA
Pace Project No.: 40247045

QC Batch: 518179	Analysis Method: EPA 9014
QC Batch Method: SW-846 7.3.3.2	Analysis Description: 733C Reactive Cyanide
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40247045001

METHOD BLANK: 2511610 Matrix: Solid
Associated Lab Samples: 40247045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	<0.40	0.99	07/13/22 00:15	

LABORATORY CONTROL SAMPLE: 2511611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	101	4.7J	5	0-8	

SAMPLE DUPLICATE: 2511612

Parameter	Units	40247045001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/kg	<0.46	<0.46		20	H1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EBSOLA
Pace Project No.: 40247045

QC Batch: 518177	Analysis Method: SM 4500-S2-F-2011
QC Batch Method: SW-846 7.3.4.2	Analysis Description: 734S Reactive Sulfide
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40247045001

METHOD BLANK: 2511594 Matrix: Solid

Associated Lab Samples: 40247045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	<9.9	9.9	07/12/22 21:52	

LABORATORY CONTROL SAMPLE: 2511595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	201	<10.1	2	0-52	

SAMPLE DUPLICATE: 2511596

Parameter	Units	40247045001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/kg	<11.5	<11.6		20	H1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: EBSOLA
Pace Project No.: 40247045

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.

ANALYTE QUALIFIERS

- | | |
|----|---|
| 1q | 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. |
| CH | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high. |
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| H1 | Analysis conducted outside the EPA method holding time. |
| H2 | Extraction or preparation conducted outside EPA method holding time. |
| H6 | Analysis initiated outside of the 15 minute EPA required holding time. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| 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. |
| R1 | RPD value was outside 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: EBSOLA
Pace Project No.: 40247045

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40247045001	WP-1	EPA 3541	419428	EPA 8082A	419483
40247045001	WP-1	EPA 3050B	419514	EPA 6010D	419592
40247045001	WP-1	EPA 7471	419515	EPA 7471	419564
40247045001	WP-1	EPA 3546	419531	EPA 8270E	419599
40247045001	WP-1	EPA 5035/5030B	419472	EPA 8260	419485
40247045002	TRIP BLANK	EPA 5035/5030B	419472	EPA 8260	419485
40247045001	WP-1	ASTM D2974-87	419960		
40247045001	WP-1	EPA 1010	419549		
40247045001	WP-1	SM 2540G	419267		
40247045001	WP-1	EPA 9045	420014		
40247045001	WP-1	EPA 9076	708187		
40247045001	WP-1	EPA 9095	419499		
40247045001	WP-1	SW-846 7.3.3.2	518179	EPA 9014	518196
40247045001	WP-1	SW-846 7.3.4.2	518177	SM 4500-S2-F-2011	518197

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

LAB USE ONLY: Affix Workorder/Login Label Here or List Page Workorder Number in ATTACHED INFORMATION HERE

41024702K

ALL SHADED AREAS are for LAB USE ONLY

Company: **Midwest Environmental Consulting**
Billing Information:
Address: **16395 E Paradise Rd.** **Burlington, WI 53105**
Report To: **Sean Cranley** Email To: **mwenviron@gmail.com**
Copy To: Site Collection Info/Address:

Customer Project Name/Number: **EBSOLA** State: **WI** County/City: _____ Time Zone Collected: [] PT [] MT [] CT [] ET
Phone: **(262) 237-4357** Site/Facility ID #: _____ Compliance Monitoring? [] Yes [] No
Email: _____ DW PWS ID #: _____
Collected By (print): **Sean Cranley** Purchase Order #: _____ DW Location Code: _____
Collected By (signature): **Sean Cranley** Turnaround Date Required: _____ Immediately Packed on loc: [] Yes [] No
Sample Disposal: _____ Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day Field Filtered (if applicable): [] Yes [] No
[] Archive: _____ [] Hold: _____ [Expedite Charges Apply] Analytic: _____

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

Customer Sample ID	Matrix*	Comp/Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Qtrs
			Date	Time	Date	Time		
WP-1	Soil	Grab	6/22/14	0900				

Container Preservative Type **

** 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

Analysis

Sample	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix
X	Total Solids	X	Flash Point	X	Chlorine	X	Reactive Cyanide
X		X		X		X	
X		X		X		X	
X		X		X		X	
X		X		X		X	
X		X		X		X	
X		X		X		X	
X		X		X		X	

Lab Profile/Date: 6/22/14

Lab Sample Receipt Checklist:

Custody Chain Present/Intact	Y	N	NA
Custody Signature Present	Y	N	NA
Collector Signature Present	Y	N	NA
Correct Pesticide	Y	N	NA
Correct Volume	Y	N	NA
Sufficient Volume	Y	N	NA
Sample Received in Vial	Y	N	NA
VQA - Headspace Accumulated	Y	N	NA
USDA Regulated Soil	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl String	Y	N	NA
Sample Temperature in Cooler	Y	N	NA
Lab Blank Present	Y	N	NA
Lab Blank Received	Y	N	NA

Lab Use Only: Lab Receipt #

Customer Remarks / Special Conditions / Possible Hazards: **LOP2 See attached Protocol B. Run TCLPs if exceedances.**

Type of Ice Used: Wet [] Blue [] Dry [] None []

SHORT HOLDS PRESENT (<72 hours): Y [] N [] N/A []

Packaging Material Used: _____

Lab ID #: **2781451**

Redchem sample(s) screened (<500 cpm): Y [] N [] NA []

Samples Received Via: FEDEX [] UPS [] Client [] Courier [] Pace Courier []

Lab Sample Temperature Info:

Camp Blank Received	Y	N	NA
Therm ID#:			
Cooler 1 Temp Upon Receipt			
Cooler 1 Temp Upon Factor			
Cooler 1 Corrupted Temp			
Comments:			

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Sean Cranley			
CS Logistics	6/22/14 0810	MM	6/22/14 0810

Table #: _____

Lab Blank Received: Y [] N [] NA []

Non-Compliance(s): _____

Page: Page 27 of 31



PROTOCOL B

PROTOCOL

ACCEPTANCE LIMITS

pH	2.0 ≤ pH ≤ 12.5
Total Solids	no limit
Free Liquids	0% free liquids (paint filter test)
Flash Point	≥ 140° F
Arsenic	TCLP extraction procedure < 5.0 mg/l
Barium	TCLP extraction procedure < 100.0 mg/l
Cadmium	TCLP extraction procedure < 1.0 mg/l
Chromium	TCLP extraction procedure < 5.0 mg/l
Lead	TCLP extraction procedure < 5.0 mg/l
Mercury	TCLP extraction procedure < 0.2 mg/l
Selenium	TCLP extraction procedure < 1.0 mg/l
Silver	TCLP extraction procedure < 5.0 mg/l
Chlorine	< 1.0%*
Reactive Sulfide	< 200.0 mg/l
PCB's	< 50.0 ppm
Phenol	TCLP extraction procedure < 2000 mg/l
Reactive Cyanide	< 200.0 mg/l
Benzene	TCLP extraction procedure < 0.5 mg/l
Carbon Tetrachloride	TCLP extraction procedure < 0.5 mg/l
Chlorobenzene	TCLP extraction procedure < 100.0 mg/l
Chloroform	TCLP extraction procedure < 5.0 mg/l
o-Cresol	TCLP extraction procedure < 200.0 ² mg/l
m-Cresol	TCLP extraction procedure < 200.0 ² mg/l
p-Cresol	TCLP extraction procedure < 200.0 ² mg/l
1,4-Dichlorobenzene	TCLP extraction procedure < 7.5 mg/l
1,2-Dichloroethane	TCLP extraction procedure < 0.5 mg/l
1,1-Dichloroethylene	TCLP extraction procedure < 0.7 mg/l
2,4-Dinitrotoluene	TCLP extraction procedure < 0.13 ¹ mg/l
Hexachlorobenzene	TCLP extraction procedure < 0.13 ¹ mg/l
Hexachloro-1,3-butadiene	TCLP extraction procedure < 0.5 mg/l
Hexachloroethane	TCLP extraction procedure < 3.0 mg/l
Methyl Ethyl Ketone	TCLP extraction procedure < 200.0 mg/l
Nitrobenzene	TCLP extraction procedure < 2.0 mg/l
Pentachlorophenol	TCLP extraction procedure < 100.0 mg/l
Pyridine	TCLP extraction procedure < 5.0 ¹ mg/l
Tetrachloroethylene	TCLP extraction procedure < 0.7 mg/l
Trichloroethylene	TCLP extraction procedure < 0.5 mg/l
2,4,5-Trichlorophenol	TCLP extraction procedure < 400.0 mg/l
2,4,6-Trichlorophenol	TCLP extraction procedure < 2.0 mg/l
Vinyl Chloride	TCLP extraction procedure < 0.2 mg/l

If chlorine is ≥ 1%, the following compounds must be analyzed using test methods 8021A, 8240B or 8260A

- tetrachloroethylene
- trichloroethylene
- methylene chloride
- 1,1,1-trichloroethane
- carbon tetrachloride
- chloroform
- ortho-dichlorobenzene
- dichlorodifluoromethane
- 1,1,2 trichloro - 1,2,2 trifluoroethane
- trichlorofluoromethane
- 1,1 dichloroethylene
- 1,2 dichloroethylene

If any combination of the above halogenated compounds concentration exceeds 1% or (10,000 ppm) on a weight to weight basis the waste is a F600 listed hazardous waste.

1 Quantification limit is greater than the calculated regulatory level. The quantification limit, therefore becomes the regulatory level.
 2 If o,m-, and p-Cresol concentrations cannot be differentiated, the total Cresol (D028) concentration is used. The regulatory level for total Cresol is 200 mg/l.

For all constituents which are identified as TCLP extraction, it is permissible to do a totals analysis (on wastes which contain 0% free liquids) instead of the extraction. If the totals analysis is not over 20 times the acceptance limit, no extraction is required.



CHAIN-OF-CUSTODY Analytical Request Document

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

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

10247215

ALL SHADED AREAS are for LAB USE ONLY

Company: **Midwest Env. Consulting**
 Address: **11095 E. Paradise Rd.**
 Report To: **Sean Cranley**
 Copy To:

Billing Information:
Burlington, WI
 Email To: **mwe@envirocon@gmail.com**
 Site Collection Info/Address:

Customer Project Name/Number:
EBSOLA

State: **WI** County/City: **Burlington** Time Zone Collect: **[] PT [] MT [] CT [] ET**

Phone: **(262) 237-4357**
 Email: **237-4357**

Site/Facility ID #:
 Compliance Monitoring?
 Yes No

DW PWS ID #:
 DW Location Code:

Collected By (print):
Sean Cranley

Purchase Order #:
 Quote #:

Immediately Packed on Ice:
 Yes No

Collected By (signature):
Sean Cranley

Turnaround Date Required:
 Rush:
 Same Day Next Day
 2 Day 3 Day 4 Day 5 Day
 (Expedite Charges Apply)

Field Filtered (if applicable):
 Yes No

Sample Disposal:
 Dispose as appropriate Return
 Archive
 Hold

Analysis:

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground 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:
WP-1

Matrix *:
Soil

Comp / Grab:
Grab

Collected (or Composite Start) Date/Time:
6/27/14 00

Composite End Date/Time:
 Res C: **0** # of Cans: **1**

@Tnp Blank

Soil

Grab

6/27/14 00

0 **1**

Added to coc by lab mlt 6/27/14

Customer Remarks / Special Conditions / Possible Hazard:
20F2 See attached Protocol B. Run CVOC if Chlorine $\geq 1\%$

Type of Ice Used: **None**

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

SHORT HOLDS PRESENT (<72 hours): **N/A**

Lab Ticket #: **2781452**

Samples received via: **FEDEX**

Lab Sample Temperature Info:

Temp Blank Received: **Y**

Cooler 1 Temp Upon Receipt: **5C**

Relinquished by/Company: (Signature)
Sean Cranley

Date/Time:

Received by/Company: (Signature)

Date/Time:

Relinquished by/Company: (Signature)
CS Logistics

Date/Time:
6/23/14 0810

Received by/Company: (Signature)
Mau

Date/Time:
6/23/14 0810

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

LAB USE ONLY:
 Table #:
 Account:
 Template:
 Prep #:
 PM:
 PD:

Temp Blank Received: **N/A**
 HC MeOH TSP Other
 Non-Conformance: **ES / NO**
 Page 29 of 31

X TNP REC'D 6/27/14 (4:15)
 X TNP VOC9 SUBCS (6/27)

Sample Preservation Receipt Form

Client Name: Midwest Environmental Project # L102470215

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

Initial when completed:
Date/Time:

Lab #	Glass								Plastic				Vials				Jars			General			VGA Vials (>6mm)	H2SO4 pH 2	NaOH/Zn Acid pH 2	NaOH pH 12	HNO3 pH 2	pH after eqution	Volume (mL)						
	AG1U	AG1U	AG1H	AG4S	AG4U	AG5U	AG2B	AG3U	BP1U	BP3U	BP3B	BP3N	BP3B	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG8U	WGFU								WPFU	BP5T	ZPLC	GN		
001																																		2.6/5/10	
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018																																			
019																																			
020																																			

Exceptions to preservation check: VGA, Coliform, TOC, TOX, TCH, O&G, WI ORD, Phosphite, Other: _____ Headspaces in VGA Vials (>6mm): Yes No N/A If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
AG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG8U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3B 250 mL plastic H2SO4	VG9M 40 mL clear vial NaOH	BP5T 120 mL plastic Na Thiocellate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2B 500 mL amber glass H2SO4			GN
AG3U 250 mL clear glass unpres			

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Midwest Environmental

WO#: **40247045**

Courier: CS Logistics Fed Ex Speedee UPS Walco
 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-110 Type of Ice: Wet Blue Dry None

Samples on Ice, cooling process has begun

Cooler Temperature: Uncorr: 3 / Corr: 3

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 6/23/22 Initials: MP

Temp should be above freezing to 5°C.

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

Labeled By Initials: MP

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>AKO preservation type mtt 6/23/22</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.
- VQA 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
- Pace IR Containers Used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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 checked="" type="checkbox"/> No <input 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>NO date or time mtt 6/23/22</u>
- Includes date/time/ID/Analysis Matrix: <u>S</u>	<u>Temp Blank in cooler but with ID WP-1 on label</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 logs

INVOICE

KESTRAL HAWK LANDFILL - 3063
 PO BOX 932899
 Cleveland, OH 44193
 (262) 884-7081



Invoice Date 08/15/2022
Invoice No 3063-000011236
Customer No 4-3063-0333470

Page No Page 1 of 2
Due Date UPON RECEIPT

KENOSHA UNIFIED SCHOOL DISTRICT
 3600 52NT STREET
 KENOSHA, WI 53144

Current Charges	Total Amount Due
\$2,597.87	\$2,597.87

Please pay total amount due

Billing Questions? Call (262) 884-7081

Thank you for your business! Please be sure to remit payments to our lockbox address shown on the bottom of the invoice.

Date	Code	Description	Reference	Rate	Quantity	Amount
		Balance forward :				\$0.00
		Payments :				\$0.00
		Adjustments :				\$0.00
		Invoices :				\$0.00
8/10	VG	SW-CONT SOIL	01-1144624	26.50	14.53 TN	\$385.05
8/10	VG	Reference: 1-8/10/22				
8/10	VG	Vehicle: WAN241				
8/10	VG	Contract: 3063229694				
8/10	VG	Generator Name: Kenosha Unified School District - Edward				
8/10	{1	ENVIRONMENTAL FEE 1	SC362355	18.00	1.00	\$18.00
8/10	{1	(\$18.00 / Ticket)ENVIRONMENTAL FEE 3 \$1				
8/10	}1	FUEL RECOVERY FEE	SC362356	7.00	1.00	\$26.95
8/10	}1	(7.00% / Ticket)FUEL RECOVERY FEE				
8/10	VG	SW-CONT SOIL	01-1144628	26.50	17.97 TN	\$476.21
8/10	VG	Reference: 2-8/10/22				
8/10	VG	Vehicle: WAN263				
8/10	VG	Contract: 3063229694				
8/10	VG	Generator Name: Kenosha Unified School District - Edward				
8/10	{1	ENVIRONMENTAL FEE 1	SC362365	18.00	1.00	\$18.00
8/10	{1	(\$18.00 / Ticket)ENVIRONMENTAL FEE 3 \$1				
8/10	}1	FUEL RECOVERY FEE	SC362366	7.00	1.00	\$33.33
8/10	}1	(7.00% / Ticket)FUEL RECOVERY FEE				
8/10	VG	SW-CONT SOIL	01-1144635	26.50	19.58 TN	\$518.87
8/10	VG	Reference: 3-8/10/22				
8/10	VG	Vehicle: WAN263				
8/10	VG	Contract: 3063229694				
8/10	VG	Generator Name: Kenosha Unified School District - Edward				
8/10	{1	ENVIRONMENTAL FEE 1	SC362379	18.00	1.00	\$18.00
8/10	{1	(\$18.00 / Ticket)ENVIRONMENTAL FEE 3 \$1				
8/10	}1	FUEL RECOVERY FEE	SC362380	7.00	1.00	\$36.32
8/10	}1	(7.00% / Ticket)FUEL RECOVERY FEE				
8/10	VG	SW-CONT SOIL	01-1144638	26.50	18.58 TN	\$492.37
8/10	VG	Reference: 4-8/10/22				
8/10	VG	Vehicle: WAN241				
8/10	VG	Contract: 3063229694				
8/10	VG	Generator Name: Kenosha Unified School District - Edward				
8/10	{1	ENVIRONMENTAL FEE 1	SC362384	18.00	1.00	\$18.00
8/10	{1	(\$18.00 / Ticket)ENVIRONMENTAL FEE 3 \$1				
8/10	}1	FUEL RECOVERY FEE	SC362385	7.00	1.00	\$34.47
8/10	}1	(7.00% / Ticket)FUEL RECOVERY FEE				
8/10	VG	SW-CONT SOIL	01-1144649	26.50	17.60 TN	\$466.40
8/10	VG	Reference: 5-8/10/22				
8/10	VG	Vehicle: WAN263				
8/10	VG	Contract: 3063229694				
8/10	VG	Generator Name: Kenosha Unified School District - Edward				

Date	Code	Description	Reference	Rate	Quantity	Amount
8/10	{1	ENVIRONMENTAL FEE 1	SC362399	18.00	1.00	\$18.00
8/10	{1	(\$18.00 / Ticket)ENVIRONMENTAL FEE 3 \$1				
8/10	}1	FUEL RECOVERY FEE	SC362400	7.00	1.00	\$32.65
8/10	}1	(7.00% / Ticket)FUEL RECOVERY FEE				
8/15	Z8	ADMINISTRATION FEE	SC362933	5.25	1.00	\$5.25

Material / Fee Summary

{1	ENVIRONMENTAL FEE 1	5.00	\$90.00
}1	FUEL RECOVERY FEE	5.00	\$163.72
VG	SW-CONT SOIL	88.26 TN	\$2,338.90
Z8	ADMINISTRATION FEE	1.00	\$5.25

Current	31-60 Days	61-90 Days	Over 90 Days	Total Amount Due
\$0.00	\$2,597.87	\$0.00	\$0.00	\$2,597.87

please return this portion below with your payment. Do not attach check stub.



KESTRAL HAWK LANDFILL - 3063
 PO BOX 932899
 Cleveland, OH 44193
 (262) 884-7081

Please write your account number on your check and make payable to:

Please Return Payment to: KESTRAL HAWK LANDFILL - 3063
 PO BOX 932899
 Cleveland, OH 44193

Invoice Date 08/15/2022
Invoice No 3063-000011236
Customer No 4-3063-0333470

Current Charges \$2,597.87
Total Amount Due \$2,597.87

Amount Paid: _____

KENOSHA UNIFIED SCHOOL DISTRICT
 3600 52NT STREET
 KENOSHA, WI 53144



EXCAVATION FOR PLAYGROUND FOUNDATION, FACING NORTHWEST



EXCAVATION FOR PLAYGROUND FOUNDATION, FACING SOUTH



DELIVERY OF AGGREGATE BASE MATERIAL, FACING NORTH



COMPACTION OF AGGREGATE BASE, FACING WEST



CONCRETE FOUNDATION SLAB, FACING SOUTH



CONCRETE FOUNDATION SLAB, FACING SOUTHEAST



RUBBERIZED SURFACE PLAYGROUND WITH GRASS SPROUTING ON TOPSOIL, FACING SOUTHEAST



RUBBERIZED SURFACE PLAYGROUND WITH GRASS SPROUTING ON TOPSOIL, FACING SOUTHWEST

Edward Bain School of Language and Art Site Cap Maintenance Plan

Site Cap Construction: The original 2003 site construction incorporated three different types of cap construction that effectively cap the entire property. The school building with its sub-base, vapor barrier and concrete floor provides capping for contaminated materials beneath the school. The hard surface playground, access drives and parking areas and walkways were capped with pavement. Landscaped areas and athletic fields were capped with clean soil. The pavement caps were constructed with a minimum of 3 inches of concrete or bituminous pavement overlying 10 inches of crushed aggregate. Grass covered portions of the site were capped by 6 inches of topsoil overlying 6 inches of compacted clay obtained from an off-site source.

In 2022 a 32'-6" x 35'-6" rubberized surface playground was constructed within the existing grass play area. An area of 33'-6" by 36'-6" feet was excavated to a depth of 12 inches. Six inches of crush concrete aggregate base was placed within the excavation on top of which a 6-inch thick, 32'-6" x 35'-6" concrete slab. The playground equipment was anchored onto the concrete slab and then a 2.5-inch rubberized surface was poured over the concrete slab. Clean topsoil was placed around the margins of the concrete slab and graded to be flush with the play surface and surrounding grass play area. The topsoil was then seeded with grass. Figures 1 to 3 illustrate the playground layout

Site Cap Inspection: Routine maintenance activities at the property are conducted by Kenosha Unified School District (KUSD) personnel and Edward Bain School of Language and Art custodians. These activities include, but are not limited to, lawn mowing, landscaping and snow removal activities. Personnel performing routine maintenance activities will be made aware of the restriction outlined in the property deed and the necessity of maintaining the site cap integrity. If during the course of these routine activities a significant breach in the cap materials is noted, the Director of Facilities will be promptly notified and repairs to the cap will be made expeditiously.

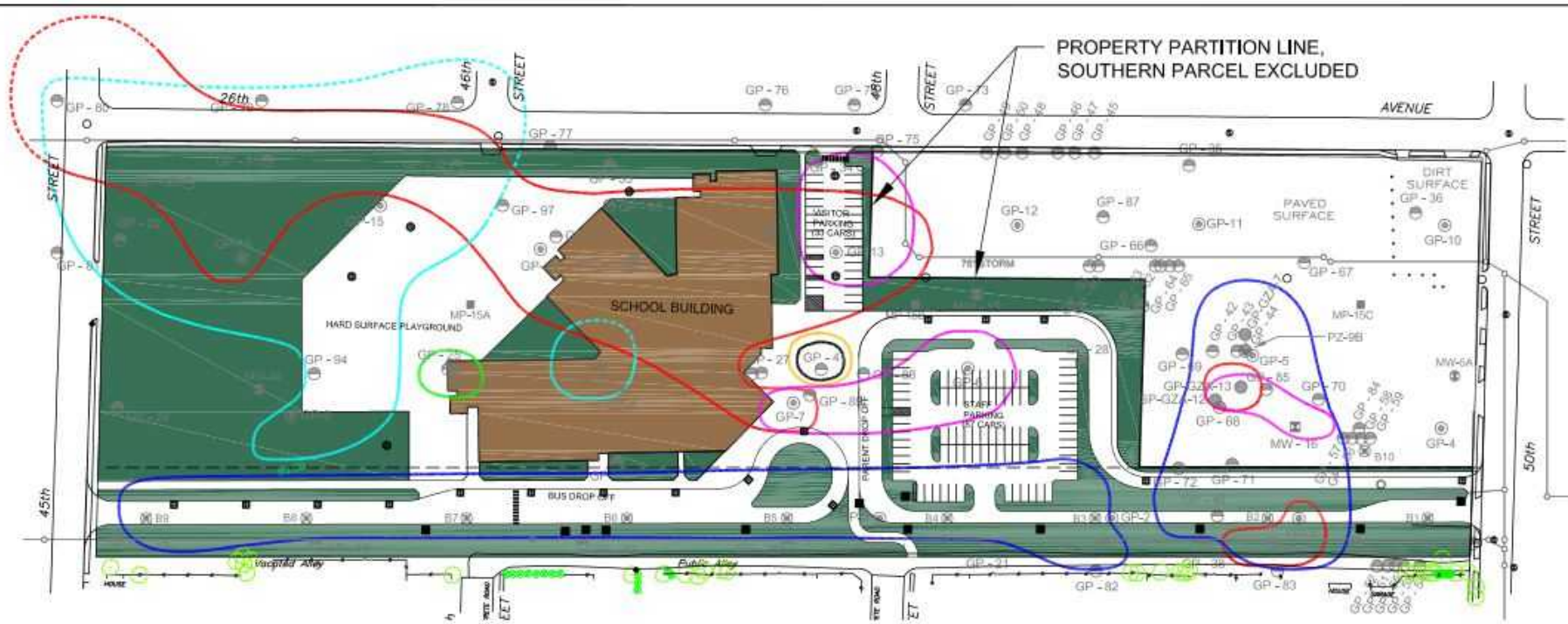
Site Cap Maintenance: Cracks, holes and other small penetrations of paved portions of the site cap will be patched with compatible surface materials on an annual basis. Holes or erosion features in the grassed or landscaped portions of the site cap will be filled and graded with clay, soil or other compatible earth materials as soon as practical.

Excavation: Should excavation through the cap materials be necessary good judgment should be used. Soils below one foot in depth should be considered contaminated. Small excavations for landscaping purposes should avoid penetration of the one-foot thick clean soil cap, if possible. If soils below the one foot depth are removed, they should be placed back into the excavation and covered with one-foot of clean soil or paved.

Excavations that will result in the removal of large amounts of soil from below one foot will require practices to properly handle the contaminated material. The contaminated soil must be staged on, and covered by plastic sheeting until it can be placed back in the excavation or properly disposed. The excavations should be capped with one foot of clean soils or paved. Although the contaminated soil does not pose a risk to human health through short-term exposure, workers contacting the soil should be apprised of the presence of the contamination and directed to employ good hygiene practices to limit exposure.

Reporting: Since the routine cap maintenance activities are consistent with the standard grounds care practices of KUSD, period reporting of routine maintenance activities is not warranted. Large penetrations, catastrophic failures and/or breaches of the site cap will be reported to the Department of Natural Resources as soon as practical.

FIGURE 1



LEGEND

- ⊠ = GZA GROUNDWATER MONITORING WELL LOCATIONS (MARCH 2002)
- ◆ = GZA PIEZOMETER LOCATIONS (MARCH 2002)
- ⊙ = GZA SITE INVESTIGATION GEOPROBE SOIL BORING LOCATIONS (FEBRUARY 2002)
- ⊙ = CRI SITE INVESTIGATION GEOPROBE SOIL BORING LOCATIONS (SPRING, SUMMER 2001, SPRING 2002)
- ⊙ = CRI PHASE II ESA GEOPROBE BORING LOCATIONS (JULY 2000)
- ⊙ = PREVIOUS BENCHMARK PHASE II ESA SOIL BORING LOCATIONS (FEBRUARY 2000)
- ⊙ = PREVIOUS TRIAD SITE INVESTIGATION SOIL BORING LOCATIONS (DECEMBER 1989)
- ⊙ = PREVIOUS TRIAD SITE INVESTIGATION MONITORING WELL LOCATIONS (DECEMBER 1989)

- = EXTENT OF BENZENE SOIL CONTAMINATION EXCEEDING RCL
- = EXTENT OF DRO SOIL CONTAMINATION EXCEEDING GENERIC SOIL STANDARD
- = EXTENT OF NAPHTHALENE SOIL CONTAMINATION EXCEEDING RCL
- = EXTENT OF TCE AND/OR PCE SOIL CONTAMINATION

RCL = RESIDUAL CONTAMINANT LEVEL

PAH = POLYNUCLEAR AROMATIC HYDROCARBON

TCE = TRICHLOROETHENE

PCE = PERCHLOROETHENE = TETRACHLOROETHENE

DRO = GASOLINE RANGE ORGANICS

— = PREVIOUS BUILDING LOCATIONS (APPROXIMATE)

⊙ = STORM SEWER

— = EXTENT OF ARSENIC SOIL CONTAMINATION EXCEEDING RCLs

— = EXTENT OF LEAD SOIL CONTAMINATION EXCEEDING RCLs

— = EXTENT OF PAH SOIL CONTAMINATION EXCEEDING RCLs

SOIL INORGANIC ANALYTE REGULATORY EXCEEDANCES				
Sample ID	Analyte	Concentration (mg/kg)	RCL Exceeded (mg/kg)	25 x TCLP Limit Exceeded (5 mg/kg)
8280	Arsenic	18,850	X (1.0 Ind)	X
GP-1 (1'-3')	Arsenic	848	X (1.0 Ind)	X
8480	Arsenic	138	X (1.0 Ind)	X
GP-40 (2.5'-1.0')	Arsenic	129	X (1.0 Ind)	X
GP-3 (0.5'-1.0')	Arsenic	52	X (1.0 Ind)	X
8887	Arsenic	39	X (1.0 Ind)	X
GP-22 (1'-2')	Arsenic	26.1	X (1.0 Ind)	X
GP-31 (1'-2')	Arsenic	22.3	X (1.0 Ind)	X
8889	Arsenic	5.32	X (1.0 Ind)	X
MW-16 (W-1)	Arsenic	2.1	X (1.0 Ind)	X
GP-G2A-13 (2'-4')	Arsenic	1.1	X (0.250 Non-Ind)	X
GP-G2A-7 (2'-3')	Arsenic	0.58	X (0.250 Non-Ind)	X
PZ-96 (2'-4')	Arsenic	0.25	X (0.250 Non-Ind)	X
GP-22 (1'-2')	Lead	2,170	X (50 Ind)	X
GP-80 (0.5'-3')	Lead	250	X (50 Non-Ind)	X
GP-31 (2.5'-1.0')	Lead	258	X (50 Non-Ind)	X
GP-G2A-13 (2'-4')	Lead	133	X (50 Non-Ind)	X
GP-50 (0.5'-1')	Lead	120	X (50 Non-Ind)	X
GP-13 (1'-2')	Lead	103	X (50 Non-Ind)	X
GP-1 (4'-2')	Lead	85	X (50 Non-Ind)	X
GP-1 (1'-3')	Lead	86	X (50 Non-Ind)	X
GP-3 (4'-2')	Lead	88	X (50 Non-Ind)	X
GP-16 (0.5'-3')	Lead	80	X (50 Non-Ind)	X
GP-7 (0.1'-1')	Lead	52	X (50 Non-Ind)	X
GP-11 (2'-3')	Lead	50	X (50 Non-Ind)	X
GP-16 (0.5'-1.0')	Lead	50	X (50 Non-Ind)	X

SOIL ORGANIC COMPOUND REGULATORY OR POTENTIAL EXCEEDANCES				
Sample ID	Analyte	Concentration (ug/kg)	RCL Exceeded (ug/kg)	25 x TCLP Limit Exceeded (ug/kg)
GP-7 (1'-1.5')	1,1,1-Trichloroethene	111	No Standard	X (1000)
GP-43 (15.5'-16')	1,1-Dichloroethene	504,200	NA	X (1000)
GP-88 (11.5'-12')	1,1-Dichloroethene	207,200	NA	X (1000)
GP-49 (15.5'-16')	1,1-Dichloroethene	11,600	NA	X (1000)
GP-84 (15.5'-16')	1,1-Dichloroethene	11,700	NA	X (1000)
GP-70 (15.5'-16')	1,1-Dichloroethene	8,370	X (3.7 SSGL GW)	X (1000)
GP-67 (16'-17')	1,1-Dichloroethene	800	X (3.7 SSGL GW)	X (1000)
GP-70 (14'-15')	1,1-Dichloroethene	230	X (3.7 SSGL GW)	X (1000)
GP-13 (1'-2')	1,1-Dichloroethene	160	X (3.7 SSGL GW)	X (1000)
GP-34 (1'-2')	1,1-Dichloroethene	110	X (3.7 SSGL GW)	X (1000)
GP-68 (10.5'-10')	1,1-Dichloroethene	85.1	X (3.7 SSGL GW)	X (1000)
GP-6 (1'-2')	1,1-Dichloroethene	41	X (3.7 SSGL GW)	X (1000)
GP-7 (1'-1.5')	1,1-Dichloroethene	41	X (3.7 SSGL GW)	X (1000)
GP-41 (1'-3')	Benzene	257	X (15.0 GW)	X (1000)
GP-41 (2'-3')	Benzene	500	X (15.0 GW)	X (1000)
GP-25 (0.5'-3')	Naphthalene	1,035	X (100 GW)	X (1000)
GP-76 (0.5'-4')	Benzene/Pyrene	371	X (8.8 Non-Ind)	X (1000)
GP-31 (0.5'-1.5')	Benzene/Pyrene	61.1	X (8.8 Non-Ind)	X (1000)
GP-32 (0.5'-1')	Benzene/Pyrene	37.3	X (8.8 Non-Ind)	X (1000)
GP-18 (0.5'-1.5')	Benzene/Pyrene	18	X (8.8 Non-Ind)	X (1000)
GP-18 (4')	Benzene/Pyrene	25	X (8.8 Non-Ind)	X (1000)
GP-26 (1'-2')	Benzene/Pyrene	15.4	X (8.8 Non-Ind)	X (1000)
GP-19 (0.5'-4')	Benzene/Pyrene	12.9	X (8.8 Non-Ind)	X (1000)
GP-80 (0.5'-3')	Benzene/Pyrene	11.7	X (8.8 Non-Ind)	X (1000)
GP-26 (0.5'-2')	Benzene/Pyrene	10.5	X (8.8 Non-Ind)	X (1000)
GP-18 (0.5'-1.5')	Dibenz(a,h)Anthracene	16	X (8.8 Non-Ind)	X (1000)
GP-19 (0.5'-4')	Dibenz(a,h)Anthracene	17.5	X (8.8 Non-Ind)	X (1000)
GP-18 (0.5'-1.5')	Dibenz(a,h)Anthracene	16	X (8.8 Non-Ind)	X (1000)
GP-78 (0.5'-4')	Benz(a)Anthracene	349	X (88 Non-Ind)	X (1000)
GP-78 (0.5'-4')	Benz(a)Anthracene	201	X (88 Non-Ind)	X (1000)
GP-78 (0.5'-4')	Indeno(1,2,3-cd)Pyrene	206	X (88 Non-Ind)	X (1000)
GP-41 (2'-3')	PAHs	276,354	X (100,000 SSGL)	X (1000)

ChemReport, Inc.
INCORPORATED
4515 Washington Road
Kenosha, WI 53144
800-965-5323
engineer@chemreport.com

PRE-CONSTRUCTION SOIL CONTAMINATION DISTRIBUTION SUMMARY
MANKOWSKI PROPERTY RIR
45th STREET & 26th AVENUE
KENOSHA, WISCONSIN

Approved By: **S. CRANLEY**
Date Approved: **9/21/2004**
Date Drawn: **9/20/2004**
Drawn by: **B. MURPHY**

Figure: **6**
6 of 16

6 PRE-CONSTRUCTION SOIL CONTAMINATION DISTRIBUTION SUMMARY
SCALE: 1" = 120'

FIGURE 2

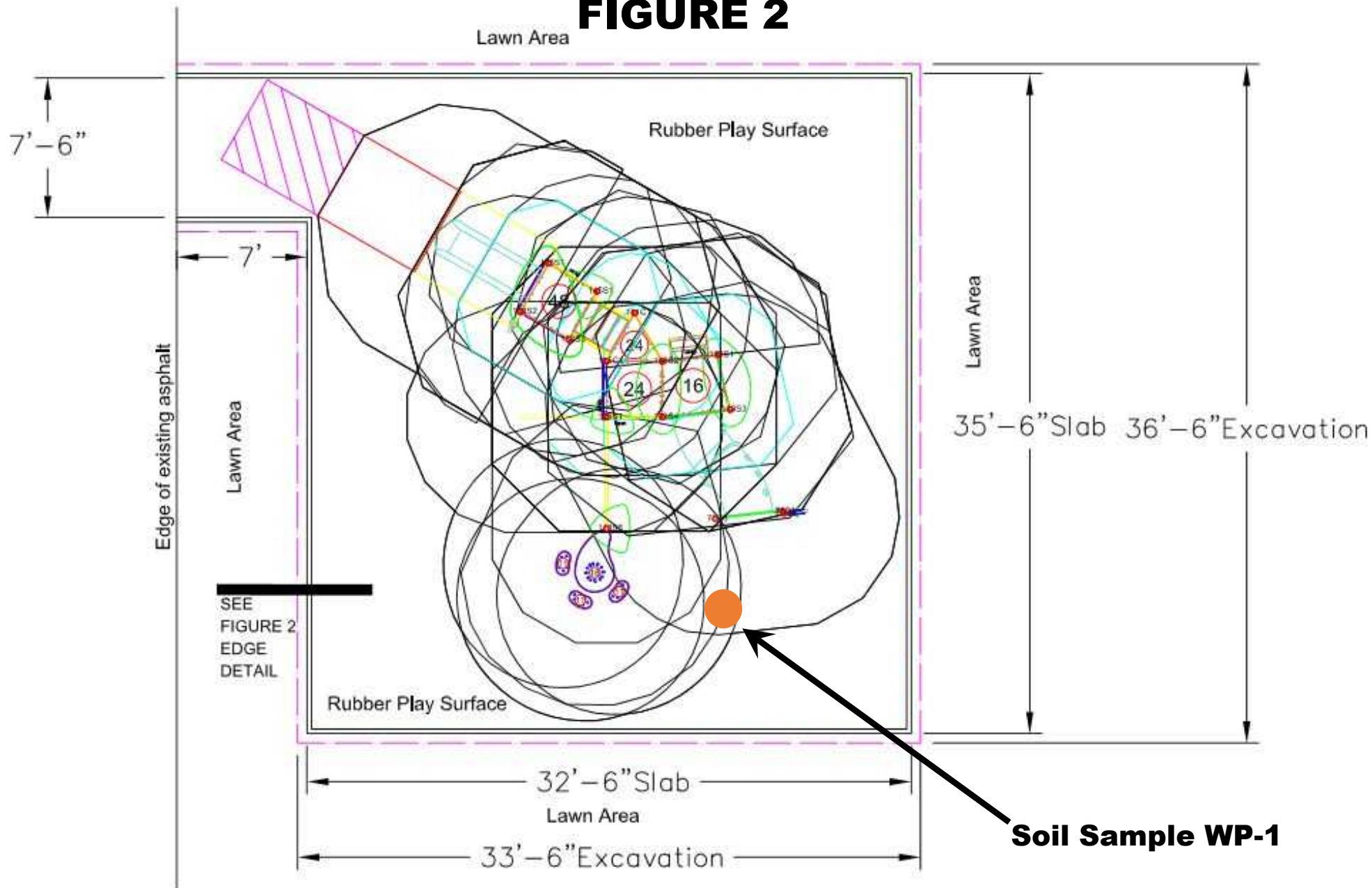


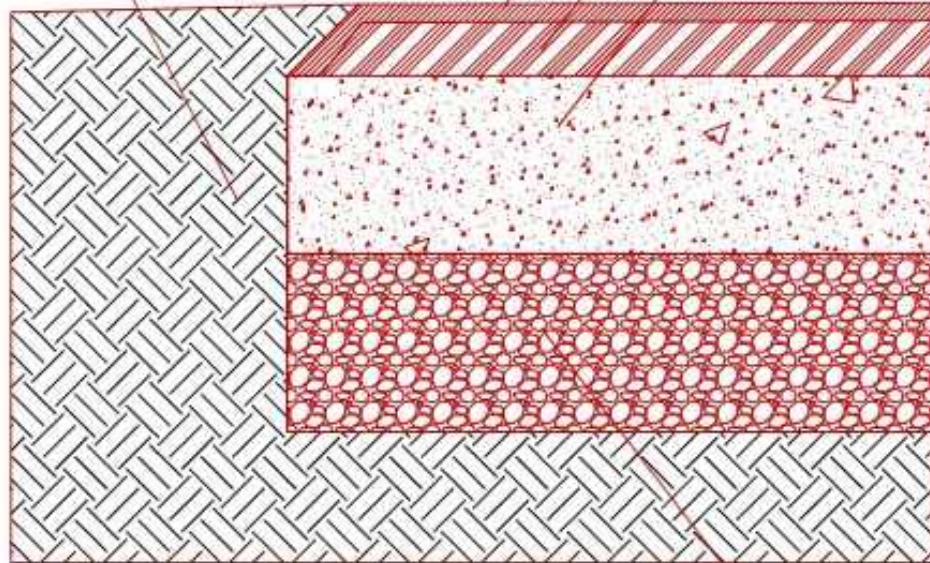
Figure 1: Site Plan



FIGURE 3

PIP SURFACE THICKNESS IS TO BE DETERMINED BY THE CONTRACTOR BASED ON A CRITICAL FALL HEIGHT OF 4'0" - CONFIRM WITH EQUIPMENT PROVIDER BEFORE INSTALLATION

SOIL BACKFILL



PLAYBOUND PIP TOP SURFACE
CROWN PIP SURFACE TO ENSURE PROPER DRAINAGE FREE OF PONDING (N.I.C)
PLAYBOUND PIP BASE MAT SURFACE (N.I.C)
6" 4000 PSI CONCRETE SLAB W/ FIBER REINFORCEMENT. PROVIDE BROOM FINISH AND TOOLED CONTROL JOINTS CENTERED EACH WAY.

0'-0"

GRADE

-2 1/2"

T / Conc.

-1'-2 1/2"

B / Stone

6" COMPACTED WELL DRAINING AGGREGATE STONE BASE

SLAB DIMENSION: 32'-6" X 35'-6"

DETAIL NOT TO SCALE

CONCRETE SLAB / PIP DETAIL SECTION EBSOLA Playground Equipment



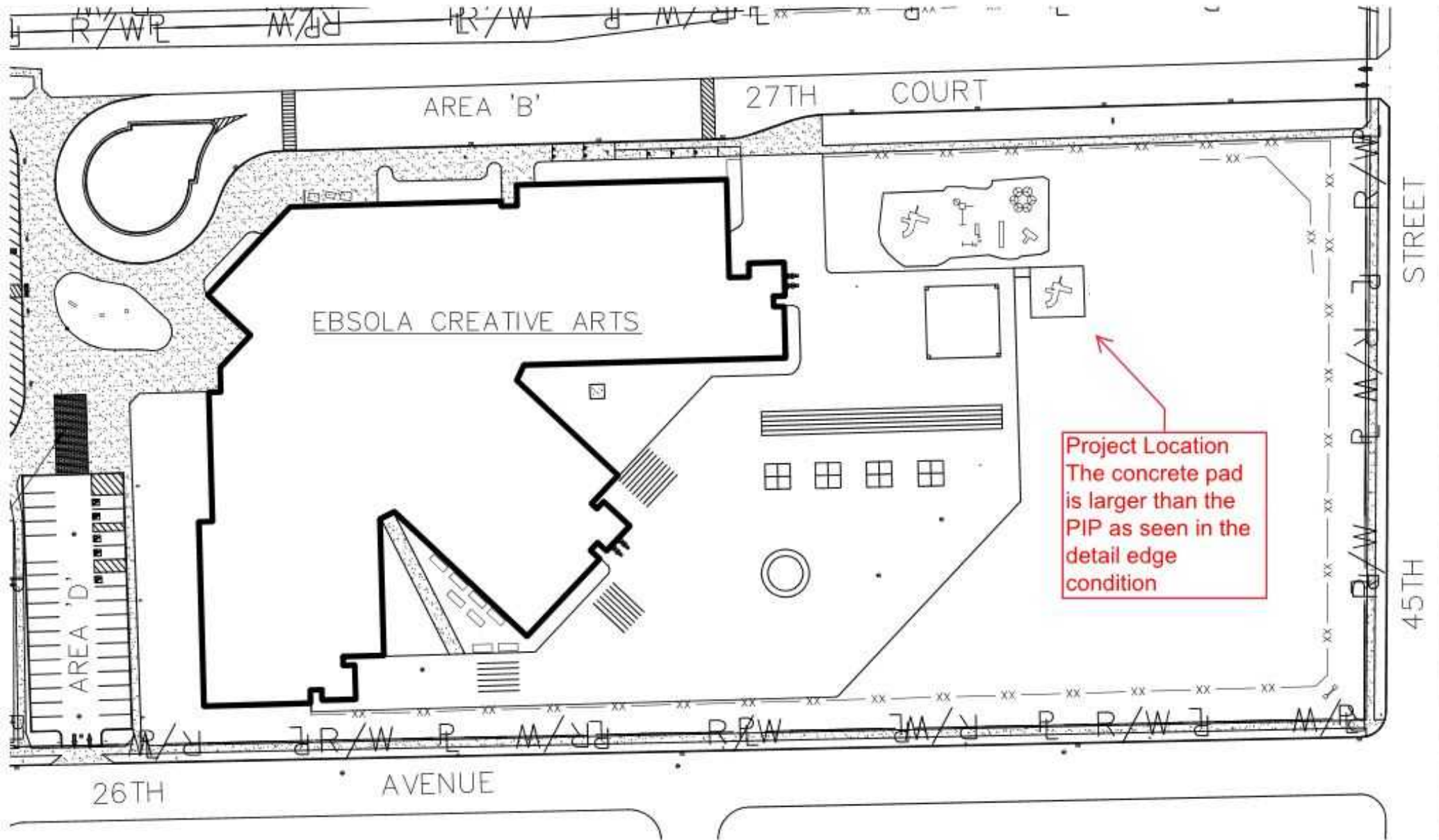
DATE
06-10-22

SHEET NUMBER
Figure 2

DRAWING SCALE
DRAWING NOT TO SCALE.

SHEET NUMBER
1 OF 1

FIGURE 4



North →



PAVED PARKING LOT AND FRONT ENTRANCE AREA, FACING NORTH



PAVED ACCESS DRIVE AND WALK, FACING SOUTHEAST



GRASS PLAY AREA, FACING NORTH



GRASS PLAY AREA, FACING NORTHEAST



ASPHALT PLAY AREA & SCHOOL BUILDING, FACING SOUTH



ASPHALT PLAY AREA & SCHOOL BUILDING, FACING SOUTH-SOUTHWEST



RUBBERIZED SURFACE PLAYGROUND WITH GRASS SPROUTING ON TOPSOIL, FACING SOUTHEAST



RUBBERIZED SURFACE PLAYGROUND WITH GRASS SPROUTING ON TOPSOIL, FACING SOUTHWEST

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at <http://dnr.wi.gov/botw/SetUpBasicSearchForm.do>, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name Mankowski Property / Edward Bain School	BRRTS No. 02-30-522702
--	----------------------------------

Inspections are required to be conducted (see closure approval letter):

annually
 semi-annually
 other – specify _____

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N