



August 5, 2019

Mr. Paul Grittner, Contaminated Material Management Specialist
Wisconsin Department of Natural Resources
Remediation and Development
PO Box 7921
Madison, WI 53707-7921

**Re: NR 718 Application - Soil Waste Management Plan
Rock River Sediment Removal Project
Janesville, Wisconsin
BRRTS Activity # 02-54-577951**

Dear Mr. Grittner:

Thank you for your prompt response to our letter of July 17th. EAG is proposing that the dredged sediment be reused to grade a small area within the former JATCO for positive drainage and be re-vegetated, reducing the paved surface area in the northern portion of that parcel. Soils will be utilized as fill material (with continuing obligations, as applicable) at the final reuse location shown on the attached aerial map.

A 2-foot thick (minimum) engineered barrier or “cap” consisting of uncontaminated “clean” soil material will be placed on top of the fill area to isolate the impacted soils. The native onsite and offsite borrow soils were sampled and analyzed to demonstrate no impacts for unrestricted use as a cover material. Vegetation (native grasses) will be established as a final surface feature. Please find herein supplemental information addressing your requests, including those in your letter of July 16, 2018. We have restructured this submittal to assist your review and approval, and attached all information for completeness.

1. Laboratory reports were not included for all lab data referenced on the table. Data missing from the lab reports include:
Solid Sample #1 – PAH and metal analysis
Solid Sample #2 – PCBs, PAHs, PAH leach, and metals analysis

It is unclear whether soil samples #1-3, referenced in the lab reports, are the same as solid sample #1-3, referenced in different lab reports and on the table. It is also unclear why metals leach analysis was conducted on Soil #1 (collected 6/20) and Solid #1 (collected on 7/9). Providing a brief narrative describing how the soil/solid samples were collected and analyzed would be a useful for interpreting this data.

Solid samples #1-3 and Soil Samples #1-3 are the same samples. They were erroneously mislabeled, but still correspond to the same soil piles we sampled. The reason why Solid Sample #1 was sampled at two different dates is due to the lab not running leachate analysis for all of the parameters that we requested. A second sample was submitted on 7/9 to completely characterize the soil pile. Solid Sample #2 had leach analysis done on 7/25.

Geo-Bag Sample #1 also had leach analysis done on 7/25 to fill in missing data. The sample of the bag was entered in the lab analysis as Solid Sample #11, receiving redundant Total Elemental

analysis as a result. Geo-Bag Sample #1 has results entered in the sediment table under the Sample ID's (Geo-Bag Sample #1) and (Solid Sample #11). ASTM leach analysis for the Geo-Bag is entered once in the sediment table under Solid Sample #11. The redundant Total Elemental Analysis will be used as a third Quality Control (QC) sample for the project.

2. The volume of material currently proposed to be managed under the exemption needs to be stated. Is this request for the initially 500 yards of soils, or is it intended to apply to a greater volume? Is it expected that future requests will be made to reuse additional material at this location?

This request is for a total of approximately 11,000 cys of sediment-soil that has all been stored, sampled, and/or characterized representing entire project. The table has been updated to include the approximate volumes that each sample analysis characterizes. The lab report for these additional results has also been included as an attachment. No future requests are intended to be made for material.

3. Explain how the sampling criteria in NR 718.12(1)(e) has been met by explaining what the sample results on the attached table represent. Were solid samples #1, #2, and #3 collected during the accumulation of the first 500 yards of stockpiled dewatered sediment as was originally proposed? Explain what a Geo-Bag sample is and if these results are being used to characterize stockpiled soil that will be reused at the former JATCO.

The initial stockpile was sampled for all contaminants that were previously detected during the initial pilot study in 2018 representing the first 100 cubic yards (cys). Additional samples were collected in 2019 in accordance with the approved RADR, including one sample collected from the first 300 cys, and one sample collected from the first 500 cys. These are identified under the sample ID's: Pilot Test Sample, Solid Sample #1-300 cys, and Solid Sample #1, respectively. A representative sample from each 500-CY stockpile was collected as a composite from five discrete locations within each stockpile from areas most likely to contain residual soil contamination. The analytical results were compared to the industrial RCLs. Sampling of each stockpile was completed to characterize the soil quality for reuse or final disposal offsite. Sampling of the dried sediment-soil consisted of both total elemental analyses and analyses of leachate (by ASTM method).

The tables have been updated to show the volumes that are represented for each sample. The "Solid Samples" consist of material that was typically coarse grained in nature and placed in open 500 yd stockpiles. "Geo-Bag samples" refer to the sediment that had more fine-grained material that needed further dewatering, so the material was subsequently placed in Geo-Textile Bags that can hold up to 500 cys of dewatered sediment. The material in the Geo-Textile bags is considered suitable for reuse at the former JATCO site.

4. A map depicting the reuse area was provided. If the cap tapers off as shown on the figure it should extend beyond fill area to ensure the thickness will be protective.

See Figures 1, 2 and 3 depicting the re-use area. A revised cross-section showing the cap soil overlapping the excavation to minimize potential for infiltration through the fill material is attached. If deemed essential, soil may be compacted and amended to support an impermeable cover over a portion of the area.

5. Confirm whether the soil managed at the proposed reuse location will be placed more than 3 feet from the high-water level in that area.

The Final Case Closure letter for BRRTS # 03-54-000405, Section 2.B.(iv). indicates the depth to groundwater on the site ranged from 61.33 ft bgs to 69.53 bgs on the site in Section 2.B.(i). The depth of the reuse location will be more than 50 feet above the highest groundwater level at the site and the area is not within a floodplain.

6. Provide a justification that reuse will meet requirements of NR 726.12(1)(b)1-5 (which generally means that the reuse of the contaminated soil in the proposed location will not result in harm to human health or the environment).

The analytical data provided so far indicates that the soil potentially exceeds industrial direct contact RCLs and that naphthalene has the potential to leach such that an enforcement standard could be exceeded by this compound. The flow chart included with the Application suggests that soil with these characteristics be reused under a concrete cap or be disposed at a licensed facility. Explain how reusing the soil in the newly identified reuse area is as protective as these other strategies. The DNR does not typically consider a soil cap to be protective for preventing groundwater contamination.

See attached update data summary table with statistical evaluation, revised decision tree for soil characterization, existing and proposed continuing obligations that include a soil management plan, and a cap maintenance plan demonstrating the remaining level of contamination does NOT:

- 1.** Pose a threat to public health, safety, or welfare or the environment. The land use restrictions in conjunction with the proposed repository will prevent exposure to the low concentrations of residual contaminants are protective of human health and the environment.
- 2.** Cause a violation of a ch. [NR 140](#) groundwater quality enforcement standard at any applicable point of standards application, except where the department has granted an exemption under s. [NR 140.28](#) for a specific hazardous substance or the criteria under s. [NR 726.05 \(6\)](#) are met. Only three of the 26 soil leachate results slightly exceed the Enforcement Standard for lead. A statistical evaluation of the data using the USEPA ProUCL demonstrates that the 95 Upper Confidence Limit on the mean concentration (0.0125 mg/L) is **below** the ES of 0.015 mg/L for lead. One soil sample leachate result for Naphthalene slightly exceeded the ES (0.11 mg/L versus ES of 0.10 mg/L) and was qualified data (B-flag) also detected in the laboratory blank. The repository is shallow (< 6 ft bgs) and well above the uppermost saturated lithology. The fill material will be separated from contact with groundwater by over 50 feet (depth of 2-6 ft bgs versus GW @ > 60 ft bgs). We believe grading the soil cap will minimize infiltration and be sufficiently protective of groundwater. Furthermore, a groundwater use restriction is already in place at the site associated with BRRTS No. 03-54-00405 and was granted on October 26, 1999 and filed in Rock County Register of Deeds, document number 1434932). No potable groundwater wells are present on the site, and groundwater use restrictions will continue to be upheld as referenced in the final closure of BRRTS # 03-54-000405, Section 2.B.(iv). Attached are extracted pages from the Final Case Closure letter.
- 3.** Cause a violation of surface water quality standards in chs. [NR 102](#) to [106](#). A Notice of Intent for Construction was filed online last week and a Stormwater Pollution Prevention Plan is available. The cover materials will be graded to minimize erosion and segregate impacted materials from contact with stormwater runoff.
- 4.** Cause a violation of air quality standards contained in chs. [NR 400](#) to [499](#). Dust will be managed by watering as necessary. No air quality violations are anticipated.

5. Cause a vapor action level in indoor air to be attained or exceeded. No volatile organic compounds were identified in the sediments; therefore, no IA exceedances expected.

Leach test results should always be tabulated and compared to the enforcement standards to support the proposed management plan.

The summary table of analytical results and a statistical evaluation of the data have been attached for your consideration.

7. State specifically what continuing obligations will be required to address soil reused offsite and provide the applicable review and database fees.

As a condition for approving the 718 exemption the DNR will impose continuing obligations on the site where the contaminated soil will be managed. The applicant must propose these obligations as part of the exemption request.

It is unclear whether requiring industrial land use would be beneficial, as the sample results from Solid Sample #2 indicate that PAH concentrations exceed industrial direct contact RCLs. The only advantage to using industrial direct contact RCLs is when contaminant concentrations are between industrial and non-industrial standards, the soil is located at a property that is zoned for industrial uses, and a cap will not be maintained over the contaminated material. Recommending the continuous maintenance of the proposed cap would address the direct contact risk posed by residual contamination and would not require land use restrictions.

A two-foot minimum soil capping layer (consisting of uncontaminated native soil), vegetative cover, and maintenance plan is proposed. The current zoning is M2 - General Industrial. Future zoning may include commercial uses; however, the proposal addresses continuing obligations for non-residential land use, maintenance of the cover system, a soil management plan, and continuation of the existing restriction on groundwater use. Some of these deed restrictions were already memorialized in the Case Closure approval for BRRTS No. 02-54-560181 GM Former Haul-Away Yard per a letter from DNR to GM dated August 1, 2017. A groundwater use restriction is in place at the site associated with BRRTS No. 03-54-00405 and was granted on October 26, 1999 and filed in Rock County Register of Deeds, document number 1434932). No potable groundwater wells are present on the site, and groundwater use restrictions will continue to be upheld as referenced in the final closure of BRRTS # 03-54-000405, Section 2.B.(iv). A copy of the Final Case Closure letter and excerpted supporting documentation is attached. An Amended Soil Management Plan is included in this submittal.

The land use / zoning plan was not included with the application, so it is unclear if requiring industrial zoning to be maintained would be an issue for this property.

A copy of the current proposed planning is attached.

A \$1,000 check was previously submitted. No paper copy of this submittal is being sent (unless requested by WDNR).

We trust this supplemental information satisfies your current needs to grant approval of our request. If you have any questions, please contact me at 314-835-2814 or by email at ddunn@enviroanalyticsgroup.com.

Sincerely,



Daniel M. Dunn
VP - Director of Remediation
EnviroAnalytics Group, LLC
1515 Des Peres Rd, Suite 300
St. Louis, MO 63131

cc: Bill Fitzpatrick, PE

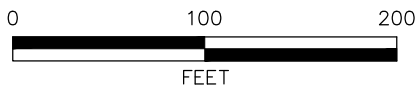
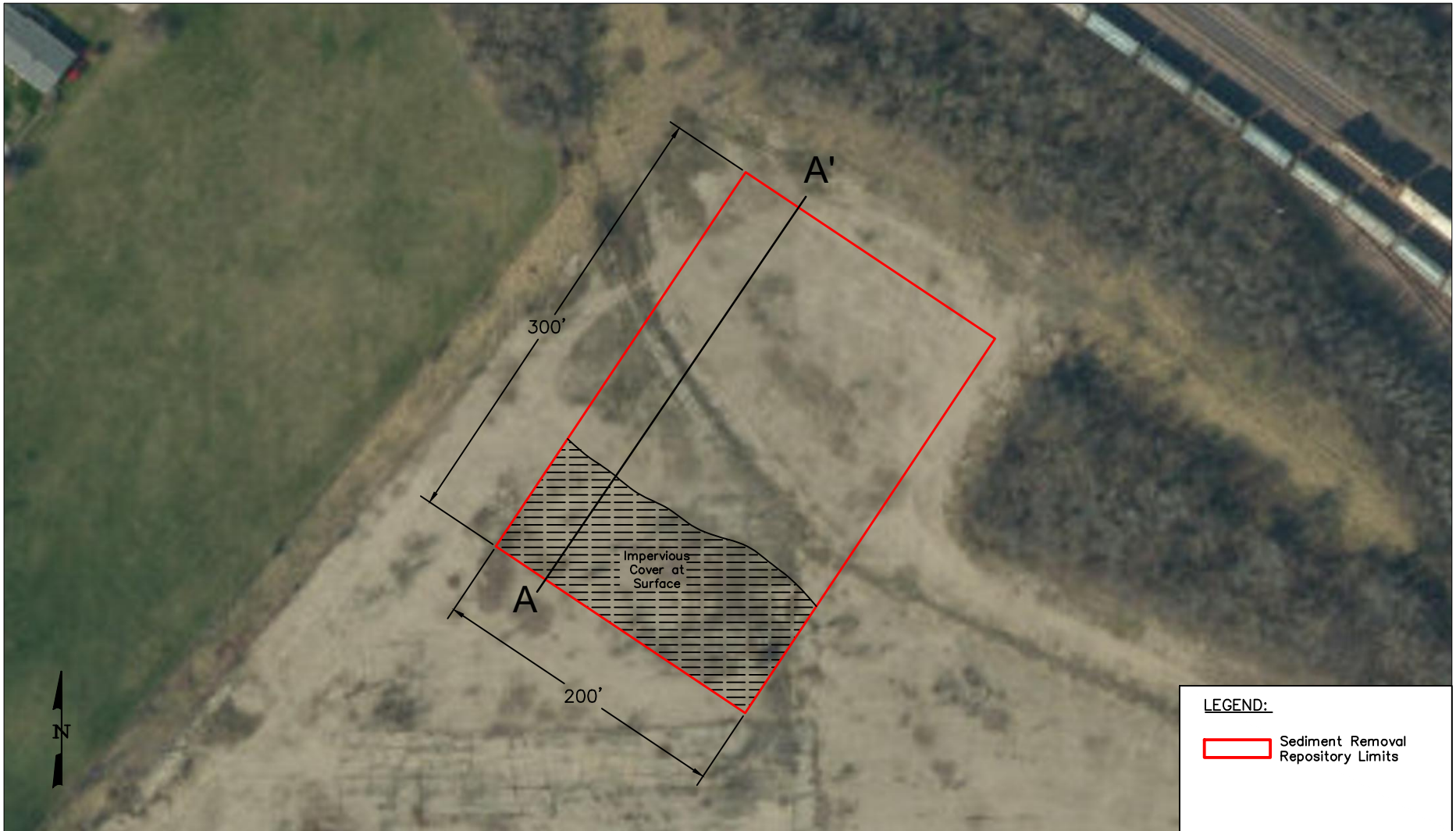
Enclosures:

- Figures:
 - Aerial site plan with fill location
 - Site Plan
 - Cross-section
- Revised Summary table of lab data – dried sediment-soil
- Lead Leachate UCL Data evaluation
- Amended Soil Management Plan (w/cover maintenance plan)
- Current zoning
- Proposed land use / zoning plan
- Decision tree
- Excerpts of Case Closure file with continuing obligations and example soil boring log
- Stormwater Pollution and Erosion Management Plan
- Test America Analytical reports



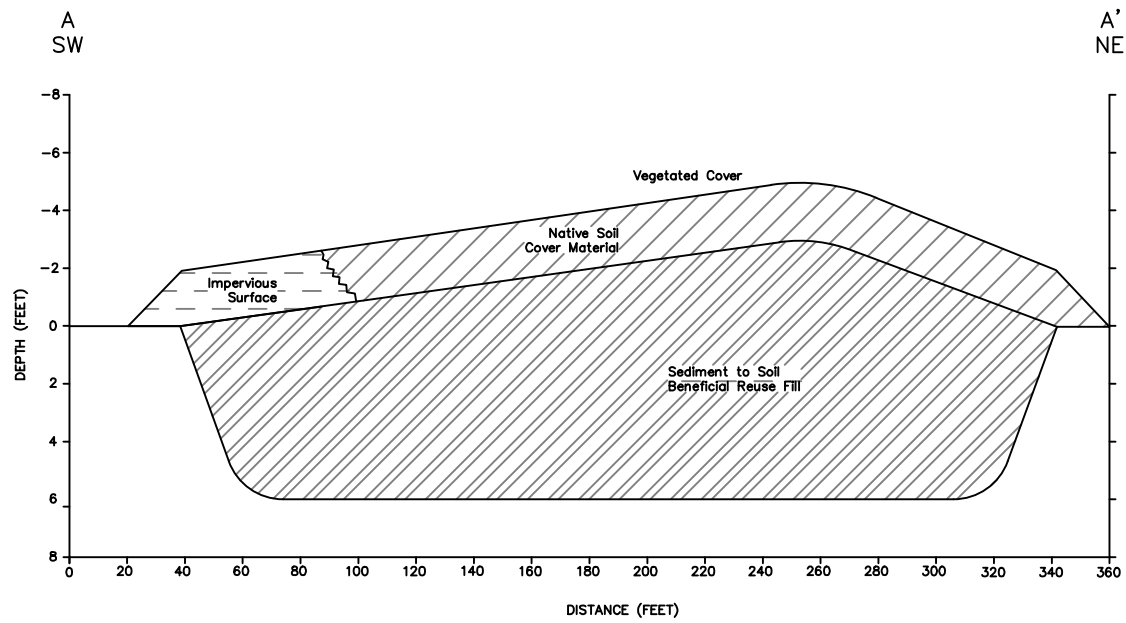
DESIGN: KA	DRAWN: KA	CHKD.: DD
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DRAWING NAME: FIGURE 1 - SITE LOCATION MAP		

FIGURE 1
SITE LOCATION MAP
JAINES, LLC
ROCK RIVER SEDIMENT REMOVAL REPOSITORY
JANESVILLE, WI





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FIGURE 2
 PLAN VIEW MAP
 JAINES, LLC
 ROCK RIVER SEDIMENT REMOVAL REPOSITORY
 JANESVILLE, WI



LEGEND:

-  Native Soil Material
-  Sediment to Soil Beneficial Reuse Fill



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FIGURE 3
CROSS SECTION A-A'
JAINES, LLC
ROCK RIVER SEDIMENT REMOVAL REPOSITORY
JANESVILLE, WI

Summary of Analytical Results - Dried Sediment-Soils

NR 718 Beneficial re-use exemption

Rock River Dredging project - former GM Assembly plant

Janesville, WI

Chemical	Background Concentrations	Vapor Intrusion Action Levels	Dermal Contact Action Levels	Soil-To-Groundwater Action Levels	Pilot Test Sample	Solid Sample #1	Solid Sample #2	Solid Sample #3	Geo-Bag Sample #1	Jatco Cover Soil	NE Geo-Bag Sample #2	South Geo-Bag Sample #1	South Geo-Bag Sample #2	Solid Sample #4	Solid Sample #5	Solid Sample #6	NE Geo-Bag Sample #3	Drying Bed Sample	QC #1	QC #2	Solid Sample #1- 300 yds	Solid Sample #7			
					100 yds volume	500 yds volume	500 yds volume	500 yds volume	500 yds volume		500 yds volume	500 yds volume	500 yds volume	500 yds volume	500 yds volume	500 yds volume	500 yds volume	500 yds volume	500 yds volume	500 yds volume				300 yds volume	500 yds volume
					500-150867-4	500-165506-1	500-165506-2	500-166406-2	500-165974-5	500-165506-3	500-166667-3	500-166667-4	500-166667-5	500-166745	500-166745	500-166966-2	500-166966-1	500-166966-3	500-167373-1	500-167373-2	500-167373-3	500-167373-1	500-167373-2	500-167373-3	500-167373-3
					8/31/2018	6/20/2019	6/20/2019	7/9/2019	6/28/2019	6/20/2019	7/11/2019	7/11/2019	7/11/2019	7/15/2019	7/15/2019	7/18/2019	7/18/2019	7/18/2019	7/24/2019	7/24/2019	7/25/2019	7/25/2019			
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg		
Acenaphthene			45200		0.017	<0.0074	0.5	0.12	0.14	<0.0061	0.055	0.018	0.29	0.039	0.13	0.080	<0.014	0.13	0.0095	0.012	0.031	0.016			
Acenaphthylene					0.024	<0.0055	0.093	0.031	<0.05	<0.0045	0.043	0.025	<0.11	0.018	0.075	0.048	<0.010	<0.036	0.0058	0.0084	0.014	0.012			
Anthracene		100000	196		0.061	<0.0069	1.2	0.51	0.31	<0.0057	0.17	0.073	0.62	0.12	0.28	0.26	0.10	0.32	0.031	0.043	0.11	0.044			
Benzo[a]anthracene	900	20.8			0.21	0.026	3.5	0.78	0.65	<0.0046	0.45	0.21	1.5	0.28	0.84	0.61	0.35	0.71	0.19	0.18	0.44	0.11			
Benzo[a]pyrene	12000	2.11	0.47		0.23	0.028	3.3	0.75	0.67	<0.0066	0.46	0.22	1.1	0.29	0.84	0.57	0.35	0.66	0.24	0.22	0.46	0.17			
Benzo[b]fluoranthene	28000	21.1	0.478		0.32	0.033	5.6	0.81	0.77	<0.0074	0.57	0.28	1.7	0.41	1.1	0.82	0.43	0.92	0.31	0.27	0.63	0.20			
Benzo[g,h,i]perylene					0.087	0.015	0.86	0.31	0.14	<0.011	0.26	0.15	0.81	0.12	0.38	0.19	0.12	0.19	0.12	0.10	0.16	0.058			
Benzo[k]fluoranthene	2800000	211			0.13	0.022	1.9	0.69	0.63	<0.01	0.22	0.10	0.56	0.18	0.41	0.31	0.18	0.60	0.14	0.12	0.32	0.12			
Chrysene	28000000	2110	0.144		0.24	0.034	3.7	0.72	0.89	<0.0093	0.52	0.25	2.3	0.44	0.97	0.63	0.37	0.98	0.23	0.21	0.48	0.17			
Dibenz[a,h]anthracene	28000	2.11			0.02	<0.008	0.3	0.09	<0.073	<0.0066	0.077	0.048	<0.16	0.028	0.11	0.068	0.038	<0.053	0.033	0.028	0.051	0.019			
Fluoranthene		30100	88.87		0.5	0.044	5.8	2.4	1.9	<0.0063	0.89	0.45	3.1	0.44	1.9	1.5	0.79	1.8	0.47	0.37	0.99	0.29			
Fluorene		30100	14.82		0.02	<0.0058	0.63	0.14	0.16	<0.0048	0.066	0.023	0.39	0.056	0.17	0.12	0.047	0.088	0.012	0.015	0.035	0.023			
Indeno[1,2,3-cd]pyrene	280000	21.1			0.085	0.016	0.91	0.3	0.29	<0.0088	0.22	0.12	0.73	0.13	0.40	0.21	0.13	0.24	0.12	0.10	0.17	0.088			
Naphthalene	17	24.1	0.658		0.02	<0.0064	0.74	0.1	0.19	<0.0053	0.051	0.018	0.42	0.19	0.12	0.13	<0.012	<0.042	0.0076	0.013	0.020	0.056			
Phenanthrene					0.26	0.021	5	1.3	1.2	<0.0048	0.65	0.26	3.1	0.42	1.2	0.80	0.42	1.1	0.21	0.18	0.46	0.20			
Pyrene		22600	54.54		0.42	0.057	6.9	1.5	1.5	<0.0068	0.84	0.49	3.7	0.54	1.5	1.1	0.66	1.5	0.39	0.33	0.82	0.28			
1-Methylnaphthalene					0.017	<0.01	0.69	0.078	0.29	<0.0083	0.067	0.025	0.67	0.18	0.099	0.16	<0.019	<0.066	<0.010	0.016	0.019	0.044			
2-Methylnaphthalene		3010			0.028	<0.0076	1.2	0.14	0.34	<0.0063	0.098	<0.018	0.85	0.33	0.17	0.22	<0.015	<0.050	0.010	0.032	0.031	0.081			
PCBs																									
PCB-1016	440000	28000			<0.041	<0.074	<0.078	<0.078	<0.074	<0.0059	<0.016	<0.018	<0.015	<0.059	<0.083	<0.0091	<0.014	<0.0094	<0.0071	<0.072	<0.067	<0.074			
PCB-1221	4400	883			<0.051	<0.092	<0.098	<0.098	<0.092	<0.0073	<0.020	<0.022	<0.018	<0.073	<0.10	<0.011	<0.017	<0.012	<0.0088	<0.090	<0.083	<0.092			
PCB-1232	2400	792			<0.051	<0.091	<0.097	<0.097	<0.091	<0.0072	<0.020	<0.022	<0.018	<0.073	<0.10	<0.011	<0.017	<0.012	<0.0087	<0.089	<0.082	<0.091			
PCB-1242	13000	972			<0.038	<0.069	<0.073	<0.073	<0.069	<0.0055	<0.015	<0.017	<0.013	<0.055	<0.077	<0.0085	<0.013	<0.0088	<0.0066	<0.067	<0.062	<0.069			
PCB-1248	13000	975			<0.046	<0.082	<0.087	<0.087	<0.082	<0.0065	<0.018	<0.020	<0.016	<0.066	<0.092	<0.010	<0.015	<0.011	<0.0079	<0.080	<0.075	<0.082			
PCB-1254	18000	988			<0.025	<0.045	<0.048	<0.048	<0.045	<0.0036	<0.010	<0.011	<0.0089	<0.036	<0.051	<0.0056	<0.0085	<0.0058	0.060	<0.044	<0.041	<0.045			
PCB-1260	28000	1000			<0.057	<0.1	<0.11	<0.11	<0.1	<0.0082	<0.023	<0.025	<0.020	<0.082	<0.12	<0.013	<0.019	<0.013	<0.0098	<0.10	<0.093	<0.10			
Metals																									
Arsenic	8	3900	3	0.584	1.7	0.79	4.4	4.1	4.6	0.48	3.0	2.3	5.5	3.1	4.7	2.2	2.6	2.9	1.2	1.6	1.8	3.7			
Mercury	0.89	46	3.13	0.208	4.6	0.28	0.37	0.32	5.5	<0.005	1.2	1.5	2.1	2.6	1.9	1.9	1.4	0.29	0.12	0.39	0.081	0.47			
Barium	1070	3000000	10000	164.4	48	21	540	240	340	8.6	310	150	350	190	430	100	160	96	39	63	84	160			
Cadmium	1	9300	985	0.752	0.5	0.24	1.7	1.1	1.5	0.13	1.5	0.77	1.5	2.4	1.5	0.41	0.67	0.48	0.33	0.43	0.61	0.58			
Chromium			360000		9.9	7.8	74	23	46	3.0	40	28	53	25	130	17	31	15	8.8	13	18	19			
Lead	37.7		800	27	71	150	760	480	300	1.4	160	47	240	600	570	96	57	190	64	150	210	630			
Selenium	0.858		5840	0.52	<0.77	<0.65	0.72	0.87	2.5	<0.56	2.9	3.0	2.4	1.2	1.5	<0.83	<1.3	<0.89	0.66	0.73	0.75	<0.68			
Silver			5840	0.849	<0.17	0.78	1.3	1.1	2.2	0.49	2.6	2.7	3.2	0.84	0.92	1.4	2.9	1.4	0.70	0.96	0.94	0.91			

NS- Not Sampled

 	Indicates an exceedance of soil-to-groundwater standards
 	Exceeds Dermal Contact Levels
 	Exceeds Vapor Intrusion Levels

Note: Final closure of BRRTS # 03-54-000405 was granted on October 26, 1999, subsequent to abandonment of the monitoring wells and implementation of a deed restriction filed with Rock County. The filing placed a groundwater use restriction on the deed for the Site (Rock County Register of Deeds, document number 1434932)."

Summary of Analytical Results - Dried Sediment-Soils

NR 718 Beneficial re-use exemption

Rock River Dredging project - former GM Assembly plant

Janesville, WI

Chemical	Background Concentrations	Vapor Intrusion Action Levels	Dermal Contact Action Levels	Soil-To-Groundwater Action Levels	Solid Sample #8	Solid Sample #9	Solid Sample #10	Solid Sample #11	Solid Sample #12	Solid Sample #13	Solid Sample #14	Solid Sample #15	Solid Sample #16	Solid Sample #17	Silha Clay	
					500 yds volume	500 yds volume	500 yds volume		500 yds volume	500 yds volume	500 yds volume	500 yds volume	500 yds volume	500 yds volume	500 yds volume	
					500-167373-6	500-167373-7	500-167373-8	500-167373-9	500-167373-10	500-167373-11	500-167373-12	500-167425-1	500-167425-2	500-167425-3	500-167425-4	
				7/25/2019	7/25/2019	7/25/2019	7/25/2019	7/25/2019	7/25/2019	7/25/2019	7/25/2019	7/26/2019	7/26/2019	7/26/2019	7/26/2019	
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Acenaphthene			45200		0.020	0.015	0.12	0.23	0.16	0.084	0.070	0.11	0.80	0.69	<0.0036	
Acenaphthylene					0.0099	0.0096	<0.048	0.095	0.010	<0.049	0.023	0.11	<0.070	<0.095	<0.0032	
Anthracene			100000	196	0.11	0.064	0.40	0.46	0.30	0.18	0.16	0.18	<0.089	1.9	<0.0032	
Benzo[a]anthracene		900	20.8		0.42	0.20	1.2	1.4	0.96	0.65	0.47	0.64	4.3	5.1	<0.00044	
Benzo[a]pyrene		12000	2.11	0.47	0.44	0.25	1.4	1.5	0.91	0.76	0.55	0.48	2.8	4.0	<0.00056	
Benzo[b]fluoranthene		28000	21.1	0.478	0.64	0.33	2.0	2.2	1.4	0.95	0.75	0.73	3.3	5.4	<0.00058	
Benzo[g,h,i]perylene					0.14	0.073	0.37	0.40	0.27	0.18	0.15	<0.19	0.83	1.2	<0.0042	
Benzo[k]fluoranthene		2800000	211		0.19	0.17	0.67	0.80	0.56	0.45	0.32	0.25	2.6	2.2	<0.00074	
Chrysene		28000000	2110	0.144	0.44	0.26	1.3	1.6	0.98	0.71	0.59	1.0	4.7	4.8	<0.0014	
Dibenz(a,h)anthracene		28000	2.11		0.046	0.022	0.11	0.13	0.088	<0.073	<0.065	<0.12	0.30	0.36	<0.00064	
Fluoranthene			30100	88.87	0.98	0.50	2.5	2.9	2.3	1.3	0.74	1.5	8.4	12	<0.0032	
Fluorene			30100	14.82	0.026	0.022	0.16	0.25	0.17	0.082	0.081	0.097	1.5	0.84	<0.0038	
Indeno[1,2,3-cd]pyrene		280000	21.1		0.16	0.081	0.44	0.54	0.28	0.29	0.24	0.22	0.85	1.2	<0.00084	
Naphthalene		17	24.1	0.658	0.031	0.041	0.11	0.58	0.069	0.093	0.16	<0.092	2.2	0.22	<0.0030	
Phenanthrene					0.45	0.28	1.6	2.4	1.7	0.83	0.65	1.0	9.3	6.4	<0.0035	
Pyrene			22600	54.54	0.78	0.40	2.3	2.8	1.8	1.2	0.91	1.5	7.0	9.1	<0.0048	
1-Methylnaphthalene					0.029	0.040	0.12	0.51	0.033	<0.092	0.15	0.20	3.7	0.25	<0.0050	
2-Methylnaphthalene			3010		0.051	0.072	0.18	0.91	0.044	0.13	0.26	0.33	4.5	0.33	<0.0013	
PCBs																
PCB-1016		440000	28000		<0.074	<0.060	<0.065	<0.076	<0.061	<0.067	<0.059	<0.11	<0.094	<0.13	<0.067	
PCB-1221		4400	883		<0.092	<0.074	<0.081	<0.095	<0.076	<0.083	<0.073	<0.13	<0.12	<0.16	<0.084	
PCB-1232		2400	792		<0.091	<0.074	<0.080	<0.094	<0.075	<0.083	<0.072	<0.13	<0.12	<0.16	<0.083	
PCB-1242		13000	972		<0.069	<0.056	<0.060	<0.071	<0.056	<0.062	<0.054	<0.10	<0.087	<0.12	<0.063	
PCB-1248		13000	975		<0.083	<0.067	<0.072	<0.085	<0.068	<0.075	<0.065	<0.12	<0.10	<0.14	<0.075	
PCB-1254		18000	988		<0.045	<0.036	<0.039	<0.046	0.16	<0.041	<0.036	<0.065	<0.057	<0.079	<0.041	
PCB-1260		28000	1000		<0.10	<0.083	<0.090	<0.11	<0.084	<0.093	<0.081	<0.15	<0.13	<0.18	<0.094	
Metals																
Arsenic	8	3900	3	0.584	1.8	1.6	4.0	3.9	0.97	1.8	3.8	9.4	13	7.4	5.1	
Mercury	0.89	46	3.13	0.208	0.62	0.35	0.33	3.4	0.13	0.50	1.4	2.8	5.4	0.89	0.012	
Barium	1070	3000000	10000	164.4	77	76	160	620	28	110	460	230	4000	470	93	
Cadmium	1	9300	985	0.752	0.42	0.31	0.89	0.88	0.29	0.53	0.81	1.1	9.9	2.4	0.21	
Chromium				360000	12	14	31	46	6.9	17	34	29	350	100	16	
Lead	37.7		800	27	320	200	720	490	17	170	710	370	2000	570	9.1	
Selenium	0.858		5840	0.52	<0.64	<0.51	0.73	0.83	<0.56	0.84	0.70	1.1	2.6	2.5	<0.62	
Silver			5840	0.849	0.72	0.71	0.95	0.96	0.87	0.99	0.83	2.3	1.6	2.2	3.2	

NS- Not Sampled

- Indicates an exceedance of soil-to-groundwater standards
- Exceeds Dermal Contact Levels
- Exceeds Vapor Intrusion Levels

Note: Final closure of BRRTS # 03-54-000405 was granted on October 26, 1999, subsequent to abandonment of the monitoring wells and implementation of a deed restriction filed with Rock County. The filing placed a groundwater use restriction on the deed for the Site (Rock County Register of Deeds, document number 1434932)."

**ASTM Leach Analysis
Results for Sediment**

Chemical	ASTM Leach Enforcement Standards	Pilot Test Leach Sample	Solid Sample #1 Leach	Solid Sample #3 Leach	NE Geo-Bag Sample #2 Leach	South Geo-Bag Sample #1 Leach	South Geo-Bag Sample #2 Leach	Solid Sample #4 Leach	Solid Sample #5 Leach
		500-150867-5	500-166406-1	500-166406-2	500-166667-3	500-166667-4	500-166667-5	500-166745-1	500-166745-2
		8/31/2018	7/9/2019	7/9/2019	7/11/2019	7/11/2019	7/11/2019	7/15/2019	7/15/2019
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Acenaphthene		<0.0072	<0.0036	<3.6	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036
Acenaphthylene		<0.0064	<0.0032	0.017	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032
Anthracene		<0.0064	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032
Benzo[a]anthracene		<0.0008	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044
Benzo[a]pyrene	0.0002	<0.0011	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056
Benzo[b]fluoranthene	0.0002	<0.0012	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058
Benzo[g,h,i]perylene		<0.0084	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
Benzo[k]fluoranthene		<0.0015	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074
Chrysene	0.0002	<0.0028	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
Dibenz(a,h)anthracene		<0.0013	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064
Fluoranthene		<0.0064	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032
Fluorene		<0.0076	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038
Indeno[1,2,3-cd]pyrene		<0.0017	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084
Naphthalene	0.1	0.022	<0.003	0.11	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Phenanthrene		<0.007	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
Pyrene	0.25	<0.0096	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
1-Methylnaphthalene		<0.001	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2-Methylnaphthalene		<0.0026	<0.0013	0.0019	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
PCBs									
PCB-1016		NS	NS	NS	NS	NS	NS	NS	NS
PCB-1221		NS	NS	NS	NS	NS	NS	NS	NS
PCB-1232		NS	NS	NS	NS	NS	NS	NS	NS
PCB-1242		NS	NS	NS	NS	NS	NS	NS	NS
PCB-1248		NS	NS	NS	NS	NS	NS	NS	NS
PCB-1254		NS	NS	NS	NS	NS	NS	NS	NS
PCB-1260		NS	NS	NS	NS	NS	NS	NS	NS
Metals									
Arsenic	0.01	0.0031	0.0036	0.005	0.0023	<0.0020	<0.0020	0.0091	0.0049
Mercury	0.002	<0.0002	<0.002	<0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Barium	2	<0.05	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium	0.005	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	0.1	<0.05	0.0085	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Lead	0.015	<0.002	0.022	0.0037	0.0025	<0.0020	<0.0020	0.0040	0.0073
Selenium	0.05	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010
Silver		<0.05	<0.05	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

NS- Not Sampled

Exceeds Criteria

ASTM Leach Analysis Results for Sediment

Chemical	ASTM Leach Enforcement Standards	Solid Sample #6 Leach	NE Geo-Bag Sample #3 Leach	Drying Bed Sample Leach	QC #1 Leach	QC #2 Leach	Solid Sample #1- 300 yds Leach	Solid Sample #2 Leach	Solid Sample #7 Leach	Solid Sample #8 Leach
		500-166966-2	500-166966-1	500-166966-3	500-167373-1	500-167373-2	500-167373-3	500-167373-4	500-167373-5	500-167373-6
		7/18/2019	7/18/2019	7/18/2019	7/24/2019	7/24/2019	7/25/2019	7/25/2019	7/25/2019	7/25/2019
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Acenaphthene		<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036
Acenaphthylene		<0.0032	<0.0032	<0.0032	0.0042	<0.0032	<0.0032	0.0089	0.0035	<0.0032
Anthracene		<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032
Benzo[a]anthracene		<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044
Benzo[a]pyrene	0.0002	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056
Benzo[b]fluoranthene	0.0002	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058
Benzo[g,h,i]perylene		<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
Benzo[k]fluoranthene		<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074
Chrysene	0.0002	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
Dibenz(a,h)anthracene		<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064
Fluoranthene		<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032
Fluorene		<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038
Indeno[1,2,3-cd]pyrene		<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084
Naphthalene	0.1	<0.0030	<0.0030	<0.0030	0.015	<0.0030	<0.0030	0.037	0.016	0.0096
Phenanthrene		<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
Pyrene	0.25	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
1-Methylnaphthalene		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2-Methylnaphthalene		<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0014	<0.0013	<0.0013
PCBs										
PCB-1016		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1221		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1232		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1242		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1248		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1254		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1260		NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals										
Arsenic	0.01	0.0038	0.0024	0.0036	0.0031	0.0023	0.0034	0.0053	0.0044	0.0039
Mercury	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Barium	2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	0.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.018	0.0050	0.0052
Lead	0.015	<0.0020	<0.0020	<0.0020	0.0033	0.0054	0.0054	0.049	0.011	0.012
Selenium	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

NS- Not Sampled

Exceeds Criteria

**ASTM Leach Analysis
Results for Sediment**

Chemical	ASTM Leach Enforcement Standards	Solid Sample #9 Leach	Solid Sample #10 Leach	Geo-Bag #1 Leach (Solid Sample #11 Leach in Lab Report)	Solid Sample #12 Leach	Solid Sample #13 Leach	Solid Sample #14 Leach	Solid Sample #15 Leach	Solid Sample #16 Leach	Solid Sample #17 Leach
		500-167373-7	500-167373-8	500-167373-9	500-167373-10	500-167373-11	500-167373-12	500-167425-1	500-167425-2	500-167425-3
		7/25/2019	7/25/2019	7/25/2019	7/25/2019	7/25/2019	7/25/2019	7/26/2019	7/26/2019	7/26/2019
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Acenaphthene		<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036
Acenaphthylene		<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032
Anthracene		<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032
Benzo[a]anthracene		<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044
Benzo[a]pyrene	0.0002	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056
Benzo[b]fluoranthene	0.0002	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058
Benzo[g,h,i]perylene		<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
Benzo[k]fluoranthene		<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074
Chrysene	0.0002	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
Dibenz(a,h)anthracene		<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064
Fluoranthene		<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032
Fluorene		<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038
Indeno[1,2,3-cd]pyrene		<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084
Naphthalene	0.1	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Phenanthrene		<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
Pyrene	0.25	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
1-Methylnaphthalene		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2-Methylnaphthalene		<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
PCBs										
PCB-1016		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1221		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1232		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1242		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1248		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1254		NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1260		NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals										
Arsenic	0.01	0.0047	0.0048	0.0055	0.0029	0.0052	0.0074	0.0096	0.0061	0.0054
Mercury	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Barium	2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.067	<0.050
Cadmium	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	0.1	0.0056	0.0058	0.0052	<0.0050	<0.0050	0.0078	<0.0050	<0.0050	<0.0050
Lead	0.015	0.012	0.011	0.013	0.0026	0.0055	0.021	0.013	0.011	0.0042
Selenium	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

NS- Not Sampled

Exceeds Criteria

ASTM Leach Analysis Results for Sediment

Chemical	ASTM Leach Enforcement Standards	Silha Clay Leach
		500-167425-4 7/26/2019
	mg/L	mg/L
Acenaphthene		<0.0036
Acenaphthylene		<0.0032
Anthracene		<0.0032
Benzo[a]anthracene		<0.00044
Benzo[a]pyrene	0.0002	<0.00056
Benzo[b]fluoranthene	0.0002	<0.00058
Benzo[g,h,i]perylene		<0.0042
Benzo[k]fluoranthene		<0.00074
Chrysene	0.0002	<0.0014
Dibenz(a,h)anthracene		<0.00064
Fluoranthene		<0.0032
Fluorene		<0.0038
Indeno[1,2,3-cd]pyrene		<0.00084
Naphthalene	0.1	<0.0030
Phenanthrene		<0.0035
Pyrene	0.25	<0.0048
1-Methylnaphthalene		<0.0050
2-Methylnaphthalene		<0.0013
PCBs		
PCB-1016		NS
PCB-1221		NS
PCB-1232		NS
PCB-1242		NS
PCB-1248		NS
PCB-1254		NS
PCB-1260		NS
Metals		
Arsenic	0.01	0.0033
Mercury	0.002	<0.00020
Barium	2	<0.050
Cadmium	0.005	<0.0010
Chromium	0.1	<0.0050
Lead	0.015	<0.0020
Selenium	0.05	<0.010
Silver		<0.0050

NS- Not Sampled

Exceeds Criteria

UCL Statistics for Uncensored Full Data Sets

User Selected Options

Date/Time of Computation ProUCL 5.18/5/2019 9:34:19 AM
 From File WorkSheet.xls
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Lead

ASTM Leach

0.0020
0.0220
 0.0037
 0.0025
 0.0020
 0.0020
 0.0040
 0.0073
 0.0020
 0.0020
 0.0020
 0.0033
 0.0054
0.0490
 0.0110
 0.0120
 0.0120
 0.0110
 0.0130
 0.0026
 0.0055
0.0210
 0.0130
 0.0110
 0.0042

General Statistics

Total Number of Observations 26 Number of Distinct Observations 16
 Number of Missing Observations 1
Minimum 0.002 Mean 0.00888
Maximum 0.049 Median 0.0054
SD 0.01 Std. Error of Mean 0.00196
Coefficient of Variation 1.126 Skewness 2.845

Normal GOF Test

Shapiro Wilk Test Statistic 0.675 Shapiro Wilk GOF Test
 5% Shapiro Wilk Critical Value 0.92 Data Not Normal at 5% Significance Level
 Lilliefors Test Statistic 0.246 Lilliefors GOF Test
 5% Lilliefors Critical Value 0.17 Data Not Normal at 5% Significance Level
 Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL 95% UCLs (Adjusted for Skewness)
 95% Student's-t UCL 0.0122 95% Adjusted-CLT UCL (Chen-1995) 0.0133
 95% Modified-t UCL (Johnson-1978) 0.0124

Gamma GOF Test

A-D Test Statistic 0.943 Anderson-Darling Gamma GOF Test
 5% A-D Critical Value 0.766 Data Not Gamma Distributed at 5% Significance Level
 K-S Test Statistic 0.159 Kolmogorov-Smirnov Gamma GOF Test
 5% K-S Critical Value 0.175 Detected data appear Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics

k hat (MLE) 1.319 k star (bias corrected MLE) 1.193
 Theta hat (MLE) 0.00673 Theta star (bias corrected MLE) 0.00745
 nu hat (MLE) 68.6 nu star (bias corrected) 62.02
 MLE Mean (bias corrected) 0.00888 MLE Sd (bias corrected) 0.00813
 Approximate Chi Square Value (0.05) 44.91
 Adjusted Level of Significance 0.0398 Adjusted Chi Square Value 43.94

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50) 0.0123 95% Adjusted Gamma UCL (use when n<50) 0.0125

Lognormal GOF Test

Shapiro Wilk Test Statistic 0.916 Shapiro Wilk Lognormal GOF Test
 5% Shapiro Wilk Critical Value 0.92 Data Not Lognormal at 5% Significance Level
 Lilliefors Test Statistic 0.144 Lilliefors Lognormal GOF Test
 5% Lilliefors Critical Value 0.17 Data appear Lognormal at 5% Significance Level
 Data appear Approximate Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data -6.215 Mean of logged Data -5.149
 Maximum of Logged Data -3.016 SD of logged Data 0.907

Assuming Lognormal Distribution

95% H-UCL 0.0135 90% Chebyshev (MVUE) UCL 0.0137
 95% Chebyshev (MVUE) UCL 0.016 97.5% Chebyshev (MVUE) UCL 0.0192
 99% Chebyshev (MVUE) UCL 0.0256

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution at 5% Significance Level

Nonparametric Distribution Free UCLs

95% CLT UCL 0.0121 95% Jackknife UCL 0.0122
 95% Standard Bootstrap UCL 0.0121 95% Bootstrap-t UCL 0.0147
 95% Hall's Bootstrap UCL 0.026 95% Percentile Bootstrap UCL 0.0122
 95% BCA Bootstrap UCL 0.0133
 90% Chebyshev(Mean, Sd) UCL 0.0148 95% Chebyshev(Mean, Sd) UCL 0.0174
 97.5% Chebyshev(Mean, Sd) UCL 0.0211 99% Chebyshev(Mean, Sd) UCL 0.0284

Suggested UCL to Use

95% Adjusted Gamma UCL 0.0125

When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test
 When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
 Recommendations are based upon data size, data distribution, and skewness.
 These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
 However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

AMENDED SOIL MANAGEMENT PLAN
ROCK RIVER SEDIMENT REMOVAL PROJECT
JANESVILLE, WISCONSIN
BRRTS Activity # 02-54-577951

Prepared For:

JAINES, LLC
1515 Des Peres Rd., Suite 300
St. Louis, MO 63131

Prepared By:



1515 Des Peres Rd, Suite 300
St. Louis, MO 63131
(314)835-1515

August 2019

BACKGROUND

The Former General Motors (GM) Assembly Plant (the Site) located in Janesville (Rock County), Wisconsin has been assigned WDNR Bureau for Remediation and Redevelopment Tracking System (BRRTS) Number (#) 02-54-577951. The property is currently zoned as M2 – General Industrial. The Site contains sediments impacted by contaminants of potential ecological concern (COPECs), including polycyclic aromatic hydrocarbons (PAHs), lead, mercury, and polychlorinated biphenyls (PCBs), that were identified near the Adjacent Outfall where storm water from the former GM plant discharged to the Rock River north of the substation along Delavan Drive in Janesville. Information regarding the sedimentation in this reach of the Rock River was initially reported in studies completed for the City as part of the Monterey Dam demolition planning (Inter-Fluve, Inc., 2015). Multiple site investigations and evaluations were subsequently conducted by GM as documented in the *Sediment Investigation Report* (GHD Report No. 21, May 2016), the *Rock River Site Investigation Report* (GHD Report No. 30, May 2017), and the *Remedial Action Options Report* (GHD Report No. 32, May 2017). Multiple lines of evidence from comprehensive studies of sediment quality impacts on local biological receptors were evaluated utilizing statistical methods and consensus-based guidance to assess potential ecological and human health exposure risks.

Sediments near the Adjacent Outfall are impacted by contaminants of potential ecological concern (COPECs), including PAHs, lead, mercury, and PCBs. Storm water from the former GM plant discharged to the Rock River via this outfall north of the substation along Delavan Drive. The RADR mitigates impacts near the outfall based upon the evaluation of potential risks to sediment-dwelling benthic invertebrates. It should be noted that GM reported no records of releases to stormwater and the contaminants identified near the outfall may have originated from other sources and not solely from historical GM operations. This document outlines the Soil Management Plan for the sediments that are to be removed during the dredging activities.

The RADR presented the project approach and objectives for removal of approximately 10,000 cubic yards of impacted sediment from a designated remedial action area (RAA) covering approximately two acres within the Rock River in the pool upstream from the Monterey Dam. Impacted sediment within the remedial action area shall be removed to refusal or one foot below the design surface, and a certified clean fill sand restorative layer placed over the RAA upon completion of the project.

The project includes hydraulically and/or mechanically dredging the impacted sediment and hydraulic conveyance of the sediment / river water slurry to the former GM plant for dewatering and treatment. The sediment slurry will be conveyed through a floating hose to temporary piping installed through the box culvert at the outfall and leading back to the diversion chamber located south of Delevan Drive at the former GM Site. The granular solids within the slurry will be removed by settling and discharged across a drying bed. The fluids containing fine-grained particles (concentrator supernatant) will be pumped into the large steel tank (#1) for additional solids removal by settling that may include polymerization. The water fraction will be pumped into the return water tank (#2). A fraction of the settled solids containing fine particles and organic matter will be filtered through geotextile tubes, with the ellutriant captured and recirculated to the settling tank.

Once removed from the drying bed, solids will be placed into segregated stockpiles located on concrete or asphalt and monitored using the paint-filter liquids test (PFLT) by ASTM 9095B, slump test, and/or field moisture content by the microwave method using paper cups. Once sufficiently dewatered for handling, dried sediments (i.e., soil) will be characterized for beneficial re-use onsite or final disposal offsite, in accordance with the Sampling and Analyses Plan and the Soil Management Plan described below. Five-point composite samples will be collected from each 500-cubic yard stockpile. Samples will be submitted to the laboratory and analyzed for the total concentrations of PAHs, PCBs, and metals. In addition, the water leach extraction procedure (ASTM Method 3987) will be followed and leachate analyzed for PAHs, PCBs, and metals. Initially, analytical results were requested on a rush turnaround time, typically 3-5 days (versus normal TAT of 10 days). The results are compared to the industrial RCLs and transmitted to DNR upon receipt along with EAG's management path for the material.

TCLP data that was provided in the General Motors Site Investigation that provides screening for the non-hazardous categorization of the sediment. Analytical results of the sediment samples obtained during the General Motors Site Investigation that were previously submitted to the WDNR are also attached.

The dredging activities are anticipated to be complete and dried sediments ready to move by the end of July, 2019 or sooner.

MANAGEMENT OF CONTAMINATED SOIL OR SOLID WASTES RECOVERED DURING REMEDIAL (RESPONSE) ACTIONS

It is requested that an exemption be granted in order to store and manage the dry sediment generated from this remedial action at the site which is not an operating licensed landfill (NR718.15). The Wisconsin DNR recommended format for exemption request is attached to this document. The information requested in Sections 3, 4, 5, 6, 8, 9, and 10 are included in this Soil Waste Management Plan.

STORAGE OF EXCAVATED CONTAMINATED SOIL

The dried sediment will be removed from the drying bed and stored within the sand stockpile dividers and characterized. Results of laboratory analyses will determine disposition for:

1. segregation, solidification and temporary storage before transportation and disposal offsite permitted landfill
2. transportation to the identified fill area to be capped, possibly with an impervious surface, and
3. transportation to the identified fill area to be capped with uncontaminated soil and revegetated

The final reuse locations are detailed on the attached Figures. A decision diagram is included. Efforts were made to characterize material as it was generated per the decision diagram.

In accordance with NR 718.05 (2), none of the stockpile or final reuse locations are within a flood plain. These locations are more than 100-feet from a wetland, 300-feet from a navigable river, stream, lake, pond, or flowage, and more than 300-feet from any water supply well. All stockpile and final reuse locations are more than 400-feet from the Rock River. Signs will be posted in the areas around the

drying beds that will include the name, address, and phone number of the owner or operation, the types of hazardous substances on the property, the WDNR issued site ID number, and the anticipated removal date.

The dried sediment will be placed in the sand stockpile dividers on an impervious base (concrete pavement). The slope of the pavement beneath the sand stockpile dividers drains to an existing stormwater inlet manhole that will be plugged to serve as a sump and pumped back into treatment Tank #1 to control surface water runoff. These soil piles will be covered at the end of each day.

Samples of the dried sediment within the sand stockpile dividers (approximately 500 cubic yard piles) will be collected and analyzed per the Sampling and Analyses Plan. Samples were collected from the first 100, 300 and 500 cys, and then every 500 cys thereafter. Samples are analyzed for the COPEC identified during the Rock River sediment investigation and compared to the industrial land use RCLs and groundwater Enforcement Standards in accordance with Wis. Stats. § 160 and Wis. Admin. Code § NR 140. The final reuse location for each stockpile will be determined based on the reported total concentrations and the concentrations in the water leach test procedure. A decision diagram is included with this Soil Management Plan.

Sampling will verify that no vapor intrusion would result from the placement of the contaminated soil and that all other pathways of concern at the site or facility (e.g, surface water and sediment) are protective of public health, safety, welfare and the environment. Soil with concentrations of COPCs that are not protective of industrial land use vapor intrusion criteria will be placed on plastic sheeting in the waste piles, solidified, permitted as non-hazardous waste, and offsite transportation to an appropriate disposal facility arranged. Manifests for the transportation and disposal of this material will be maintained by EAG and copies submitted to the WDNR with each weekly report.

Soil with concentrations that pass for industrial vapor intrusion criteria, but exceed direct contact levels and/or enforcement levels from the leach testing will be designated as beneficial reuse and taken to the adjacent JATCO (former GM Haul Away Yard) site where it will be placed in an excavated area that is approximately 200-wide and 300-feet long. The location of the area where the solid waste will be managed is presented on the attached map.

An impervious cap may be placed over beneficial reuse soils that are in exceedance of groundwater enforcement standards. This can act as an engineered barrier to prevent any groundwater contamination from mobilizing off-site if deemed essential. Clean native soils at the receiving Jatco location will be used to cover the remaining material that passes enforcement standards for groundwater criteria. The native soils cover will consist of approximately 2-feet of fill material consisting of clayey-silt and silty sand. Groundwater occurs deeper than 10 feet bgs. Groundwater flow is generally to the north-northwest toward the Rock River, which follows the general Site topography. A stormwater prevention plan will be attached to show how soil erosion runoff will be managed in accordance to the WPDES permit.

Any continuing obligations for maintenance beyond industrial land use and groundwater use restrictions will be identified in the remedial action completion report. A copy of the property deed with legal descriptions of the parcel(s) is attached to this document.

REPORTING

A report will be submitted to the WDNR detailing the volume of material characterized, the laboratory results for the samples, a comparison of results to the industrial soil residual concentration levels including vapor intrusion, dermal contact, soil-to-groundwater, and the groundwater Enforcement Standard (water leach test procedure) per Wisconsin Admin Code NR720 and Wis. Admin. Code § NR 140. This report will also detail the final reuse location for each stockpile based on the analytical results, comparisons to industrial standards, and the decision diagram included in this Soil Management Plan.

The weekly report will contain the following items for review and concurrence:

- Laboratory Reports
- Summary of Results
- Comparisons of Results to Industrial RCLs
- Final placement of soil


CONTINUING OBLIGATIONS

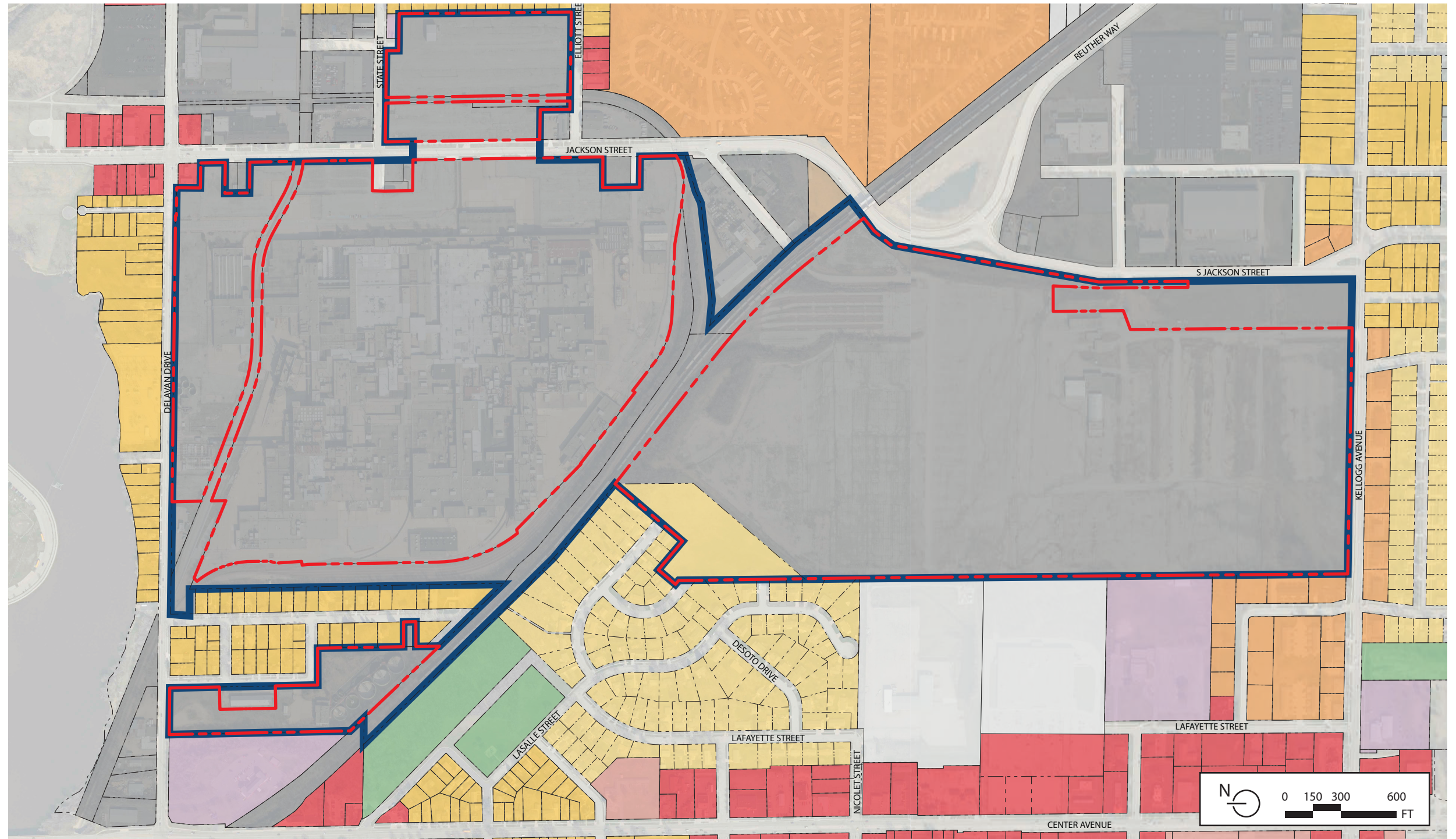
The cover overlying the contaminated soil will be inspected periodically and a minimum of once a year. The inspection will normally occur in the spring after all snow and ice is gone, for deterioration, erosion, settlement, and other potential problems that can cause exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented.

EXISTING ZONING

The project site is primarily zoned M2, General Industrial. The M2 industrial district is generally designed to accommodate manufacturing, production, storage, and general industrial activities in areas relatively remote from residential development or as otherwise allowed and designated in the Comprehensive Plan. The entire site falls within the South Jackson Overlay District, which was designed to ensure that industrial development of the Centennial Industrial Park is compatible with adjacent land uses and less intensive than would typically be permitted in the M2 District.

The zoning of the Centennial Industrial Park and adjacent properties is summarized in brief below. A full description of allowable uses can be found in the City's Code of Ordinances in Chapter 18.36: Zoning Districts & Maps.

 South Jackson Overlay District
The South Jackson Street Overlay (SJO) district was created specifically to guide the redevelopment of the former GM Assembly Plant and maximize its positive impact on the surrounding community. The boundaries of the 300 acre SJO district encompass all of the parcels in the Centennial Industrial Park. Generally, the SJO requires that all future use, adaptive reuse, or redevelopment within the district be approved under the Planned Unit Development Process. A full description of the SJO can be found in the City of Janesville's Code of Ordinances 18.36.070 (4).



 M1: Light Industrial

Designed for industrial activities that require and contribute to a pleasant, hazard, and nuisance-free environment. No residential uses permitted.

 O1: Office/Residence District

Single and two family residences, apartment buildings, offices, civic uses like museums and libraries, health care, education, religious buildings, and open space.

 B2: Community Shopping District

Designed to provide for a large consumer population; generally located along major commercial arterials. Residential uses primarily limited to second floor.

 R1: Single & Two-Family Residence

Low density, single family residences with limited two-family dwellings allowed by conditional use. Parks, open spaces, schools, and churches are also permitted.

 R3: General Residence District


All uses permitted in R1 and R2, as well as two-family and multiple family dwellings, mobile homes, college residence halls, nursing homes, museums, and cemeteries.

 M2: General Industrial

Designed for heavier industrial activities and manufacturing that may produce moderate nuisances or hazards. No residential use permitted.

 C: Conservancy District

Preserves designated areas as open space in perpetuity. Land uses may include rivers and drainageways, wetlands, floodplains, greenbelts, natural areas, or other beneficial green spaces.

 B3: General Commercial District

Intended for motorist-oriented commercial activities with large service areas. Generally located along major commercial arterials. Residential uses primarily limited to second floor.

 R2: Limited General Residence

All uses permitted in R1, as well as smaller lots and a higher density of single and two family residential dwellings.

REDEVELOPMENT CONCEPT

Three concept alternatives were reviewed by the owner, project stakeholders, and the City of Janesville. The preferred concept shown on this page was developed based on feedback from City representatives and stakeholders.

Site Statistics

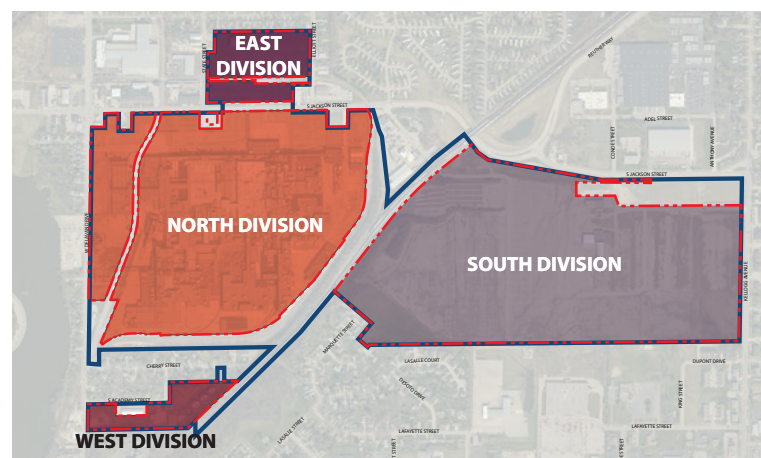
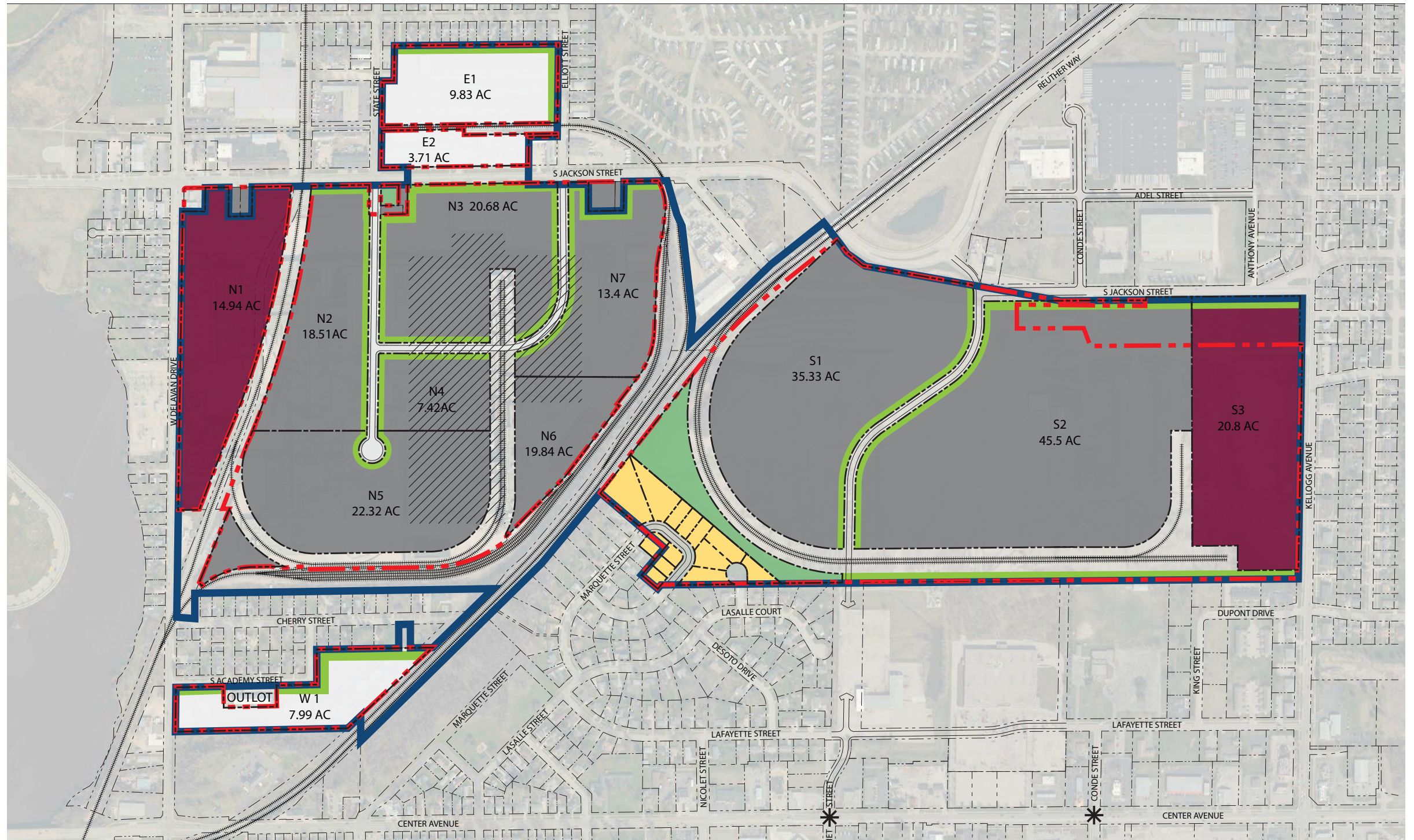
- 13 total lots
- 10 mid to large-size lots ranging from 7.42-72.65 AC in the Northern and Southern Divisions.
- Average parcel size of 20.5 AC.
- Mixed use (Transitional) land use on the northern border of the North Division and the southern border of the South Division.
- Land between Joliet and Conde streets re-purposed for light industrial uses.
- Conservancy district provided between the Union Pacific Rail spur in the South Division and new residential lots.

Rail

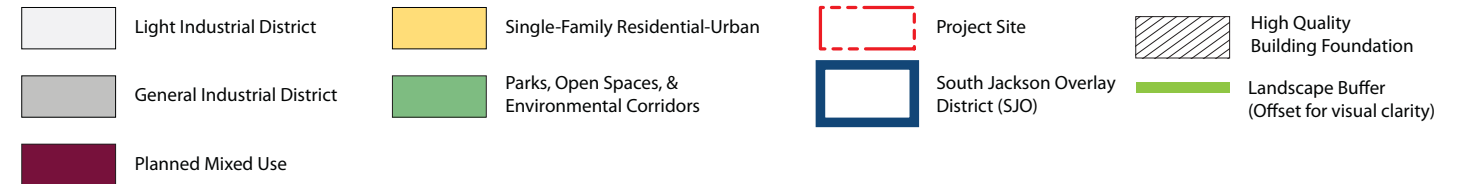
- 12 parcels with rail access.
- Realigned WATCO rail line through Northern District to create a larger more functional lot between W Delavan Drive and the WATCO rail line.
- Proposed WATCO rail spur in the North Division.
- Proposed Union Pacific rail spur in the South Division.

Circulation

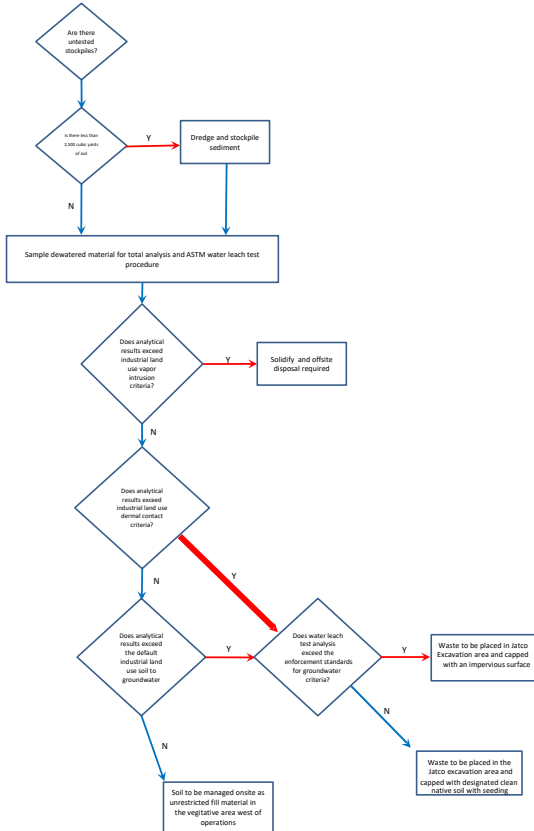
- Possible new street extending east from Joliet Street would provide direct circulation through the site to Jackson Street from Center Avenue to Reuther Way.
- Connect Lafayette St. between Joliet and Conde Streets.
- No through-access provided from the site's southern border along Kellogg Ave
- Internal circulation provided in the North Division, aligned with State and Elliot streets.



Future Land Use



SOIL WASTEMANAGEMENT PLAN - DECISION DIAGRAM
1000 GENERAL MOTORS DRIVE
JANESVILLE, WISCONSIN





VIA EMAIL

June 6, 2017

Kim D. Tucker-Billingslea
General Motors, LLC – GEC & S Remediation Team
30400 Mount Rd., WTC Mfg. B MC:480-109-MB1, Off: 1 AP23
Warren, MI 48092

Subject: Remaining Actions Needed
GM Haul Away Yard, Former, 544 Kellogg Avenue, Janesville, Wisconsin
DNR BRRTS Activity # 02-54-56081

Dear Ms. Tucker-Billingslea:

On June 1, 2017 the South Central Region Closure Committee (Closure Committee) reviewed your request for closure of the case described above. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. The following actions are needed to complete our review of your request. Upon completion of these actions, closure approval will be provided.

Remaining Actions Needed

Monitoring Well Abandonment

The monitoring wells at the site must be properly abandoned in accordance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment for all wells must be submitted to Jason Lowery on Form 3300-005, found at <http://dnr.wi.gov/topic/groundwater/forms.html>.

Additional Figures

Due to the relatively large amount of data collected from a small area within the Tank L basin, we would like you to incorporate figures specifically associated with the Tank L basin (1st, 2nd, and 4th figures that you submitted to us separately on April 25, 2017) into the closure package.

Documentation

When the required actions have been completed, submit the appropriate documentation **within 60 days of the date of this letter**, to verify their completion. At that point, your closure request can be approved and your case can be closed.

Submit all changes to the original closure request in one final, complete compact disk. For the paper copy, only revisions or updates need to be submitted. The submittal of both an electronic and paper copy are required in accordance with s. NR 726.09 (1), Wis. Adm. Code.

GIS Registry

Your site will be listed on the DNR Remediation and Redevelopment Program's GIS Registry, to provide public notice of remaining contamination and continuing obligations. The continuing obligations will be specified in the final closure approval. Information that was submitted with your closure request application will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web), at <http://dnr.wi.gov/topic/Brownfields/rasm.html>.

In Conclusion

We appreciate your efforts to restore the environment at this site. This remedial action project is nearing completion. I look forward to working with you to complete all remaining actions that are necessary to achieve closure.

If you have any questions regarding this letter, please contact the project manager, Jason Lowery, at (608) 267-7570, or by email at jason.lowery@wisconsin.gov.

Sincerely,



Steve L. Martin
Team Supervisor, South Central Region
Remediation & Redevelopment Program

cc: Mauricio Barrera and Glenn Turchan, GHD (email)

SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

Notice: Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. 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.). Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided.

Site Information			
BRRTS No.	VPLE No.		
02-54-560181			
Parcel ID No.			
04-12-100149			
FID No.	WTM Coordinates		
154062810	X 600093.3	Y 242805.1	
BRRTS Activity (Site) Name	WTM Coordinates Represent:		
Former Haul-Away Yard	<input checked="" type="checkbox"/> Source Area <input type="checkbox"/> Parcel Center		
Site Address	City	State	ZIP Code
544 Kellogg Avenue	Janesville	WI	53546
Acres Ready For Use	139		

Responsible Party (RP) Name	General Motors, LLC - GEC&S-Remediation Team		
Company Name			

Mailing Address	City	State	ZIP Code
30400 Van Dyke VEC - East 5th Floor	Warren	MI	48093
Phone Number	Email		
(248) 255-2797	kim.tucker-billingslea@gm.com		

Check here if the RP is the owner of the source property.

Environmental Consultant Name	Mauricio Barrera		
Consulting Firm	GHD Inc (formerly CRA)		
Mailing Address	City	State	ZIP Code
14496 Sheldon Rd, Suite 200	Plymouth	MI	48170
Phone Number	Email		
(519) 884-0510	mauricio.barrera@ghd.com		

Fees and Mailing of Closure Request

- Send a copy of page one** of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR Regional EPA (Environmental Program Associate) at <http://dnr.wi.gov/topic/Brownfields/Contact.html#tabx3>. Check all fees that apply:

<input type="checkbox"/> \$1,050 Closure Fee	<input type="checkbox"/> \$300 Database Fee for Soil
<input type="checkbox"/> \$350 Database Fee for Groundwater or Monitoring Wells (Not Abandoned)	Total Amount of Payment \$ _____
	<input checked="" type="checkbox"/> Resubmittal, Fees Previously Paid
- Send one paper copy and one e-copy on compact disk of the entire closure package** to the Regional Project Manager assigned to your site. Submit as *unbound, separate documents* in the order and with the titles prescribed by this form. For electronic document submittal requirements, see <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

Site Summary

If any portion of the Site Summary Section is not relevant to the case closure request, you must fully explain the reasons why in the relevant section of the form. All information submitted shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected.

1. General Site Information and Site History

- A. Site Location: Describe the physical location of the site, both generally and specific to its immediate surroundings.

The Former Haul-Away Yard (a.k.a. Former Allied Systems Ltd) is located at 544 Kellogg Avenue in Janesville, Rock County, Wisconsin (Site). The Site is located across the following quarter sections: SE 1/4, SW 1/4, S1, T2N, R12E; SW 1/4, SE 1/4, S1, T2N, R12E; NE 1/4, NW 1/4, S12, T2N, R12E; SE 1/4, NW 1/4, S12, T2N, R12E; and NW 1/4, NE 1/4, S12, T2N, R12E. The Site is owned by General Motors LLC (GM).

The Site Location Map is presented on Figure B.1.a and the Detailed Site Map is presented on Figures B.1.b.1 and B.1.b.2 in Attachment B. The Site comprises approximately 139 acres. The Site is bordered to the north by the Chicago and Northwestern railroad line and beyond by Abitec Corporation (provider of specialty fats and oils to industry), and the former GM Janesville Assembly Plant. The Site is bordered to the east by a large soil pile and stormwater detention pond (the soil pile was generated from construction of the detention pond by the City of Janesville) and South Jackson Street, with several commercial facilities located beyond (including an unnamed junkyard, PPG Industrial Coatings, and Border States Electrical Supply). The Site is bordered to the south by Kellogg Avenue with residential properties located beyond. The Site is bordered to the west by residential properties and several commercial facilities located beyond (including Monroe Truck Equipment, Pick N Save Plaza, and a former United Auto Workers [UAW] training center).

- B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.

The Site was formerly occupied by Allied Automotive Systems (Allied). The Site was acquired by GM on May 13, 2005 and leased back to Allied from the purchase date until the end of 2010. Allied used the property as an automotive hauling business and for the repair and maintenance of semi tractors and trailers. The Site is occupied by eight buildings including the main Site building (also referred to as the West Shop), the East Shop, a former remediation shed, a fuel island building, two sheds, and a guard shack. The remainder of the Site consists of asphalt paved areas, landscaped and vegetated areas, and gravel areas, situated on relatively flat terrain with gentle slope to the east (see Figures B.1.a, B.1.b.1 and B.1.b.2 in Attachment B). The Site has a perimeter security fence. The Site was developed for the purpose of storing GM product vehicles and the maintenance of semi tractors and trailers in 1956, and has been owned by various entities since development. Based on available historical information, prior to Site development in 1956, the Site was utilized as cultivated land. The Site is currently vacant.

- C. Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).

According to the City of Janesville Planning Services Zoning Map, dated September 9, 2014, the Site is zoned M2 - General Industrial. A copy of the City of Janesville Zoning Map is included as Attachment F.3.

- D. Describe how and when site contamination was discovered.

In February 2010, CRA (now GHD) conducted a subsurface investigation at the Site and 13 soil borings (SB-1-10 through SB-13-10) were advanced to depths ranging between 20 and 70 feet (ft) below ground surface (bgs). Soil boring locations are presented on Figure B.1.b.2 in Attachment B. The soil borings were advanced to evaluate potential environmental impairment to the Site associated with current and historical operations, including potential releases from non-sanitary wastewater discharges, material storage, and current and historical operations associated with the Site buildings, the used oil aboveground storage tank (AST), an existing underground storage tank (UST) and dispenser island, and former and closed-in-place USTs. Based on field observations, evidence of impact (elevated photoionization detector [PID] readings and odors) was observed in shallow soils (generally from 0 to 2.5 ft bgs) in soil borings SB-8-10 and SB-9-10, located south-southwest of the main Site building. Based on laboratory analytical results, Total Petroleum Hydrocarbons (TPH) as Diesel Range Organics (DRO) and TPH as Gasoline Range Organics (GRO) were detected above the Chapter (ch.) NR 720, Wisconsin Administrative Code (Wis. Adm. Code) Generic Residual Contaminant Levels (RCLs) in the shallow soil samples collected from soil borings SB-8-10 and SB-9-10. Naphthalene was detected above the Wisconsin Department of Natural Resources (WDNR) Bureau of Remediation and Redevelopment Publication RR-519-97, "Soil Cleanup Levels for Polycyclic Aromatic Hydrocarbons (PAHs)" (RR-519-97 Soil Cleanup Levels) in the shallow soil sample collected from soil boring SB-8-10.

- E. Describe the type(s) and source(s) or suspected source(s) of contamination.

Based on available information, 26 USTs were formerly used at the Site. At the time of the 2010 subsurface investigation, 13 of the 26 USTs were closed-in-place (Tanks A through M) and registered as "closed" on the Wisconsin Department of Safety and Professional Services (WDSPS) UST Database. Based on available information, the WDNR approved closure-in-place for at least 12 (Tanks A through K, and Tank M) of the 13 closed-in-place USTs. Residual soil contamination was identified at the time of closure in 10 of the 13 closed-in-place USTs, which is further discussed in Section 3.A.i.

- F. Other relevant site description information (or enter Not Applicable).

No surface water bodies are present on the Site. No surface water bodies were observed on Site in the available historical

aerial photographs or topographic maps reviewed. A stormwater detention pond is located adjacent to the southeast portion of the Site. No other surface water bodies are located adjacent to the Site. The next nearest surface water body is the Rock River, located approximately one mile north of the Site, and a tributary of the Rock River is located approximately one mile south-southeast of the Site. No environmentally sensitive areas are known to exist on the Site. An area of cattails and grass is present in the southwest corner of the Site and an area of brush and trees is present along the railroad load-out area in the northern portion of the Site. Based on data obtained from the Federal Emergency Management Agency (FEMA) and reviewed by Environmental Data Resources, Inc. (EDR), the Site is not within the 100-year or 500-year flood zones.

- G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases.
- 1) Bureau for Remediation and Redevelopment Tracking System (BRRTS) Number (#) 02-54-560181 GM Haul Away Yard Former, Type-Status: ERP - Open
 - 2) BRRTS # 03-54-560180 Allied Systems Former Diesel UST, Type-Status: Lust - Closed
 - 3) 03-54-000405 Complete Auto Transport, Type-Status: Lust - Open
- H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property. According to the WDNR BRRTS on the Web database, the northern and downgradient adjacent property Abitec Corporation (Activity Name: Abitec Corp and/or 1530 S Jackson St) located at 1530 South Jackson Street, was listed as having seven closed spill cases (BRRTS# 04-54-044256, 04-54-052491, 04-54-190516, 04-54-544046, 04-54-548079, 04-54-547816, and 04-54-554100) occurring over the period between December 4, 1989 and September 3, 2009, in addition to a closed LUST case (BRRTS# 03-54-001898, Activity Name: Karl Shamn USA) occurring over the period between June 14, 1993 and January 21, 1994.

According to the WDNR BRRTS on the Web database, the northern and downgradient adjacent property (GM Janesville Assembly Plant) located at 1000 General Motors Drive, was listed as having 26 BRRTS #s (25 closed, 1 open) which are listed below:

1. BRRTS # 04-54-038385 Industrial Dr & Delavan Dr (June 26, 1981 - June 29, 1981) Spill - Closed
2. BRRTS # 04-54-051690 General Motors (GM) - Paint Dept (October 2, 1983 - October 14, 1983) Spill - Closed
3. BRRTS # 04-54-040128 General Motors (GM) (January 28, 1985 - February 1, 1985) Spill - Closed
4. BRRTS # 04-54-040743 General Motors (GM) (December 3, 1985 - December 10, 1985) Spill - Closed
5. BRRTS # 04-54-041738 General Motors (GM) (February 17, 1987 - February 18, 1987) Spill - Closed
6. BRRTS # 04-54-042083 General Motors (GM) (July 7, 1987 - August 28, 1987) Spill - Closed
7. BRRTS # 04-54-042126 General Motors (GM) (July 20, 1987 - July 21, 1987) Spill - Closed
8. BRRTS # 04-54-042803 General Motors (GM) (May 31, 1988 - June 2, 1988) Spill - Closed
9. BRRTS # 04-54-042949 General Motors (GM) (July 22, 1988 - July 26, 1988) Spill - Closed
10. BRRTS # 02-54-000981 General Motors (GM) - Boc Tank Farm (August 15, 1988 - February 2, 1989) ERP - Closed
11. BRRTS # 04-54-043568 General Motors (GM) (April 12, 1989 - April 27, 1989) Spill - Closed
12. BRRTS # 04-54-052617 General Motors (GM) (September 18, 1989 - September 20, 1989) Spill - Closed
13. BRRTS # 03-54-000782 General Motors (GM) (April 16, 1991 - September 1, 1993) LUST - Closed
14. BRRTS # 03-54-001063 Bobos Tavern (July 23, 1991 - August 26, 1996) LUST - Closed
15. BRRTS # 04-54-047174 General Motors (GM) - Tank Farm (May 22, 1992 - May 22, 1992) Spill - Closed
16. BRRTS # 03-54-001652 Condon Property (June 12, 1992 - January 24, 1994) LUST - Closed
17. BRRTS # 02-54-270694 General Motors (GM) Corp (January 11, 1994 - May 9, 2003) ERP - Closed
18. BRRTS # 04-54-049366 General Motors (GM) (March 8, 1994 - March 11, 1994) Spill - Closed
19. BRRTS # 03-54-002842 General Motors (GM) Corp (September 17, 1996 - February 4, 1997) LUST - Closed
20. BRRTS # 02-54-225757 General Motors (GM) - Conveyor Pit (June 7, 1999 - July 19, 1999) ERP - Closed
21. BRRTS # 04-54-284199 General Motors (GM) - Tank Farm (November 11, 2001 - November 26, 2001) Spill
22. BRRTS # 04-54-408417 General Motors (GM) (August 17, 2002 To August 30, 2002) Spill
23. BRRTS # 04-54-506277 General Motors (GM) - Storm Water Outfall (July 8, 2003 - July 10, 2003) Spill
24. BRRTS # 04-54-550501 General Motors (GM) Spill (October 16, 2007 - November 9, 2007) Spill - Closed
25. BRRTS # 04-54-555156 General Motors (GM) Plant Spill (March 29, 2010 - April 5, 2010) Spill - Closed
26. BRRTS # 02-54-560205 General Motors (GM) Property (February 15, 2013 - Present) ERP - Open

Based on a review of available information, no off-Site sources of contamination have been identified and identified contamination on Site has not migrated beyond Site boundaries.

2. General Site Conditions

A. Soil/Geology

- i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.

Site soil types consist of silt loam soils, which are moderately coarse in texture. Based on soil borings advanced at the Site, the uppermost materials beneath the surface concrete or asphalt pavement were generally sand with fine to coarse grained gravel or gravel to depths of 80 ft bgs, alternating with clay or sandy or silty clay at depths of 0 ft bgs to 18 ft

bgs and thicknesses ranging from 0 ft to 13 ft. Silt was encountered at depths of 0 ft bgs to 14.8 ft bgs and thicknesses ranging from 0.1 ft to 4 ft. Scattered areas of fill material were also encountered across the Site in areas of former USTs. Soil stratigraphy is presented on the cross sections included in Attachment B (Figures B.3.a.1 through B.3.a.4).

- ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
Scattered areas of fill material were encountered across the Site at depths ranging from 0 ft bgs to 9 ft bgs. Fill materials consisted mostly of sand, with the exception of asphalt and concrete chips at the location of soil boring SB-2-12. The thickness of fill materials encountered at the Site ranged from 0 ft to 9 ft. The location of fill materials coincides with approximate excavation areas of former USTs. The locations of the former USTs are presented on Figure B.1.b.2 in Attachment B. No waste deposits are present on Site.
- iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.
Based on information reviewed, bedrock underlying the Site consists of sandstone or carbonate of the Paleozoic Era Cambrian System Cambrian Series. Based on information in previous reports reviewed, the bedrock is anticipated to be 100 to 300 ft deep. Bedrock was not encountered during any of the subsurface investigations.
- iv. Describe the nature and locations of current surface cover(s) across the site (e.g., natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).
There are eight unoccupied buildings at the Site, including the main Site building (also referred to as the West Shop), the East Shop, a former remediation shed, a fuel island building, two sheds, and a guard shack. The remainder of the Site consists of asphalt paved areas, landscaped and vegetated areas, and gravel areas, situated on relatively flat terrain with gentle slope to the east (see Figures B.1.a, B.1.b.1 and B.1.b.2 in Attachment B).

B. Groundwater

- i. Discuss depth to groundwater and piezometric elevations. Describe and explain depth variations, including high and low water table elevation and whether free product affects measurement of water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.

Groundwater elevations measured at monitoring wells MW-1-12, MW-2-12, MW-3-12, and MW-1-16 between 2012 and 2016 are summarized in Table A.6 included in Attachment A. Depth to groundwater ranged from 61.33 ft bgs to 69.53 ft bgs.

Water elevations ranged from 766.48 ft above mean sea level (AMSL) to 767.5 ft AMSL. Free product was not encountered in any of the wells. Monitoring wells were screened in sand and/or sand and gravel.

- ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.
The approximate groundwater flow direction is expected to be to the north and north-northwest toward the Rock River. According to groundwater elevations measured by Montgomery Watson on February 18, 1999 (see Figure B.3.c.1 in Attachment B), from monitoring wells previously installed at the Site in association with BRRTS # 03-54-000405, groundwater was reported to flow in a northwesterly direction. All monitoring wells associated with BRRTS # 03-54-000405 have been abandoned. Based on water levels collected on September 22, 2016 from the existing monitoring wells at the Site (MW 1 12, MW 2 12, MW 3 12, and MW-1-16), groundwater flow direction was generally consistent with observations made during previous investigations (see Figure B.3.c.2 in Attachment B).
- iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.
According to data collected from monitoring wells installed at the Site by Warzyn in 1991, groundwater flow was reported to flow in a north-northwesterly direction and the hydraulic conductivity of the sand ranged from 1.7×10^2 centimeters per second (cm/s) to 5.2×10^2 cm/s.
- iv. Identify and describe locations/distance of potable and/or municipal wells within 1200 feet of the site. Include general summary of well construction (geology, depth of casing, depth of screened or open interval).
The Site is provided with municipal water by the City of Janesville. No potable groundwater wells are present on Site. In addition, there is a groundwater use restriction in place at the Site associated with BRRTS # 03-54-000405. Final closure of BRRTS # 03-54-000405 was granted on October 26, 1999, subsequent to abandonment of the monitoring wells and implementation of a deed restriction filed with Rock County. The filing placed a groundwater use restriction on the deed for the Site (Rock County Register of Deeds, document number 1434932).

CRA conducted an online search to identify the potential presence of private wells located within approximately 1 mile of the Site and adjacent northern property (Former GM Assembly Plant), which includes the following Sections:

- * Section 35, Township 3N Range 12E (northwest)
- * Section 36, Township 3N, Range 12E (north)
- * Section 31, Township 3N, Range 13E (northeast)

- * Section 2, Township 2N, Range 12E (northwest)
- * Section 1, Township 2N, Range 12E (north and north portion of the Site)
- * Section 6, Township 2N, Range 13E (east/northeast)
- * Section 11, Township 2N, Range 12E (west/southwest)
- * Section 12, Township 2N, Range 12E (south and south portion of the Site)
- * Section 7, Township 2N, Range 13E (east/southeast)

The following online databases were searched:

- * Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) Well Construction Reports (WCRs) (1936 to 1989)
- * WDNR Drinking Water System WCRs (1988 to current)
- * WDNR Drinking Water System: High Capacity Wells
- * WDNR Well Filling and Sealing Reports System

In addition, locations of high capacity wells were confirmed through various correspondence (email and telephone) with WDNR personnel.

A total of 84 WCRs were identified in the DATCP WCR database. It should be noted that the well locations are mapped in the database to the centroid of either a section, quarter section, or quarter-quarter section as recorded on the original WCR. Locations are not field verified. Locations were refined by address or proximity to a named landmark where possible. Four records were identified in the WDNR Drinking Water System WCRs database. Twenty high capacity wells were identified based on the information provided in the WDNR Drinking Water System: High Capacity Wells database and correspondence received from the WDNR. Of these 20 records, six were identified in the database as abandoned, two were identified as inactive, and eight are water supply wells for the City of Janesville. A total of 29 abandonment records were identified in the WDNR Well Filling and Sealing Reports System database. One of these was matched to a high capacity well marked as abandoned in the WDNR Drinking Water System: High Capacity Wells database. None of the other abandonment records were matched to either high capacity wells or private wells in the other databases listed above. Wells located within an approximate one-mile radius of the Site are presented on Figure B.1.a located in Attachment B.

The closest identified high capacity well (BG786) is approximately 2,800 ft northeast of the Site. The owner of the well is listed as Gillman Center, LLC. The well name was identified as "cooling water".

A total of 15 private wells were identified within 1,200 ft of the Site and are listed below:

- R03099, R03104, R03105, R03112, R03114, R03119, and R03478 located approximately 200 ft southeast (upgradient) of the Site
- R03115 and R03116 located approximately 600 ft east (cross-gradient) of the Site
- R03102 and R03103 located approximately 750 ft southeast (upgradient) of the Site
- R03110 located approximately 800 ft south (upgradient) of the Site
- R03113 located approximately 1000 ft southeast (upgradient) of the Site
- R03117 located approximately 1000 ft east (upgradient) of the Site
- R03109 located approximately 1200 ft southwest (cross-gradient) of the Site No wells were identified downgradient and within 1,200 ft of the Site.

3. Site Investigation Summary

A. General

- i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.

Based on available information, 26 USTs were formerly used at the Site. The locations of 25 (Tanks A through M, and Tanks O through Z) of the 26 former USTs are presented on Figure B.1.b.2 in Attachment B. An additional UST was listed as closed/removed on the WDSPS UST Database; however, the former location and details regarding closure of this UST are unknown. A summary of the available closure information and removal activities conducted at the Site associated with the 26 USTs was presented in the Site Investigation Work Plan, prepared by CRA on behalf of GM and dated May 13, 2013 (Work Plan). The Work Plan was submitted to the WDNR on May 14, 2013 and subsequently approved on June 10, 2013. The Work Plan covered activities associated with BRRTS # 02-54-560181 (this case closure package) and BRRTS# 03-54-000405. The area encompassing BRRTS# 03-54-000405 is presented on Figure B.1.b.2 included in Attachment B.

In February 2010, CRA conducted a subsurface investigation at the Site which included the advancement of 13 soil borings (SB-1-10 through SB-13-10) to depths ranging between 20 and 70 ft bgs and associated soil sampling.

Additional information regarding the 2010 subsurface investigation was presented in Section 1.3.2 of the Work Plan.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Allied Systems / Former Haul-Away Yard	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-3-12
Facility License, Permit or Monitoring No. N/A	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or	Wis. Unique Well No. VM585 DNR Well Number 585
Facility ID 154062810	St. Plane 258,480 ft. N, 493,289 ft. E. S/C/N	Date Well Installed 06/07/2012
Type of Well Well Code 11/mw	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 12, T. 2 N, R. 12 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Don Tonnancour
Distance from Waste/Source 60 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number
Enf. Stds. Apply <input type="checkbox"/>		Major Drilling

A. Protective pipe, top elevation	836.00 ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	835.73 ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	836.0 ft. MSL	a. Inside diameter:	8.0 in.
D. Surface seal, bottom	836.0 ft. MSL or 1.0 ft.	b. Length:	1.0 ft.
		c. Material:	Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen:		d. Additional protection?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input checked="" type="checkbox"/>		If yes, describe:	flushmount 8" road box
SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>		3. Surface seal:	Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe:	Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis attached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal:	a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. 50 % Bentonite . . . Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used:	Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 ROTOSONIC <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/>	6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used:	Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size	a. _____ b. Volume added _____ ft ³
16. Drilling additives used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Filter pack material: Manufacturer, product name & mesh size	a. #2 Sand b. Volume added 1.6 ft ³
Describe _____		9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required):	Potable	10. Screen material:	PVC a. Screen Type: Factory cut <input type="checkbox"/> 11 Continuous slot <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
E. Bentonite seal, top	836.0 ft. MSL or 57.9 ft.	b. Manufacturer _____	c. Slot size: 0.010 in. d. Slotted length: 10.5 ft.
F. Fine sand, top	836.0 ft. MSL or 63.0 ft.	11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 14 Bentonite Chips <input type="checkbox"/>
G. Filter pack, top	836.0 ft. MSL or 65.2 ft.		
H. Screen joint, top	836.0 ft. MSL or 67.5 ft.		
I. Well bottom	836.0 ft. MSL or 80.0 ft.		
J. Filter pack, bottom	836.0 ft. MSL or 78.0 ft.		
K. Borehole, bottom	836.0 ft. MSL or 80.0 ft.		
L. Borehole, diameter	6.0 in.		
M. O.D. well casing	2.00 in.		
N. I.D. well casing	2.00 in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *Marta Thompson*

Firm: Conestoga-Rovers & Associates

Tel:
Fax:

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allied Systems / Former Haul-Away Yard	County Rock	Well Name MW-1-12	
Facility License, Permit or Monitoring Number N/A	County Code 54	Wis. Unique Well Number VM586	DNR Well Number 586

1. Can this well be purged dry? Yes No

2. Well development method:
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed, and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - other ████

3. Time spent developing well _____ min.

4. Depth of well (from top of well casing) _____ ft.

5. Inside diameter of well _____ 71.4 in.

6. Volume of water in filter pack and well casing _____ 1.1 gal.

7. Volume of water removed from well _____ 25.0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 64.70 ft.	ft.
Date	b. 6/9/2012	
Time	c. 12:00 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) 398 NTU, Brown	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) 9.3 NTU, Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Person's Name and Firm

Rob Redman
Conestoga-Rovers & Associates

Facility Address or Owner/Responsible Party Address

Name: Former Haul Away Yard/ Allied Systems Ltd

Firm: GM LLC

Street: 300 Renaissance Center M/C: 482-30C-96C

City/State/Zip: Detroit, Michigan 48265

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: *Martha Thompson*

Print Name: MARTHA F. THOMPSON

Firm: Conestoga-Rovers & Associates

STORM WATER POLLUTION AND EROSION PREVENTION PLAN

Jaines LLC.
(Former Haul Away Yard)

Facility Location:
544 Kellogg Drive
Janesville, WI

July 2019

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Appendix A- Stormwater Discharge Form

Appendix B- Employee Training Outline

Appendix C- General NPDES Permit

Appendix D- Log of SWPPP Modifications

FIGURE 1	Site Location Map
FIGURE 2	Site Figure and Adjacent Properties Map
FIGURE 3	Soil Cap Location Map
FIGURE 4	Plan View map
FIGURE 5	Soil Cap Cross Section View

GENERAL FACILITY INFORMATION

Name of Facility: Jaines, LLC

Facility Address: 544 Kellogg Ave, Janesville, WI

Facility Contact: _____

Name: _____

Title: _____

Telephone: _____

Mailing Address: _____

Owner: Jaines, LLC

Operator: _____
(if different from Owner)

Standard Industrial classification (SIC) Code: _____

Permit Information:

Facility Permit Name: _____

Permit Number: WI-S067831-05

Initial Date of Coverage: July 23, 2019

Number of Storm Water Outfalls: three

Receiving Waters: Rock River

Emergency Contact (preferably on-site):

Name: _____

Telephone: _____

1.0 INTRODUCTION

This storm water pollution prevention plan (SWPPP) has been prepared to cover the soil disturbance activities at the former GM Haul Away Yard in accordance with NR 216. A SWPPP is required under Part III of Wisconsin's Pollutant Discharge Elimination System (WPDES) general permit Number WI-S067857-4 for storm water discharges and in accordance with good engineering practices. This SWPPP describes this Site and activities, identifies potential sources of storm water erosion and pollution at the facility, recommends appropriate best management practices (BMPs) or erosion control measures to reduce the discharge of pollutants in storm water runoff, and provides for regular site inspection and review of this SWPPP.

1.1 OBJECTIVES

The primary goal of the storm water permit program is to implement and maintain erosion control practices to limit sediment-contaminated runoff to waters of the State in accordance with the permit.

This SWPPP will:

1. Identify any potential sources of erosion, storm water, and non-storm water contamination to the storm water drainage system;
2. Identify and prescribe appropriate "source area control" type best management practices designed to prevent erosion from occurring;
3. Identify and prescribe "limit sediment runoff" type best management practices to reduce pollutants in contaminated storm water;
4. Prescribe an implementation schedule so as to ensure that the storm water management actions prescribed in the Storm Water Pollution Prevention Plan are carried out and evaluated on a regular basis.

2.0 STORM WATER POLLUTION PREVENTION TEAM

The storm water pollution prevention team is responsible for developing, implementing, maintaining, and revising this SWPPP. The members of the team are familiar with the management and operations of the Former Haul Away Yard.

Identify by job title the person in charge of all aspects of SWPPP development and implementation. The member(s) of the team and their responsibilities (i.e. implementing, maintaining, record keeping, submitting reports, conducting inspections, employee training, conducting the annual compliance evaluation, testing for non-storm water discharges, signing the required certifications) are as follows:

Name & Title	Responsibility
Daniel M. Dunn (Consultant, Enviroanalytics Group LLC)	Organizing, Implementing, and submittal of SWPPP

3.0 POTENTIAL SOURCES OF POLLUTANTS

3.1 Site Drainage

Storm water generated at the Site consists of precipitation runoff from roofs of the Site buildings and related impervious surfaces such as the asphalt-paved parking areas. Storm water generated at the Site infiltrates into undeveloped Site surfaces or flows via sheet flow towards catch basins in the paved areas, which according to previous environmental reports reviewed, are collected and discharged to three separate outfalls. Some runoff also flows to the municipal-owned storm water detention pond located adjacent to the east of the Site. Figure 2 presents a site map of the facility showing the following features as required by the permit:

- Historical Locations where storm water drains to groundwater, surface water, or wetlands,
- the facility property boundaries;
- Depiction of the storm drainage collection and disposal system, including all known surface and subsurface conveyances, with the conveyances named;
- Any secondary or other containment structures;
- The location of all outfalls, including outfalls recognized as permitted outfalls under another WPDES permit that discharge channelized flow to surface water, groundwater, or wetlands;
- The surface area in acres draining to each outfall, including the percentage that is impervious such as paved, roofed, or highly compacted soil and the percentage that is pervious such as grassy areas and woods;
- existing structural storm water controls;

3.2 INVENTORY OF POTENTIAL SOURCES OF CONTAMINATION

The following have been identified as potential sources of storm water contamination:

3.2.1 Outdoor manufacturing areas

No manufacturing areas are active at the site.

3.2.2 Rooftops contaminated by industrial activity or a pollution control device;

All structures on-site have been demolished, leaving no rooftops.

3.2.3 Areas of significant soil erosion;

Most of site consists of impervious surfaces (asphaltic concrete). The areas around the disturbed area (see figure 1.3) will present approximately 1 +/- acre of surface to address for erosion prevention purposes.

3.2.4 Industrial plant yards;

No manufacturing areas are active or outside

3.2.5 Storage and maintenance areas for material handling equipment;

Bulk storage of materials and manufacturing products are no longer stored at site.

3.2.6 Material handling sites

Soil from the Rock River sediment dredging project will be beneficially re-used as fill on-site. Necessary actions will be taken to limit sediment runoff through the implementation of a vegetated and/or impervious surface.

3.2.7 Shipping and receiving areas;

Shipping areas are no longer in use and do not contain bulk materials.

3.2.8 Manufacturing buildings;

Manufacturing building no longer exist on site.

3.2.10 Residual treatment, storage, and disposal sites;

Not applicable.

3.2.11 Storage areas (including tank farms) for raw products materials, finished and intermediate;

No storage areas currently exist on the site.

3.2.12 Refuse sites;

Not applicable.

3.2.13 Disposal or application of wastewater;

Not applicable

3.2.14 Areas containing residual pollutants from past industrial activity, spills and leaks;

Not applicable

3.2.15 Vehicle maintenance and cleaning areas;

Not applicable

3.2.16 Non-storm Water Discharges to Storm Sewer;

Not applicable

4.0 BEST MANAGEMENT PRACTICES

Erosion management controls, or best management practices (BMPs), will be implemented to reduce the amount of storm water in contact with contaminated sediment at the JATCO (former GM Haul Away Yard) excavation area. Structural or source area control BMPs that are in place are indicated on Figure 3.

4.1 Erosion Control Measures

Due to the excavation of approximately 1 acre of surface area on the site, erosion of the stockpile is possible during excavation operations and after the area has been back-filled.

- **Silt Fences**

Silt Fences may be used on the site during excavation for managing runoff from the soil piles. Wooden posts, or steel posts if deemed necessary, supporting the silt fence will be spaced 4 to 6 feet apart and driven securely into the ground; a minimum of 12 inches deep. The silt fence will be fastened securely to the posts with wire ties spaced every 24 inches at the top, mid-section, and bottom of the wooden post. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled and compacted to prevent storm water and sediment from discharging underneath the silt fence.

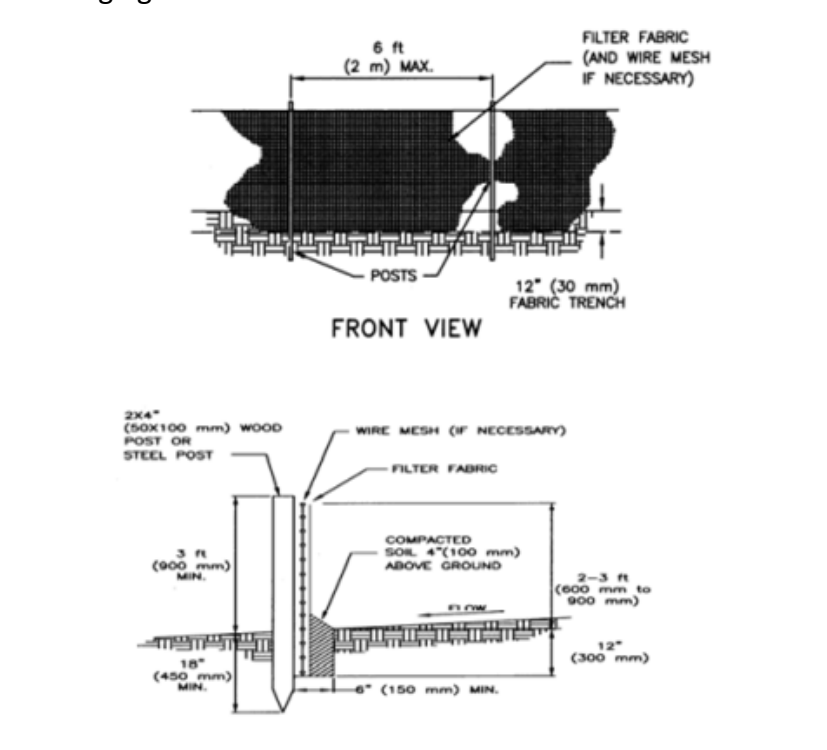


Figure A- Silt Fence

- **Engineered Barrier**

A 2-foot thick engineered barrier or “cap” consisting of uncontaminated “clean” soil material will be placed on top of the fill area to isolate the impacted soils. The native soils were sampled and analyzed to demonstrate no impacts for unrestricted use as a cover material. Vegetation (native grasses) will be established as a final surface feature in order to prevent sediment laden storm water from infiltrating the water table. The cross section view of the barrier is located in Figure 3.

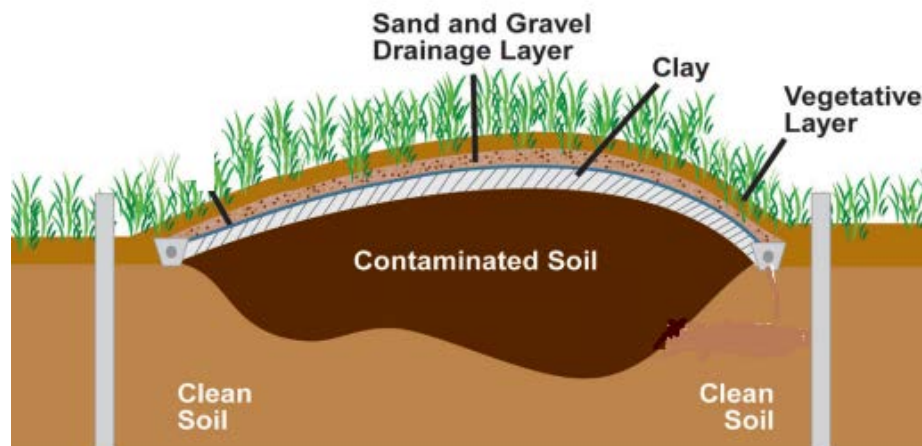


Figure B- Engineered Cap Example

- **Good Housekeeping**

Employees are expected to keep the work areas clean. This includes cleaning up spills as necessary and properly disposing of clean-up materials (rags, sweepings, etc.). Employees should routinely inspect their work areas and report leaks, spills, stains, etc. to their supervisor. All materials stored outside having the potential for storm water contact should be covered by using tarps or taken to an appropriate facility off-site.

4.2 PREVENTATIVE MAINTENANCE

Preventive Maintenance involves the regular inspection, testing, and cleaning of equipment and operational systems. These inspections will help to uncover conditions that might lead to a release of materials, allowing for maintenance to prevent such a release.

The following equipment/activities will be included in the preventive maintenance program. (Examples: fuel pumps, storage tanks for waste fluids, all structural controls, etc.)

- Daily facility walk-through to identify all storage and conveyance systems

operational with no visible blockages, corrosion, erosion, leaks and/or severe weathering;

- Routine inspection of facility equipment including: tanks, heaters, pumps, piping, valves, and emergency response supplies (booms, absorbents, etc.);
- Maintenance of facility lighting, fencing, security cameras, etc.

4.3 Spill Prevention and Response Procedures

Spills and leaks together are the largest source of storm water pollution. This SWPPP specifies material handling procedures and storage requirements for significant materials. All employees have been made aware of the proper procedures.

The procedure outlined in the “Emergency Response Section” should be followed for large spills. Most releases are less than 5 gallons occurring in the form of a leaking truck, spilled product from hoses used during transfer, etc. Generally, a “small” release occurs when less than 1 gallon of fluid is spilled. The steps detailed below can serve as a cleanup guideline if a small release is detected.

1. Notify the general manager of the spill.
2. Stop the source of the leak as much as possible. If the leak is coming from the undercarriage of a truck, place a pan to catch the material as it is discharged.
3. Seal the area off with construction cones, flagging, and ribbon to prevent vehicles from driving over and dragging the material.
4. Immediately cover the spill with absorbent material.
5. Contain the spent absorbent material in a drum labeled “Special Waste” or “Hazardous Waste” depending on the material.

5.0 Monitoring and Recordkeeping

5.1 Chemical Monitoring

Site is deemed inactive and chemical monitoring is not in place for this site, as the site is not in any current operation.

5.2 Non-Storm Water Discharges

Non-storm water discharges are not applicable for this site as the site is not in any current operation.

5.3 Inspections

The general permit requires that erosion and sediment controls be routinely inspected at least every 7 days, and within 24 hours after a rainfall event of 0.5 inches or greater. Weekly written reports of all inspections must be maintained. The reports must contain the following information:

Inspections shall be conducted within the first 30 minutes of a discharge or as soon thereafter as practical, but not exceeding 60 minutes. The inspections shall include any

observations of color, odor, turbidity, floating solids, foam, oil sheen, or other obvious indicators of storm water pollution.

5.4 Annual Facility Site Compliance Inspection

The environmental consultant shall make an annual inspection to evaluate the effectiveness of the SWPPP. The inspection shall be adequate to verify that the site drainage conditions and potential pollution sources identified in the SWPPP remain accurate, and that the best management practices prescribed in the SWPPP are being implemented, properly operated and adequately maintained. Information reported shall include the inspection date, inspection personnel, scope of the inspection, major observations, and revisions needed in the SWPPP.

6.0 Employee Training

Storm water pollution prevention training is held to include topics for discussion shown below, but are not necessarily limited to:

- Good housekeeping practices designed to control the amount of sediment in storm water and non-storm water from the site.
- Preventive maintenance of storm water controls.
- Inspection and documentation requirements
- Appropriate material handling and storage
- Spill reporting procedures.

The Occupational Safety and Health Organization and the Department of Transportation offer training programs for workers who handle hazardous materials. Specific training programs suggested for BOT employees and transporters who use the pump system or handle stored products and hazardous materials are listed below:

OSHA Hazard Communication

Employees participate in site-specific pollution prevention training programs. Topics covered in such training should include instructions on handling wastes, pertinent environmental laws, personal protective clothing and equipment, and emergency response procedures. Training sessions such as these for new employees should take place within 3 months of hire with annual refreshers for all employees.

7.0 CERTIFICATION OF THE SWPPP

I certify under penalty of law that this document and attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information contained in the plan. Based on my inquiry of the person, or persons, who manage the system, or those persons directly responsible for gathering the information; the information contained in this document is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for providing false information, including the possibility of fine and imprisonment. In addition, I certify under penalty of law that, based upon inquiry of persons directly under my supervision, to the best of my knowledge and belief, the provisions of this document adhere to the provisions of the storm water permit for the development and implementation of a Storm Water Pollution Prevention Plan and that the plan will be complied with."



(Signature of Plan Preparer)

Riley Underwood

(Printed Name)

7-17-19

(Date)



(Signature of Authorized Representative)

7-17-19

(Date)

Daniel M Dwyer

(Printed Name)

UP-Div. Rec. EAG

(Title)

TABLE 1 – Summary of Facility Storm Water Information

Former Janesville Plant	Janesville Wisconsin
Active operations	No
County	Rock
Township	2N
Range	12E
Section	14
Latitude (deg)	42.66 N
Longitude (deg)	89.02 W
Total Area of Facility (acres)	139
Annual Average Rainfall (in.)	6.53
Buildings (sf)	0
Paved (acres)	118
Unpaved (acres)	0
Outfalls (No.)	3
Receiving Stream(s)	Rock River
Watershed	Rock River Watershed
Sampling Required	No

E = East

N = North

NA = Not Applicable

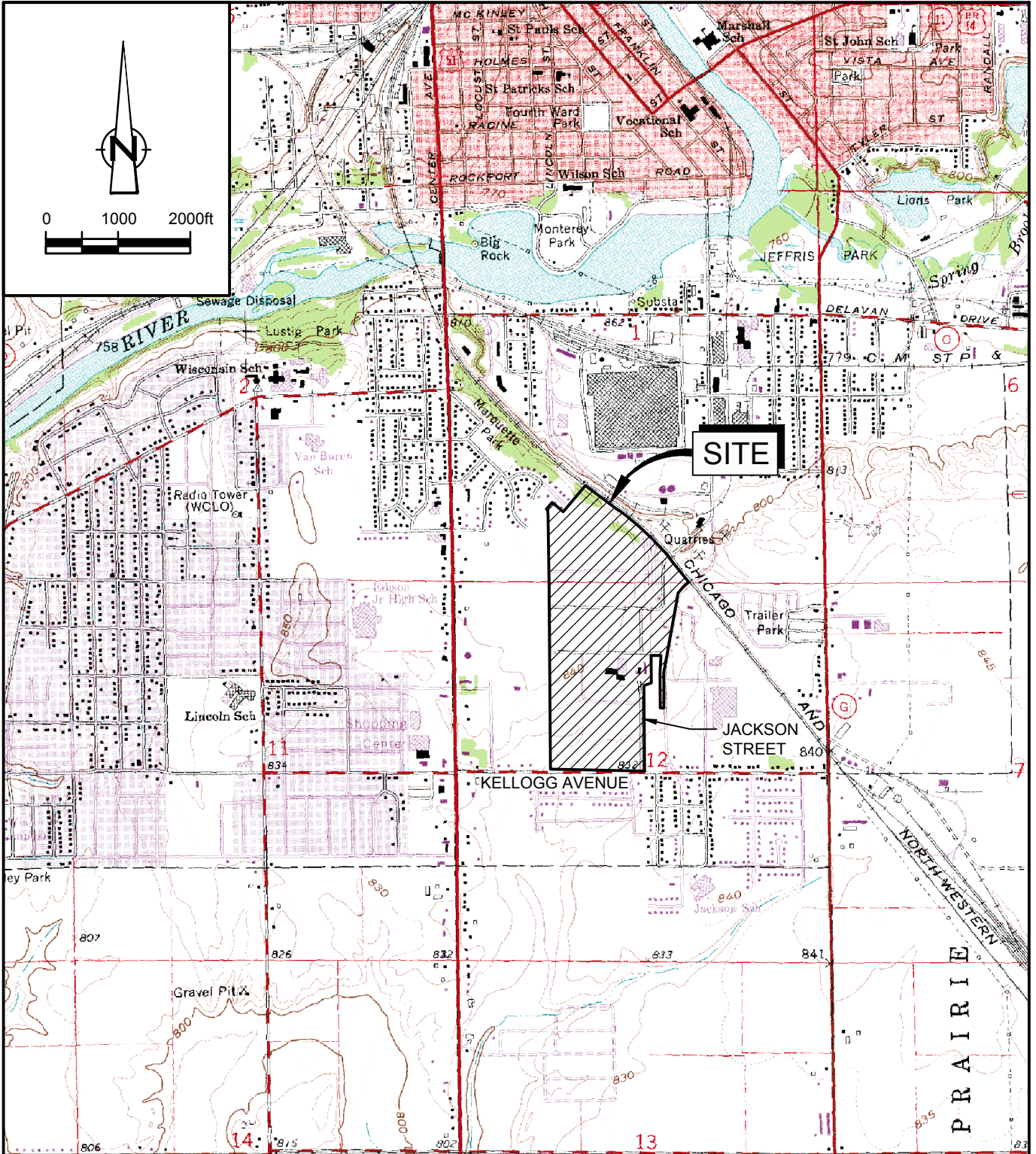
No. = Number

in. = inches

sf = square feet

UTM = Universal Transverse Mercator

deg-sec-min = degrees, seconds, minutes



SOURCE: USGS QUADRANGLE MAP;
 JANESVILLE WEST, WISCONSIN,
 PHOTOREVISED 1971 AND 1976

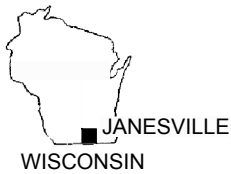
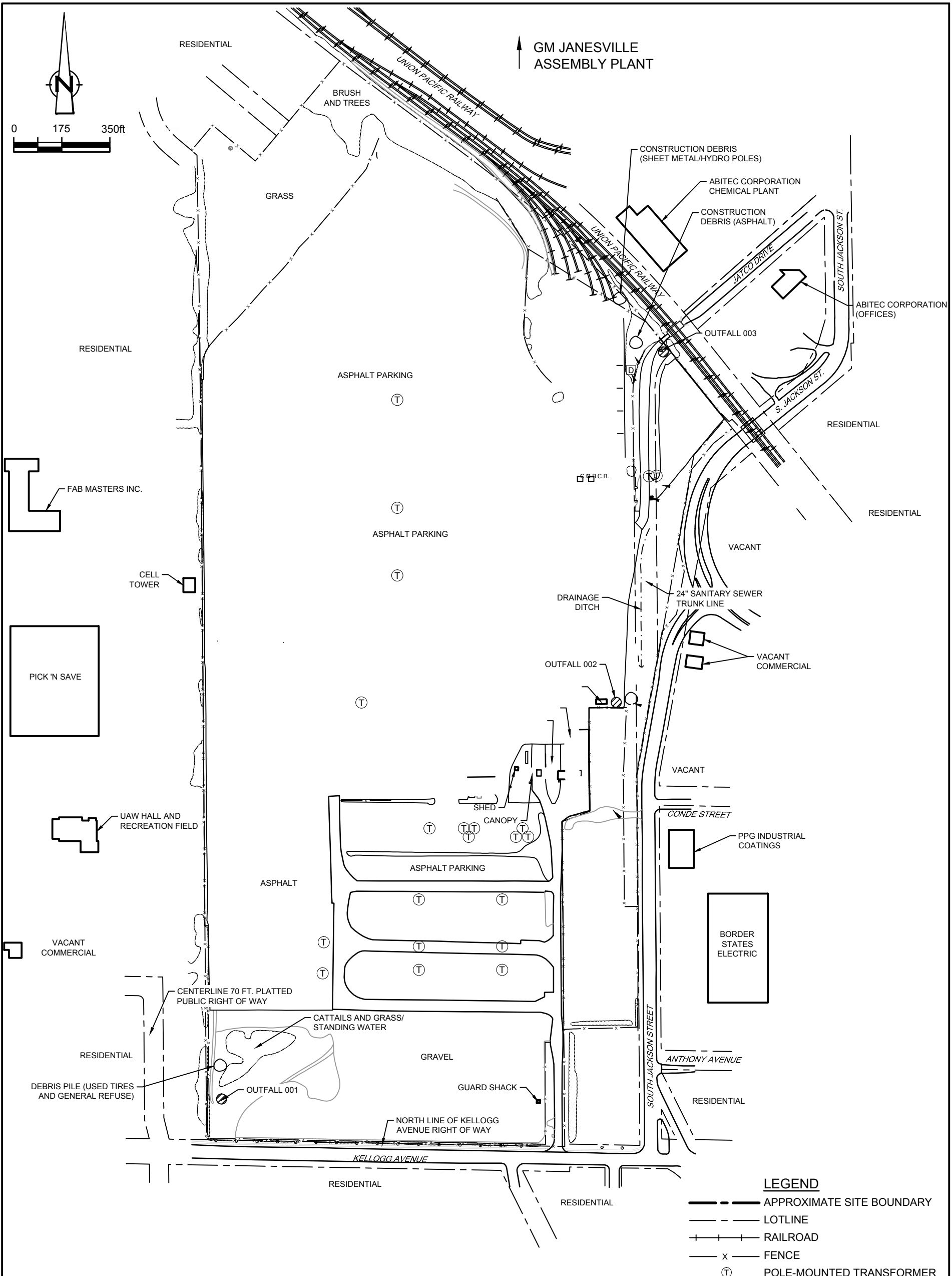


figure 1
 SITE LOCATION
 FORMER HAUL-AWAY YARD
 Janesville, Wisconsin



SOURCES:
 1. CROWN SERVICES GROUP, CSG JOB NUMBER: 1020101, DATE: 03/09/2011.
 2. UTILITIES FROM MONTGOMERY WATSON (M.W.) DWG.# 12422070, 1998. M.W. BASEMAP DEVELOPED FROM A LOCATION MAP PREPARED BY BIRENKOTT SURVEYING, SUN PRAIRIE, WISCONSIN, DATED JULY 1, 1992.

- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - - - LOTLINE
 - + + + RAILROAD
 - x - FENCE
 - ⊕ POLE-MOUNTED TRANSFORMER
 - ☐ DUMPSTER
 - ⊙ STORM DRAIN
 - ☐ C.B. CATCH BASIN

figure 2

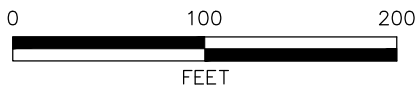
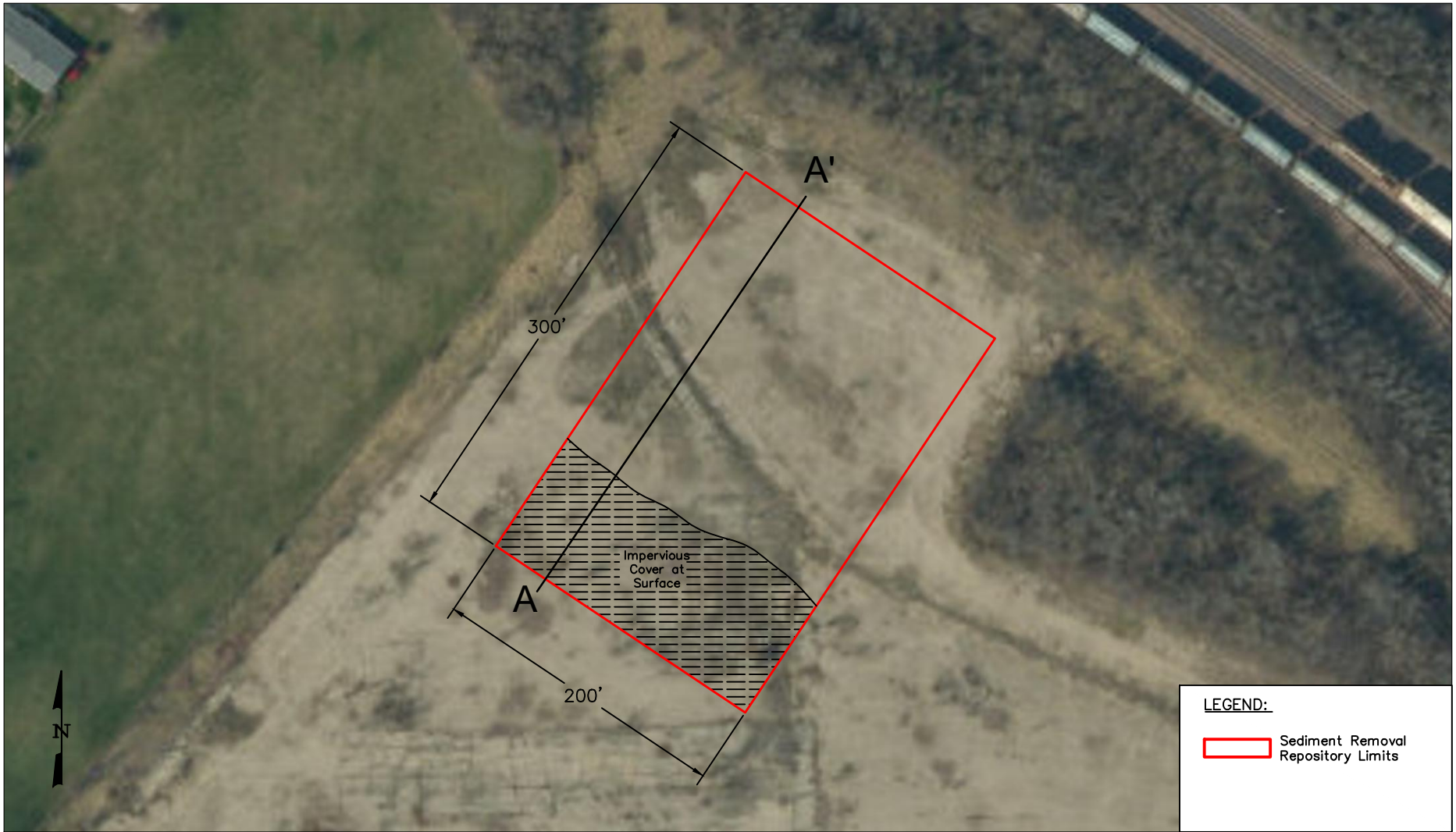
**SITE PLAN AND SURROUNDING PROPERTIES MAP
 FORMER HAUL-AWAY YARD
 Janesville, Wisconsin**





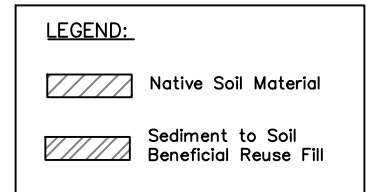
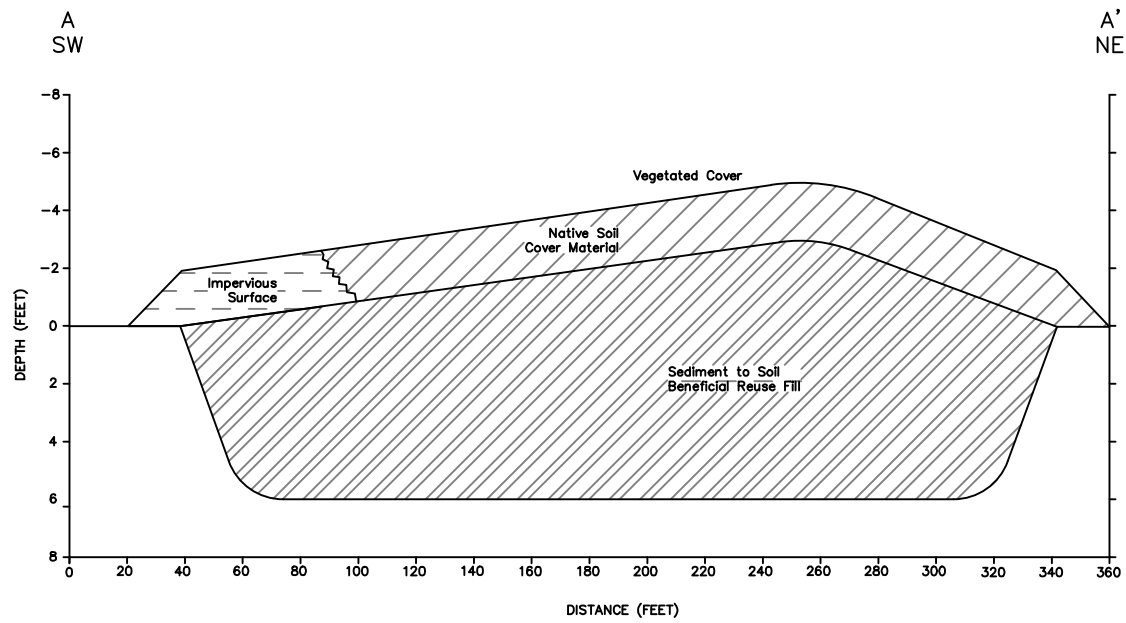
DESIGN: KA	DRAWN: KA	CHKD.: DD
DATE: 8/5/19	SCALE: AS SHOWN	REV.:
DRAWING NAME: FIGURE 1 - SITE LOCATION MAP		

FIGURE 3
SITE LOCATION MAP
JAINES, LLC
ROCK RIVER SEDIMENT REMOVAL REPOSITORY
JANESVILLE, WI



DESIGN: KA	DRAWN: KA	CHKD.: DD
DATE: 8/5/19	SCALE: AS SHOWN	REV.:
DRAWING NAME: FIGURE 2 - PLAN VIEW MAP		

FIGURE 4
 PLAN VIEW MAP
 JAINES, LLC
 ROCK RIVER SEDIMENT REMOVAL REPOSITORY
 JANESVILLE, WI



DESIGN: KA	DRAWN: KA	CHKD.: DD
DATE: 8/5/19	SCALE: AS SHOWN	REV.:
DRAWING NAME: FIGURE 3 - CROSS SECTION A-A'		

FIGURE 5
CROSS SECTION A-A'
JAINES, LLC
ROCK RIVER SEDIMENT REMOVAL REPOSITORY
JANESVILLE, WI

Appendix A:

Storm Water Discharge Record Form

Facility Storm Water Inspection Form

Outfall Location/Number: _____

WEATHER: Precipitation: Start: _____ Stop: _____ Duration: _____ Total: _____ (in.)
SAMPLING: Location: _____ Method: _____ Time: _____

- 1) Nearest Outfall Location: _____
- 2) Nearest Surface Water / Drainageway: _____
- 3) Discharge Data
 - a. Runoff: _____
 - b. Open / Pump Start Date: _____
 - c. Closed / Pump End Date: _____
 - d. Volume (gallons, estimated): _____

4) Sample Collected (N)____(Y) ____ Location: _____(attach drawing)

- a. Visual Observations:
 - Sheen (N)____(Y)____ If (Y) Do NOT pump & Take Sample for possible further testing.
 - Muddy (N)____(Y)____ If (Y) Do NOT pump & Take Sample for possible further testing.
 - Foam (N)____(Y)____ If (Y) Do NOT pump & Take Sample for possible further testing.
 - Observed Solids (N)_ (Y)_ If (Y) Briefly Describe (i.e floating, suspended, settled, etc.)

- b. Results of Waste Water Assay Test Strip:
 - (Light Blue)_____ Good to pump
 - (Dark Blue)_____ Do NOT pump. Take Sample for possible further testing.

- c. Lab Tests (N)____(Y) ____ Lab Name: _____
- d. Parameters Analyzed: _____

5) Photos Collected (N)____(Y) ____

6) Comments

7) Inspection By: Printed Name: _____

Signed: _____ Date: _____

APPENDIX B

Training Outline and Records

APPENDIX C

WPDES Permit



July 23, 2019

Mike Roberts
Jaines LLC
1515 Des Peres Rd, Ste 300
St. Louis MO 63131
Via email: troberts@cdcco.com

SUBJECT: Coverage Under WPDES General Permit No. WI-S067831-05: Construction Site Storm Water Runoff
Permittee Name: Jaines LLC
Site Name: Rock River Beneficial Reuse Repository
FIN: 67520

Dear Permittee:

The Wisconsin Department of Natural Resources received your Water Resources Application for Project Permits or Notice of Intent, on July 12, 2019, for the Rock River Beneficial Reuse Repository site and has evaluated the information provided regarding storm water discharges from your construction site. We have determined that your construction site activities will be regulated under ch. 283, Wis. Stats., ch. NR 216, Wis. Adm. Code, and in accordance with Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit No. WI-S067831-05, Construction Site Storm Water Runoff. All erosion control and storm water management activities undertaken at the site must be done in accordance with the terms and conditions of the general permit.

The **Start Date** of permit coverage for this site is July 23, 2019. The maximum period of permit coverage for this site is limited to 3 years from the **Start Date**. Therefore, permit coverage automatically expires and terminates 3 years from the Start Date and storm water discharges are no longer authorized unless another Notice of Intent and application fee to retain coverage under this permit or a reissued version of this permit is submitted to the Department 14 working days prior to expiration.

A copy of the general permit along with extensive storm water information including technical standards, forms, guidance and other documents is accessible on the Department's storm water program Internet site. To obtain a copy of the general permit, please download it and the associated documents listed below from the following Department Internet site:

<http://dnr.wi.gov/topic/stormwater/construction/forms.html>

- Construction Site Storm Water Runoff WPDES general permit No. WI-S067831-05
- Construction site inspection report form
- Notice of Termination form

If, for any reason, you are unable to access these documents over the Internet, please contact me and I will send them to you.

To ensure compliance with the general permit, please read it carefully and be sure you understand its contents. Please take special note of the following requirements (This is not a complete list of the terms and conditions of the general permit.):

1. The Construction Site Erosion Control Plan and Storm Water Management Plan that you completed prior to submitting your permit application must be implemented and maintained throughout construction. Failure to do so may result in enforcement action by the Department.

2. The general permit requires that erosion and sediment controls be routinely inspected at least every 7 days, and within 24 hours after a rainfall event of 0.5 inches or greater. Weekly written reports of all inspections must be maintained. The reports must contain the following information:

- a. Date, time, and exact place of inspection;
- b. Name(s) of individual(s) performing inspection;
- c. An assessment of the condition of erosion and sediment controls;
- d. A description of any erosion and sediment control implementation and maintenance performed;
- e. A description of the site's present phase of construction.

3. A **Certificate of Permit Coverage** must be posted in a conspicuous place on the construction site. The Certificate of Permit Coverage (WDNR Publication # WT-813) is enclosed for your use.

4. When construction activities have ceased and the site has undergone final stabilization, a Notice of Termination (NOT) of coverage under the general permit must be submitted to the Department.

It is important that you read and understand the terms and conditions of the general permit because they have the force of law and apply to you. Your project may lose its permit coverage if you do not comply with its terms and conditions. The Department may also withdraw your project from coverage under the general permit and require that you obtain an individual WPDES permit instead, based on the Department's own motion, upon the filing of a written petition by any person, or upon your request.

If you believe that you have a right to challenge this decision to grant permit coverage, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with s. NR 2.05(5), Wis. Adm. Code, and served on the Secretary in accordance with s. NR 2.03, Wis. Adm. Code. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30-day period for filing a petition for judicial review.

Thank you for your cooperation with the Construction Site Storm Water Discharge Permit Program. If you have any questions concerning the contents of this letter or the general permit, please contact E. Dan Bekta, P.E. at (608) 275-3201.

Sincerely,



Laura Spears
Wastewater Specialist – Stormwater
South Central Region – Dodgeville Office

ENCLOSURE: Certificate of Permit Coverage



CERTIFICATE OF PERMIT COVERAGE

UNDER THE WPDES CONSTRUCTION SITE STORM WATER RUNOFF PERMIT Permit No. WI-S067831-05

Under s. NR 216.455(2), Wis. Adm. Code, landowners of construction sites with storm water discharges regulated by the Wisconsin Department of Natural Resources (WDNR) Storm Water Permit Program are required to post this certificate in a conspicuous place at the construction site. This certifies that the site has been granted WDNR storm water permit coverage. The landowner must implement and maintain erosion control practices to limit sediment-contaminated runoff to waters of the state in accordance with the permit.

EROSION CONTROL COMPLAINTS should be reported to the WDNR Tip Line at **1-800-TIP-WDNR (1-800-847-9367)**

Please provide the following information to the Tip Line:

WDNR Site No. (FIN): 67520

Site Name: Rock River Beneficial Reuse Repository

Address/Location: 544 Kellogg Avenue

City of JANESVILLE

Additional Information:

Landowner: Jaines LLC

Landowner's Contact Person: Mike Roberts

Contact Telephone Number: (314) 253-2814

Permit Start Date: July 23, 2019

By: Laura Spears

APPENDIX D

Log of SWPPP Modifications

**STORM WATER POLLUTION PREVENTION PLAN
 COMPLIANCE INSPECTION REVIEW & REVISIONS**

CHECK APPLICABLE:

- I have reviewed and evaluated the former Haul Away Yard and determined no changes were necessary.
- I have reviewed and evaluated the SWPPP for the Haul Away Yard and amended the Plan. Plan modifications were made, as documented on the following page.
- SWPPP Plan modifications were implemented on: _____
Date

 Signature of Reviewer

 Date Reviewed

 Printed Name of Reviewer

 Title of Reviewer

Sign this form and complete the log of modifications below each time the SWPPP Plan is reviewed, evaluated, and amended.

LOG OF PLAN MODIFICATIONS

DATE	PLAN MODIFICATION (Section, page and description of change)	TYPE OF CHANGE (none, minor, or significant)	MODIFIED BY

ANALYTICAL REPORT

Job Number: 500-150867-1

Job Description: Rock River Sediment Removal, Janesville

For:

EnviroAnalytics Group LLC

1515 Des Peres Rd.

Suite 300

Saint Louis, MO 63131

Attention: Mr. Daniel Dunn



Approved for release.
Jim D Knapp
Project Manager II
9/17/2018 3:30 PM

Jim D Knapp, Project Manager II
2417 Bond Street, University Park, IL, 60484
(630)758-0262
jim.knapp@testamericainc.com
09/17/2018

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Chicago 2417 Bond Street, University Park, IL 60484

Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: Total Solids (Pilot Test Sample)

Lab Sample ID: 500-150867-4

Date Collected: 08/31/18 15:50

100cys of volume

Date Received: 09/01/18 10:28

Matrix: Solid

Percent Solids: 69.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	17	J	48	8.6	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Acenaphthylene	24	J	48	6.3	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Anthracene	61		48	8.0	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Benzo[a]anthracene	210		48	6.5	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Benzo[a]pyrene	230		48	9.3	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Benzo[b]fluoranthene	320		48	10	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Benzo[g,h,i]perylene	87		48	15	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Benzo[k]fluoranthene	130		48	14	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Chrysene	240		48	13	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Dibenz(a,h)anthracene	20	J	48	9.3	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Fluoranthene	500		48	8.9	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Fluorene	20	J	48	6.7	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Indeno[1,2,3-cd]pyrene	85		48	12	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Naphthalene	20	J	48	7.4	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Phenanthrene	260		48	6.7	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
Pyrene	420		48	9.5	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
1-Methylnaphthalene	17	J	97	12	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1
2-Methylnaphthalene	28	J	97	8.8	ug/Kg	*	09/04/18 08:10	09/05/18 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	74		41 - 120	09/04/18 08:10	09/05/18 10:43	1
Terphenyl-d14 (Surr)	82		35 - 160	09/04/18 08:10	09/05/18 10:43	1
2-Fluorobiphenyl (Surr)	75		44 - 121	09/04/18 08:10	09/05/18 10:43	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<41		120	41	ug/Kg	*	09/04/18 11:14	09/05/18 10:45	5
PCB-1221	<51		120	51	ug/Kg	*	09/04/18 11:14	09/05/18 10:45	5
PCB-1232	<51		120	51	ug/Kg	*	09/04/18 11:14	09/05/18 10:45	5
PCB-1242	<38		120	38	ug/Kg	*	09/04/18 11:14	09/05/18 10:45	5
PCB-1248	<46		120	46	ug/Kg	*	09/04/18 11:14	09/05/18 10:45	5
PCB-1254	<25		120	25	ug/Kg	*	09/04/18 11:14	09/05/18 10:45	5
PCB-1260	<57		120	57	ug/Kg	*	09/04/18 11:14	09/05/18 10:45	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		49 - 129	09/04/18 11:14	09/05/18 10:45	5
DCB Decachlorobiphenyl	104		37 - 121	09/04/18 11:14	09/05/18 10:45	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.7		1.3	0.45	mg/Kg	*	09/04/18 08:42	09/04/18 20:10	1
Barium	48	B	1.3	0.15	mg/Kg	*	09/04/18 08:42	09/04/18 20:10	1
Cadmium	0.50	B	0.26	0.047	mg/Kg	*	09/04/18 08:42	09/04/18 20:10	1
Chromium	9.9		1.3	0.65	mg/Kg	*	09/04/18 08:42	09/04/18 20:10	1
Lead	71		0.65	0.30	mg/Kg	*	09/04/18 08:42	09/04/18 20:10	1
Selenium	<0.77		1.3	0.77	mg/Kg	*	09/04/18 08:42	09/04/18 20:10	1
Silver	<0.17		0.65	0.17	mg/Kg	*	09/04/18 08:42	09/05/18 14:00	1

Client Sample Results

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-1

Client Sample ID: Total Solids

Lab Sample ID: 500-150867-4

Date Collected: 08/31/18 15:50

Matrix: Solid

Date Received: 09/01/18 10:28

Percent Solids: 69.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4600		580	190	ug/Kg	☼	09/04/18 16:55	09/05/18 14:34	25



Environment Testing
TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-165506-2
Client Project/Site: Rock River Sediment Removal, Janesville

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Mr. Daniel Dunn

Authorized for release by:
7/10/2019 3:34:17 PM

Jim Knapp, Project Manager II
(630)758-0262
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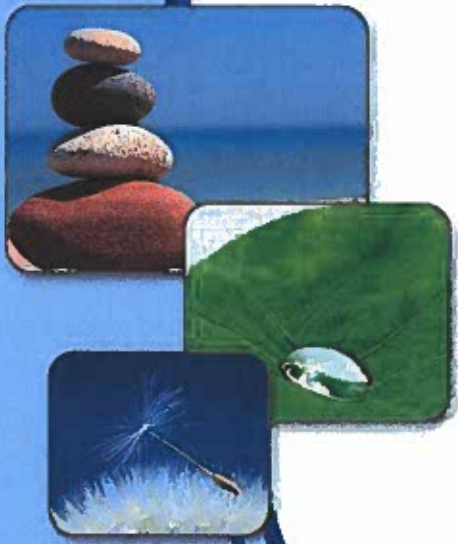
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Results relate only to the items tested and the sample(s) as received by the laboratory.



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Client Sample ID: Solid Sample #1

Lab Sample ID: 500-165506-1

Date Collected: 06/20/19 00:00

500 cys of volume

Matrix: Solid

Date Received: 06/21/19 09:20

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/03/19 08:55	07/03/19 17:11	1
Antimony	0.0090	J	0.050	0.0060	mg/L		07/03/19 08:55	07/03/19 17:11	1
Arsenic	0.0034	J	0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:11	1
Barium	<0.050		0.50	0.050	mg/L		07/03/19 08:55	07/03/19 17:11	1
Beryllium	<0.0020		0.0040	0.0020	mg/L		07/03/19 08:55	07/03/19 17:11	1
Boron	<0.050		0.10	0.050	mg/L		07/03/19 08:55	07/03/19 17:11	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/03/19 08:55	07/03/19 17:11	1
Chromium	0.0081	J	0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:11	1
Copper	0.0056	J	0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:11	1
Iron	1.1		0.20	0.20	mg/L		07/03/19 08:55	07/03/19 17:11	1
Lead	0.028	J	0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:11	1
Manganese	0.012	J	0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:11	1
Molybdenum	<0.0050		0.050	0.0050	mg/L		07/03/19 08:55	07/03/19 17:11	1
Nickel	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:11	1
Selenium	<0.010		0.050	0.010	mg/L		07/03/19 08:55	07/03/19 17:11	1
Silver	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:11	1
Thallium	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:11	1
Zinc	0.042	J	0.10	0.020	mg/L		07/03/19 08:55	07/03/19 17:11	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/03/19 10:15	07/05/19 08:29	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0067	J	0.010	0.0035	mg/L		07/05/19 10:20	07/05/19 14:53	1
Chloride	0.30		0.20	0.17	mg/L			07/05/19 22:00	1
Fluoride	0.071	J	0.20	0.067	mg/L			07/05/19 22:00	1
Sulfate	4.1		0.20	0.095	mg/L			07/05/19 22:00	1
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L		07/08/19 07:45	07/08/19 10:03	1
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			07/04/19 11:41	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Client Sample ID: Solid Sample #2

Lab Sample ID: 500-165506-2

Date Collected: 06/20/19 00:00

500 cys of volume

Matrix: Solid

Date Received: 06/21/19 09:20

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.20		0.20	0.20	mg/L		07/03/19 08:55	07/03/19 17:15	1
Antimony	0.040	J	0.050	0.0060	mg/L		07/03/19 08:55	07/03/19 17:15	1
Arsenic	0.0049	J	0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:15	1
Barium	<0.050		0.50	0.050	mg/L		07/03/19 08:55	07/03/19 17:15	1
Beryllium	<0.0020		0.0040	0.0020	mg/L		07/03/19 08:55	07/03/19 17:15	1
Boron	<0.050		0.10	0.050	mg/L		07/03/19 08:55	07/03/19 17:15	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/03/19 08:55	07/03/19 17:15	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:15	1
Copper	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:15	1
Iron	<0.20		0.20	0.20	mg/L		07/03/19 08:55	07/03/19 17:15	1
Lead	0.0073	J	0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:15	1
Manganese	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:15	1
Molybdenum	<0.0050		0.050	0.0050	mg/L		07/03/19 08:55	07/03/19 17:15	1
Nickel	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:15	1
Selenium	<0.010		0.050	0.010	mg/L		07/03/19 08:55	07/03/19 17:15	1
Silver	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:15	1
Thallium	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:15	1
Zinc	<0.020		0.10	0.020	mg/L		07/03/19 08:55	07/03/19 17:15	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/03/19 10:15	07/05/19 08:31	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.037		0.010	0.0035	mg/L		07/05/19 10:20	07/05/19 14:53	1
Chloride	0.82		0.20	0.17	mg/L			07/05/19 22:12	1
Fluoride	0.085	J	0.20	0.067	mg/L			07/05/19 22:12	1
Sulfate	11		1.0	0.48	mg/L			07/05/19 22:24	5
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L		07/08/19 07:45	07/08/19 10:06	1
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			07/04/19 11:43	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Client Sample ID: Jatco Soil (Jatco Cover Soil)
Date Collected: 06/20/19 00:00
Date Received: 06/21/19 09:20

Lab Sample ID: 500-165506-3
Matrix: Solid



Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.25		0.20	0.20	mg/L		07/03/19 08:55	07/03/19 17:19	1
Antimony	<0.0060		0.050	0.0060	mg/L		07/03/19 08:55	07/03/19 17:19	1
Arsenic	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:19	1
Barium	<0.050		0.50	0.050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Beryllium	<0.0020		0.0040	0.0020	mg/L		07/03/19 08:55	07/03/19 17:19	1
Boron	<0.050		0.10	0.050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/03/19 08:55	07/03/19 17:19	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Copper	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Iron	<0.20		0.20	0.20	mg/L		07/03/19 08:55	07/03/19 17:19	1
Lead	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:19	1
Manganese	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Molybdenum	<0.0050		0.050	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Nickel	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Selenium	<0.010		0.050	0.010	mg/L		07/03/19 08:55	07/03/19 17:19	1
Silver	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Thallium	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:19	1
Zinc	<0.020		0.10	0.020	mg/L		07/03/19 08:55	07/03/19 17:19	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/03/19 10:15	07/05/19 08:32	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0035		0.010	0.0035	mg/L		07/05/19 10:20	07/05/19 14:53	1
Chloride	1.3		0.20	0.17	mg/L			07/05/19 22:37	1
Fluoride	0.074	J	0.20	0.067	mg/L			07/05/19 22:37	1
Sulfate	0.24		0.20	0.095	mg/L			07/05/19 22:37	1
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L		07/08/19 07:45	07/08/19 10:08	1
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			07/04/19 11:45	1



Environment Testing
TestAmerica

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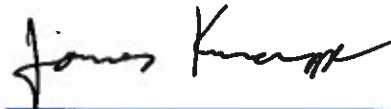
ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-165974-1
Client Project/Site: Rock River Sediment Removal, Janesville

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Mr. Daniel Dunn



Authorized for release by:
7/8/2019 11:21:06 AM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165974-1

Client Sample ID: Geo Bag 1

*(Geo-Bag Sample #1)
 500 cys of volume*

Lab Sample ID: 500-165974-5

Date Collected: 06/28/19 00:00

Matrix: Solid

Date Received: 06/29/19 09:40

Percent Solids: 42.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	J	370	68	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Acenaphthylene	<50		370	50	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Anthracene	310	J	370	63	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Benzo[a]anthracene	650		370	51	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Benzo[a]pyrene	670		370	73	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Benzo[b]fluoranthene	770		370	81	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Benzo[g,h,i]perylene	140	J	370	120	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Benzo[k]fluoranthene	630		370	110	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Chrysene	890		370	100	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Dibenz(a,h)anthracene	<73		370	73	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Fluoranthene	1900		370	70	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Fluorene	160	J	370	53	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Indeno[1,2,3-cd]pyrene	290	J	370	97	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Naphthalene	190	J	370	58	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Phenanthrene	1200		370	52	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Pyrene	1500		370	75	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
1-Methylnaphthalene	290	J	760	92	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
2-Methylnaphthalene	340	J	760	69	ug/Kg	☐	07/01/19 07:56	07/01/19 21:21	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	44		37 - 147				07/01/19 07:56	07/01/19 21:21	5
Terphenyl-d14 (Surr)	87		42 - 157				07/01/19 07:56	07/01/19 21:21	5
2-Fluorobiphenyl (Surr)	68		43 - 145				07/01/19 07:56	07/01/19 21:21	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<68		190	68	ug/Kg	☐	07/02/19 16:49	07/03/19 12:59	5
PCB-1221	<84		190	84	ug/Kg	☐	07/02/19 16:49	07/03/19 12:59	5
PCB-1232	<83		190	83	ug/Kg	☐	07/02/19 16:49	07/03/19 12:59	5
PCB-1242	<63		190	63	ug/Kg	☐	07/02/19 16:49	07/03/19 12:59	5
PCB-1248	<75		190	75	ug/Kg	☐	07/02/19 16:49	07/03/19 12:59	5
PCB-1254	<41		190	41	ug/Kg	☐	07/02/19 16:49	07/03/19 12:59	5
PCB-1260	<94		190	94	ug/Kg	☐	07/02/19 16:49	07/03/19 12:59	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		49 - 129				07/02/19 16:49	07/03/19 12:59	5
DCB Decachlorobiphenyl	121		37 - 121				07/02/19 16:49	07/03/19 12:59	5

Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		2.3	0.80	mg/Kg	☐	07/02/19 07:46	07/02/19 20:21	1
Barium	340		2.3	0.27	mg/Kg	☐	07/02/19 07:46	07/02/19 20:21	1
Cadmium	1.5	B	0.47	0.084	mg/Kg	☐	07/02/19 07:46	07/02/19 20:21	1
Chromium	46		2.3	1.2	mg/Kg	☐	07/02/19 07:46	07/02/19 20:21	1
Lead	300		1.2	0.54	mg/Kg	☐	07/02/19 07:46	07/02/19 20:21	1
Selenium	2.5		2.3	1.4	mg/Kg	☐	07/02/19 07:46	07/02/19 20:21	1
Silver	2.2		1.2	0.30	mg/Kg	☐	07/02/19 07:46	07/02/19 20:21	1

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5500		180	61	ug/Kg	☐	07/02/19 14:25	07/03/19 11:26	5

Eurofins TestAmerica, Chicago





Environment Testing
TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-166406-1
Client Project/Site: Rock River Sediment Removal, Janesville

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Mr. Daniel Dunn

Authorized for release by:
7/12/2019 4:38:00 PM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

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Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Client Sample ID: SOIL Sample #1 (Solid Sample #1 - Leach) **Lab Sample ID: 500-166406-1**
Date Collected: 07/09/19 00:00 **Matrix: Solid**
Date Received: 07/10/19 09:10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.6		10	3.6	ug/L		07/11/19 17:12	07/12/19 12:59	1
Acenaphthylene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Anthracene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[a]anthracene	<0.44		2.0	0.44	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[a]pyrene	<0.56		2.0	0.56	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[b]fluoranthene	<0.58		2.0	0.58	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[g,h,i]perylene	<4.2		10	4.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[k]fluoranthene	<0.74		2.0	0.74	ug/L		07/11/19 17:12	07/12/19 12:59	1
Chrysene	<1.4		5.0	1.4	ug/L		07/11/19 17:12	07/12/19 12:59	1
Dibenz(a,h)anthracene	<0.64		3.0	0.64	ug/L		07/11/19 17:12	07/12/19 12:59	1
Fluoranthene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Fluorene	<3.8		10	3.8	ug/L		07/11/19 17:12	07/12/19 12:59	1
Indeno[1,2,3-cd]pyrene	<0.84		2.0	0.84	ug/L		07/11/19 17:12	07/12/19 12:59	1
Naphthalene	<3.0		10	3.0	ug/L		07/11/19 17:12	07/12/19 12:59	1
Phenanthrene	<3.5		10	3.5	ug/L		07/11/19 17:12	07/12/19 12:59	1
Pyrene	<4.8		10	4.8	ug/L		07/11/19 17:12	07/12/19 12:59	1
1-Methylnaphthalene	<5.0		20	5.0	ug/L		07/11/19 17:12	07/12/19 12:59	1
2-Methylnaphthalene	<1.3		20	1.3	ug/L		07/11/19 17:12	07/12/19 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		36 - 120				07/11/19 17:12	07/12/19 12:59	1
Terphenyl-d14 (Surr)	102		40 - 145				07/11/19 17:12	07/12/19 12:59	1
2-Fluorobiphenyl (Surr)	85		34 - 110				07/11/19 17:12	07/12/19 12:59	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6	J	50	2.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Barium	<50		500	50	ug/L		07/11/19 14:48	07/12/19 12:07	1
Cadmium	<1.0		5.0	1.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Chromium	8.5	J	25	5.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Lead	22	J	50	2.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Selenium	<10		50	10	ug/L		07/11/19 14:48	07/12/19 12:07	1
Silver	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 12:07	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/12/19 08:20	07/12/19 11:32	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Client Sample ID: SOIL Sample #3 (Solid Sample #3) ~~XXXXXX~~ **Lab Sample ID: 500-166406-2**
 Date Collected: 07/09/19 00:00 **Matrix: Solid**
 Date Received: 07/10/19 09:10 **Percent Solids: 82.8**
 500 cys of volume

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120		40	7.2	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Acenaphthylene	31	J	40	5.3	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Anthracene	510		40	6.7	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Benzo[a]anthracene	780		40	5.4	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Benzo[a]pyrene	750		40	7.7	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Benzo[b]fluoranthene	810		40	8.6	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Benzo[g,h,i]perylene	310		40	13	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Benzo[k]fluoranthene	690		40	12	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Chrysene	720		40	11	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Dibenz(a,h)anthracene	90		40	7.7	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Fluoranthene	2400		40	7.4	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Fluorene	140		40	5.6	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Indeno[1,2,3-cd]pyrene	300		40	10	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Naphthalene	100		40	6.1	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Phenanthrene	1300		40	5.6	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
Pyrene	1500		40	7.9	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
1-Methylnaphthalene	78	J	81	9.8	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1
2-Methylnaphthalene	140		81	7.3	ug/Kg	☐	07/11/19 17:43	07/12/19 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		37 - 147	07/11/19 17:43	07/12/19 13:54	1
Terphenyl-d14 (Surr)	87		42 - 157	07/11/19 17:43	07/12/19 13:54	1
2-Fluorobiphenyl (Surr)	83		43 - 145	07/11/19 17:43	07/12/19 13:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.6		10	3.6	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Acenaphthylene	17		10	3.2	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Anthracene	<3.2		10	3.2	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Benzo[a]anthracene	<0.44		2.0	0.44	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Benzo[a]pyrene	<0.56		2.0	0.56	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Benzo[b]fluoranthene	<0.58		2.0	0.58	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Benzo[g,h,i]perylene	<4.2		10	4.2	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Benzo[k]fluoranthene	<0.74		2.0	0.74	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Chrysene	<1.4		5.0	1.4	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Dibenz(a,h)anthracene	<0.64		3.0	0.64	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Fluoranthene	<3.2		10	3.2	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Fluorene	<3.8		10	3.8	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Indeno[1,2,3-cd]pyrene	<0.84		2.0	0.84	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Naphthalene	110	B	10	3.0	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Phenanthrene	<3.5		10	3.5	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
Pyrene	<4.8		10	4.8	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
1-Methylnaphthalene	<5.0		20	5.0	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1
2-Methylnaphthalene	1.9	J B	20	1.3	ug/L	☐	07/11/19 17:12	07/12/19 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		36 - 120	07/11/19 17:12	07/12/19 13:23	1
Terphenyl-d14 (Surr)	101		40 - 145	07/11/19 17:12	07/12/19 13:23	1
2-Fluorobiphenyl (Surr)	82		34 - 110	07/11/19 17:12	07/12/19 13:23	1

Eurofins TestAmerica, Chicago



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Client Sample ID: SOIL Sample #3 (Solid Sample #3)

Lab Sample ID: 500-166406-2

Date Collected: 07/09/19 00:00

Matrix: Solid

Date Received: 07/10/19 09:10

Percent Solids: 82.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<70		200	70	ug/Kg	☒	07/11/19 07:42	07/11/19 15:23	10
PCB-1221	<87		200	87	ug/Kg	☒	07/11/19 07:42	07/11/19 15:23	10
PCB-1232	<86		200	86	ug/Kg	☒	07/11/19 07:42	07/11/19 15:23	10
PCB-1242	<65		200	65	ug/Kg	☒	07/11/19 07:42	07/11/19 15:23	10
PCB-1248	<78		200	78	ug/Kg	☒	07/11/19 07:42	07/11/19 15:23	10
PCB-1254	<43		200	43	ug/Kg	☒	07/11/19 07:42	07/11/19 15:23	10
PCB-1260	<97		200	97	ug/Kg	☒	07/11/19 07:42	07/11/19 15:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		49 - 129	07/11/19 07:42	07/11/19 15:23	10
DCB Decachlorobiphenyl	112		37 - 121	07/11/19 07:42	07/11/19 15:23	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		1.0	0.35	mg/Kg	☒	07/10/19 16:02	07/11/19 11:34	1
Barium	240	F1	1.0	0.12	mg/Kg	☒	07/10/19 16:02	07/11/19 11:34	1
Cadmium	1.1	B	0.20	0.037	mg/Kg	☒	07/10/19 16:02	07/11/19 11:34	1
Chromium	23		1.0	0.51	mg/Kg	☒	07/10/19 16:02	07/11/19 11:34	1
Lead	480		0.51	0.24	mg/Kg	☒	07/10/19 16:02	07/11/19 11:34	1
Selenium	0.87	J	1.0	0.60	mg/Kg	☒	07/10/19 16:02	07/11/19 11:34	1
Silver	1.1		0.51	0.13	mg/Kg	☒	07/10/19 16:02	07/11/19 11:34	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	J	50	2.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Barium	<50		500	50	ug/L		07/11/19 14:48	07/12/19 12:14	1
Cadmium	<1.0		5.0	1.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Chromium	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Lead	3.7	J	50	2.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Selenium	<10		50	10	ug/L		07/11/19 14:48	07/12/19 12:14	1
Silver	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 12:14	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/12/19 08:20	07/12/19 11:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	320		19	6.4	ug/Kg	☒	07/11/19 14:45	07/12/19 08:40	1





Environment Testing
TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-166667-1

Client Project/Site: Rock River Sediment Removal, Janesville

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Riley Underwood

Authorized for release by:
7/18/2019 5:28:33 PM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

Client Sample ID: NE Geo-bag #2

*(NE Geo-Bag Sample #2)
 500 cys of volume*

Lab Sample ID: 500-166667-3

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 35.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.055	J	0.093	0.017	mg/Kg	☒	07/16/19 17:12	07/17/19 19:49	1
Acenaphthylene	0.043	J	0.093	0.012	mg/Kg	☒	07/16/19 17:12	07/17/19 19:49	1
Anthracene	0.17		0.093	0.016	mg/Kg	☒	07/16/19 17:12	07/17/19 19:49	1
Fluoranthene	0.89		0.093	0.017	mg/Kg	☒	07/16/19 17:12	07/17/19 19:49	1
Fluorene	0.066	J	0.093	0.013	mg/Kg	☒	07/16/19 17:12	07/17/19 19:49	1
Naphthalene	0.051	J	0.093	0.014	mg/Kg	☒	07/16/19 17:12	07/17/19 19:49	1
Phenanthrene	0.65		0.093	0.013	mg/Kg	☒	07/16/19 17:12	07/17/19 19:49	1
1-Methylnaphthalene	0.067	J	0.19	0.023	mg/Kg	☒	07/16/19 17:12	07/17/19 19:49	1
2-Methylnaphthalene	0.098	J	0.19	0.017	mg/Kg	☒	07/16/19 17:12	07/17/19 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		37 - 147	07/16/19 17:12	07/17/19 19:49	1
Terphenyl-d14 (Surr)	108		42 - 157	07/16/19 17:12	07/17/19 19:49	1
2-Fluorobiphenyl (Surr)	75		43 - 145	07/16/19 17:12	07/17/19 19:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.45		0.19	0.025	mg/Kg	☒	07/16/19 17:12	07/18/19 14:17	2
Benzo[a]pyrene	0.46		0.19	0.036	mg/Kg	☒	07/16/19 17:12	07/18/19 14:17	2
Benzo[b]fluoranthene	0.57		0.19	0.040	mg/Kg	☒	07/16/19 17:12	07/18/19 14:17	2
Benzo[g,h,i]perylene	0.26		0.19	0.060	mg/Kg	☒	07/16/19 17:12	07/18/19 14:17	2
Benzo[k]fluoranthene	0.22		0.19	0.055	mg/Kg	☒	07/16/19 17:12	07/18/19 14:17	2
Chrysene	0.52		0.19	0.051	mg/Kg	☒	07/16/19 17:12	07/18/19 14:17	2
Dibenz(a,h)anthracene	0.077	J	0.19	0.036	mg/Kg	☒	07/16/19 17:12	07/18/19 14:17	2
Indeno[1,2,3-cd]pyrene	0.22		0.19	0.049	mg/Kg	☒	07/16/19 17:12	07/18/19 14:17	2
Pyrene	0.84		0.19	0.037	mg/Kg	☒	07/16/19 17:12	07/18/19 14:17	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/17/19 14:20	07/18/19 12:38	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 12:38	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 12:38	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/17/19 14:20	07/18/19 12:38	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/17/19 14:20	07/18/19 12:38	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/17/19 14:20	07/18/19 12:38	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/17/19 14:20	07/18/19 12:38	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/17/19 14:20	07/18/19 12:38	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/17/19 14:20	07/18/19 12:38	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/17/19 14:20	07/18/19 12:38	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 12:38	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/17/19 14:20	07/18/19 12:38	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/17/19 14:20	07/18/19 12:38	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/17/19 14:20	07/18/19 12:38	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/17/19 14:20	07/18/19 12:38	1
Pyrene	<0.0048		0.010	0.0048	mg/L		07/17/19 14:20	07/18/19 12:38	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/17/19 14:20	07/18/19 12:38	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/17/19 14:20	07/18/19 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	90		36 - 120	07/17/19 14:20	07/18/19 12:38	1

Eurofins TestAmerica, Chicago



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

Client Sample ID: NE Geo-bag #2

Lab Sample ID: 500-166667-3

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 35.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	105		40 - 145	07/17/19 14:20	07/18/19 12:38	1
2-Fluorobiphenyl (Surr)	84		34 - 110	07/17/19 14:20	07/18/19 12:38	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.016		0.046	0.016	mg/Kg	☒	07/16/19 07:42	07/16/19 16:40	1
PCB-1221	<0.020		0.046	0.020	mg/Kg	☒	07/16/19 07:42	07/16/19 16:40	1
PCB-1232	<0.020		0.046	0.020	mg/Kg	☒	07/16/19 07:42	07/16/19 16:40	1
PCB-1242	<0.015		0.046	0.015	mg/Kg	☒	07/16/19 07:42	07/16/19 16:40	1
PCB-1248	<0.018		0.046	0.018	mg/Kg	☒	07/16/19 07:42	07/16/19 16:40	1
PCB-1254	<0.010		0.046	0.010	mg/Kg	☒	07/16/19 07:42	07/16/19 16:40	1
PCB-1260	<0.023		0.046	0.023	mg/Kg	☒	07/16/19 07:42	07/16/19 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		49 - 129	07/16/19 07:42	07/16/19 16:40	1
DCB Decachlorobiphenyl	90		37 - 121	07/16/19 07:42	07/16/19 16:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		2.5	0.86	mg/Kg	☒	07/16/19 15:35	07/17/19 11:57	1
Barium	310		2.5	0.29	mg/Kg	☒	07/16/19 15:35	07/17/19 11:57	1
Cadmium	1.5	B	0.50	0.091	mg/Kg	☒	07/16/19 15:35	07/17/19 11:57	1
Chromium	40		2.5	1.2	mg/Kg	☒	07/16/19 15:35	07/17/19 11:57	1
Lead	160		1.3	0.58	mg/Kg	☒	07/16/19 15:35	07/17/19 11:57	1
Selenium	2.9	B	2.5	1.5	mg/Kg	☒	07/16/19 15:35	07/17/19 11:57	1
Silver	2.6		1.3	0.33	mg/Kg	☒	07/16/19 15:35	07/17/19 11:57	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0023	J	0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:25	1
Barium	<0.050		0.50	0.050	mg/L		07/17/19 14:31	07/18/19 12:25	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/17/19 14:31	07/18/19 12:25	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:25	1
Lead	0.0025	J	0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:25	1
Selenium	<0.010		0.050	0.010	mg/L		07/17/19 14:31	07/18/19 12:25	1
Silver	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:25	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/17/19 15:10	07/18/19 08:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.042	0.014	mg/Kg	☒	07/16/19 14:20	07/17/19 10:04	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

Client Sample ID: South Geo-bag #1 *(South Geo-Bag Sample #1)* **Lab Sample ID: 500-166667-4**
 Date Collected: 07/11/19 00:00 *500 cys of volume* **Matrix: Solid**
 Date Received: 07/13/19 09:20 **Percent Solids: 32.2**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.018	J	0.10	0.018	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
Acenaphthylene	0.025	J	0.10	0.013	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
Anthracene	0.073	J	0.10	0.017	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
Benzo[a]anthracene	0.21		0.10	0.014	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
Chrysene	0.25		0.10	0.027	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
Fluoranthene	0.45		0.10	0.019	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
Fluorene	0.023	J	0.10	0.014	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
Naphthalene	0.018	J	0.10	0.015	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
Phenanthrene	0.26		0.10	0.014	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
Pyrene	0.49		0.10	0.020	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
1-Methylnaphthalene	0.025	J	0.20	0.025	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
2-Methylnaphthalene	<0.018		0.20	0.018	mg/Kg	☒	07/16/19 17:12	07/17/19 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	59		37 - 147				07/16/19 17:12	07/17/19 20:17	1
Terphenyl-d14 (Surr)	98		42 - 157				07/16/19 17:12	07/17/19 20:17	1
2-Fluorobiphenyl (Surr)	68		43 - 145				07/16/19 17:12	07/17/19 20:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.22		0.20	0.039	mg/Kg	☒	07/16/19 17:12	07/18/19 14:47	2
Benzo[b]fluoranthene	0.28		0.20	0.043	mg/Kg	☒	07/16/19 17:12	07/18/19 14:47	2
Benzo[g,h,i]perylene	0.15	J	0.20	0.065	mg/Kg	☒	07/16/19 17:12	07/18/19 14:47	2
Benzo[k]fluoranthene	0.10	J	0.20	0.059	mg/Kg	☒	07/16/19 17:12	07/18/19 14:47	2
Dibenz(a,h)anthracene	0.048	J	0.20	0.039	mg/Kg	☒	07/16/19 17:12	07/18/19 14:47	2
Indeno[1,2,3-cd]pyrene	0.12	J	0.20	0.052	mg/Kg	☒	07/16/19 17:12	07/18/19 14:47	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/17/19 14:20	07/18/19 13:05	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:05	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:05	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/17/19 14:20	07/18/19 13:05	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/17/19 14:20	07/18/19 13:05	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/17/19 14:20	07/18/19 13:05	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/17/19 14:20	07/18/19 13:05	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/17/19 14:20	07/18/19 13:05	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/17/19 14:20	07/18/19 13:05	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/17/19 14:20	07/18/19 13:05	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:05	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/17/19 14:20	07/18/19 13:05	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/17/19 14:20	07/18/19 13:05	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/17/19 14:20	07/18/19 13:05	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/17/19 14:20	07/18/19 13:05	1
Pyrene	<0.0048		0.010	0.0048	mg/L		07/17/19 14:20	07/18/19 13:05	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/17/19 14:20	07/18/19 13:05	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/17/19 14:20	07/18/19 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	99		36 - 120				07/17/19 14:20	07/18/19 13:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

Client Sample ID: South Geo-bag #1

Lab Sample ID: 500-166667-4

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 32.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	108		40 - 145	07/17/19 14:20	07/18/19 13:05	1
2-Fluorobiphenyl (Surr)	94		34 - 110	07/17/19 14:20	07/18/19 13:05	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.051	0.018	mg/Kg	☒	07/16/19 07:42	07/16/19 16:56	1
PCB-1221	<0.022		0.051	0.022	mg/Kg	☒	07/16/19 07:42	07/16/19 16:56	1
PCB-1232	<0.022		0.051	0.022	mg/Kg	☒	07/16/19 07:42	07/16/19 16:56	1
PCB-1242	<0.017		0.051	0.017	mg/Kg	☒	07/16/19 07:42	07/16/19 16:56	1
PCB-1248	<0.020		0.051	0.020	mg/Kg	☒	07/16/19 07:42	07/16/19 16:56	1
PCB-1254	<0.011		0.051	0.011	mg/Kg	☒	07/16/19 07:42	07/16/19 16:56	1
PCB-1260	<0.025		0.051	0.025	mg/Kg	☒	07/16/19 07:42	07/16/19 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		49 - 129	07/16/19 07:42	07/16/19 16:56	1
DCB Decachlorobiphenyl	81		37 - 121	07/16/19 07:42	07/16/19 16:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3	J	2.7	0.94	mg/Kg	☒	07/16/19 15:35	07/17/19 12:01	1
Barium	150		2.7	0.31	mg/Kg	☒	07/16/19 15:35	07/17/19 12:01	1
Cadmium	0.77	B	0.55	0.099	mg/Kg	☒	07/16/19 15:35	07/17/19 12:01	1
Chromium	28		2.7	1.4	mg/Kg	☒	07/16/19 15:35	07/17/19 12:01	1
Lead	47		1.4	0.63	mg/Kg	☒	07/16/19 15:35	07/17/19 12:01	1
Selenium	3.0	B	2.7	1.6	mg/Kg	☒	07/16/19 15:35	07/17/19 12:01	1
Silver	2.7		1.4	0.35	mg/Kg	☒	07/16/19 15:35	07/17/19 12:01	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:29	1
Barium	<0.050		0.50	0.050	mg/L		07/17/19 14:31	07/18/19 12:29	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/17/19 14:31	07/18/19 12:29	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:29	1
Lead	<0.0020		0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:29	1
Selenium	<0.010		0.050	0.010	mg/L		07/17/19 14:31	07/18/19 12:29	1
Silver	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:29	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/17/19 15:10	07/18/19 09:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.5		0.045	0.015	mg/Kg	☒	07/16/19 14:20	07/17/19 10:08	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

Client Sample ID: South Geo-bag #2 (South Geo-Bag #2 Sample #2) **Lab Sample ID: 500-166667-5**
 Date Collected: 07/11/19 00:00 500 cys of volume **Matrix: Solid**
 Date Received: 07/13/19 09:20 **Percent Solids: 39.3**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.29	J	0.83	0.15	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Acenaphthylene	<0.11		0.83	0.11	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Anthracene	0.62	J	0.83	0.14	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Benzo[a]anthracene	1.5		0.83	0.11	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Chrysene	2.3		0.83	0.23	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Dibenz(a,h)anthracene	<0.16		0.83	0.16	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Fluoranthene	3.1		0.83	0.16	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Fluorene	0.39	J	0.83	0.12	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Naphthalene	0.42	J	0.83	0.13	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Phenanthrene	3.1		0.83	0.12	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Pyrene	3.7		0.83	0.17	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
1-Methylnaphthalene	0.67	J	1.7	0.20	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
2-Methylnaphthalene	0.85	J	1.7	0.15	mg/Kg	☒	07/16/19 17:12	07/17/19 20:44	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	97		37 - 147				07/16/19 17:12	07/17/19 20:44	10
Terphenyl-d14 (Surr)	151		42 - 157				07/16/19 17:12	07/17/19 20:44	10
2-Fluorobiphenyl (Surr)	110		43 - 145				07/16/19 17:12	07/17/19 20:44	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1.1	J	1.7	0.32	mg/Kg	☒	07/16/19 17:12	07/18/19 12:19	20
Benzo[b]fluoranthene	1.7		1.7	0.36	mg/Kg	☒	07/16/19 17:12	07/18/19 12:19	20
Benzo[g,h,i]perylene	0.81	J	1.7	0.54	mg/Kg	☒	07/16/19 17:12	07/18/19 12:19	20
Benzo[k]fluoranthene	0.56	J	1.7	0.49	mg/Kg	☒	07/16/19 17:12	07/18/19 12:19	20
Indeno[1,2,3-cd]pyrene	0.73	J	1.7	0.43	mg/Kg	☒	07/16/19 17:12	07/18/19 12:19	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/17/19 14:20	07/18/19 13:33	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:33	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:33	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/17/19 14:20	07/18/19 13:33	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/17/19 14:20	07/18/19 13:33	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/17/19 14:20	07/18/19 13:33	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/17/19 14:20	07/18/19 13:33	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/17/19 14:20	07/18/19 13:33	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/17/19 14:20	07/18/19 13:33	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/17/19 14:20	07/18/19 13:33	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:33	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/17/19 14:20	07/18/19 13:33	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/17/19 14:20	07/18/19 13:33	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/17/19 14:20	07/18/19 13:33	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/17/19 14:20	07/18/19 13:33	1
Pyrene	<0.0048		0.010	0.0048	mg/L		07/17/19 14:20	07/18/19 13:33	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/17/19 14:20	07/18/19 13:33	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/17/19 14:20	07/18/19 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	110		36 - 120				07/17/19 14:20	07/18/19 13:33	1

Eurofins TestAmerica, Chicago



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

Client Sample ID: South Geo-bag #2

Lab Sample ID: 500-166667-5

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 39.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	120		40 - 145	07/17/19 14:20	07/18/19 13:33	1
2-Fluorobiphenyl (Surr)	101		34 - 110	07/17/19 14:20	07/18/19 13:33	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.015		0.041	0.015	mg/Kg	☒	07/16/19 07:42	07/16/19 17:11	1
PCB-1221	<0.018		0.041	0.018	mg/Kg	☒	07/16/19 07:42	07/16/19 17:11	1
PCB-1232	<0.018		0.041	0.018	mg/Kg	☒	07/16/19 07:42	07/16/19 17:11	1
PCB-1242	<0.013		0.041	0.013	mg/Kg	☒	07/16/19 07:42	07/16/19 17:11	1
PCB-1248	<0.016		0.041	0.016	mg/Kg	☒	07/16/19 07:42	07/16/19 17:11	1
PCB-1254	<0.0089		0.041	0.0089	mg/Kg	☒	07/16/19 07:42	07/16/19 17:11	1
PCB-1260	<0.020		0.041	0.020	mg/Kg	☒	07/16/19 07:42	07/16/19 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		49 - 129	07/16/19 07:42	07/16/19 17:11	1
DCB Decachlorobiphenyl	90		37 - 121	07/16/19 07:42	07/16/19 17:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		2.5	0.85	mg/Kg	☒	07/16/19 15:35	07/17/19 10:41	1
Barium	350		2.5	0.28	mg/Kg	☒	07/16/19 15:35	07/17/19 10:41	1
Cadmium	1.5	B	0.50	0.090	mg/Kg	☒	07/16/19 15:35	07/17/19 10:41	1
Chromium	53		2.5	1.2	mg/Kg	☒	07/16/19 15:35	07/17/19 10:41	1
Lead	240		1.2	0.58	mg/Kg	☒	07/16/19 15:35	07/17/19 10:41	1
Selenium	2.4	J B	2.5	1.5	mg/Kg	☒	07/16/19 15:35	07/17/19 10:41	1
Silver	3.2		1.2	0.32	mg/Kg	☒	07/16/19 15:35	07/17/19 10:41	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0035	J	0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:34	1
Barium	<0.050		0.50	0.050	mg/L		07/17/19 14:31	07/18/19 12:34	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/17/19 14:31	07/18/19 12:34	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:34	1
Lead	<0.0020		0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:34	1
Selenium	<0.010		0.050	0.010	mg/L		07/17/19 14:31	07/18/19 12:34	1
Silver	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:34	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/17/19 15:10	07/18/19 09:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.1		0.042	0.014	mg/Kg	☒	07/16/19 14:20	07/17/19 10:12	1



Environment Testing
TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-166745-1
Client Project/Site: Rock River Sediment Removal, Janesville

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Mr. Daniel Dunn

Authorized for release by:
7/19/2019 4:06:13 PM

Jim Knapp, Project Manager II
(630)758-0262
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166745-1

Client Sample ID: Soil Sample #4 (Solid Sample #4)
 Date Collected: 07/15/19 00:00
 Date Received: 07/16/19 10:20
 500cys of volume

Lab Sample ID: 500-166745-1
 Matrix: Solid
 Percent Solids: 98.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.039	J	0.087	0.016	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Acenaphthylene	0.018	J	0.087	0.012	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Anthracene	0.12		0.087	0.015	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Benzo[a]anthracene	0.28		0.087	0.012	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Benzo[a]pyrene	0.29		0.087	0.017	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Benzo[b]fluoranthene	0.41		0.087	0.019	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Benzo[g,h,i]perylene	0.12		0.087	0.028	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Benzo[k]fluoranthene	0.18		0.087	0.026	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Chrysene	0.44		0.087	0.024	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Dibenz(a,h)anthracene	0.028	J	0.087	0.017	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Fluoranthene	0.44		0.087	0.016	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Fluorene	0.056	J	0.087	0.012	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Indeno[1,2,3-cd]pyrene	0.13		0.087	0.023	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Naphthalene	0.19		0.087	0.013	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Phenanthrene	0.42		0.087	0.012	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
Pyrene	0.54		0.087	0.017	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
1-Methylnaphthalene	0.18		0.18	0.021	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1
2-Methylnaphthalene	0.33		0.18	0.016	mg/Kg	☐	07/16/19 17:12	07/17/19 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	91		37 - 147	07/16/19 17:12	07/17/19 13:20	1
Terphenyl-d14 (Surr)	100		42 - 157	07/16/19 17:12	07/17/19 13:20	1
2-Fluorobiphenyl (Surr)	88		43 - 145	07/16/19 17:12	07/17/19 13:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/17/19 14:20	07/18/19 17:10	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 17:10	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 17:10	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/17/19 14:20	07/18/19 17:10	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/17/19 14:20	07/18/19 17:10	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/17/19 14:20	07/18/19 17:10	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/17/19 14:20	07/18/19 17:10	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/17/19 14:20	07/18/19 17:10	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/17/19 14:20	07/18/19 17:10	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/17/19 14:20	07/18/19 17:10	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 17:10	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/17/19 14:20	07/18/19 17:10	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/17/19 14:20	07/18/19 17:10	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/17/19 14:20	07/18/19 17:10	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/17/19 14:20	07/18/19 17:10	1
Pyrene	<0.0048		0.010	0.0048	mg/L		07/17/19 14:20	07/18/19 17:10	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/17/19 14:20	07/18/19 17:10	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/17/19 14:20	07/18/19 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	97		36 - 120	07/17/19 14:20	07/18/19 17:10	1
Terphenyl-d14 (Surr)	116		40 - 145	07/17/19 14:20	07/18/19 17:10	1
2-Fluorobiphenyl (Surr)	100		34 - 110	07/17/19 14:20	07/18/19 17:10	1

Eurofins TestAmerica, Chicago



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166745-1

Client Sample ID: Soil Sample #4

Lab Sample ID: 500-166745-1

Date Collected: 07/15/19 00:00

Matrix: Solid

Date Received: 07/16/19 10:20

Percent Solids: 98.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.059		0.17	0.059	mg/Kg	☒	07/17/19 07:57	07/17/19 16:10	10
PCB-1221	<0.073		0.17	0.073	mg/Kg	☒	07/17/19 07:57	07/17/19 16:10	10
PCB-1232	<0.073		0.17	0.073	mg/Kg	☒	07/17/19 07:57	07/17/19 16:10	10
PCB-1242	<0.055		0.17	0.055	mg/Kg	☒	07/17/19 07:57	07/17/19 16:10	10
PCB-1248	<0.066		0.17	0.066	mg/Kg	☒	07/17/19 07:57	07/17/19 16:10	10
PCB-1254	<0.036		0.17	0.036	mg/Kg	☒	07/17/19 07:57	07/17/19 16:10	10
PCB-1260	<0.082		0.17	0.082	mg/Kg	☒	07/17/19 07:57	07/17/19 16:10	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		49 - 129	07/17/19 07:57	07/17/19 16:10	10
DCB Decachlorobiphenyl	136	X	37 - 121	07/17/19 07:57	07/17/19 16:10	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		1.0	0.34	mg/Kg	☒	07/16/19 15:35	07/17/19 12:09	1
Barium	190		1.0	0.11	mg/Kg	☒	07/16/19 15:35	07/17/19 12:09	1
Cadmium	2.4	B	0.20	0.036	mg/Kg	☒	07/16/19 15:35	07/17/19 12:09	1
Chromium	25		1.0	0.49	mg/Kg	☒	07/16/19 15:35	07/17/19 12:09	1
Lead	600		0.50	0.23	mg/Kg	☒	07/16/19 15:35	07/17/19 12:09	1
Selenium	1.2	B	1.0	0.59	mg/Kg	☒	07/16/19 15:35	07/17/19 12:09	1
Silver	0.84		0.50	0.13	mg/Kg	☒	07/16/19 15:35	07/17/19 12:09	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0091	J	0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 18:30	1
Barium	<0.050		0.50	0.050	mg/L		07/17/19 14:31	07/18/19 18:30	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/17/19 14:31	07/18/19 18:30	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 18:30	1
Lead	0.0040	J	0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 18:30	1
Selenium	<0.010		0.050	0.010	mg/L		07/17/19 14:31	07/18/19 18:30	1
Silver	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 18:30	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/17/19 15:10	07/18/19 09:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.6		0.082	0.027	mg/Kg	☒	07/17/19 14:30	07/18/19 11:32	5



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166745-1

Client Sample ID: Soil Sample #5 (Solid Sample #5)
 Date Collected: 07/15/19 00:00
 Date Received: 07/16/19 10:20
 500 cys of volume

Lab Sample ID: 500-166745-2
 Matrix: Solid
 Percent Solids: 70.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.13	J	0.23	0.041	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Acenaphthylene	0.075	J	0.23	0.030	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Anthracene	0.28		0.23	0.038	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Benzo[a]anthracene	0.84		0.23	0.031	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Benzo[a]pyrene	0.84		0.23	0.045	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Benzo[b]fluoranthene	1.1		0.23	0.050	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Benzo[g,h,i]perylene	0.38		0.23	0.074	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Benzo[k]fluoranthene	0.41		0.23	0.068	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Chrysene	0.97		0.23	0.063	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Dibenz(a,h)anthracene	0.11	J	0.23	0.044	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Fluoranthene	1.9		0.23	0.043	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Fluorene	0.17	J	0.23	0.032	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Indeno[1,2,3-cd]pyrene	0.40		0.23	0.060	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Naphthalene	0.12	J	0.23	0.035	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Phenanthrene	1.2		0.23	0.032	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Pyrene	1.5		0.23	0.046	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
1-Methylnaphthalene	0.099	J	0.46	0.056	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
2-Methylnaphthalene	0.17	J	0.46	0.042	mg/Kg	☒	07/16/19 17:12	07/18/19 15:46	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	82		37 - 147				07/16/19 17:12	07/18/19 15:46	5
Terphenyl-d14 (Surr)	106		42 - 157				07/16/19 17:12	07/18/19 15:46	5
2-Fluorobiphenyl (Surr)	95		43 - 145				07/16/19 17:12	07/18/19 15:46	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/17/19 14:20	07/18/19 17:38	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 17:38	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 17:38	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/17/19 14:20	07/18/19 17:38	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/17/19 14:20	07/18/19 17:38	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/17/19 14:20	07/18/19 17:38	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/17/19 14:20	07/18/19 17:38	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/17/19 14:20	07/18/19 17:38	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/17/19 14:20	07/18/19 17:38	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/17/19 14:20	07/18/19 17:38	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 17:38	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/17/19 14:20	07/18/19 17:38	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/17/19 14:20	07/18/19 17:38	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/17/19 14:20	07/18/19 17:38	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/17/19 14:20	07/18/19 17:38	1
Pyrene	<0.0048		0.010	0.0048	mg/L		07/17/19 14:20	07/18/19 17:38	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/17/19 14:20	07/18/19 17:38	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/17/19 14:20	07/18/19 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	114		36 - 120				07/17/19 14:20	07/18/19 17:38	1
Terphenyl-d14 (Surr)	125		40 - 145				07/17/19 14:20	07/18/19 17:38	1
2-Fluorobiphenyl (Surr)	106		34 - 110				07/17/19 14:20	07/18/19 17:38	1

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Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166745-1

Client Sample ID: Soil Sample #5

Lab Sample ID: 500-166745-2

Date Collected: 07/15/19 00:00

Matrix: Solid

Date Received: 07/16/19 10:20

Percent Solids: 70.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.083		0.23	0.083	mg/Kg	☒	07/17/19 07:57	07/17/19 16:26	10
PCB-1221	<0.10		0.23	0.10	mg/Kg	☒	07/17/19 07:57	07/17/19 16:26	10
PCB-1232	<0.10		0.23	0.10	mg/Kg	☒	07/17/19 07:57	07/17/19 16:26	10
PCB-1242	<0.077		0.23	0.077	mg/Kg	☒	07/17/19 07:57	07/17/19 16:26	10
PCB-1248	<0.092		0.23	0.092	mg/Kg	☒	07/17/19 07:57	07/17/19 16:26	10
PCB-1254	<0.051		0.23	0.051	mg/Kg	☒	07/17/19 07:57	07/17/19 16:26	10
PCB-1260	<0.12		0.23	0.12	mg/Kg	☒	07/17/19 07:57	07/17/19 16:26	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		49 - 129	07/17/19 07:57	07/17/19 16:26	10
DCB Decachlorobiphenyl	174	X	37 - 121	07/17/19 07:57	07/17/19 16:26	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		1.2	0.41	mg/Kg	☒	07/16/19 15:35	07/17/19 12:25	1
Barium	430		1.2	0.14	mg/Kg	☒	07/16/19 15:35	07/17/19 12:25	1
Cadmium	1.5	B	0.24	0.043	mg/Kg	☒	07/16/19 15:35	07/17/19 12:25	1
Chromium	130		1.2	0.59	mg/Kg	☒	07/16/19 15:35	07/17/19 12:25	1
Lead	570		0.60	0.28	mg/Kg	☒	07/16/19 15:35	07/17/19 12:25	1
Selenium	1.5	B	1.2	0.70	mg/Kg	☒	07/16/19 15:35	07/17/19 12:25	1
Silver	0.92		0.60	0.15	mg/Kg	☒	07/16/19 15:35	07/17/19 12:25	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0049	J	0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 18:34	1
Barium	<0.050		0.50	0.050	mg/L		07/17/19 14:31	07/18/19 18:34	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/17/19 14:31	07/18/19 18:34	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 18:34	1
Lead	0.0073	J	0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 18:34	1
Selenium	<0.010		0.050	0.010	mg/L		07/17/19 14:31	07/18/19 18:34	1
Silver	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 18:34	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/17/19 15:10	07/18/19 09:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.9		0.11	0.038	mg/Kg	☒	07/17/19 14:30	07/18/19 11:37	5



ANALYTICAL REPORT

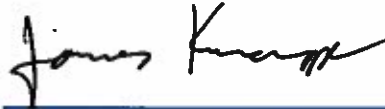
Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-166966-1

Client Project/Site: Rock River Sediment Removal, Janesville

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Riley Underwood



Authorized for release by:
7/24/2019 3:28:44 PM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

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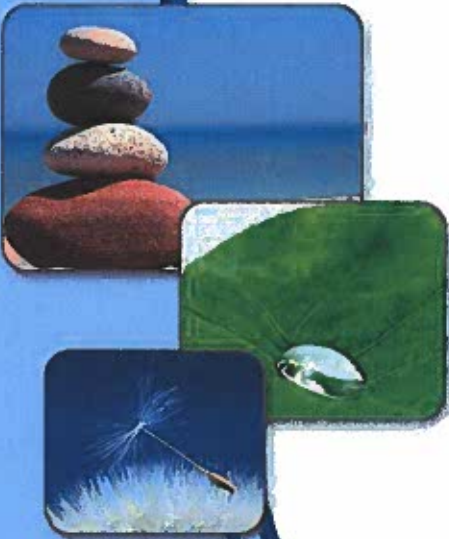
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166966-1

Client Sample ID: NE Geo-Bag #3 (NE Geo-Bag Sample #3)
 Date Collected: 07/18/19 00:00
 Date Received: 07/19/19 10:29
 500 cys of volume

Lab Sample ID: 500-166966-1
 Matrix: Solid
 Percent Solids: 41.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.079	0.014	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Acenaphthylene	<0.010		0.079	0.010	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Anthracene	0.10		0.079	0.013	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Benzo[a]anthracene	0.35		0.079	0.011	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Benzo[a]pyrene	0.35		0.079	0.015	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Benzo[b]fluoranthene	0.43		0.079	0.017	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Benzo[g,h,i]perylene	0.12		0.079	0.026	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Benzo[k]fluoranthene	0.18		0.079	0.023	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Chrysene	0.37		0.079	0.022	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Dibenz(a,h)anthracene	0.038	J	0.079	0.015	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Fluoranthene	0.79		0.079	0.015	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Fluorene	0.047	J	0.079	0.011	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Indeno[1,2,3-cd]pyrene	0.13		0.079	0.021	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Naphthalene	<0.012		0.079	0.012	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Phenanthrene	0.42		0.079	0.011	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
Pyrene	0.66		0.079	0.016	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
1-Methylnaphthalene	<0.019		0.16	0.019	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1
2-Methylnaphthalene	<0.015		0.16	0.015	mg/Kg	*	07/19/19 19:33	07/22/19 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	61		37 - 147	07/19/19 19:33	07/22/19 19:25	1
Terphenyl-d14 (Surr)	89		42 - 157	07/19/19 19:33	07/22/19 19:25	1
2-Fluorobiphenyl (Surr)	69		43 - 145	07/19/19 19:33	07/22/19 19:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Anthracene	<0.0032		0.010	0.0032	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Chrysene	<0.0014		0.0050	0.0014	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Fluorene	<0.0038		0.010	0.0038	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Naphthalene	<0.0030		0.010	0.0030	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
Pyrene	<0.0048		0.010	0.0048	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L	*	07/23/19 21:08	07/24/19 12:35	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L	*	07/23/19 21:08	07/24/19 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	119		36 - 120	07/23/19 21:08	07/24/19 12:35	1
Terphenyl-d14 (Surr)	126		40 - 145	07/23/19 21:08	07/24/19 12:35	1
2-Fluorobiphenyl (Surr)	107		34 - 110	07/23/19 21:08	07/24/19 12:35	1

Eurofins TestAmerica, Chicago



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166966-1

Client Sample ID: NE Geo-Bag #3

Lab Sample ID: 500-166966-1

Date Collected: 07/18/19 00:00

Matrix: Solid

Date Received: 07/19/19 10:29

Percent Solids: 41.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.014		0.039	0.014	mg/Kg	☒	07/22/19 08:47	07/22/19 19:09	1
PCB-1221	<0.017		0.039	0.017	mg/Kg	☒	07/22/19 08:47	07/22/19 19:09	1
PCB-1232	<0.017		0.039	0.017	mg/Kg	☒	07/22/19 08:47	07/22/19 19:09	1
PCB-1242	<0.013		0.039	0.013	mg/Kg	☒	07/22/19 08:47	07/22/19 19:09	1
PCB-1248	<0.015		0.039	0.015	mg/Kg	☒	07/22/19 08:47	07/22/19 19:09	1
PCB-1254	<0.0085		0.039	0.0085	mg/Kg	☒	07/22/19 08:47	07/22/19 19:09	1
PCB-1260	<0.019		0.039	0.019	mg/Kg	☒	07/22/19 08:47	07/22/19 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		49 - 129				07/22/19 08:47	07/22/19 19:09	1
DCB Decachlorobiphenyl	102		37 - 121				07/22/19 08:47	07/22/19 19:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		2.2	0.74	mg/Kg	☒	07/19/19 16:13	07/22/19 11:59	1
Barium	160		2.2	0.25	mg/Kg	☒	07/19/19 16:13	07/22/19 11:59	1
Cadmium	0.67	B	0.43	0.078	mg/Kg	☒	07/19/19 16:13	07/22/19 11:59	1
Chromium	31		2.2	1.1	mg/Kg	☒	07/19/19 16:13	07/22/19 11:59	1
Lead	57		1.1	0.50	mg/Kg	☒	07/19/19 16:13	07/22/19 11:59	1
Selenium	<1.3		2.2	1.3	mg/Kg	☒	07/19/19 16:13	07/22/19 11:59	1
Silver	2.9		1.1	0.28	mg/Kg	☒	07/19/19 16:13	07/22/19 11:59	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0024	J	0.050	0.0020	mg/L		07/23/19 15:15	07/24/19 11:39	1
Barium	<0.050		0.50	0.050	mg/L		07/23/19 15:15	07/24/19 11:39	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/23/19 15:15	07/24/19 11:39	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/23/19 15:15	07/24/19 11:39	1
Lead	<0.0020		0.050	0.0020	mg/L		07/23/19 15:15	07/24/19 11:39	1
Selenium	<0.010		0.050	0.010	mg/L		07/23/19 15:15	07/24/19 11:39	1
Silver	<0.0050		0.025	0.0050	mg/L		07/23/19 15:15	07/24/19 11:39	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/23/19 16:20	07/24/19 09:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4	B	0.038	0.013	mg/Kg	☒	07/22/19 14:50	07/23/19 09:48	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166966-1

Client Sample ID: Solid Sample #6

*330ml
500 cys of volume*

Lab Sample ID: 500-166966-2

Date Collected: 07/18/19 00:00

Matrix: Solid

Date Received: 07/19/19 10:29

Percent Solids: 63.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.080		0.052	0.0094	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Acenaphthylene	0.048	J	0.052	0.0069	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Anthracene	0.26		0.052	0.0087	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Benzo[a]anthracene	0.61		0.052	0.0070	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Benzo[a]pyrene	0.57		0.052	0.010	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Benzo[b]fluoranthene	0.82		0.052	0.011	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Benzo[g,h,i]perylene	0.19		0.052	0.017	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Benzo[k]fluoranthene	0.31		0.052	0.015	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Chrysene	0.63		0.052	0.014	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Dibenz(a,h)anthracene	0.068		0.052	0.010	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Fluoranthene	1.5		0.052	0.0097	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Fluorene	0.12		0.052	0.0073	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Indeno[1,2,3-cd]pyrene	0.21		0.052	0.014	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Naphthalene	0.13		0.052	0.0080	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Phenanthrene	0.80		0.052	0.0073	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
Pyrene	1.1		0.052	0.010	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
1-Methylnaphthalene	0.16		0.11	0.013	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1
2-Methylnaphthalene	0.22		0.11	0.0096	mg/Kg	☒	07/19/19 19:33	07/22/19 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		37 - 147	07/19/19 19:33	07/22/19 19:54	1
Terphenyl-d14 (Surr)	107		42 - 157	07/19/19 19:33	07/22/19 19:54	1
2-Fluorobiphenyl (Surr)	92		43 - 145	07/19/19 19:33	07/22/19 19:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/23/19 21:08	07/24/19 13:01	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/23/19 21:08	07/24/19 13:01	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/23/19 21:08	07/24/19 13:01	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/23/19 21:08	07/24/19 13:01	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/23/19 21:08	07/24/19 13:01	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/23/19 21:08	07/24/19 13:01	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/23/19 21:08	07/24/19 13:01	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/23/19 21:08	07/24/19 13:01	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/23/19 21:08	07/24/19 13:01	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/23/19 21:08	07/24/19 13:01	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/23/19 21:08	07/24/19 13:01	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/23/19 21:08	07/24/19 13:01	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/23/19 21:08	07/24/19 13:01	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/23/19 21:08	07/24/19 13:01	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/23/19 21:08	07/24/19 13:01	1
Pyrene	<0.0048		0.010	0.0048	mg/L		07/23/19 21:08	07/24/19 13:01	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/23/19 21:08	07/24/19 13:01	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/23/19 21:08	07/24/19 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	104		36 - 120	07/23/19 21:08	07/24/19 13:01	1
Terphenyl-d14 (Surr)	117		40 - 145	07/23/19 21:08	07/24/19 13:01	1
2-Fluorobiphenyl (Surr)	95		34 - 110	07/23/19 21:08	07/24/19 13:01	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166966-1

Client Sample ID: Solid Sample #6

Lab Sample ID: 500-166966-2

Date Collected: 07/18/19 00:00

Matrix: Solid

Date Received: 07/19/19 10:29

Percent Solids: 63.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0091		0.026	0.0091	mg/Kg	☒	07/22/19 08:47	07/22/19 19:25	1
PCB-1221	<0.011		0.026	0.011	mg/Kg	☒	07/22/19 08:47	07/22/19 19:25	1
PCB-1232	<0.011		0.026	0.011	mg/Kg	☒	07/22/19 08:47	07/22/19 19:25	1
PCB-1242	<0.0085		0.026	0.0085	mg/Kg	☒	07/22/19 08:47	07/22/19 19:25	1
PCB-1248	<0.010		0.026	0.010	mg/Kg	☒	07/22/19 08:47	07/22/19 19:25	1
PCB-1254	<0.0056		0.026	0.0056	mg/Kg	☒	07/22/19 08:47	07/22/19 19:25	1
PCB-1260	<0.013		0.026	0.013	mg/Kg	☒	07/22/19 08:47	07/22/19 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		49 - 129	07/22/19 08:47	07/22/19 19:25	1
DCB Decachlorobiphenyl	173	X	37 - 121	07/22/19 08:47	07/22/19 19:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		1.4	0.48	mg/Kg	☒	07/19/19 16:13	07/22/19 12:03	1
Barium	100		1.4	0.16	mg/Kg	☒	07/19/19 16:13	07/22/19 12:03	1
Cadmium	0.41	B	0.28	0.051	mg/Kg	☒	07/19/19 16:13	07/22/19 12:03	1
Chromium	17		1.4	0.70	mg/Kg	☒	07/19/19 16:13	07/22/19 12:03	1
Lead	96		0.71	0.33	mg/Kg	☒	07/19/19 16:13	07/22/19 12:03	1
Selenium	<0.83		1.4	0.83	mg/Kg	☒	07/19/19 16:13	07/22/19 12:03	1
Silver	1.4		0.71	0.18	mg/Kg	☒	07/19/19 16:13	07/22/19 12:03	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0038	J	0.050	0.0020	mg/L		07/23/19 15:15	07/24/19 11:43	1
Barium	<0.050		0.50	0.050	mg/L		07/23/19 15:15	07/24/19 11:43	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/23/19 15:15	07/24/19 11:43	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/23/19 15:15	07/24/19 11:43	1
Lead	<0.0020		0.050	0.0020	mg/L		07/23/19 15:15	07/24/19 11:43	1
Selenium	<0.010		0.050	0.010	mg/L		07/23/19 15:15	07/24/19 11:43	1
Silver	<0.0050		0.025	0.0050	mg/L		07/23/19 15:15	07/24/19 11:43	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/23/19 16:20	07/24/19 09:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.9	B	0.12	0.040	mg/Kg	☒	07/22/19 14:50	07/23/19 10:41	5



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166966-1

Client Sample ID: Drying Bed Sample

Lab Sample ID: 500-166966-3

Date Collected: 07/18/19 00:00

500 cys of volume

Matrix: Solid

Date Received: 07/19/19 10:29

Percent Solids: 60.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.13	J	0.27	0.049	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Acenaphthylene	<0.036		0.27	0.036	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Anthracene	0.32		0.27	0.045	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Benzo[a]anthracene	0.71		0.27	0.037	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Benzo[a]pyrene	0.66		0.27	0.053	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Benzo[b]fluoranthene	0.92		0.27	0.059	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Benzo[g,h,i]perylene	0.19	J	0.27	0.088	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Benzo[k]fluoranthene	0.60		0.27	0.080	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Chrysene	0.98		0.27	0.074	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Dibenz(a,h)anthracene	<0.053		0.27	0.053	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Fluoranthene	1.8		0.27	0.050	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Fluorene	0.088	J	0.27	0.038	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Indeno[1,2,3-cd]pyrene	0.24	J	0.27	0.070	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Naphthalene	<0.042		0.27	0.042	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Phenanthrene	1.1		0.27	0.038	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Pyrene	1.5		0.27	0.054	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
1-Methylnaphthalene	<0.066		0.55	0.066	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
2-Methylnaphthalene	<0.050		0.55	0.050	mg/Kg	☒	07/19/19 19:33	07/23/19 15:27	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	37		37 - 147				07/19/19 19:33	07/23/19 15:27	5
Terphenyl-d14 (Surr)	99		42 - 157				07/19/19 19:33	07/23/19 15:27	5
2-Fluorobiphenyl (Surr)	80		43 - 145				07/19/19 19:33	07/23/19 15:27	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/23/19 21:08	07/24/19 13:28	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/23/19 21:08	07/24/19 13:28	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/23/19 21:08	07/24/19 13:28	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/23/19 21:08	07/24/19 13:28	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/23/19 21:08	07/24/19 13:28	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/23/19 21:08	07/24/19 13:28	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/23/19 21:08	07/24/19 13:28	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/23/19 21:08	07/24/19 13:28	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/23/19 21:08	07/24/19 13:28	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/23/19 21:08	07/24/19 13:28	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/23/19 21:08	07/24/19 13:28	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/23/19 21:08	07/24/19 13:28	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/23/19 21:08	07/24/19 13:28	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/23/19 21:08	07/24/19 13:28	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/23/19 21:08	07/24/19 13:28	1
Pyrene	<0.0048	F1	0.010	0.0048	mg/L		07/23/19 21:08	07/24/19 13:28	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/23/19 21:08	07/24/19 13:28	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/23/19 21:08	07/24/19 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	117		36 - 120				07/23/19 21:08	07/24/19 13:28	1
Terphenyl-d14 (Surr)	127		40 - 145				07/23/19 21:08	07/24/19 13:28	1
2-Fluorobiphenyl (Surr)	112	X	34 - 110				07/23/19 21:08	07/24/19 13:28	1

Eurofins TestAmerica, Chicago



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166966-1

Client Sample ID: Drying Bed Sample

Lab Sample ID: 500-166966-3

Date Collected: 07/18/19 00:00

Matrix: Solid

Date Received: 07/19/19 10:29

Percent Solids: 60.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0094		0.027	0.0094	mg/Kg	☼	07/22/19 08:47	07/22/19 19:40	1
PCB-1221	<0.012		0.027	0.012	mg/Kg	☼	07/22/19 08:47	07/22/19 19:40	1
PCB-1232	<0.012		0.027	0.012	mg/Kg	☼	07/22/19 08:47	07/22/19 19:40	1
PCB-1242	<0.0088		0.027	0.0088	mg/Kg	☼	07/22/19 08:47	07/22/19 19:40	1
PCB-1248	<0.011		0.027	0.011	mg/Kg	☼	07/22/19 08:47	07/22/19 19:40	1
PCB-1254	<0.0058		0.027	0.0058	mg/Kg	☼	07/22/19 08:47	07/22/19 19:40	1
PCB-1260	<0.013		0.027	0.013	mg/Kg	☼	07/22/19 08:47	07/22/19 19:40	1

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		49 - 129	07/22/19 08:47	07/22/19 19:40	1
DCB Decachlorobiphenyl	82		37 - 121	07/22/19 08:47	07/22/19 19:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		1.5	0.52	mg/Kg	☼	07/19/19 16:13	07/22/19 12:07	1
Barium	96		1.5	0.17	mg/Kg	☼	07/19/19 16:13	07/22/19 12:07	1
Cadmium	0.48	B	0.30	0.055	mg/Kg	☼	07/19/19 16:13	07/22/19 12:07	1
Chromium	15		1.5	0.75	mg/Kg	☼	07/19/19 16:13	07/22/19 12:07	1
Lead	190		0.76	0.35	mg/Kg	☼	07/19/19 16:13	07/22/19 12:07	1
Selenium	<0.89		1.5	0.89	mg/Kg	☼	07/19/19 16:13	07/22/19 12:07	1
Silver	1.4		0.76	0.20	mg/Kg	☼	07/19/19 16:13	07/22/19 12:07	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0036	J	0.050	0.0020	mg/L		07/23/19 15:15	07/24/19 11:47	1
Barium	<0.050		0.50	0.050	mg/L		07/23/19 15:15	07/24/19 11:47	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/23/19 15:15	07/24/19 11:47	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/23/19 15:15	07/24/19 11:47	1
Lead	<0.0020		0.050	0.0020	mg/L		07/23/19 15:15	07/24/19 11:47	1
Selenium	<0.010		0.050	0.010	mg/L		07/23/19 15:15	07/24/19 11:47	1
Silver	<0.0050		0.025	0.0050	mg/L		07/23/19 15:15	07/24/19 11:47	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/23/19 16:20	07/24/19 09:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29	B	0.026	0.0087	mg/Kg	☼	07/22/19 14:50	07/23/19 09:56	1





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ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-167373-2
Client Project/Site: Rock River Sediment Removal, Janesville

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Mr. Daniel Dunn

Authorized for release by:
8/2/2019 3:48:31 PM
Eric Lang, Manager of Project Management
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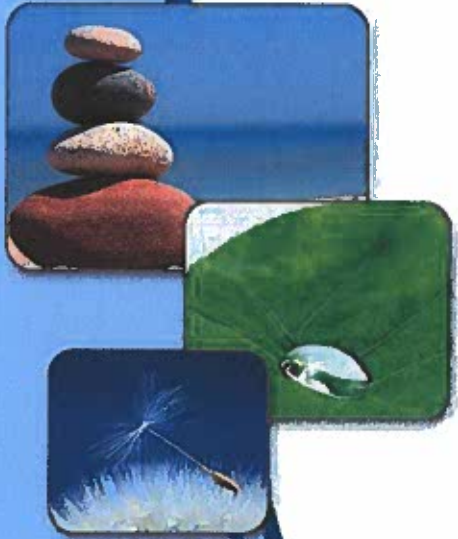
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: QC #1

(Duplicate of Solid Sample #7)

Lab Sample ID: 500-167373-1

Date Collected: 07/24/19 00:00

Matrix: Solid

Date Received: 07/26/19 15:49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 10:57	1
Acenaphthylene	0.0042	J	0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 10:57	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 10:57	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 10:57	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 10:57	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 10:57	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 10:57	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 10:57	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 10:57	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 10:57	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 10:57	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 10:57	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 10:57	1
Naphthalene	0.015		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 10:57	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 10:57	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 10:57	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 10:57	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 10:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	85		36 - 120				08/01/19 16:09	08/02/19 10:57	1
Terphenyl-d14 (Surr)	116		40 - 145				08/01/19 16:09	08/02/19 10:57	1
2-Fluorobiphenyl (Surr)	84		34 - 110				08/01/19 16:09	08/02/19 10:57	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0031	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:32	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 17:32	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 17:32	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:32	1
Lead	0.0033	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:32	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 17:32	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:32	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 08:56	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: QC #2
Date Collected: 07/24/19 00:00
Date Received: 07/26/19 15:49

(Duplicate of solid sample #12)

Lab Sample ID: 500-167373-2
Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 11:21	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 11:21	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 11:21	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 11:21	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 11:21	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 11:21	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 11:21	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 11:21	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 11:21	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 11:21	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 11:21	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 11:21	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 11:21	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 11:21	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 11:21	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 11:21	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 11:21	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 11:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	80		36 - 120				08/01/19 16:09	08/02/19 11:21	1
Terphenyl-d14 (Surr)	107		40 - 145				08/01/19 16:09	08/02/19 11:21	1
2-Fluorobiphenyl (Surr)	78		34 - 110				08/01/19 16:09	08/02/19 11:21	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0023	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:36	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 17:36	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 17:36	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:36	1
Lead	0.0054	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:36	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 17:36	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:36	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 08:57	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: Solid sample #1-300yds

Lab Sample ID: 500-167373-3

Date Collected: 07/25/19 00:00

300cys of volume

Matrix: Solid

Date Received: 07/26/19 15:49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 11:45	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 11:45	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 11:45	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 11:45	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 11:45	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 11:45	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 11:45	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 11:45	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 11:45	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 11:45	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 11:45	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 11:45	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 11:45	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 11:45	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 11:45	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 11:45	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 11:45	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	88		36 - 120	08/01/19 16:09	08/02/19 11:45	1
Terphenyl-d14 (Surr)	113		40 - 145	08/01/19 16:09	08/02/19 11:45	1
2-Fluorobiphenyl (Surr)	86		34 - 110	08/01/19 16:09	08/02/19 11:45	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0034	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:40	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 17:40	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 17:40	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:40	1
Lead	0.0054	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:40	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 17:40	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:40	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 08:59	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: Solid sample #2-Leach

Lab Sample ID: 500-167373-4

Date Collected: 07/25/19 00:00

Matrix: Solid

Date Received: 07/26/19 15:49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 12:10	1
Acenaphthylene	0.0089	J	0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:10	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:10	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 12:10	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 12:10	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 12:10	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 12:10	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 12:10	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 12:10	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 12:10	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:10	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 12:10	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 12:10	1
Naphthalene	0.037		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 12:10	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 12:10	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 12:10	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 12:10	1
2-Methylnaphthalene	0.0014	J	0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 12:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	78		36 - 120				08/01/19 16:09	08/02/19 12:10	1
Terphenyl-d14 (Surr)	100		40 - 145				08/01/19 16:09	08/02/19 12:10	1
2-Fluorobiphenyl (Surr)	77		34 - 110				08/01/19 16:09	08/02/19 12:10	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0053	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:43	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 17:43	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 17:43	1
Chromium	0.018	J	0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:43	1
Lead	0.049	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:43	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 17:43	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:43	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 09:00	1

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: Solid Sample #7

Lab Sample ID: 500-167373-5

Date Collected: 07/25/19 00:00

500cys of volume

Matrix: Solid

Date Received: 07/26/19 15:49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 12:34	1
Acenaphthylene	0.0035	J	0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:34	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:34	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 12:34	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 12:34	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 12:34	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 12:34	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 12:34	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 12:34	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 12:34	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:34	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 12:34	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 12:34	1
Naphthalene	0.016		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 12:34	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 12:34	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 12:34	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 12:34	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 12:34	1

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	74		36 - 120	08/01/19 16:09	08/02/19 12:34	1
Terphenyl-d14 (Surr)	101		40 - 145	08/01/19 16:09	08/02/19 12:34	1
2-Fluorobiphenyl (Surr)	76		34 - 110	08/01/19 16:09	08/02/19 12:34	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0044	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:47	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 17:47	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 17:47	1
Chromium	0.0050	J	0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:47	1
Lead	0.011	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:47	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 17:47	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:47	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 09:02	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: Solid Sample #8

Lab Sample ID: 500-167373-6

Date Collected: 07/25/19 00:00

500 cys of volume

Matrix: Solid

Date Received: 07/26/19 15:49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 12:59	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:59	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:59	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 12:59	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 12:59	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 12:59	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 12:59	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 12:59	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 12:59	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 12:59	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:59	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 12:59	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 12:59	1
Naphthalene	0.0096	J	0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 12:59	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 12:59	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 12:59	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 12:59	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		36 - 120	08/01/19 16:09	08/02/19 12:59	1
Terphenyl-d14 (Surr)	104		40 - 145	08/01/19 16:09	08/02/19 12:59	1
2-Fluorobiphenyl (Surr)	78		34 - 110	08/01/19 16:09	08/02/19 12:59	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0039	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:51	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 17:51	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 17:51	1
Chromium	0.0052	J	0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:51	1
Lead	0.012	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 17:51	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 17:51	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 17:51	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 09:04	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: Solid Sample #9

Lab Sample ID: 500-167373-7

Date Collected: 07/25/19 00:00

500cys of volume

Matrix: Solid

Date Received: 07/26/19 15:49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 13:23	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 13:23	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 13:23	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 13:23	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 13:23	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 13:23	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 13:23	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 13:23	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 13:23	1
Dibenz[a,h]anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 13:23	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 13:23	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 13:23	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 13:23	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 13:23	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 13:23	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 13:23	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 13:23	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		36 - 120	08/01/19 16:09	08/02/19 13:23	1
Terphenyl-d14 (Surr)	101		40 - 145	08/01/19 16:09	08/02/19 13:23	1
2-Fluorobiphenyl (Surr)	75		34 - 110	08/01/19 16:09	08/02/19 13:23	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0047	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:03	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 18:03	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 18:03	1
Chromium	0.0056	J	0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:03	1
Lead	0.012	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:03	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 18:03	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:03	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 09:05	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: Solid Sample #0 (Solid Sample #10)
 Date Collected: 07/25/19 00:00
 Date Received: 07/26/19 15:49

Lab Sample ID: 500-167373-8
 Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 13:48	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 13:48	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 13:48	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 13:48	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 13:48	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 13:48	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 13:48	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 13:48	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 13:48	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 13:48	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 13:48	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 13:48	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 13:48	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 13:48	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 13:48	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 13:48	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 13:48	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	77		36 - 120				08/01/19 16:09	08/02/19 13:48	1
Terphenyl-d14 (Surr)	103		40 - 145				08/01/19 16:09	08/02/19 13:48	1
2-Fluorobiphenyl (Surr)	77		34 - 110				08/01/19 16:09	08/02/19 13:48	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0048	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:06	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 18:06	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 18:06	1
Chromium	0.0058	J	0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:06	1
Lead	0.011	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:06	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 18:06	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:06	1

Method: 7470A - Mercury (CVAA) - ASTM Leach									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 09:14	1

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Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: Solid Sample #11 *(Considered a duplicate sample of Geo-Bag Sample #1 with Leach Analysis)* **Lab Sample ID: 500-167373-9**
Date Collected: 07/25/19 00:00 **Matrix: Solid**
Date Received: 07/26/19 15:49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 14:12	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:12	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:12	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 14:12	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 14:12	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 14:12	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 14:12	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 14:12	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 14:12	1
Dibenz[a,h]anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 14:12	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:12	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 14:12	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 14:12	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 14:12	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 14:12	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 14:12	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 14:12	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	88		36 - 120				08/01/19 16:09	08/02/19 14:12	1
Terphenyl-d14 (Surr)	113		40 - 145				08/01/19 16:09	08/02/19 14:12	1
2-Fluorobiphenyl (Surr)	90		34 - 110				08/01/19 16:09	08/02/19 14:12	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0055	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:10	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 18:10	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 18:10	1
Chromium	0.0052	J	0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:10	1
Lead	0.013	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:10	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 18:10	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:10	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 09:16	1

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: Solid Sample #12

Lab Sample ID: 500-167373-10

Date Collected: 07/25/19 00:00

500 cys of volume

Matrix: Solid

Date Received: 07/26/19 15:49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 14:37	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:37	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:37	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 14:37	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 14:37	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 14:37	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 14:37	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 14:37	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 14:37	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 14:37	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:37	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 14:37	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 14:37	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 14:37	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 14:37	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 14:37	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 14:37	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	84		36 - 120	08/01/19 16:09	08/02/19 14:37	1
Terphenyl-d14 (Surr)	112		40 - 145	08/01/19 16:09	08/02/19 14:37	1
2-Fluorobiphenyl (Surr)	85		34 - 110	08/01/19 16:09	08/02/19 14:37	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0029	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:14	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 18:14	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 18:14	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:14	1
Lead	0.0026	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:14	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 18:14	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:14	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 09:17	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: Solid Sample #13

Lab Sample ID: 500-167373-11

Date Collected: 07/25/19 00:00

500ccs of volume

Matrix: Solid

Date Received: 07/26/19 15:49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 14:17	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:17	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:17	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 14:17	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 14:17	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 14:17	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 14:17	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 14:17	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 14:17	1
Dibenz[a,h]anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 14:17	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:17	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 14:17	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 14:17	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 14:17	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 14:17	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 14:17	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 14:17	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	101		36 - 120	08/01/19 16:09	08/02/19 14:17	1
Terphenyl-d14 (Surr)	105		40 - 145	08/01/19 16:09	08/02/19 14:17	1
2-Fluorobiphenyl (Surr)	91		34 - 110	08/01/19 16:09	08/02/19 14:17	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0052	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:18	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 18:18	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 18:18	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:18	1
Lead	0.0055	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:18	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 18:18	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:18	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 09:19	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167373-2

Client Sample ID: Solid Sample #14

Lab Sample ID: 500-167373-12

Date Collected: 07/25/19 00:00

500 cys of volume

Matrix: Solid

Date Received: 07/26/19 15:49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 14:44	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:44	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:44	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 14:44	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 14:44	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 14:44	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 14:44	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 14:44	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 14:44	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 14:44	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 14:44	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 14:44	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 14:44	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 14:44	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 14:44	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 14:44	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 14:44	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	106		36 - 120	08/01/19 16:09	08/02/19 14:44	1
Terphenyl-d14 (Surr)	103		40 - 145	08/01/19 16:09	08/02/19 14:44	1
2-Fluorobiphenyl (Surr)	87		34 - 110	08/01/19 16:09	08/02/19 14:44	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0074	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:22	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 18:22	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 18:22	1
Chromium	0.0078	J	0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:22	1
Lead	0.021	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 18:22	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 18:22	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 18:22	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 09:21	1





Environment Testing
TestAmerica

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ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-167425-1
Client Project/Site: Rock River Sediment Removal, Janesville

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Riley Underwood

Authorized for release by:
8/2/2019 3:35:03 PM
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167425-1

Client Sample ID: Solid Sample #15

Lab Sample ID: 500-167425-1

Date Collected: 07/26/19 00:00

500 cys of volume

Matrix: Solid

Date Received: 07/27/19 09:10

Percent Solids: 54.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.11	J	0.59	0.11	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Acenaphthylene	0.11	J	0.59	0.079	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Anthracene	0.18	J	0.59	0.099	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Benzo[a]anthracene	0.64		0.59	0.080	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Benzo[a]pyrene	0.48	J	0.59	0.12	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Benzo[b]fluoranthene	0.73		0.59	0.13	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Benzo[g,h,i]perylene	<0.19		0.59	0.19	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Benzo[k]fluoranthene	0.25	J	0.59	0.18	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Chrysene	1.0		0.59	0.16	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Dibenz(a,h)anthracene	<0.12		0.59	0.12	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Fluoranthene	1.5		0.59	0.11	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Fluorene	0.097	J	0.59	0.084	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Indeno[1,2,3-cd]pyrene	0.22	J	0.59	0.15	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Naphthalene	<0.092		0.59	0.092	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Phenanthrene	1.0		0.59	0.083	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
Pyrene	1.5		0.59	0.12	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
1-Methylnaphthalene	0.20	J	1.2	0.15	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10
2-Methylnaphthalene	0.33	J	1.2	0.11	mg/Kg	☒	07/29/19 18:56	07/30/19 16:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	98		37 - 147	07/29/19 18:56	07/30/19 16:29	10
Terphenyl-d14 (Surr)	100		42 - 157	07/29/19 18:56	07/30/19 16:29	10
2-Fluorobiphenyl (Surr)	86		43 - 145	07/29/19 18:56	07/30/19 16:29	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 12:30	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:30	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:30	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 12:30	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 12:30	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 12:30	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 12:30	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 12:30	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 12:30	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 12:30	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:30	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 12:30	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 12:30	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 12:30	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 12:30	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 12:30	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 12:30	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	111		36 - 120	08/01/19 16:09	08/02/19 12:30	1
Terphenyl-d14 (Surr)	112		40 - 145	08/01/19 16:09	08/02/19 12:30	1
2-Fluorobiphenyl (Surr)	97		34 - 110	08/01/19 16:09	08/02/19 12:30	1

Eurofins TestAmerica, Chicago



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167425-1

Client Sample ID: Solid Sample #15

Lab Sample ID: 500-167425-1

Date Collected: 07/26/19 00:00

Matrix: Solid

Date Received: 07/27/19 09:10

Percent Solids: 54.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.11		0.30	0.11	mg/Kg	☒	07/29/19 08:25	07/29/19 20:18	10
PCB-1221	<0.13		0.30	0.13	mg/Kg	☒	07/29/19 08:25	07/29/19 20:18	10
PCB-1232	<0.13		0.30	0.13	mg/Kg	☒	07/29/19 08:25	07/29/19 20:18	10
PCB-1242	<0.10		0.30	0.10	mg/Kg	☒	07/29/19 08:25	07/29/19 20:18	10
PCB-1248	<0.12		0.30	0.12	mg/Kg	☒	07/29/19 08:25	07/29/19 20:18	10
PCB-1254	<0.065		0.30	0.065	mg/Kg	☒	07/29/19 08:25	07/29/19 20:18	10
PCB-1260	<0.15		0.30	0.15	mg/Kg	☒	07/29/19 08:25	07/29/19 20:18	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	114		49 - 129	07/29/19 08:25	07/29/19 20:18	10
DCB Decachlorobiphenyl	109		37 - 121	07/29/19 08:25	07/29/19 20:18	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.4		1.8	0.62	mg/Kg	☒	07/30/19 08:35	07/30/19 23:37	1
Barium	230		1.8	0.21	mg/Kg	☒	07/30/19 08:35	07/30/19 23:37	1
Cadmium	1.1	B	0.36	0.065	mg/Kg	☒	07/30/19 08:35	07/30/19 23:37	1
Chromium	29		1.8	0.89	mg/Kg	☒	07/30/19 08:35	07/30/19 23:37	1
Lead	370		0.90	0.42	mg/Kg	☒	07/30/19 08:35	07/30/19 23:37	1
Selenium	1.1	J B	1.8	1.1	mg/Kg	☒	07/30/19 08:35	07/30/19 23:37	1
Silver	2.3		0.90	0.23	mg/Kg	☒	07/30/19 08:35	07/30/19 23:37	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0096	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 12:36	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 12:36	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 12:36	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 12:36	1
Lead	0.013	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 12:36	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 12:36	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 12:36	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 08:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.8		0.14	0.048	mg/Kg	☒	07/30/19 14:15	07/31/19 12:41	5

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167425-1

Client Sample ID: Solid Sample #16

Date Collected: 07/26/19 00:00

Date Received: 07/27/19 09:10

500 cys of volume

Lab Sample ID: 500-167425-2

Matrix: Solid

Percent Solids: 61.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.80		0.53	0.095	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Acenaphthylene	<0.070		0.53	0.070	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Anthracene	<0.089		0.53	0.089	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Benzo[a]anthracene	4.3		0.53	0.071	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Benzo[a]pyrene	2.8		0.53	0.10	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Benzo[b]fluoranthene	3.3		0.53	0.11	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Benzo[g,h,i]perylene	0.83		0.53	0.17	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Benzo[k]fluoranthene	2.6		0.53	0.16	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Chrysene	4.7		0.53	0.14	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Dibenz(a,h)anthracene	0.30	J	0.53	0.10	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Fluoranthene	8.4		0.53	0.098	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Fluorene	1.5		0.53	0.074	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Indeno[1,2,3-cd]pyrene	0.85		0.53	0.14	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Naphthalene	2.2		0.53	0.082	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Phenanthrene	9.3		0.53	0.074	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Pyrene	7.0		0.53	0.11	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
1-Methylnaphthalene	3.7		1.1	0.13	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
2-Methylnaphthalene	4.5		1.1	0.097	mg/Kg	☒	07/29/19 18:56	07/30/19 16:59	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	189	X	37 - 147				07/29/19 18:56	07/30/19 16:59	10
Terphenyl-d14 (Surr)	119		42 - 157				07/29/19 18:56	07/30/19 16:59	10
2-Fluorobiphenyl (Surr)	93		43 - 145				07/29/19 18:56	07/30/19 16:59	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 12:56	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:56	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:56	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 12:56	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 12:56	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 12:56	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 12:56	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 12:56	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 12:56	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 12:56	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 12:56	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 12:56	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 12:56	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 12:56	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 12:56	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 12:56	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 12:56	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	101		36 - 120				08/01/19 16:09	08/02/19 12:56	1
Terphenyl-d14 (Surr)	99		40 - 145				08/01/19 16:09	08/02/19 12:56	1
2-Fluorobiphenyl (Surr)	87		34 - 110				08/01/19 16:09	08/02/19 12:56	1

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167425-1

Client Sample ID: Solid Sample #16

Lab Sample ID: 500-167425-2

Date Collected: 07/26/19 00:00

Matrix: Solid

Date Received: 07/27/19 09:10

Percent Solids: 61.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.094		0.26	0.094	mg/Kg	☒	07/29/19 08:25	07/29/19 20:33	10
PCB-1221	<0.12		0.26	0.12	mg/Kg	☒	07/29/19 08:25	07/29/19 20:33	10
PCB-1232	<0.12		0.26	0.12	mg/Kg	☒	07/29/19 08:25	07/29/19 20:33	10
PCB-1242	<0.087		0.26	0.087	mg/Kg	☒	07/29/19 08:25	07/29/19 20:33	10
PCB-1248	<0.10		0.26	0.10	mg/Kg	☒	07/29/19 08:25	07/29/19 20:33	10
PCB-1254	<0.057		0.26	0.057	mg/Kg	☒	07/29/19 08:25	07/29/19 20:33	10
PCB-1260	<0.13		0.26	0.13	mg/Kg	☒	07/29/19 08:25	07/29/19 20:33	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	116		49 - 129				07/29/19 08:25	07/29/19 20:33	10
DCB Decachlorobiphenyl	104		37 - 121				07/29/19 08:25	07/29/19 20:33	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		7.6	2.6	mg/Kg	☒	07/30/19 08:35	07/31/19 11:57	5
Barium	4000		7.6	0.87	mg/Kg	☒	07/30/19 08:35	07/31/19 11:57	5
Cadmium	9.9	B	1.5	0.27	mg/Kg	☒	07/30/19 08:35	07/31/19 11:57	5
Chromium	350		7.6	3.8	mg/Kg	☒	07/30/19 08:35	07/31/19 11:57	5
Lead	2000		0.76	0.35	mg/Kg	☒	07/30/19 08:35	07/30/19 23:41	1
Selenium	2.6	B	1.5	0.90	mg/Kg	☒	07/30/19 08:35	07/30/19 23:41	1
Silver	1.6		0.76	0.20	mg/Kg	☒	07/30/19 08:35	07/30/19 23:41	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0061	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 12:40	1
Barium	0.067	J	0.50	0.050	mg/L		07/30/19 14:34	07/31/19 12:40	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 12:40	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 12:40	1
Lead	0.011	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 12:40	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 12:40	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 12:40	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 08:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.4		0.52	0.17	mg/Kg	☒	07/30/19 14:15	07/31/19 12:43	20



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167425-1

Client Sample ID: Solid Sample #17

Lab Sample ID: 500-167425-3

Date Collected: 07/26/19 00:00

500cys of volume

Matrix: Solid

Date Received: 07/27/19 09:10

Percent Solids: 44.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.69	J	0.71	0.13	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Acenaphthylene	<0.095		0.71	0.095	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Anthracene	1.9		0.71	0.12	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Benzo[a]anthracene	5.1		0.71	0.096	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Benzo[a]pyrene	4.0		0.71	0.14	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Benzo[b]fluoranthene	5.4		0.71	0.15	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Benzo[g,h,i]perylene	1.2		0.71	0.23	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Benzo[k]fluoranthene	2.2		0.71	0.21	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Chrysene	4.8		0.71	0.20	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Dibenz(a,h)anthracene	0.36	J	0.71	0.14	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Fluoranthene	12		0.71	0.13	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Fluorene	0.84		0.71	0.10	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Indeno[1,2,3-cd]pyrene	1.2		0.71	0.19	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Naphthalene	0.22	J	0.71	0.11	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Phenanthrene	6.4		0.71	0.10	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Pyrene	9.1		0.71	0.14	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
1-Methylnaphthalene	0.25	J	1.4	0.18	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
2-Methylnaphthalene	0.33	J	1.4	0.13	mg/Kg	☒	07/29/19 18:56	07/30/19 17:28	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		37 - 147				07/29/19 18:56	07/30/19 17:28	10
Terphenyl-d14 (Surr)	104		42 - 157				07/29/19 18:56	07/30/19 17:28	10
2-Fluorobiphenyl (Surr)	85		43 - 145				07/29/19 18:56	07/30/19 17:28	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach									
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		08/01/19 16:09	08/02/19 13:23	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 13:23	1
Anthracene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 13:23	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		08/01/19 16:09	08/02/19 13:23	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		08/01/19 16:09	08/02/19 13:23	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		08/01/19 16:09	08/02/19 13:23	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		08/01/19 16:09	08/02/19 13:23	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		08/01/19 16:09	08/02/19 13:23	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		08/01/19 16:09	08/02/19 13:23	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		08/01/19 16:09	08/02/19 13:23	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		08/01/19 16:09	08/02/19 13:23	1
Fluorene	<0.0038		0.010	0.0038	mg/L		08/01/19 16:09	08/02/19 13:23	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		08/01/19 16:09	08/02/19 13:23	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		08/01/19 16:09	08/02/19 13:23	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		08/01/19 16:09	08/02/19 13:23	1
Pyrene	<0.0048		0.010	0.0048	mg/L		08/01/19 16:09	08/02/19 13:23	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		08/01/19 16:09	08/02/19 13:23	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		08/01/19 16:09	08/02/19 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	99		36 - 120				08/01/19 16:09	08/02/19 13:23	1
Terphenyl-d14 (Surr)	104		40 - 145				08/01/19 16:09	08/02/19 13:23	1
2-Fluorobiphenyl (Surr)	89		34 - 110				08/01/19 16:09	08/02/19 13:23	1

Eurofins TestAmerica, Chicago



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167425-1

Client Sample ID: Solid Sample #17

Lab Sample ID: 500-167425-3

Date Collected: 07/26/19 00:00

Matrix: Solid

Date Received: 07/27/19 09:10

Percent Solids: 44.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.13		0.37	0.13	mg/Kg	☒	07/29/19 08:25	07/29/19 20:49	10
PCB-1221	<0.16		0.37	0.16	mg/Kg	☒	07/29/19 08:25	07/29/19 20:49	10
PCB-1232	<0.16		0.37	0.16	mg/Kg	☒	07/29/19 08:25	07/29/19 20:49	10
PCB-1242	<0.12		0.37	0.12	mg/Kg	☒	07/29/19 08:25	07/29/19 20:49	10
PCB-1248	<0.14		0.37	0.14	mg/Kg	☒	07/29/19 08:25	07/29/19 20:49	10
PCB-1254	<0.079		0.37	0.079	mg/Kg	☒	07/29/19 08:25	07/29/19 20:49	10
PCB-1260	<0.18		0.37	0.18	mg/Kg	☒	07/29/19 08:25	07/29/19 20:49	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		49 - 129				07/29/19 08:25	07/29/19 20:49	10
DCB Decachlorobiphenyl	104		37 - 121				07/29/19 08:25	07/29/19 20:49	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		2.1	0.71	mg/Kg	☒	07/30/19 08:35	07/30/19 23:54	1
Barium	470		2.1	0.24	mg/Kg	☒	07/30/19 08:35	07/30/19 23:54	1
Cadmium	2.4	B	0.42	0.075	mg/Kg	☒	07/30/19 08:35	07/30/19 23:54	1
Chromium	100		2.1	1.0	mg/Kg	☒	07/30/19 08:35	07/30/19 23:54	1
Lead	570		1.0	0.48	mg/Kg	☒	07/30/19 08:35	07/30/19 23:54	1
Selenium	2.5	B	2.1	1.2	mg/Kg	☒	07/30/19 08:35	07/30/19 23:54	1
Silver	2.2		1.0	0.27	mg/Kg	☒	07/30/19 08:35	07/30/19 23:54	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0054	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 12:43	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 12:43	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 12:43	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 12:43	1
Lead	0.0042	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 12:43	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 12:43	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 12:43	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 08:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.89		0.033	0.011	mg/Kg	☒	07/30/19 14:15	07/31/19 12:03	1



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167425-1

Client Sample ID: **Silho Clay** (Silho Clay)

Lab Sample ID: **500-167425-4**

Date Collected: 07/26/19 00:00

Matrix: Solid

Date Received: 07/27/19 09:10

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Anthracene	<0.0062		0.037	0.0062	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Benzo[a]anthracene	<0.0050		0.037	0.0050	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Benzo[a]pyrene	<0.0072		0.037	0.0072	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Benzo[b]fluoranthene	<0.0080		0.037	0.0080	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Chrysene	<0.010		0.037	0.010	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Fluoranthene	<0.0069		0.037	0.0069	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.037	0.0097	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Phenanthrene	<0.0052		0.037	0.0052	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
Pyrene	<0.0074		0.037	0.0074	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
1-Methylnaphthalene	<0.0091		0.075	0.0091	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1
2-Methylnaphthalene	<0.0069		0.075	0.0069	mg/Kg	*	07/29/19 18:56	07/30/19 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	61		37 - 147	07/29/19 18:56	07/30/19 15:59	1
Terphenyl-d14 (Surr)	94		42 - 157	07/29/19 18:56	07/30/19 15:59	1
2-Fluorobiphenyl (Surr)	72		43 - 145	07/29/19 18:56	07/30/19 15:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Anthracene	<0.0032		0.010	0.0032	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Chrysene	<0.0014		0.0050	0.0014	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Fluorene	<0.0038		0.010	0.0038	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Naphthalene	<0.0030		0.010	0.0030	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
Pyrene	<0.0048		0.010	0.0048	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L	*	08/01/19 16:12	08/02/19 13:50	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L	*	08/01/19 16:12	08/02/19 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	107		36 - 120	08/01/19 16:12	08/02/19 13:50	1
Terphenyl-d14 (Surr)	107		40 - 145	08/01/19 16:12	08/02/19 13:50	1
2-Fluorobiphenyl (Surr)	90		34 - 110	08/01/19 16:12	08/02/19 13:50	1

Eurofins TestAmerica, Chicago



Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-167425-1

Client Sample ID: Silho Clay

Lab Sample ID: 500-167425-4

Date Collected: 07/26/19 00:00

Matrix: Solid

Date Received: 07/27/19 09:10

Percent Solids: 85.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.19	0.067	mg/Kg	☒	07/29/19 08:25	07/29/19 21:04	10
PCB-1221	<0.084		0.19	0.084	mg/Kg	☒	07/29/19 08:25	07/29/19 21:04	10
PCB-1232	<0.083		0.19	0.083	mg/Kg	☒	07/29/19 08:25	07/29/19 21:04	10
PCB-1242	<0.063		0.19	0.063	mg/Kg	☒	07/29/19 08:25	07/29/19 21:04	10
PCB-1248	<0.075		0.19	0.075	mg/Kg	☒	07/29/19 08:25	07/29/19 21:04	10
PCB-1254	<0.041		0.19	0.041	mg/Kg	☒	07/29/19 08:25	07/29/19 21:04	10
PCB-1260	<0.094		0.19	0.094	mg/Kg	☒	07/29/19 08:25	07/29/19 21:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		49 - 129	07/29/19 08:25	07/29/19 21:04	10
DCB Decachlorobiphenyl	103		37 - 121	07/29/19 08:25	07/29/19 21:04	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.1		1.1	0.36	mg/Kg	☒	07/30/19 08:35	07/30/19 23:58	1
Barium	93		1.1	0.12	mg/Kg	☒	07/30/19 08:35	07/30/19 23:58	1
Cadmium	0.21	B	0.21	0.038	mg/Kg	☒	07/30/19 08:35	07/30/19 23:58	1
Chromium	16		1.1	0.52	mg/Kg	☒	07/30/19 08:35	07/30/19 23:58	1
Lead	9.1		0.53	0.24	mg/Kg	☒	07/30/19 08:35	07/30/19 23:58	1
Selenium	<0.62		1.1	0.62	mg/Kg	☒	07/30/19 08:35	07/30/19 23:58	1
Silver	3.2		0.53	0.14	mg/Kg	☒	07/30/19 08:35	07/30/19 23:58	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0033	J	0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 12:47	1
Barium	<0.050		0.50	0.050	mg/L		07/30/19 14:34	07/31/19 12:47	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/30/19 14:34	07/31/19 12:47	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 12:47	1
Lead	<0.0020		0.050	0.0020	mg/L		07/30/19 14:34	07/31/19 12:47	1
Selenium	<0.010		0.050	0.010	mg/L		07/30/19 14:34	07/31/19 12:47	1
Silver	<0.0050		0.025	0.0050	mg/L		07/30/19 14:34	07/31/19 12:47	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/30/19 15:40	07/31/19 08:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0061	mg/Kg	☒	07/30/19 14:15	07/31/19 12:06	1