

**2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE
ACTION REPORT
FOR POND 5, LANDFILL 9, AND THE MULTI-UNIT MONITORING SYSTEMS
FORMER J.M. STUART ELECTRIC GENERATING STATION
SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO**

Prepared for:

**Kingfisher Development, LLC.
Rd. 3, Km 19.9
Canovanas, Puerto Rico 00739**

Prepared by:

**Key Environmental, Inc.
200 Third Avenue
Carnegie, Pennsylvania 15106**

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1.0 INTRODUCTION

On behalf of Kingfisher Development, LLC (KD), Key Environmental, Inc. (KEY) has prepared this 2020 Annual Groundwater Monitoring and Corrective Action Report for the Coal Combustion Residuals (CCR) units located at the former J.M. Stuart Electric Generating Station (Site) located in Sprigg Township, Adams County, Ohio. The landfills and ponds at the Site that are classified as CCR units include Pond 5, Landfill 9, Pond 3A, Pond 6, Pond 7/7A, Pond 10 and Landfill 11. Groundwater monitoring networks at the Site include the Pond 5 monitoring system, the Landfill 9 monitoring system and the Multi-unit Monitoring System (MMS). Pond 3A, Pond 6, Pond 7/7A, Pond 10 and Landfill 11 were previously monitored by independent monitoring systems that were reclassified in July 2020 as the MMS, as they are located in close proximity to one another, have similar groundwater conditions, and are in similar monitoring phases. Figure 1 shows the Site location on a United States Geological Survey 7.5 minute topographic quadrangle map.

KD acquired the Site and assets (including environmental responsibilities) from AES Ohio Generation, LLC (AES) in December 2019. All groundwater monitoring and investigation activities completed through 2019 were completed by AES or a previous Site owner. The purpose of this report is to document the 2020 groundwater monitoring and potential corrective action of the CCR unit systems as required under the United States Environmental Protection Agency (USEPA) CCR Rule effective October 19, 2015, specifically Code of Federal Regulations (CFR) Title 40, Subsection §257.90(e) (CCR Rule). This report contains a program status summary as per §257.90(e)(6), semi-annual remedy selection progress as per §257.97(a), and program information as per §§257.90(e)(1) through (5).

2.0 PROGRAM STATUS SUMMARY AND REMEDY SELECTION PROGRESS

AES implemented a groundwater monitoring program compliant with the April 17, 2015 CCR Rule published by the USEPA. Pond 5, Landfill 9, Pond 7/7A, Pond 10, and Landfill 11 detection monitoring completed in 2017 indicated statistically significant increases (SSI) for some Appendix III constituents (i.e. Appendix III to Part §257 – constituents for detection monitoring). Pond 5, Pond 7/7A, Pond 10, and Landfill 11 assessment monitoring completed in 2018 indicated statistically significant levels (SSL) of Appendix IV constituents (i.e. Appendix IV to Part §257 – constituents for assessment monitoring). As of July 2020, the MMS was established for monitoring of Pond 3A, Pond 6, Pond 7/7A, Pond 10 and Landfill 11. Appendix IV constituents have been detected at SSL within the MMS and the Pond 5 monitoring system.

Corrective measures assessments (CMAs) were completed for each of the monitoring systems for which an Appendix IV constituent SSL was determined. The Pond 5 CMA report was completed in September 2019 and amended in October 2019. The MMS CMA was initially

completed for each individual unit in September 2019 and amended in October 2019, however a revised CMA was completed in July 2020 in consideration of the multi-unit monitoring classification. The CMAs included risk evaluations to identify whether current groundwater conditions pose unacceptable risk to human health and the environment, and whether corrective measures will mitigate such an unacceptable risk, if present. The risk evaluations concluded that there are no adverse effects on human health or the environment currently or under reasonably anticipated future uses from either surface water or groundwater due to CCR management practices at Pond 5, or units within the MMS (Pond 3A, Pond 6, Pond 7/7A, Pond 10, and Landfill 11). In performing the CMA, the following conditions were considered: presence and distribution of constituents, the size and configuration of the CCR units, hydrogeologic setting, and the results of the risk evaluation. The alluvial aquifer beneath the CCR units ranges from approximately 30 feet (ft) to 120 ft in thickness. Flow within the alluvial aquifer is directly controlled by recharge from the north and discharge to the south and west to the Ohio River and Little Three Mile Discharge Canal, respectively.

2.1 REMEDIAL ALTERNATIVES

Alternatives were developed for the CMA reports as follows:

- Pond 5
 - Alternative 1: Closure in place (CIP) with low permeability capping and monitored natural attenuation (MNA);
 - Alternative 2: CIP with in-situ stabilization (ISS), low permeability capping and MNA;
 - Alternative 3: CIP with low permeability capping and in-situ groundwater treatment;
 - Alternative 4: CIP with low permeability capping, hydraulic containment (HC) through groundwater pumping, and ex-situ groundwater treatment;
 - Alternative 5: CIP with low permeability capping, HC through groundwater pumping, and ex-situ groundwater treatment and barrier wall; and,
 - Alternative 6: Closure by removal (CBR) with MNA.
- Multi-Unit System
 - Alternative 1: MNA;
 - Alternative 2: Unit Closure (CBR and CIP) and MNA; and,
 - Alternative 3: Hydraulic Control, Unit Closure (CBR and CIP) and MNA.

These alternatives were evaluated based on the threshold criteria provided in CCR rule [§257.97 (b)] and then compared to three of the four balancing criteria stated in CCR Rule [§257.97(c)].

These criteria consist of the following:

§257.97 Selection of remedy

(b) Remedies must [Threshold Criteria]:

- (1) Be protective of human health and the environment;
- (2) Attain the groundwater protection standard as specified pursuant to §257.95(h);
- (3) Control the source(s) of releases so as to reduce or eliminate, to the maximum extent feasible, further releases of constituents in Appendix IV to this part into the environment;
- (4) Remove from the environment as much of the contaminated material that was released from the CCR unit as is feasible, taking into account factors such as avoiding inappropriate disturbance of sensitive ecosystems; and,
- (5) Comply with standards for management of wastes as specified in §257.98(d).

(c) In selecting a remedy that meets the standards of paragraph (b) of this section, the owner or operator of the CCR unit shall consider the following evaluation factors [Balancing Criteria]:

- (1) The long- and short-term effectiveness and protectiveness of the potential remedy(ies), along with the degree of certainty that the remedy will prove successful;
- (2) The effectiveness of the remedy in controlling the source to reduce further releases;
- (3) The ease or difficulty of implementing a potential remedy(s); and,
- (4) The degree to which community concerns are addressed by a potential remedy(s).

The threshold criteria must be met in order for a remedial alternative to be selected. A risk assessment and exposure evaluation was completed as part of the CMAs and it was concluded that there is no complete drinking water exposure pathway. The completed evaluation demonstrates that there is no impact on drinking water and there is no evidence of impact to human health or the environment. There are no downgradient users of groundwater as drinking water – thus, there is no impact on drinking water. There is no exposure to CCR-derived constituents detected in groundwater at the Site – either via groundwater use or surface water. Even for the very few results that may be above Groundwater Protection Standards (GWPS) for some of the groundwater sampling events, there is no risk because there is no complete drinking water exposure pathway to groundwater.

2.2 PREFERRED ALTERNATIVE

Each remedial alternative was evaluated with respect to the balancing criteria during the CMA. A favorability rating was assigned to each remedial alternative for each balancing criteria. The following are a list of preferred alternatives with respect to evaluations completed thus far:

- Pond 5 - Alternative 6: CBR and MNA; and,
- Multi-unit System - Alternative 2: Unit Closure (CBR and CIP) and MNA.

The recommended CCR unit closure plans for the Site consist of pond closure via CBR and landfill closure via CIP. The CCR unit closure plans paired with MNA are the most favorable groundwater remedial alternative at this time.

In accordance with §257.97, a final report describing the selected remedy and how it meets the applicable standards will be completed after a remedy is selected. In accordance with §257.98, a corrective action groundwater monitoring program will be established and implemented after a remedial alternative is selected. Corrective measures are considered complete when monitoring reflects that the SSL constituent concentrations in groundwater downgradient of the Ash Pond do not exceed the Appendix IV GWPS for three consecutive years.

2.3 KEY ACTIVITIES COMPLETED IN 2020

The following key activities were completed in 2020:

- In January 2020, the 2019 Annual Groundwater Monitoring and Corrective Action Reports were prepared by Haley & Aldrich, Inc., on behalf of AES. Recordkeeping §257.105(h)(1), State Director notification §257.106(h)(1) and public website posting §257.107(h)(1) were completed in accordance with applicable CCR Rule requirements.
- The first semi-annual sampling event was completed in March 2020. Groundwater level gauging, sampling, and analysis was completed in accordance with §257.95 (b) and §257.95 (d)(1). Groundwater sample collection forms are provided in Appendix A and laboratory sample analysis results are provided in Appendix B.
- The Groundwater Remedy Selection Semiannual Progress Report was completed to document progress made towards selecting a groundwater remedy for the Pond 5, Pond 7/7A, Pond 10 and Landfill 11 CCR units as required by §257.97 (a).
- Updating of the Site monitoring systems in July 2020 to combine adjacent, previously individual, CCR unit monitoring systems (Pond 3A, Pond 6, Pond 7/7A, Pond 10 and Landfill 11) into the MMS. The updated MMS is technically appropriate for the CCR units

that are in close proximity, have similar groundwater conditions, and are in similar monitoring phases.

- The second semi-annual sampling event was completed in September/October 2020. Groundwater level gauging, sampling, and analysis was completed in accordance with §257.95 (b) and §257.95 (d)(1). Groundwater sample collection forms are provided in Appendix A and laboratory sample analysis results are provided in Appendix B.
- A statistical analysis of assessment monitoring results was completed following the sampling events, as appropriate, in order to evaluate potential SSL results as required by §257.93(h).

2.4 PROBLEMS ENCOUNTERED

No problems were encountered.

2.5 ACTIONS TO RESOLVE PROBLEMS

No problems were encountered.

2.6 KEY ACTIVITIES PLANNED FOR 2021

The following key activities are planned for 2021:

- The first semi-annual sampling event is planned for April 2021.
- The second semi-annual sampling event is planned for October 2021.
- Statistical analysis of monitoring data will be completed, as appropriate, such that SSL results can be identified. The three monitoring systems will remain in assessment monitoring.
- A semi-annual remedy selection progress report will be prepared per §257.97(a), as appropriate, until a remedy is formally selected. If a remedy is selected during 2021, a final report describing the selected remedy and how it meets the applicable standards will be completed in accordance with §257.97.
- An annual report will be completed in January 2022 for the previous monitoring year.

3.0 PROGRAM INFORMATION

The specific reporting requirements listed in Sections §§257.90(e)(1) through 257.90(e)(5) of the CCR Rule are provided in the subsequent sections of this report (bold and italic typeface) followed by a narrative describing how the requirement has been addressed.

3.1 §257.90(e)(1)

A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit

A map showing the locations of the CCR units and the associated upgradient and downgradient monitoring wells is included in Figure 2, Figure 3 and Figure 4. A potentiometric surface map is presented in Figures 5.

3.2 §257.90(e)(2)

Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken

No monitoring wells were installed or abandoned during 2020. Monitoring wells MW 11-2, MW 11-3, MW 11-3I, MW 11-4, MW 11-5, MW 11-5I, MW 21, and MW 22 were removed from the sampling network, but remain part of the groundwater gauging network. The wells removed from the sampling network are located between units within the MMS. The objective of the MMS is to monitor the waste boundary rather locations between waste units. Location and construction details for previously installed wells are provided in Table 1.

3.3 §257.90(e)(3)

In addition to all the monitoring data obtained under §§257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs

In accordance with §257.94(b) and §257.94(d)(1), two independent samples from each background and downgradient monitoring well were collected and analyzed. A summary table including the sample names, dates of sample collection, reason for sample collection (detection or assessment), and monitoring data obtained for the groundwater monitoring program is presented in Table 2, Table 3, and Table 4 of this report.

3.4 §257.90(e)(4)

A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels)

Entering the 2020 monitoring period, Pond 3A was in detection monitoring; Pond 5, Pond 6, Pond 7/7A, Pond 10, Landfill 11, and Landfill 9 were in assessment monitoring; and Pond 5, Pond 7/7A, Pond 10, Landfill 11 were also in a remedy selection phase. In July 2020, the MMS was established (combining adjacent units Pond 3A, Pond 6, Pond 7/7A, Pond 10, and Landfill 11). The MMS is in assessment monitoring and remedy selection phase. Entering the 2021 monitoring period, the Pond 5 monitoring system and the MMS are in an assessment monitoring and remedy selection phase whereby CMAs have been completed for each monitoring system. Entering the 2021 monitoring period, Landfill 9 remains in assessment monitoring. Appendix III constituent SSIs were previously determined for the MMS, Pond 5 monitoring system, and Landfill 9 monitoring system. Appendix IV constituent SSLs were previously determined for the MMS and Pond 5 monitoring system.

3.5 §257.90(e)(5)

Other information required to be included in the annual report as specified in §§257.90 through 257.98

Information required to be included in this annual report is presented in the form of tables, figures, and appendices or discussed in the preceding sections, as appropriate.

TABLES

**TABLE 1
GROUNDWATER MONITORING WELL LOCATION AND CONSTRUCTION DETAILS
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
FORMER J.M. STUART ELECTRIC GENERATION STATION
SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO**

	Downgradient- Upgradient Well	Easting	Northing	Ground Elevation (ft msl)	Top of Casing Elevation (ft msl)	Surface Grout (ft bgs)	Bentonite (ft bgs)	Sand Pack (ft bgs)	Screen Zone (ft bgs)	Screen Length (ft)	Well Diameter (in)
POND 5											
MW5-1	Downgradient	1,625,291	236,432	490.62	490.29	0-13	13-15	15-27	17-27	10	2.00
MW5-2	Downgradient	1,624,355	235,844	489.70	489.45	0-2	2-3.8, 15-22	3.8-15	5-15	10	2.00
MW5-3	Downgradient	1,632,783	235,844	498.70	498.42	0-16	16-18	18-32	20-30	10	2.00
MW5-4	Downgradient	1,624,541	235,425	496.75	496.31	0-15.5	15.5-18	18-32	20-30	10	2.00
MW5-5	Downgradient	1,623,796	236,234	487.67	490.69	1-17	17-19	19-31.2	21-31	10	2.00
MW5-6	Downgradient	1,625,425	234,996	497.33	500.30	1-16	16-18	18-30.2	20-30	10	2.00
MW5-7	Downgradient	1,626,025	235,942	529.77	533.01	1-45	45-48	48-60.2	50-60	10	2.00
MW5-8I	Nature and Extent	1,629,323	234,430	499.70	502.04	1-45	45-48	48-60.2	50-60	10	2.00
POND 7/7A											
MW-15	Downgradient	1,631,153	231,865	493.59	493.26	0-11	0-13	13-27	15-25	10	2.00
MW-15I	Nature and Extent	1,631,158	231,863	493.30	496.16	0-39	39-42	42-55	45-55	10	2.00
MW-16	Downgradient	1,631,934	231,597	495.07	494.44	0-11	11-12.8	12.8-27	15-25	10	2.00
MW-17	Downgradient	1,633,347	231,253	510.56	510.08	0-21	21-24.5	24.5-37	27-37	10	2.00
MW-19	Downgradient	1,632,686	231,369	494.58	497.27	1-25	25-27	27-39	29-39	10	2.00
MW-19I	Nature and Extent	1,632,690	231,369	494.70	497.39	0-55	55-58	58-71	61-71	10	2.00
LANDFILL 9											
MW-B5	Downgradient	1,634,357	233,436	NA	544.75	0-43.5 ^C	43.5-46 ^C	46-70 ^C	48-68	20	2.00
MW-N00	Upgradient	1,639,443	234,592	NA	526.71	0-28 ^C	28-31 ^C	31.55 ^C	34.5-54.5	20	2.00
MW-3B	Downgradient	1,634,457	231,523	NA	520.90	4-29.5	2-4, 29.5-32	0-2, 32-49.4	32-49.4	NA	NA
MW-4	Downgradient	1,635,647	230,953	511.00	511.68	0-1.5	24-29	34-39	34-39	5	2.00
MW-5A	Downgradient	1,636,947	231,163	NA	506.02	3-24.5	24.5-27.5	0-3, 27.5-40.06	NA	NA	NA
MW-L7A	Downgradient	1,638,028	231,339	509.40	507.59	NA	2-13	13-35	15-35	20	2.00
MW-9	Downgradient	1,638,839	232,190	NA	510.56	2-9	9-12	12-40	14.5-39.5	25	2.00
MW-10	Downgradient	1,639,391	233,129	NA	514.47	2.5-8	8-10	10-40	14-39	25	2.00
MW-11	Downgradient	1,639,500	233,717	NA	511.35	0-2.5 ^A	2.5-5	5-32+	7-32	25	2.00
MW-12	Upgradient	1,633,873	234,674	NA	543.06	0-1 ^A	1-4	4-21.3	5.5-20.5	15	2.00
MW-24	Downgradient	1,634,506	232,467	531.79	534.54	1-50	50-52	52-64	54-64	10	2.00
POND 10											
MW10-1	Upgradient	1,630,790	235,572	535.67	536.99	0.5-5 ^C	5.5-7.5 ^C	7.5-19.5 ^C	8-18	10	2.00
MW10-2	Downgradient	1,629,928	235,643	548.80	550.35	0-55 ^C	55-57 ^C	57-78 ^C	58-68	10	2.00
MW10-3	Downgradient	1,629,375	235,593	548.07	549.83	0-59 ^C	59-61 ^C	61-72.5 ^C	62.5-72.5	10	2.00
MW10-4	Downgradient	1,628,935	235,460	550.57	551.38	0-60 ^C	60-62.5 ^C	62.5-74.5 ^C	64.5-74.5	10	2.00
MW10-5	Downgradient	1,628,883	235,064	542.55	544.27	0-55.5 ^C	55.5-57.5 ^C	57.5-69.5 ^C	59.5-69.5	10	2.00
MW10-6	Downgradient	1,629,100	234,791	547.11	548.61	0-56.5 ^C	56.5-58.5 ^C	58.5-69.7 ^C	59.7-69.7	10	2.00
MW10-7	Downgradient	1,629,317	234,428	543.67	545.39	0-55 ^C	55-56 ^C	56-67.5 ^C	57-67	10	2.00
MW10-7I	Nature and Extent	1,629,323	234,430	544.20	546.41	0-81	81-85	85-97	87-97	10	2.00
LANDFILL 11											
MW11-1	Downgradient	1,629,997	234,175	560.70	561.59	5-67.5 ^{BC}	67.5-69.5 ^C	69.5-82 ^C	72-82	10	2.00
MW11-2	Downgradient	1,630,675	233,877	568.90	570.09	NA	NA	NA	69-89	20	2.00
MW11-3	Downgradient	1,632,192	233,203	536.20	538.57	4.5-43.5 ^{BC}	43.5-45.5 ^C	45.5-57.5 ^C	47-57	10	2.00
MW11-3I	Nature and Extent	1,631,931	233,202	536.20	538.80	0-71	71-75	75-77	77-87	10	2.00
MW11-4	Downgradient	1,632,417	233,051	536.10	538.26	NA	NA	NA	39-59	20	2.00
MW11-5	Downgradient	1,632,417	232,789	536.10	537.36	2-43 ^{BC}	43-44.5 ^C	44.5-57 ^C	47-57	10	2.00
MW11-5I	Nature and Extent	1,633,217	232,787	534.80	537.18	0-72	72-75	75-87	77-87	10	2.00
MW11-6	Downgradient	1,633,752	232,913	536.80	538.53	4-44 ^{BC}	44-46.5 ^C	46.5-59 ^C	48.5-58.5	10	2.00
MW11-7	Downgradient	1,633,684	233,685	543.30	545.81	4-51.5 ^{BC}	51.5-53.5 ^C	53.5-65.5 ^C	55.5-65.5	10	2.00
MW11-8	Upgradient	1,633,085	234,926	568.30	570.70	2-40.5 ^{BC}	40.5-43.5 ^C	43.5-55.9 ^C	44.5-55.5	10	2.00
MW11-9	Upgradient	1,632,252	235,151	569.15	570.61	3-36 ^{BC}	36-38 ^C	38-50 ^C	40-50	10	2.00
MW11-10	Upgradient	1,631,152	235,409	550.50	553.16	1.5-19.5 ^{BC}	19.5-21 ^C	21-34.1 ^C	23-33	10	2.00
POND 3A											
MW-13	Downgradient	1,629,438	232,657	496.34	496.01	0-10	10-12.5	12.5-27	15-25	10	2.00
MW-14	Downgradient	1,630,280	232,243	499.21	498.64	0-12	12-14.8	14.8-27	17.27	10	2.00
MW-18	Downgradient	1,629,901	232,422	497.31	500.18	1-17	17-19	19-31	21-31	10	2.00
POND 6											
MW-20	Downgradient	1,633,785	232,067	501.51	504.03	1-21	21-23	23-35.2	25-35	10	2.00
MW-21	Downgradient	1,631,881	232,511	533.79	536.83	1-41	41-44	44-56	46-56	10	2.00
MW-22	Downgradient	1,632,812	232,207	533.85	536.86	3-46	46-48	48-60.2	51-61	10	2.00

Notes:

bgs - below ground surface

ft - feet

in - inches

msl - mean sea level

NA - not identified

^A - Concrete, no surface grout

^B - "Cement/Bentonite Grout"

^C - Estimated from visual inspection

National Geodetic Vertical Datum (NGVD 1988)

Surveyed coordinates reference Ohio State Plane

**TABLE 2
MULTI-UNIT MONITORING SYSTEM GROUNDWATER SAMPLE ANALYTICAL DATA
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
FORMER J.M. STUART ELECTRIC GENERATION STATION
SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO**

	Chemical Group				Field Parameters						EPA Appendix III Constituents									
	Chemical Name				Conductivity	Dissolved Oxygen	ORP	pH	Temperature	Turbidity	Boron, Total	Calcium, Total	Chloride	Fluoride	pH (lab)	Sulfate	Total Dissolved Solids (TDS)			
	US EPA MCL/RSL (THQ=1.0)				-	-	-	-	-	-	-	-	-	4	-	-	-			
	Well Location	Sample Reason	Sample Date	Sample Name	Units	mS/cm	mg/L	mV	SU	°C	NTU	mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L		
	POND 3A																			
Downgradient	MW-13	Detection	03/04/2020	MW-13-030420-1235	0.357	5.98	30.5	5.81	13.03	19.4	0.13	42	16	0.093	6.5 HF	54	230			
	MW-13	Assessment	09/29/2020	MW-13-092920-0950	0.312	0.36	67.8	4.96	14.60	6.06	0.11	35	8	0.094	6.4 HF	55	190			
	MW-14	Detection	03/04/2020	MW-14-030420-1001	0.529	4.69	29.4	5.83	12.63	7.84	0.097 J	67	16	0.068	6.4 HF	98	360			
	MW-14	Assessment	09/29/2020	MW-14-092920-0855	0.330	0.46	37.2	6.23	15.57	5.08	0.072 J	35	14	0.062	6.2 HF	82	200			
	MW-18	Detection	03/04/2020	MW-18-030420-1134	0.431	3.68	23.1	5.85	14.15	19.1	0.35	65	9.1	0.11	6.5 HF	62	300			
				MW-18	Assessment	09/29/2020	MW-18-092920-1040	0.734	0.34	72.6	5.96	15.64	9.32	5.1	110	31	0.055	5.9 HF	350	560
	POND 6																			
Down-gradient	MW-20	Assessment	03/05/2020	MW-20-030520-1636	0.892	0.26	79.6	9.78	14.31	3.49	5.9	110	42	0.33	7 HF	230	630			
	MW-20	Assessment	09/29/2020	MW-20-092920-1145	0.780	0.35	104.6	5.54	14.98	2.87	3.5	84	14	0.34	6.8 HF	130	470			
	MW-21	Assessment	03/03/2020	MW-21-030320-1746	1.039	0.67	-11.8	7.16	18.81	5.62	5.3	150	34	0.63	7.5 HF	420	850			
	MW-22	Assessment	03/04/2020	MW-22-030420-1555	0.663	1.82	26.0	7.29	17.44	35.9	2.9	86	11	0.43	7.8 HF	250	560			
	POND 7/7A																			
Downgradient	MW-15	Assessment	03/03/2020	MW-15-030320-1430	0.463	0.23	209.6	5.90	14.00	3.87	0.36	56	13	0.075	6.4 HF	64	290			
	MW-15	Assessment	09/29/2020	MW-15-092920-1330	0.445	0.27	91.6	6.05	18.82	2.01	3.3	57	15	0.073	6.1 HF	120	300			
	MW-16	Assessment	03/03/2020	MW-16-030320-1311	0.474	0.59	136.2	6.29	15.40	14.3	0.54	54	17	0.096	6.7 HF	84	300 H			
	MW-16 DUP	Assessment	03/03/2020	M-99B-030320-2000	-	-	-	-	-	-	0.56	58	16	0.096	6.7 HF	83	320			
	MW-16	Assessment	09/29/2020	MW-16-092920-1245	0.763	0.27	89.8	6.08	19.20	11.2	5.3	86	26	0.049 J	6.1 HF	360	590			
	MW-17	Assessment	03/05/2020	MW-17-030520-1505	0.828	0.20	84.6	9.34	16.83	4.32	4.2	100	40	0.14	6.9 HF	290	630			
	MW-17	Assessment	09/29/2020	MW-17-092920-1430	0.802	1.04	89.8	6.50	16.69	10.4	3.5 B	89	33	0.11	6.6 HF	280	540			
	MW-19	Assessment	03/03/2020	MW-19-030320-1136	0.622	0.23	-95.7	6.72	17.60	10.7	1.9	86	25	0.091	7.1 HF	110	430			
				MW-19	Assessment	09/29/2020	MW-19-092920-1643	0.614	0.70	-51.9	6.73	18.85	6.12	1.6 B	70	20	0.075	6.7 HF	130	380
N&E	MW-15I	Assessment	03/03/2020	MW-15I-030320-1435	1.130	0.37	134.4	7.58	16.57	6.37	20	180	38	2.5	7.9 HF	490	900			
	MW-15I	Assessment	09/29/2020	MW-15I-092920-1420	1.108	0.18	-2.1	7.82	20.37	4.37	17	170	37	2.8	7.7 HF	510	910			
	MW-19I	Assessment	03/03/2020	MW-19I-030320-1136	0.970	0.41	64.9	7.54	16.94	2.86	5.7	140	30	1.1	7.8 HF	390	750			
	MW-19I	Assessment	09/29/2020	MW-19I-092920-1740	0.869	0.55	-64.9	7.45	17.89	8.98	5.6 B	120	24	1.1	7.4 HF	370	630			
	POND 10																			
Up-gradient	MW10-1	Assessment	03/04/2020	MW10-1-030420-1248	0.414	8.19	121.3	6.65	13.74	5.96	0.072 J	59	25	0.2	7.2 HF	31	270			
	MW10-1	Assessment	10/01/2020	MW10-1-100120-1135	0.556	5.10	30.1	6.74	18.65	3.02	0.042 J	78	32	0.32	7.1 HF	41	410			
Downgradient	MW10-2	Assessment	03/05/2020	MW10-2-030520-1823	0.986	8.37	44.7	7.50	12.63	55	0.1	120	98	0.13	8 HF	66	600			
	MW10-2	Assessment	10/01/2020	MW10-2-100120-1425	0.664	3.37	64.0	6.92	16.43	2.89	0.1	91	39	0.11	7.2 HF	57	390			
	MW10-3	Assessment	03/05/2020	MW10-3-030520-0944	0.788	4.06	112.9	7.11	13.86	1.33	0.15	110	69	0.1	7.4 HF	60	480			
	MW10-3	Assessment	09/30/2020	MW10-3-093020-1030	0.891	6.48	-91.3	7.92	16.26	8.61	0.081 JB	120	52	0.09	7.1 HF	75	600			
	MW10-4	Assessment	03/05/2020	MW10-4-030520-1124	0.913	0.52	130.7	7.11	14.31	1.49	3.2	150	27	0.089	7.4 HF	200	630			
	MW10-4	Assessment	09/30/2020	MW10-4-093020-1353	0.717	2.76	1.1	6.95	20.60	1.5	2.9	150	28	0.095	7.2 HF	180	640			
	MW10-5	Assessment	03/05/2020	MW10-5-030520-1355	0.929	1.89	81.7	7.40	15.09	1.95	6.3	140	22	0.12	7.7 HF	340	700			
	MW10-5	Assessment	09/30/2020	MW10-5-093020-1102	0.702	1.10	2.7	7.25	16.23	1.73	5.9	130	20	0.12	7.4 HF	340	660			
	MW10-5 DUP	Assessment	09/30/2020	M-99B-093020-2000	-	-	-	-	-	-	5.9	140	20	0.12	7 HF	360	660			
	MW10-6	Assessment	03/05/2020	MW10-6-030520-1529	0.839	2.41	85.7	7.29	15.86	0.99	4.9	130	18	0.18	7.6 HF	290	590			
	MW10-6	Assessment	09/30/2020	MW10-6-093020-1320	0.723	0.47	-207.3	7.89	18.03	4.48	6.5 B	120	13	0.2	7.4 HF	270	540			
	MW10-7	Assessment	03/04/2020	MW10-7-030420-0932	0.808	1.00	111.7	7.29	15.70	1.33	4.6	120	14	0.33	7.7 HF	280	570			
	MW10-7	Assessment	09/29/2020	MW10-7-092920-1605	0.915	1.57	53.7	6.39	17.17	5.65	5.1	140	14	0.25	7.3 HF	300	660			
N&E	MW10-7I	Assessment	03/04/2020	MW10-7I-030420-1023	0.751	0.73	123.3	7.38	15.84	35	6.5	120	20	0.35	8 HF	320	570			
	MW10-7I	Assessment	09/30/2020	MW10-7I-093020-0900	0.570	1.01	-163.2	7.61	12.87	25	6 B	140	21	0.29	7.7 HF	380	620			

**TABLE 2
MULTI-UNIT MONITORING SYSTEM GROUNDWATER SAMPLE ANALYTICAL DATA
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
FORMER J.M. STUART ELECTRIC GENERATION STATION
SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO**

	Chemical Group				Field Parameters						EPA Appendix III Constituents						
	Chemical Name				Conductivity	Dissolved Oxygen	ORP	pH	Temperature	Turbidity	Boron, Total	Calcium, Total	Chloride	Fluoride	pH (lab)	Sulfate	Total Dissolved Solids (TDS)
	US EPA MCL/RSL (THQ=1.0)				-	-	-	-	-	-	-	-	-	4	-	-	-
	Units				mS/cm	mg/L	mV	SU	°C	NTU	mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
Well Location	Sample Reason	Sample Date	Sample Name														
LANDFILL 11																	
Downgradient	MW11-1	Assessment	03/04/2020	MW11-1-030420-1500	0.816	2.59	25.0	6.91	15.29	6.48	4.3	140	20	0.27	7.6 HF	200	600
	MW11-1	Assessment	10/01/2020	MW11-1-100120-1002	0.839	1.73	138.4	7.08	16.50	3.86	4.1	150	17	0.29	7.3 HF	210	580
	MW11-2	Assessment	03/03/2020	MW11-2-030320-1712	1.140	1.55	205.3	6.91	15.10	4.19	4.6	180	19	0.19	7.4 HF	290	900
	MW11-3	Assessment	03/04/2020	MW11-3-030420-1205	0.879	0.70	109.6	6.76	15.78	6.31	3.8	140	11	0.2	7.5 HF	220	660
	MW11-4	Assessment	03/03/2020	MW11-4-030320-1042	0.930	1.47	4.0	7.04	16.00	6.99	4.9	160	11	0.22	7.5 HF	270	730
	MW11-5	Assessment	03/04/2020	MW11-5-030420-1331	0.846	1.82	119.0	6.87	14.36	8.76	2.2	130	12	0.17	7.4 HF	130	600
	MW11-6	Assessment	03/05/2020	MW11-6-030520-1159	0.544	6.97	33.2	6.88	13.85	6.97	0.046 J	110	16	0.19	7.5 HF	31	390
	MW11-6	Assessment	09/30/2020	MW11-6-093020-1450	0.755	6.70	195.2	6.81	15.50	4.81	0.036 J	140	8.2	0.18	7.2 HF	28	470
	MW11-7	Assessment	03/05/2020	MW11-7-030520-1005	0.453	8.21	35.3	7.24	11.44	10.4	0.046 J	85	4.7	0.22	7.8 HF	21	280
MW11-7	Assessment	09/30/2020	MW11-7-093020-1040	0.500	9.42	213.6	7.21	12.10	10.3	0.024 J	96	5	0.21	7.5 HF	28	300	
N&E	MW11-3I	Assessment	03/04/2020	MW11-3I-030420-1157	1.047	1.32	146.1	7.14	16.10	20.9	5.1	160	17	0.22	7.6 HF	360	780
	MW11-5I	Assessment	03/04/2020	MW11-5I-030420-1320	0.597	2.24	166.0	7.24	14.90	10.5	0.51	91	11	0.24	7.7 HF	39	390
Upgradient	MW11-8	Assessment	03/03/2020	MW11-8-030320-1220	0.641	1.87	8.5	6.93	14.32	3.15	0.047 J	120	17	0.23	7.3 HF	46	430
	MW11-8	Assessment	09/30/2020	MW11-8-093020-1745	0.660	5.66	126.9	6.83	17.00	3.41	< 0.023	130	18	0.24	6.9 HF	45	480
	MW11-9	Assessment	03/03/2020	MW11-9-030320-1416	0.501	1.80	4.6	6.59	14.31	6.15	< 0.023	110	110	0.11	7 HF	46	440
	MW11-9	Assessment	09/30/2020	MW11-9-093020-1225	0.403	1.81	120.0	6.57	18.50	7.01	0.044 J	20	97	0.12	6.9 HF	44	210
	MW11-10	Assessment	03/03/2020	MW11-10-030320-1545	0.674	2.29	7.2	7.00	14.21	2.79	0.043 J	130	11	0.18	7.5 HF	39	450
	MW11-10 DUP	Assessment	03/03/2020	MW-99A-030320-2000	-	-	-	-	-	-	0.047 J	120	11	0.19	7.3 HF	40	450
	MW11-10	Assessment	09/30/2020	MW11-10-093020-0910	0.679	6.36	92.6	6.83	15.37	2.69	0.034 J	140	3.6	0.16	7.2 HF	59	450

Notes:

- Bold** indicates detected concentration
- Shaded values exceed criteria
- mg/L - milligram per liter
- MCL - Maximum Contaminant Level
- SU - standard units
- mV - millivolt
- mS/cm - milliSiemen per centimeter
- RSL - Regional Screening Level
- THQ - Target Hazard Quotient
- US EPA - United States Environmental Protection Agency
- HF - Field parameter with a holding time of 15 minutes
- H - Sample was prepped or analyzed beyond specified holding time.
- J - Estimated result
- B - Blank contamination
- G - Sample MDC is greater than the requested RL
- NTU - Nephelometric Turbidity Units
- °C - degrees Celcius
- "-" - Denotes constituent not required to be sampled during this event
- pCi/L - picoCurie per liter
- N&E - Nature and Extent

**TABLE 2
MULTI-UNIT MONITORING SYSTEM GROUNDWATER SAMPLE ANALYTICAL DATA
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
FORMER J.M. STUART ELECTRIC GENERATION STATION
SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO**

Chemical Group					EPA Appendix IV Constituents												Radiological				
Chemical Name					Antimony, total	Arsenic, total	Barium, total	Beryllium, total	Cadmium, total	Chromium, total	Cobalt, total	Fluoride	Lead, total	Lithium, total	Mercury, total	Molybdenum, total	Selenium, total	Thallium, total	Radium-226	Radium-228	Radium-226 & 228
US EPA MCL/RSL (THQ=1.0)					0.006	0.01	2	0.004	0.005	0.1	0.006	4	0.015	0.04	0.002	0.1	0.05	0.002	-	-	5
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Well Location	Sample Reason	Sample Date	Sample Name																		
LANDFILL 11																					
Downgradient	MW11-1	Assessment	03/04/2020	MW11-1-030420-1500	< 0.00057	0.0009 J	0.042	< 0.00031	0.00022 J	< 0.00098	0.00037 J	0.27	< 0.00045	0.02	< 0.00013	0.7	0.014	< 0.0002	0.0461 U ± 0.0683	0.157 U ± 0.248	0.203 U ± 0.257
	MW11-1	Assessment	10/01/2020	MW11-1-100120-1002	< 0.0075	< 0.0041	0.048 J	0.00061 J	< 0.0002	0.001 J	< 0.00075	0.29	< 0.0028	0.019 J	< 0.00013	0.71	0.022	0.0029 J	-0.0275 U ± 0.0965	0.362 U ± 0.251	0.334 U ± 0.269
	MW11-2	Assessment	03/03/2020	MW11-2-030320-1712	< 0.00057	< 0.00075	0.053	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.19	< 0.00045	0.015	< 0.00013	0.011	0.012	< 0.0002	0.0906 U ± 0.101	0.178 U ± 0.243	0.269 U ± 0.263
	MW11-3	Assessment	03/04/2020	MW11-3-030420-1205	< 0.00057	0.00082 J	0.041	< 0.00031	< 0.0002	< 0.00098	0.00021 J	0.2	< 0.00045	0.015	< 0.00013	0.0025 J	0.004 J	< 0.0002	0.0522 U ± 0.0684	0.0595 U ± 0.208	0.112 U ± 0.219
	MW11-4	Assessment	03/03/2020	MW11-4-030320-1042	< 0.00057	0.00086 J	0.046	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.22	< 0.00045	0.031	< 0.00013	< 0.0011	0.001 J	0.00037 J	0.00579 U ± 0.100	0.309 U ± 0.370	0.315 U ± 0.383
	MW11-5	Assessment	03/04/2020	MW11-5-030420-1331	< 0.00057	< 0.00075	0.057	< 0.00031	< 0.0002	0.0011 J	0.00036 J	0.17	< 0.00045	0.039	< 0.00013	0.0014 J	0.0039 J	< 0.0002	0.113 U ± 0.117	0.17 U ± 0.460	0.283 U ± 0.475
	MW11-6	Assessment	03/05/2020	MW11-6-030520-1159	< 0.00057	< 0.00075	0.034	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.19	< 0.00045	0.029	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.0807 U ± 0.0934	0.252 U ± 0.216	0.333 U ± 0.235
	MW11-6	Assessment	09/30/2020	MW11-6-093020-1450	< 0.0075	< 0.0041	0.044 J	< 0.0006	0.00024 J	0.0011 J	< 0.00075	0.18	< 0.0028	0.034 J	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.0431 U ± 0.124	0.0501 U ± 0.259	0.0932 U ± 0.287
N&E	MW11-7	Assessment	03/05/2020	MW11-7-030520-1005	< 0.00057	0.0012 J	0.031	< 0.00031	< 0.0002	< 0.00098	0.00033 J	0.22	< 0.00045	0.0034 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.049 U ± 0.0675	0.523 ± 0.265	0.572 ± 0.273
	MW11-7	Assessment	09/30/2020	MW11-7-093020-1040	< 0.0075	< 0.0041	0.031 J	< 0.0006	0.00022 J	< 0.00063	< 0.00075	0.21	< 0.0028	0.013 J	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.205 U ± 0.185	-0.0307 U ± 0.237	0.174 U ± 0.301
Upgradient	MW11-3I	Assessment	03/04/2020	MW11-3I-030420-1157	< 0.00057	0.0008 J	0.042	< 0.00031	< 0.0002	< 0.00098	0.0012	0.22	0.00047 J	0.042	< 0.00013	0.0016 J	0.0085	< 0.0002	-0.0163 U ± 0.0606	0.378 U ± 0.280	0.362 U ± 0.286
	MW11-5I	Assessment	03/04/2020	MW11-5I-030420-1320	< 0.00057	0.0014 J	0.04	< 0.00031	< 0.0002	0.0021	0.0019	0.24	0.00067 J	0.086	< 0.00013	0.0076	< 0.00089	< 0.0002	0.0471 U ± 0.0841	0.31 U ± 0.257	0.357 U ± 0.270
	MW11-8	Assessment	03/03/2020	MW11-8-030320-1220	< 0.00057	< 0.00075	0.045	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.23	< 0.00045	0.0054 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.0947 U ± 0.080	0.101 U ± 0.189	0.196 U ± 0.205
	MW11-8	Assessment	09/30/2020	MW11-8-093020-1745	< 0.0075	< 0.0041	0.043 J	< 0.0006	0.00028 J	0.0008 J	< 0.00075	0.24	< 0.0028	0.012 J	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.0792 U ± 0.118	0.0952 U ± 0.359	0.174 U ± 0.378
	MW11-9	Assessment	03/03/2020	MW11-9-030320-1416	< 0.00057	0.00097 J	0.074	0.0004 J	< 0.0002	< 0.00098	0.00036 J	0.11	< 0.00045	0.0021 J	< 0.00013	< 0.0011	< 0.00089	0.00087 J	0.103 ± 0.0736	0.264 U ± 0.245	0.367 U ± 0.256
	MW11-9	Assessment	09/30/2020	MW11-9-093020-1225	< 0.0075	< 0.0041	0.016 J	< 0.0006	0.00035 J	< 0.00063	< 0.00075	0.12	< 0.0028	0.011 J	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.0717 U ± 0.114	-0.0958 U ± 0.235	-0.0240 U ± 0.261
	MW11-10	Assessment	03/03/2020	MW11-10-030320-1545	< 0.00057	< 0.00075	0.064	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.18	< 0.00045	0.0052 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	-0.0134 U ± 0.0472	0.12 U ± 0.200	0.106 U ± 0.205
	MW11-10 DUP	Assessment	03/03/2020	MW-99A-030320-2000	< 0.00057	< 0.00075	0.065	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.19	< 0.00045	0.0035 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	-0.0944 U ± 0.143	0.356 U ± 0.249	0.262 U ± 0.287
MW11-10	Assessment	09/30/2020	MW11-10-093020-0910	< 0.0075	< 0.0041	0.062 J	< 0.0006	< 0.0002	< 0.00063	< 0.00075	0.16	< 0.0028	0.0091 J	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.00464 U ± 0.0729	0.136 U ± 0.328	0.141 U ± 0.336	

Notes:
Bold indicates detected concentration
 Shaded values exceed criteria
 mg/L - milligram per liter
 MCL - Maximum Contaminant Level
 SU - standard units
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 RSL - Regional Screening Level
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 HF - Field parameter with a holding time of 15 minutes
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 G - Sample MDC is greater than the requested RL
 NTU - Nephelometric Turbidity Units
 °C - degrees Celcius
 "-" - Denotes constituent not required to be sampled during this event
 pCi/L - picoCurie per liter
 N&E - Nature and Extent

**TABLE 3
POND 5 MONITORING SYSTEM GROUNDWATER SAMPLE ANALYTICAL DATA
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
FORMER J.M. STUART ELECTRIC GENERATION STATION
SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO**

Chemical Group				Field Parameters						EPA Appendix III Constituents						
Chemical Name				Conductivity	Dissolved Oxygen	ORP	pH	Temperature	Turbidity	Boron, Total	Calcium, Total	Chloride	Fluoride	pH (lab)	Sulfate	Total Dissolved Solids (TDS)
US EPA MCL/RSL (THQ=1.0)				-	-	-	-	-	-	-	-	4	-	-	-	
Units				mS/cm	mg/L	mV	SU	°C	NTU	mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
Well Location	Sample Reason	Sample Date	Sample Name													
MW5-1	Assessment	03/03/2020	MW5-1-030320-1005	0.938	0.60	-40.9	6.80	16.40	15.7	2.2	110	110	0.15 J	7.1 HF	120	640
MW5-1	Assessment	09/29/2020	MW5-1-092920-1040	0.844	0.81	-101.9	6.79	18.10	8.42	1.8 B	92	110	0.16	6.9 HF	140	560
MW5-2	Assessment	03/03/2020	MW5-2-030320-1201	0.627	1.38	-97.5	7.13	12.53	22.8	0.061 J	75	36	0.16	7.4 HF	21	410
MW5-2	Assessment	09/29/2020	MW5-2-092920-0830	1.130	0.76	-204.6	6.84	18.30	24.2	0.097 JB	120	74	0.25	7 HF	2.1	590
MW5-3	Assessment	03/03/2020	MW5-3-030320-1322	3.286	0.19	-144.3	6.89	15.81	4.26	5	270	750	0.44	6.9 HF	6.4 J	1900
MW5-3	Assessment	09/29/2020	MW5-3-092920-1320	3.145	0.78	-173.3	6.90	17.30	5.21	5 B	270	910	0.43	6.7 HF	< 0.35	1600
MW5-4	Assessment	03/03/2020	MW5-4-030320-1459	1.002	1.13	-129.1	6.86	15.25	28.5	0.11	85	44	0.30	7.1 HF	11	510
MW5-4	Assessment	09/29/2020	MW5-4-092920-0933	1.256	0.79	-170.1	6.62	17.30	10.12	0.13 B	90	140	0.26	6.7 HF	1.1	590
MW5-5	Assessment	03/03/2020	MW5-5-030320-1702	1.357	1.27	-44.6	6.24	13.64	10.21	0.41	120	170	0.11	6.6 HF	18	710
MW5-5	Assessment	09/29/2020	MW5-5-092920-1145	2.647	0.76	-124.2	6.33	19.20	5.39	1.2 B	180	590	0.12	6.4 HF	6.1	1100
MW5-6	Assessment	03/04/2020	MW5-6-030420-1108	2.920	0.27	34.5	6.56	20.43	9.31	14	370	600	0.23	7 HF	580	1900
MW5-6	Assessment	09/29/2020	MW5-6-092920-1608	2.836	0.94	22.9	6.62	21.70	15.9	15 B	410	700	0.25	6.7 HF	870	1900
MW5-7	Assessment	03/04/2020	MW5-7-030420-1538	0.601	0.41	119.2	6.80	19.39	11.6	0.43	72	18	0.35	7.2 HF	140	410
MW5-7	Assessment	09/29/2020	MW5-7-092920-1303	0.610	0.88	34.5	6.93	20.05	25.3	0.45	63	43	0.34	6.9 HF	140	400
MW5-8I	Assessment	03/04/2020	MW5-8I-030420-0947	3.285	0.73	77.4	6.86	16.28	7.36	16	460	680	0.09	7.2 HF	600	1900
MW5-8I	Assessment	09/29/2020	MW5-8I-092920-1425	3.371	0.87	8.8	6.81	17.00	9.76	16 B	510	860	0.074	7 HF	760	1800

Notes:
Bold indicates detected concentration
 Shaded values exceed criteria
 mg/L - milligram per liter
 MCL - Maximum Contaminant Level
 SU - standard units
 mV - millivolt
 mS/cm - milliSiemen per centimeter
 RSL - Regional Screening Level
 THQ - Target Hazard Quotient
 US EPA - United States Environmental Protection Agency
 HF - Field parameter with a holding time of 15 minutes
 J - Estimated result
 B - Blank contamination
 G - Sample MDC is greater than the requested RL
 NTU - Nephelometric Turbidity Units
 °C - degrees Celsius
 * - Denotes constituent not required to be sampled during this event
 pCi/L - picoCurie per liter
 N&E - Nature and Extent

**TABLE 3
POND 5 MONITORING SYSTEM GROUNDWATER SAMPLE ANALYTICAL DATA
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
FORMER J.M. STUART ELECTRIC GENERATION STATION
SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO**

	Chemical Group				EPA Appendix IV Constituents											Radiological					
	Chemical Name				Antimony, total	Arsenic, total	Barium, total	Beryllium, total	Cadmium, total	Chromium, total	Cobalt, total	Fluoride	Lead, total	Lithium, total	Mercury, total	Molybdenum, total	Selenium, total	Thallium, total	Radium-226	Radium-228	Radium-226 & 228
	US EPA MCL/RSL (THQ=1.0) Units				0.006 mg/L	0.01 mg/L	2 mg/L	0.004 mg/L	0.005 mg/L	0.1 mg/L	0.006 mg/L	4 mg/L	0.015 mg/L	0.04 mg/L	0.002 mg/L	0.1 mg/L	0.05 mg/L	0.002 mg/L	- pCi/L	- pCi/L	5 pCi/L
Well Location	Sample Reason	Sample Date	Sample Name																		
Downgradient	MW5-1	Assessment	03/03/2020	MW5-1-030320-1005	< 0.00057	0.0087	0.15	0.00033 J	0.00021 J	< 0.00098	0.0028	0.15 J	< 0.00045	0.0037 J	< 0.00013	0.0027 J	< 0.00089	0.00066 J	0.241 U ± 0.189	0.152 U ± 0.244	0.392 U ± 0.309
	MW5-1	Assessment	09/29/2020	MW5-1-092920-1040	< 0.00075	0.0071 J	0.12 J	< 0.0006	0.00042 J	< 0.00063	0.0024 JB	0.16	< 0.0028	< 0.0067	< 0.00013	< 0.0049	< 0.006	0.026	0.200 ± 0.122	0.194 U ± 0.266	0.394 U ± 0.293
	MW5-2	Assessment	03/03/2020	MW5-2-030320-1201	< 0.00057	0.015	0.25	< 0.00031	< 0.0002	0.0013 J	0.0032	0.16	0.0007 J	0.0044 J	< 0.00013	0.0032 J	< 0.00089	< 0.0002	0.337 ± 0.241	0.268 U ± 0.354	0.605 ± 0.428
	MW5-2	Assessment	09/29/2020	MW5-2-092920-0830	< 0.00075	0.037	0.470	< 0.0006	0.00048 J	0.0012 J	0.0017 JB	0.25	< 0.0028	< 0.0067	< 0.00013	< 0.0049	0.0074 J	0.011 J	0.259 U ± 0.265	0.277 U ± 0.390	0.536 U ± 0.472
	MW5-3	Assessment	03/03/2020	MW5-3-030320-1322	< 0.00057	0.06	2.4	< 0.00031	< 0.0002	0.0012 J	0.019	0.44	< 0.00045	< 0.0017	< 0.00013	0.0067	< 0.00089	< 0.0002	3.96 ± 0.728	2.54 ± 0.514	6.5 ± 0.891
	MW5-3	Assessment	09/29/2020	MW5-3-092920-1320	< 0.00075	0.059	2	< 0.0006	0.00058 J	< 0.00063	0.018 B	0.43	< 0.0028	< 0.0067	< 0.00013	0.0061 J	< 0.006	0.0065 J	4.51 ± 0.668	2.40 ± 0.590	6.91 ± 0.891
	MW5-4	Assessment	03/03/2020	MW5-4-030320-1459	< 0.00057	0.051	0.48	< 0.00031	< 0.0002	0.0011 J	0.0021	0.30	0.00068 J	< 0.0017	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.531 ± 0.281	0.704 ± 0.378	1.23 ± 0.471
	MW5-4	Assessment	09/29/2020	MW5-4-092920-0933	< 0.00075	0.074	0.48	< 0.0006	0.00027 J	< 0.00063	< 0.00075	0.26	< 0.0028	< 0.0067	< 0.00013	< 0.0049	0.0063 J	0.0043 J	0.674 ± 0.368	0.0179 U ± 0.397	0.692 U ± 0.541
	MW5-5	Assessment	03/03/2020	MW5-5-030320-1702	< 0.00057	0.064	0.49	< 0.00031	< 0.0002	0.0022	0.015	0.11	0.00075 J	0.0054 J	< 0.00013	0.0023 J	< 0.00089	< 0.0002	0.719 ± 0.312	0.445 U ± 0.361	1.16 ± 0.477
	MW5-5	Assessment	09/29/2020	MW5-5-092920-1145	< 0.00075	0.021	0.65	< 0.0006	0.00057 J	0.0021 J	0.0063 JB	0.12	< 0.0028	< 0.0067	< 0.00013	< 0.0049	< 0.006	0.0072 J	0.736 ± 0.241	0.972 ± 0.447	1.71 ± 0.508
	MW5-6	Assessment	03/04/2020	MW5-6-030420-1108	< 0.00057	< 0.00075	0.082	< 0.00031	0.00059 J	0.0017 J	0.0042	0.23	< 0.00045	0.012	< 0.00013	0.0042 J	< 0.00089	0.00024 J	0.174 U ± 0.155	0.392 ± 0.248	0.566 ± 0.292
	MW5-6	Assessment	09/29/2020	MW5-6-092920-1608	< 0.00075	< 0.0041	0.05 J	< 0.0006	0.00069 J	< 0.00063	0.0023 JB	0.25	< 0.0028	0.015 J	< 0.00013	< 0.0049	< 0.006	0.021	0.0629 U ± 0.0969	0.369 U ± 0.307	0.432 U ± 0.322
	MW5-7	Assessment	03/04/2020	MW5-7-030420-1538	< 0.00057	0.0012 J	0.056	< 0.00031	< 0.0002	0.0013 J	0.0019	0.35	0.0012	0.0038 J	< 0.00013	0.0013 J	< 0.00089	< 0.0002	-0.013 U ± 0.151	0.301 U ± 0.271	0.288 U ± 0.310
	MW5-7	Assessment	09/29/2020	MW5-7-092920-1303	< 0.00075	< 0.0041	0.062 J	< 0.0006	0.00034 J	0.008 J	0.0032 J	0.34	< 0.0028	< 0.0067	< 0.00013	0.01 J	< 0.006	< 0.0027	0.283 U ± 0.213	-0.102 UG ± 0.621	0.181 U ± 0.657
N&E	MW5-8I	Assessment	03/04/2020	MW5-8I-030420-0947	< 0.00057	< 0.00075	0.064	< 0.00031	0.00039 J	< 0.00098	0.0034	0.09	< 0.00045	0.0058 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.0192 U ± 0.113	1.08 ± 0.351	1.1 ± 0.369
	MW5-8I	Assessment	09/29/2020	MW5-8I-092920-1425	< 0.00075	< 0.0041	0.063 J	< 0.0006	0.0017 J	< 0.00063	0.0012 JB	0.074	< 0.0028	0.011 J	< 0.00013	< 0.0049	< 0.006	0.0059 J	0.205 ± 0.130	0.155 U ± 0.299	0.360 U ± 0.326

Notes:
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TABLE 4
LANDFILL 9 MONITORING SYSTEM GROUNDWATER SAMPLE ANALYTICAL DATA
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
FORMER J.M. STUART ELECTRIC GENERATION STATION
SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO

	Chemical Group				Field Parameters					EPA Appendix III Constituents							
	Chemical Name				Conductivity	Dissolved Oxygen	ORP	pH	Temperature	Turbidity	Boron, Total	Calcium, Total	Chloride	Fluoride	pH (lab)	Sulfate	Total Dissolved Solids (TDS)
	US EPA MCL/RSL (THQ=1.0)				-	-	-	-	-	-	-	-	-	4	-	-	-
	Units				mS/cm	mg/L	mV	SU	°C	NTU	mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
Well Location	Sample Reason	Sample Date	Sample Name														
Upgradient	MW-N00	Assessment	03/05/2020	MW-N00-030520-1706	0.911	6.01	38.7	6.83	13.66	7.99	0.057 J	140	41	0.11	7.4 HF	150	580
	MW-N00	Assessment	09/30/2020	MW-N00-093020-1643	1.040	7.06	72.3	6.85	15.87	0.89	0.059 J	160	16	0.14	7.2 HF	160	550
	MW-12	Assessment	03/04/2020	MW-12-030420-1714	0.647	2.25	166.7	6.70	10.70	2.97	0.027 J	120	14	0.09	7.2 HF	17	400
	MW-12	Assessment	10/01/2020	MW-12-100120-0810	0.774	1.05	41.6	6.66	15.73	19.2	0.036 J	140	57	0.057	6.9 HF	40	480
Downgradient	MW-10	Assessment	03/05/2020	MW-10-030520-0942	0.208	2.30	207.3	7.54	12.73	5.96	< 0.023	24	6	0.087	6.6 HF	27	150
	MW-10	Assessment	09/30/2020	MW-10-093020-1655	0.120	2.91	102.2	5.67	17.31	4.41	< 0.023	11	6.3	0.064	6.1 HF	13	72
	MW-11	Assessment	03/05/2020	MW-11-030520-1216	0.156	1.93	201.7	6.97	13.01	4.96	< 0.023	19	0.93 J	0.071	6.8 HF	25	100
	MW-11	Assessment	09/30/2020	MW-11-093020-1325	0.168	1.00	211.6	6.93	16.81	3.86	< 0.023	21	0.82 J	0.092	6.7 HF	13	110
	MW-24	Assessment	03/05/2020	MW-24-030520-1424	0.569	3.28	34.1	6.72	12.92	30.4	0.066 J	93	5	0.13	7.3 HF	17	360
	MW-24	Assessment	09/29/2020	MW-24-092920-0859	0.517	2.71	160.5	7.08	13.14	43.4	0.081 JB	89	5.3	0.11	7 HF	17	300
	MW-3B	Assessment	03/05/2020	MW-3B-030520-1542	0.706	2.76	32.1	6.70	14.14	2.06	0.15	120	9.9	0.28	7.3 HF	37	440
	MW-3B	Assessment	09/30/2020	MW-3B-093020-1525	0.715	1.51	5.7	6.40	15.37	1.00	0.11	110	11	0.23	6.8 HF	43	430
	MW-4	Assessment	03/05/2020	MW-4-030520-1333	0.204	3.51	160.6	9.20	14.37	2.66	0.043 J	29	2.3	0.046 J	6.5 HF	30	130
	MW-4	Assessment	10/01/2020	MW-4-100120-0845	0.191	0.33	89.1	5.43	14.86	2.11	0.16	23	2.4	0.069	6.2 HF	42	110
	MW-5A	Assessment	03/04/2020	MW-5A-030420-1600	0.119	0.37	116.9	6.18	14.00	21.9	0.086 J	16	1.9	0.22	6.8 HF	19	100
	MW-5A	Assessment	09/30/2020	MW-5A-093020-1225	0.157	0.58	35.6	5.80	14.75	3.98	< 0.023	94	12	0.17	6.6 HF	25	410
	MW-9	Assessment	03/05/2020	MW-9-030520-1055	0.106	0.65	232.8	6.52	13.43	7.11	< 0.023	11	1.6	0.028 J	5.7 HF	35	95
	MW-9	Assessment	09/30/2020	MW-9-093020-1055	0.114	1.28	69.0	5.09	14.82	3.46	< 0.023	12	9.9	0.037 J	5.6 HF	27	92
	MW-9 DUP	Assessment	09/30/2020	M-99A-093020-2200	-	-	-	-	-	-	< 0.023	11	9.9	0.033 J	5.6 HF	27	84
	MW-B5	Assessment	03/03/2020	MW-B5-030320-1549	0.781	7.88	230.6	6.84	12.20	3.06	0.098 J	130	9.9	0.13	7.4 HF	49	480
	MW-B5	Assessment	09/30/2020	MW-B5-093020-1815	0.996	7.79	71.9	6.86	16.10	0.15	0.079 J	130	9.4	0.15	7.2 HF	56	490
MW-L7A	Assessment	03/04/2020	MW-L7A-030420-1450	0.152	0.30	248.0	5.60	14.40	8.69	< 0.023	16	2.3	0.057	6.1 HF	33	110	
MW-L7A	Assessment	09/30/2020	MW-L7A-093020-1540	0.149	0.45	134.8	5.61	15.09	2.52	< 0.023	16	2.2	0.064	6 HF	33	92	

Notes:
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mV - millivolt
mS/cm - milliSiemen per centimeter
RSL - Regional Screening Level
THQ - Target Hazard Quotient
US EPA - United States Environmental Protection Agency
HF - Field parameter with a holding time of 15 minutes, Sample was prepped or analyzed beyond the specified holding time.

J - Estimated result
B - Blank contamination
NTU - Nephelometric Turbidity Units
°C - degrees Celsius
*- Denotes constituent not required to be sampled during this event
pCi/L - picoCurie per liter

**TABLE 4
 LANDFILL 9 MONITORING SYSTEM GROUNDWATER SAMPLE ANALYTICAL DATA
 2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 FORMER J.M. STUART ELECTRIC GENERATION STATION
 SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO**

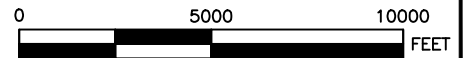
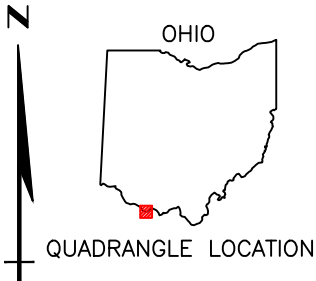
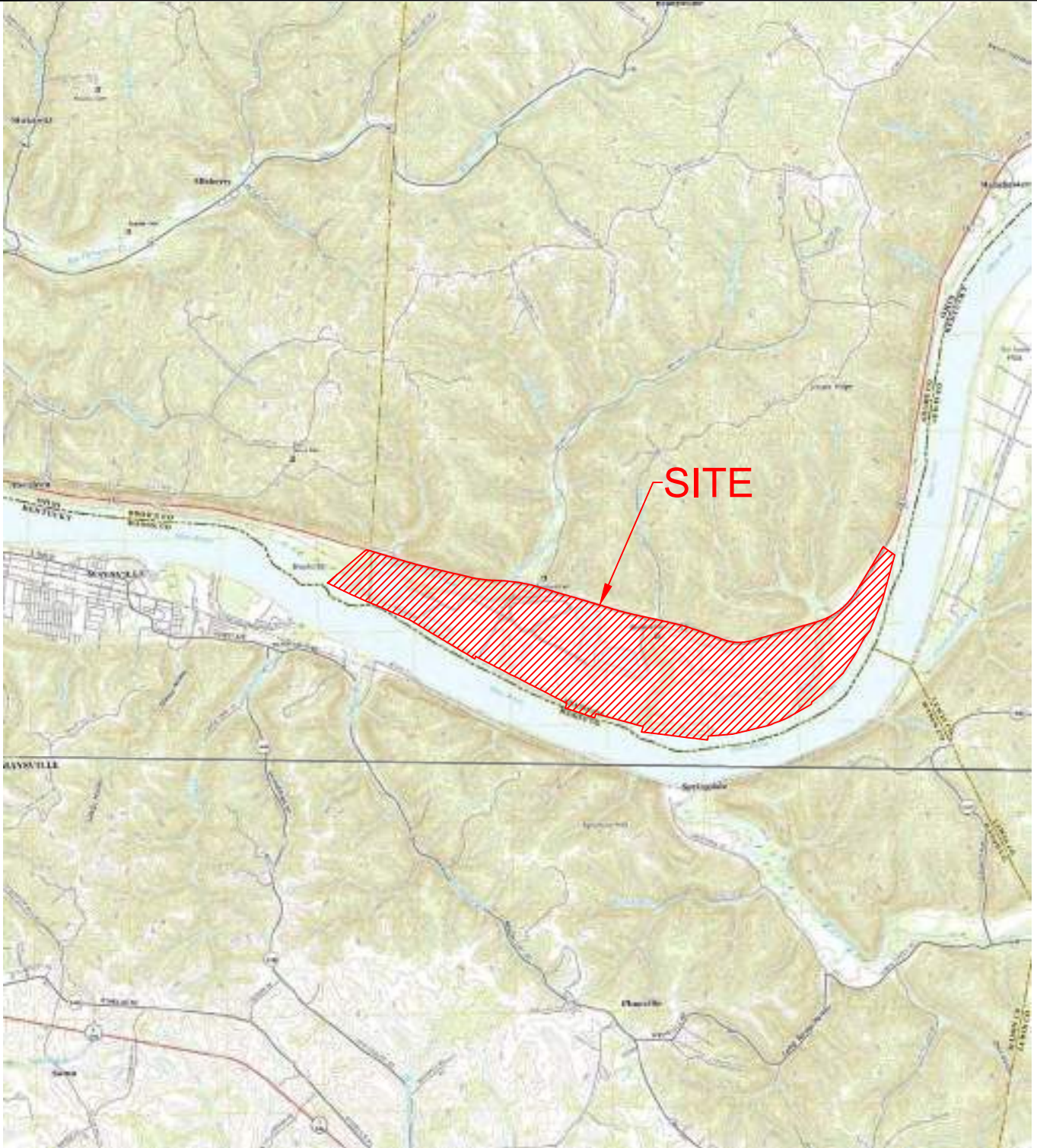
	Chemical Group				EPA Appendix IV Constituents											Radiological					
	Chemical Name				Antimony, total	Arsenic, total	Barium, total	Beryllium, total	Cadmium, total	Chromium, total	Cobalt, total	Fluoride	Lead, total	Lithium, total	Mercury, total	Molybdenum, total	Selenium, total	Thallium, total	Radium-226	Radium-228	Radium-226 & 228
	US EPA MCL/RSL (THQ=1.0)				0.006	0.01	2	0.004	0.005	0.1	0.006	4	0.015	0.04	0.002	0.1	0.05	0.002	-	-	5
Units				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Well Location	Sample Reason	Sample Date	Sample Name																		
Upgradient	MW-N00	Assessment	03/05/2020	MW-N00-030520-1706	< 0.00057	0.0013 J	0.064	< 0.00031	< 0.0002	0.0013 J	0.0019	0.11	0.0011	0.0046 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.0967 U ± 0.0928	0.175 U ± 0.215	0.271 U ± 0.234
	MW-N00	Assessment	09/30/2020	MW-N00-093020-1643	< 0.0075	< 0.0041	0.056 J	< 0.0006	0.00037 J	0.00071 J	< 0.00075	0.14	< 0.0028	0.016 J	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.0828 U ± 0.133	0.322 U ± 0.295	0.404 U ± 0.324
	MW-12	Assessment	03/04/2020	MW-12-030420-1714	< 0.00057	< 0.00075	0.055	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.09	< 0.00045	0.0032 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	-0.0286 U ± 0.0586	0.131 U ± 0.236	0.103 U ± 0.243
	MW-12	Assessment	10/01/2020	MW-12-100120-0810	< 0.0075	0.008 J	0.27	< 0.0006	< 0.0002	< 0.00063	< 0.00075	0.057	< 0.0028	< 0.0067	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.133 U ± 0.135	0.233 U ± 0.252	0.366 U ± 0.286
	MW-10	Assessment	03/05/2020	MW-10-030520-0942	< 0.00057	< 0.00075	0.045	< 0.00031	< 0.0002	0.003	0.00025 J	0.087	< 0.00045	0.0026 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.0317 U ± 0.0663	-0.0269 U ± 0.228	0.00484 U ± 0.237
Downgradient	MW-10	Assessment	09/30/2020	MW-10-093020-1655	< 0.0075	< 0.0041	0.028 J	< 0.0006	0.00042 J	0.0051 J	< 0.00075	0.064	< 0.0028	< 0.0067	< 0.00013	< 0.0049	< 0.006	< 0.0027	-0.00456 U ± 0.0588	-0.210 U ± 0.237	-0.215 U ± 0.244
	MW-11	Assessment	03/05/2020	MW-11-030520-1216	< 0.00057	< 0.00075	0.041	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.071	< 0.00045	< 0.0017	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.0432 U ± 0.0554	0.122 U ± 0.232	0.165 U ± 0.239
	MW-11	Assessment	09/30/2020	MW-11-093020-1325	< 0.0075	< 0.0041	0.051 J	< 0.0006	< 0.0002	< 0.00063	0.0019 J	0.092	< 0.0028	< 0.0067	< 0.00013	< 0.0049	< 0.006	0.004 J	0.124 U ± 0.109	0.136 U ± 0.321	0.259 U ± 0.339
	MW-24	Assessment	03/05/2020	MW-24-030520-1424	< 0.00057	0.0022 J	0.043	< 0.00031	< 0.0002	0.0018 J	0.0031	0.13	0.002	0.0029 J	< 0.00013	< 0.0011	0.0013 J	< 0.0002	0.328 ± 0.225	1.05 ± 0.587	1.38 ± 0.629
	MW-24	Assessment	09/29/2020	MW-24-092920-0859	< 0.0075	< 0.0041	0.042 J	< 0.0006	< 0.0002	0.0037 J	0.0051 JB	0.11	< 0.0028	< 0.0067	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.640 ± 0.289	0.182 U ± 0.549	0.822 U ± 0.620
	MW-3B	Assessment	03/05/2020	MW-3B-030520-1542	< 0.00057	< 0.00075	0.046	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.28	< 0.00045	0.0021 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.0635 U ± 0.0679	0.106 U ± 0.218	0.17 U ± 0.228
	MW-3B	Assessment	09/30/2020	MW-3B-093020-1525	< 0.0075	< 0.0041	0.047 J	< 0.0006	0.00021 J	< 0.00063	< 0.00075	0.23	< 0.0028	0.0077 J	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.132 U ± 0.205	0.362 U ± 0.265	0.494 ± 0.335
	MW-4	Assessment	03/05/2020	MW-4-030520-1333	< 0.00057	< 0.00075	0.066	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.046 J	< 0.00045	0.002 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.0655 U ± 0.0756	0.248 U ± 0.275	0.313 U ± 0.285
	MW-4	Assessment	10/01/2020	MW-4-100120-0845	< 0.0075	< 0.0041	0.06 J	< 0.0006	< 0.0002	< 0.00063	< 0.00075	0.069	< 0.0028	< 0.0067	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.0736 U ± 0.131	0.394 U ± 0.266	0.467 ± 0.297
	MW-5A	Assessment	03/04/2020	MW-5A-030420-1600	< 0.00057	0.00099 J	0.025	< 0.00031	< 0.0002	< 0.00098	0.00099 J	0.22	0.00084 J	0.0025 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.121 U ± 0.104	-0.0242 U ± 0.280	0.0965 U ± 0.299
	MW-5A	Assessment	09/30/2020	MW-5A-093020-1225	< 0.0075	< 0.0041	0.064 J	< 0.0006	< 0.0002	< 0.00063	< 0.00075	0.17	< 0.0028	0.0085 J	< 0.00013	< 0.0049	< 0.006	0.0028 J	0.0932 U ± 0.110	0.381 U ± 0.361	0.474 U ± 0.377
	MW-9	Assessment	03/05/2020	MW-9-030520-1055	< 0.00057	< 0.00075	0.046	< 0.00031	< 0.0002	0.0017 J	< 0.00019	0.028 J	< 0.00045	0.0029 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.0352 U ± 0.0746	0.353 U ± 0.253	0.388 U ± 0.264
	MW-9	Assessment	09/30/2020	MW-9-093020-1055	< 0.0075	< 0.0041	0.047 J	< 0.0006	0.00033 J	0.0019 J	< 0.00075	0.037 J	< 0.0028	0.0069 J	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.0232 U ± 0.0967	0.0801 U ± 0.281	0.103 U ± 0.297
	MW-9 DUP	Assessment	09/30/2020	M-99A-093020-2200	< 0.0075	< 0.0041	0.046 J	< 0.0006	0.00027 J	0.0019 J	< 0.00075	0.033 J	< 0.0028	0.008 J	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.0622 U ± 0.0829	0.0887 U ± 0.326	0.151 U ± 0.336
	MW-B5	Assessment	03/03/2020	MW-B5-030320-1549	< 0.00057	< 0.00075	0.064	< 0.00031	< 0.0002	< 0.00098	< 0.00019	0.13	< 0.00045	0.0068 J	< 0.00013	0.0027 J	0.0027 J	< 0.0002	0.199 ± 0.130	-0.158 U ± 0.280	0.0403 U ± 0.309
	MW-B5	Assessment	09/30/2020	MW-B5-093020-1815	< 0.0075	< 0.0041	0.053 J	< 0.0006	0.00026 J	< 0.00063	< 0.00075	0.15	< 0.0028	0.014 J	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.248 U ± 0.189	0.423 U ± 0.316	0.670 ± 0.368
	MW-L7A	Assessment	03/04/2020	MW-L7A-030420-1450	< 0.00057	< 0.00075	0.045	< 0.00031	0.00021 J	< 0.00098	0.0021	0.057	< 0.00045	0.0023 J	< 0.00013	< 0.0011	< 0.00089	< 0.0002	0.0348 U ± 0.0733	0.252 U ± 0.244	0.287 U ± 0.255
MW-L7A	Assessment	09/30/2020	MW-L7A-093020-1540	< 0.0075	< 0.0041	0.039 J	< 0.0006	0.00038 J	< 0.00063	0.0016 J	0.064	< 0.0028	< 0.0067	< 0.00013	< 0.0049	< 0.006	< 0.0027	0.00209 U ± 0.0657	-0.0362 U ± 0.255	-0.0341 U ± 0.263	

Notes:
 Bold indicates detected concentration
 Shaded values exceed criteria
 mg/L - milligram per liter
 MCL - Maximum Contaminant Level
 SU - standard units
 mV - millivolt
 mS/cm - milliSiemen per centimeter
 RSL - Regional Screening Level
 THQ - Target Hazard Quotient
 US EPA - United States Environmental Protection Agency
 HF - Field parameter with a holding time of 15 minutes, Sample was prepped or analyzed beyond the specified holding time.

J - Estimated result
 B - Blank contamination
 NTU - Nephelometric Turbidity Units
 °C - degrees Celsius
 -- - Denotes constituent not required to be sampled during this event
 pCi/L - picoCurie per liter

FIGURES

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KINGFISHER DEVELOPMENT, LLC

DRWN: SCC	DATE: 01/13/21
CHKD: AJR	DATE: 01/13/21
APPD: AEF	DATE: 01/29/21
SCALE:	AS SHOWN



2020 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
FORMER J.M. STUART ELECTRIC GENERATING STATION
SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO

REFERENCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE:
- MAYSVILLE EAST, OH-KY, 2019
- ORANGEBURG, KY, 2019

ISSUE DATE:

KEY ENVIRONMENTAL, INC.
200 THIRD AVENUE
CARNEGIE, PA 15106

SITE LOCATION MAP

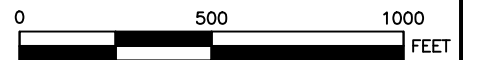
PROJECT NO: 17-464
FIGURE 1

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LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE WASTE BOUNDARY
- ◆ UPGRADIENT MONITORING WELLS
- ◆ DOWNGRADIENT MONITORING WELLS
- ◆ NATURE AND EXTENT MONITORING WELLS
- ◆ OTHER MONITORING WELLS



KINGFISHER DEVELOPMENT, LLC

DRWN: SCC	DATE: 01/13/21
CHKD: AJR	DATE: 01/13/21
APPD: AEF	DATE: 01/29/21
SCALE: AS SHOWN	



2020 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT
 FORMER J.M. STUART ELECTRIC GENERATING STATION
 SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO

ISSUE DATE:

KEY ENVIRONMENTAL, INC.
 200 THIRD AVENUE
 CARNEGIE, PA 15106

MULTI-UNIT MONITORING SYSTEM (POND 3A, POND 6, POND 7/7A, POND 10, AND LANDFILL 11) GROUNDWATER MONITORING NETWORK

PROJECT NO: 17-484
FIGURE 2

REV #	DATE	DESCRIPTION	APPD

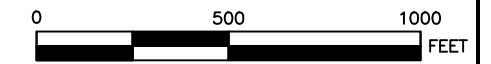
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LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE WASTE BOUNDARY
- DOWNGRADIENT MONITORING WELLS
- NATURE AND EXTENT MONITORING WELLS



KINGFISHER DEVELOPMENT, LLC	
DRWN: SCC	DATE: 01/13/21
CHKD: AJR	DATE: 01/13/21
APPD: AEF	DATE: 01/29/21
SCALE:	AS SHOWN
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT FORMER J.M. STUART ELECTRIC GENERATING STATION SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO	
ISSUE DATE:	PROJECT NO: 17-484
KEY ENVIRONMENTAL, INC. 200 THIRD AVENUE CARNEGIE, PA 15106	POND 5 GROUNDWATER MONITORING NETWORK
FIGURE 3	

REV #	DATE	DESCRIPTION	APPD

REFERENCE:	
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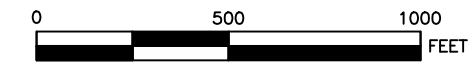
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LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE WASTE BOUNDARY
- ◆ UPGRADIENT MONITORING WELLS
- ◆ DOWNGRADIENT MONITORING WELLS



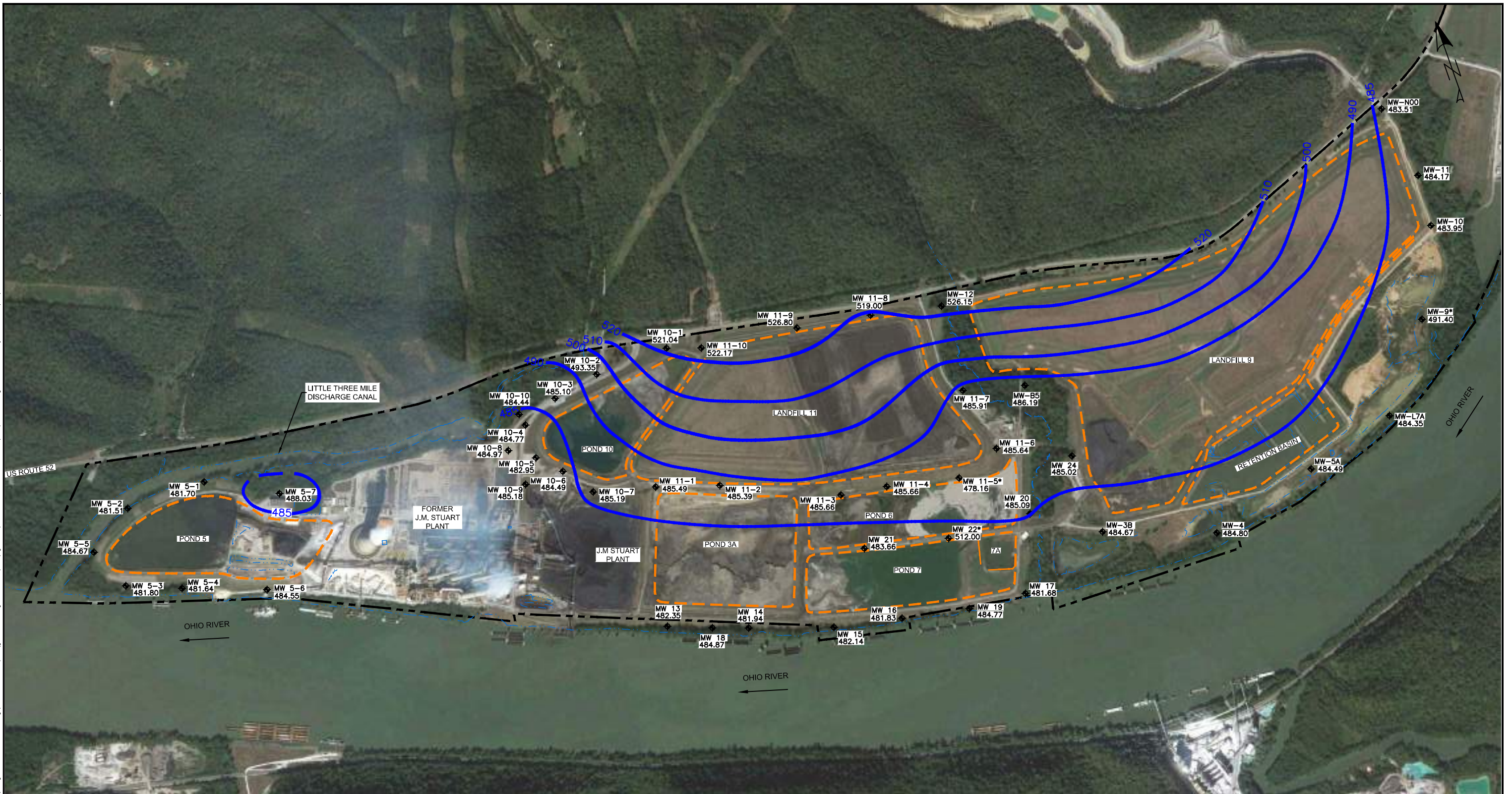
KINGFISHER DEVELOPMENT, LLC	
DRWN: SCC	DATE: 01/13/21
CHKD: AJR	DATE: 01/13/21
APPD: AEF	DATE: 01/29/21
SCALE:	AS SHOWN
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT FORMER J.M. STUART ELECTRIC GENERATING STATION SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO	
ISSUE DATE:	PROJECT NO: 17-464
KEY ENVIRONMENTAL, INC. 200 THIRD AVENUE CARNEGIE, PA 15106	LANDFILL 9 GROUNDWATER MONITORING NETWORK
FIGURE 4	

REV #	DATE	DESCRIPTION	APPD

REFERENCE:	

ISSUE DATE:	
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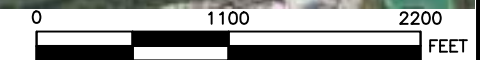


LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE WASTE BOUNDARY
- MW 5-6 MONITORING WELL LOCATION
- 484.55 POTENTIOMETRIC SURFACE ELEVATION (FT-MSL)
- POTENTIOMETRIC SURFACE CONTOUR (FT-MSL) (DASHED WHERE INFERRED)

NOTE:

* - INCONSISTENT RESULTS FOR MW 11-5 AND MW 22 NOT USED FOR CONTOURING PURPOSES.



KINGFISHER DEVELOPMENT, LLC

DRWN: SCC	DATE: 01/13/21
CHKD: AJR	DATE: 01/13/21
APPD: AEF	DATE: 01/29/21
SCALE: AS SHOWN	



2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 FORMER J.M. STUART ELECTRIC GENERATING STATION
 SPRIGG TOWNSHIP, ADAMS COUNTY, OHIO

ISSUE DATE:

KEY ENVIRONMENTAL, INC.
 200 THIRD AVENUE
 CARNEGIE, PA 15106

POTENTIOMETRIC SURFACE MAP
 SEPTEMBER 28, 2020

PROJECT NO: 17-464
 FIGURE 5

REV #	DATE	DESCRIPTION	APPD

REFERENCE: