



**CCR COMPLIANCE
GROUNDWATER MONITORING AND CORRECTIVE ACTION
ANNUAL REPORT
ASH FILTER PONDS AND ASH DISPOSAL SITE**

Prepared for:



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1.0 Introduction

Title 40 Code of Federal Regulations (CFR) §257.90 mandates that existing Coal Combustion Residuals (CCR) landfills and surface impoundments, also known as CCR units, be subject to groundwater monitoring and corrective action requirements as further detailed in §257.91 through §257.98. These requirements are part of the overall CCR Rule (or Rule) which was published in the Federal Register on April 17, 2015 and which became effective on October 19, 2015. Specific obligations for Owners and Operators of existing CCR units regarding the preparation of “Annual Groundwater Monitoring and Corrective Action Reports (Annual Report)” are outlined in §257.90(e)(1-5). The first of these Annual Reports must be completed no later than January 31, 2018, and provide information to address the following aspects for the preceding calendar year:

- Document the status of the groundwater monitoring and corrective action program for the respective CCR units;
- Summarize key actions completed;
- Describe any problems encountered and actions taken to resolve the problems; and
- Offer a projection of key activities for the upcoming year.

At a minimum, the Annual Report must contain the following information to the extent applicable and available:

- A map, aerial image, or diagram showing the CCR unit and all background/upgradient and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program;
- 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;
- 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/upgradient and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;
- 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); and
- Any other information required to be included as specified in §257.90 through §257.98.

The Keystone Generating Station (Station), operated by GenOn Northeast Management Company, is a coal-fired power plant located in Shelocta, Pennsylvania. The Rule applies to this facility due to the management/disposal of CCR materials that are generated from the combustion of coal. CCR units associated with Station operations include the Keystone Ash Disposal Site (represented by the East Valley and West Valley Disposal Sites), and three Ash Filter Ponds (Ponds “A,” “B,” and “C”) used for the management of bottom ash. Each of these CCR units has a dedicated groundwater monitoring system that was originally installed to comply with Commonwealth of Pennsylvania Residual Waste Regulations, and was subsequently evaluated and modified (as needed) for use under the CCR program. Additionally, in accordance with the provisions of §257.91(d) of the Rule, the groundwater monitoring system for the Ash Filter Ponds has been designated to provide coverage in the context of a multiunit system encompassing all three ponds collectively.

In summary, this Annual Report has been prepared to comply with the requirements of §257.90(e), addressing each of the Keystone Station’s CCR Units with respect to the groundwater monitoring and corrective actions undertaken during Calendar Year 2017. This Annual Report and all subsequent reports thereto will be placed in the Station’s operating record per §257.105(h)(1), noticed to the State Director per §257.106(h)(1), and posted to the publicly accessible internet site per §257.107(h)(1).

2.0 Ash Filter Ponds

2.1 Groundwater Monitoring Network

The CCR groundwater monitoring system for the Ash Filter Ponds is comprised of four wells, including Well MW-5 (upgradient) and Wells MW-6, MP-29, and MP-30 (downgradient). The screened intervals of all four wells cross the interface between the Carmichaels Formation and the Mahoning Sandstone, recognized as the horizon for the uppermost aquifer. The locations of the groundwater monitoring wells are shown on Figure 1, along with depiction of the generalized groundwater flow direction in the area of the ponds. Each of these wells was already existing, and no new wells were added nor were any existing wells abandoned/replaced during the 2017 reporting period.

2.2 2017 Data Collection

Per the requirements of §257.94(b), Detection Monitoring was ongoing throughout 2017, including activities to ensure the collection of a minimum of eight independent samples from each of the background/upgradient and downgradient wells associated with the Ash Filter Ponds. These samples were analyzed for the necessary Appendix III and Appendix IV constituents, with the results summarized in the attached Tables 1 and 2, respectively. In addition, a ninth round of samples was collected (October 10-12, 2017) and analyzed for Appendix III constituents only. The results from these samples (also shown in Table 1) will serve as the first point of comparison to determine if concentrations in any of the downgradient wells are at levels representing a statistically significant increase (SSI) over the background concentrations established in the upgradient well(s).

2.3 2017 Monitoring Program Transitions

During 2017, there were no transitions between monitoring programs. Only activities in support of the Detection Monitoring program were conducted.

2.4 2017 Corrective Actions

During 2017, there were no problems identified or corrective actions undertaken.

2.5 2018 Projected Activities

No later than January 15, 2018, the results from the ninth round of Detection Monitoring sampling will be reviewed against the Appendix III background concentrations and preliminary identification of any SSIs completed. If SSIs are identified, subsequent activities could include performance of an Alternate Source Demonstration [per §257.94(e)(2)] to potentially negate the SSIs (and remain in Detection Monitoring), and/or entry into the Assessment Monitoring program [per §257.94(e)(1)] should the SSIs be deemed valid. Completion of the Alternate Source

Demonstration or entry into the Assessment Monitoring program must be accomplished within 90 days, or no later than April 15, 2018.

3.0 East Valley Disposal Site

3.1 Groundwater Monitoring Network

The CCR groundwater monitoring system for the East Valley Disposal Site is comprised of four wells, including Well MP-21 (upgradient/side-gradient) and Wells MP-4, MP-17B, and MP-18 (downgradient). The screened intervals of all four monitoring wells are in bedrock units, including the Mahoning Sandstone which is represented as the uppermost aquifer in this area. The locations of the monitoring wells are shown on Figure 2 along with a depiction of the generalized groundwater flow direction. Each of these wells was already existing, and no new wells were added nor were any existing wells abandoned/replaced during the 2017 reporting period.

3.2 2017 Data Collection

Per the requirements of §257.94(b), Detection Monitoring was ongoing throughout 2017, including activities to ensure the collection of a minimum of eight independent samples from each of the background/upgradient and downgradient wells associated with the East Valley Disposal Site. These samples were analyzed for the necessary Appendix III and Appendix IV constituents, with the results summarized in the attached Tables 3 and 4, respectively. In addition, a ninth round of samples was collected (October 9-12, 2017) and analyzed for Appendix III constituents only. The results from these samples (also shown in Table 3) will serve as the first point of comparison to determine if concentrations in any of the downgradient wells are at levels representing an SSI over the background concentrations established in the upgradient well(s).

3.3 2017 Monitoring Program Transitions

During 2017, there were no transitions between monitoring programs. Only activities in support of the Detection Monitoring program were conducted.

3.4 2017 Corrective Actions

During 2017, there were no problems identified or corrective actions undertaken.

3.5 2018 Projected Activities

No later than January 15, 2018, the results from the ninth round of Detection Monitoring sampling will be reviewed against the Appendix III background concentrations and preliminary identification of any SSIs completed. If SSIs are identified, subsequent activities could include performance of an Alternate Source Demonstration [per §257.94(e)(2)] to potentially negate the SSIs (and remain in Detection Monitoring), and/or entry into the Assessment Monitoring program [per §257.94(e)(1)] should the SSIs be deemed valid. Completion of the Alternate Source Demonstration or entry into the Assessment Monitoring program must be accomplished within 90 days, or no later than April 15, 2018.

4.0 West Valley Disposal Site

4.1 Groundwater Monitoring Network

The CCR groundwater monitoring system for the West Valley Disposal Site is comprised of four wells, including Well MP-21 (upgradient/side-gradient) and Wells MP-16, MP-23, and MP-24 (downgradient). The screened intervals of all four monitoring wells are in the Mahoning Sandstone which is represented as the uppermost aquifer in this area. The locations of the monitoring wells are shown on Figure 2 along with a depiction of the generalized groundwater flow direction. Each of these wells was already existing, and no new wells were added nor were any existing wells abandoned/replaced during the 2017 reporting period.

4.2 2017 Data Collection

Per the requirements of §257.94(b), Detection Monitoring was ongoing throughout 2017, including activities to ensure the collection of a minimum of eight independent samples from each of the background/upgradient and downgradient wells associated with the West Valley Disposal Site. These samples were analyzed for the necessary Appendix III and Appendix IV constituents, with the results summarized in the attached Tables 5 and 6, respectively. In addition, a ninth round of samples was collected (October 5-10, 2017) and analyzed for Appendix III constituents only. The results from these samples (also shown in Table 5) will serve as the first point of comparison to determine if concentrations in any of the downgradient wells are at levels representing an SSI over the background concentrations established in the upgradient well(s).

4.3 2017 Monitoring Program Transitions

During 2017, there were no transitions between monitoring programs. Only activities in support of the Detection Monitoring program were conducted.

4.4 2017 Corrective Actions

During 2017, there were no problems identified or corrective actions undertaken.

4.5 2018 Projected Activities

No later than January 15, 2018, the results from the ninth round of Detection Monitoring sampling will be reviewed against the Appendix III background concentrations and preliminary identification of any SSIs completed. If SSIs are identified, subsequent activities could include performance of an Alternate Source Demonstration [per §257.94(e)(2)] to potentially negate the SSIs (and remain in Detection Monitoring), and/or entry into the Assessment Monitoring program [per §257.94(e)(1)] should the SSIs be deemed valid. Completion of the Alternate Source Demonstration or entry into the Assessment Monitoring program must be accomplished within 90 days, or no later than April 15, 2018.

Tables

Table 1
Keystone Generating Station
Ash Filter Ponds--Groundwater Analytical Data
CCR Appendix III Constituents

Monitoring Well	Date Sampled	Groundwater Elevation (ft. MSL)	Total Boron (mg/L)	Total Calcium (mg/L)	Total Chloride (mg/L)	Total Fluoride (mg/L)	Total Dissolved Solids (mg/L)	Sulfate (mg/L)	pH (S.U.)
MW-5 (Upgradient)	23-Dec-15	1003.51	< 0.05	54.7	36	< 0.1	482	272	5.67
	14-Mar-16	1005.46	< 0.05	59.5	34	< 0.1	458	272	5.20
	19-May-16	1002.11	< 0.05	71.6	36	< 0.1	562	304	5.75
	17-Aug-16	1001.46	0.05	101	23	< 0.1	686	326	5.69
	30-Nov-16	1001.96	< 0.05	59.7	35	< 0.1	496	256	5.20
	23-Feb-17	1008.41	0.06	59.9	39	0.2	432	256	5.84
	2-May-17	1006.21	< 0.05	66.6	44	0.1	534	297	4.68
	21-Aug-17	1003.56	< 0.05	67.6	39	0.1	560	317	6.08
	11-Oct-17	1001.76	< 0.05	68.6	40	< 0.1	558	341	5.18
MW-6 (Downgradient)	22-Dec-15	1001.81	< 0.05	8.3	14	< 0.1	84	23	5.62
	16-Mar-16	1002.06	< 0.05	7.1	7	< 0.1	62	11	5.76
	18-May-16	1000.56	< 0.05	8.3	6	< 0.1	110	14	5.48
	25-Aug-16	999.96	< 0.05	9.3	7	< 0.1	104	18	5.38
	17-Nov-16	1000.61	< 0.05	7.1	6	< 0.1	80	10	5.64
	28-Feb-17	1001.21	< 0.05	6.3	8	< 0.1	62	8	6.43
	3-May-17	1002.16	< 0.05	7.2	7	< 0.1	92	10	5.17
	22-Aug-17	1001.56	< 0.05	6.8	7	< 0.1	92	11	4.87
	10-Oct-17	1000.41	< 0.05	7.3	6	< 0.1	84	14	5.63
MP-29 (Downgradient)	22-Dec-15	1000.63	0.07	106	112	0.2	684	222	6.56
	15-Mar-16	1000.98	0.08	88.9	92	0.2	546	177	7.03
	19-May-16	1000.03	0.14	120	142	0.2	758	242	6.60
	10-Aug-16	999.28	0.10	109	129	0.2	830	235	6.77
	22-Nov-16	1000.13	0.09	130	116	0.1	764	247	6.73
	27-Feb-17	1001.33	0.08	80.9	73	0.2	548	173	7.75
	3-May-17	1002.63	0.08	105	92	0.1	568	184	6.13
	21-Aug-17	1002.73	0.12	112	100	< 0.1	646	226	7.50
	12-Oct-17	1003.18	0.05	120	129	0.2	734	294	6.60
MP-30 (Downgradient)	22-Dec-15	998.30	0.06	87.7	103	< 0.1	526	197	6.65
	15-Mar-16	998.60	0.07	59.1	101	< 0.1	348	103	6.07
	18-May-16	997.55	< 0.05	104	172	< 0.1	796	265	6.17
	10-Aug-16	996.75	< 0.05	114	120	< 0.1	792	289	6.45
	22-Nov-16	996.95	< 0.05	110	107	0.1	578	202	7.11
	27-Feb-17	997.75	0.08	61.6	97	< 0.1	424	131	7.13
	2-May-17	999.25	0.08	99.2	283	< 0.1	800	107	5.83
	22-Aug-17	999.05	0.13	71.8	197	< 0.1	604	127	5.47
	11-Oct-17	998.15	0.10	81.9	195	< 0.1	672	176	6.04

 = Data to be compared against calculated Background values from the upgradient well.

Table 2
Keystone Generating Station
Ash Filter Ponds--Groundwater Baseline Analytical Data
CCR Appendix IV Constituents

Monitoring Well	Date Sampled	Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Selenium (mg/L)	Total Thallium (mg/L)	Total Radium-226 and 228 (pCi/L)
MW-5 (Upgradient)	23-Dec-15	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	0.008	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	0.006	< 0.0002	0.26
	14-Mar-16	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	0.014	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	0.005	< 0.0002	0.27
	19-May-16	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	0.006	< 0.0002	0.69
	17-Aug-16	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	0.096	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	0.002	< 0.0002	0.54
	30-Nov-16	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	0.006	< 0.0002	1.89
	23-Feb-17	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	0.020	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	0.004	< 0.0002	0.73
	2-May-17	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	0.023	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	0.005	< 0.0002	0.76
21-Aug-17	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	0.009	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	0.007	< 0.0002	0.35	
MW-6 (Downgradient)	22-Dec-15	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	2.05
	16-Mar-16	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.67
	18-May-16	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.57
	25-Aug-16	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.67
	17-Nov-16	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.45
	28-Feb-17	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.40
	3-May-17	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.33
22-Aug-17	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.79	
MP-29 (Downgradient)	22-Dec-15	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	3.16
	15-Mar-16	< 0.001	< 0.001	0.02	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.86
	19-May-16	< 0.001	< 0.001	0.02	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.60
	10-Aug-16	< 0.001	< 0.001	0.02	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.64
	22-Nov-16	< 0.001	< 0.001	0.02	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.34
	27-Feb-17	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.14
	3-May-17	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.40
21-Aug-17	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.61	
MP-30 (Downgradient)	22-Dec-15	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	0.009	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	2.34
	15-Mar-16	< 0.001	0.004	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	10.37
	18-May-16	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	0.011	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.60
	10-Aug-16	< 0.001	0.003	0.05	< 0.001	< 0.002	< 0.01	0.016	< 0.1	< 0.001	0.02	< 0.0002	< 0.02	< 0.001	< 0.0002	0.99
	22-Nov-16	< 0.001	0.009	0.05	< 0.001	< 0.002	< 0.01	0.007	0.1	< 0.001	0.02	< 0.0002	< 0.02	< 0.001	< 0.0002	0.24
	27-Feb-17	< 0.001	0.002	0.04	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.37
	2-May-17	< 0.001	0.005	0.09	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.44
22-Aug-17	< 0.001	0.005	0.07	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.54	

Table 3
Keystone Generating Station
East Valley Disposal Site--Groundwater Analytical Data
CCR Appendix III Constituents

Monitoring Well	Date Sampled	Groundwater Elevation (ft. MSL)	Total Boron (mg/L)	Total Calcium (mg/L)	Total Chloride (mg/L)	Total Fluoride (mg/L)	Total Dissolved Solids (mg/L)	Sulfate (mg/L)	pH (S.U.)
MP-21 (Upgradient)	28-Dec-15	1069.20	< 0.05	38.0	2	0.2	204	15	7.85
	8-Mar-16	1069.15	0.05	40.5	2	0.2	210	15	7.86
	31-May-16	1072.00	0.08	42.5	1	0.2	202	14	7.37
	22-Aug-16	1066.55	0.06	39.0	1	0.2	206	14	7.50
	8-Nov-16	1068.50	0.05	42.3	3	0.2	198	15	8.28
	6-Mar-17	1068.06	0.06	40.3	2	0.2	198	13	7.32
	31-May-17	1068.60	< 0.05	37.0	2	0.2	192	15	7.27
	28-Aug-17	1066.80	0.05	39.6	2	0.2	204	15	8.30
	10-Oct-17	1066.20	0.05	41.4	2	0.2	200	15	7.68
MP-4 (Downgradient)	29-Dec-15	1022.13	< 0.05	46.0	2	0.1	158	17	7.71
	9-Mar-16	1016.78	< 0.05	57.8	2	0.1	206	54	8.02
	25-May-16	1017.08	< 0.05	77.0	3	< 0.1	266	39	8.00
	23-Aug-16	1017.78	< 0.05	74.4	1	< 0.1	296	20	7.87
	28-Nov-16	1015.48	< 0.05	67.3	2	< 0.1	230	23	8.12
	7-Mar-17	1021.48	< 0.05	42.1	1	0.1	156	15	8.08
	23-May-17	1015.78	< 0.05	57.9	< 1	< 0.1	214	11	8.49
	23-Aug-17	1016.08	< 0.05	80.6	1	< 0.1	248	14	6.87
	12-Oct-17	1016.88	< 0.05	74.5	2	< 0.1	252	19	7.25
MP-17B (Downgradient)	29-Dec-15	1025.11	< 0.05	79.2	2	0.1	304	59	7.32
	10-Mar-16	1024.56	< 0.05	81.0	2	0.1	322	52	6.92
	1-Jun-16	1024.16	< 0.05	88.2	3	0.2	414	57	7.48
	18-Aug-16	1024.16	< 0.05	83.5	2	0.1	280	48	7.15
	29-Nov-16	1023.36	< 0.05	90.9	2	< 0.1	362	31	7.32
	2-Mar-17	1024.46	< 0.05	81.0	3	0.1	302	30	7.09
	30-May-17	1024.71	< 0.05	80.7	3	< 0.1	310	34	6.98
	23-Aug-17	1022.91	< 0.05	84.7	2	< 0.1	326	26	7.11
	9-Oct-17	1022.06	< 0.05	81.5	2	< 0.1	354	50	7.40
MP-18 (Downgradient)	29-Dec-15	1018.28	< 0.05	39.1	2	< 0.1	168	42	7.16
	9-Mar-16	1017.58	0.06	58.2	2	< 0.1	272	53	7.11
	26-May-16	1017.18	< 0.05	50.4	2	0.1	222	46	7.58
	18-Aug-16	1015.43	< 0.05	21.5	2	< 0.1	116	31	7.01
	28-Nov-16	1016.43	< 0.05	54.0	2	< 0.1	236	46	7.12
	2-Mar-17	1017.18	< 0.05	42.5	2	< 0.1	188	45	7.95
	30-May-17	1018.18	< 0.05	40.0	2	< 0.1	180	45	6.97
	24-Aug-17	1016.08	< 0.05	45.8	2	< 0.1	186	48	6.63
	9-Oct-17	1015.18	< 0.05	25.5	2	< 0.1	144	29	7.35


 = Data to be compared against calculated Background values from the upgradient well.

Table 4
Keystone Generating Station
East Valley Disposal Site--Groundwater Baseline Analytical Data
CCR Appendix IV Constituents

Monitoring Well	Date Sampled	Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Selenium (mg/L)	Total Thallium (mg/L)	Total Radium-226 and 228 (pCi/L)
MP-21 (Upgradient)	28-Dec-15	< 0.001	< 0.001	0.13	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.98
	8-Mar-16	< 0.001	< 0.001	0.13	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.33
	31-May-16	< 0.001	0.002	0.18	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.25
	22-Aug-16	< 0.001	< 0.001	0.12	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.43
	8-Nov-16	< 0.001	0.007	0.27	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	2.58
	6-Mar-17	< 0.001	< 0.001	0.14	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.51
	31-May-17	< 0.001	< 0.001	0.12	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.65
	28-Aug-17	< 0.001	< 0.001	0.13	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.09
MP-4 (Downgradient)	29-Dec-15	< 0.001	< 0.001	0.09	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.02
	9-Mar-16	< 0.001	< 0.001	0.10	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.43
	25-May-16	< 0.001	< 0.001	0.13	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.65
	23-Aug-16	< 0.001	< 0.001	0.14	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.92
	28-Nov-16	< 0.001	< 0.001	0.13	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.52
	7-Mar-17	< 0.001	< 0.001	0.08	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.64
	23-May-17	< 0.001	< 0.001	0.10	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.72
23-Aug-17	< 0.001	< 0.001	0.14	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.90	
MP-17B (Downgradient)	29-Dec-15	< 0.001	< 0.001	0.07	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.97
	10-Mar-16	< 0.001	< 0.001	0.09	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.03
	1-Jun-16	< 0.001	< 0.001	0.08	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.19
	18-Aug-16	< 0.001	< 0.001	0.09	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.39
	29-Nov-16	< 0.001	< 0.001	0.08	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.22
	2-Mar-17	< 0.001	< 0.001	0.09	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	0.02	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.15
	30-May-17	< 0.001	< 0.001	0.09	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.34
	23-Aug-17	< 0.001	< 0.001	0.10	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.40
MP-18 (Downgradient)	29-Dec-15	< 0.001	< 0.001	0.07	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.20
	9-Mar-16	< 0.001	< 0.001	0.08	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	0.005	< 0.0002	-0.03
	26-May-16	< 0.001	< 0.001	0.07	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.75
	18-Aug-16	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.18
	28-Nov-16	< 0.001	< 0.001	0.08	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.08
	2-Mar-17	< 0.001	< 0.001	0.07	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.03
	30-May-17	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.22
	24-Aug-17	< 0.001	< 0.001	0.07	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.91

Table 5
Keystone Generating Station
West Valley Disposal Site--Groundwater Analytical Data
CCR Appendix III Constituents

Monitoring Well	Date Sampled	Groundwater Elevation (ft. MSL)	Total Boron (mg/L)	Total Calcium (mg/L)	Total Chloride (mg/L)	Total Fluoride (mg/L)	Total Dissolved Solids (mg/L)	Sulfate (mg/L)	pH (S.U.)
MP-21 (Upgradient)	28-Dec-15	1069.20	< 0.05	38.0	2	0.2	204	15	7.85
	8-Mar-16	1069.15	0.05	40.5	2	0.2	210	15	7.86
	31-May-16	1072.00	0.08	42.5	1	0.2	202	14	7.37
	22-Aug-16	1066.55	0.06	39.0	1	0.2	206	14	7.50
	8-Nov-16	1068.50	0.05	42.3	3	0.2	198	15	8.28
	6-Mar-17	1068.06	0.06	40.3	2	0.2	198	13	7.32
	31-May-17	1068.60	< 0.05	37.0	2	0.2	192	15	7.27
	28-Aug-17	1066.80	0.05	39.6	2	0.2	204	15	8.30
	10-Oct-17	1066.20	0.05	41.4	2	0.2	200	15	7.68
MP-16 (Downgradient)	30-Dec-15	1051.40	0.08	45.4	25	0.2	226	9	7.52
	7-Mar-16	1051.05	< 0.05	45.0	26	0.2	230	9	7.65
	26-May-16	1051.05	< 0.05	43.6	26	0.3	228	4	7.25
	25-Aug-16	1050.45	0.11	39.8	27	0.2	230	8	8.05
	30-Nov-16	1051.25	0.06	39.9	25	0.2	224	7	7.29
	23-Feb-17	1050.75	0.07	37.1	25	0.2	204	8	8.18
	24-May-17	1051.50	0.07	35.5	25	0.2	200	8	7.15
	29-Aug-17	1051.10	0.07	37.0	29	0.1	212	7	7.11
	5-Oct-17	1050.65	0.06	37.9	28	0.2	208	8	7.59
MP-23 (Downgradient)	23-Dec-15	1061.14	< 0.05	40.7	70	0.1	298	54	6.17
	7-Mar-16	1061.14	< 0.05	44.8	72	< 0.1	264	54	6.17
	25-May-16	1060.44	< 0.05	43.1	68	0.1	334	48	5.92
	23-Aug-16	1058.04	< 0.05	50.9	96	< 0.1	496	46	5.99
	29-Nov-16	1059.74	< 0.05	47.8	85	< 0.1	272	48	6.02
	28-Feb-17	1059.84	< 0.05	45.7	91	0.1	262	52	6.98
	24-May-17	1060.54	< 0.05	45.1	91	< 0.1	344	56	5.63
	24-Aug-17	1059.34	< 0.05	46.8	101	< 0.1	354	58	5.59
	11-Oct-17	1058.14	< 0.05	53.9	106	< 0.1	452	51	6.02
MP-24 (Downgradient)	28-Dec-15	1081.26	< 0.05	19.3	3	0.1	108	13	6.75
	8-Mar-16	1076.76	< 0.05	28.9	4	0.1	152	14	6.85
	31-May-16	1069.26	0.06	19.3	2	< 0.1	100	13	6.51
	22-Aug-16	1054.96	< 0.05	24.8	2	0.1	124	11	6.71
	8-Nov-16	1071.36	< 0.05	37.0	2	0.1	154	13	7.60
	6-Mar-17	1076.16	< 0.05	39.6	2	0.1	166	12	6.82
	31-May-17	1079.46	< 0.05	31.0	2	0.1	128	10	6.61
	28-Aug-17	1053.76	< 0.05	46.0	2	0.2	176	10	7.92
	10-Oct-17	1051.16	< 0.05	44.7	2	0.2	172	10	7.20

 = Data to be compared against calculated Background values from the upgradient well.

Table 6
Keystone Generating Station
West Valley Disposal Site--Groundwater Baseline Analytical Data
CCR Appendix IV Constituents

Monitoring Well	Date Sampled	Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Selenium (mg/L)	Total Thallium (mg/L)	Total Radium-226 and 228 (pCi/L)
MP-21 (Upgradient)	28-Dec-15	< 0.001	< 0.001	0.13	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.98
	8-Mar-16	< 0.001	< 0.001	0.13	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.33
	31-May-16	< 0.001	0.002	0.18	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.25
	22-Aug-16	< 0.001	< 0.001	0.12	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.43
	8-Nov-16	< 0.001	0.007	0.27	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	2.58
	6-Mar-17	< 0.001	< 0.001	0.14	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.51
	31-May-17	< 0.001	< 0.001	0.12	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.65
	28-Aug-17	< 0.001	< 0.001	0.13	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.09
MP-16 (Downgradient)	30-Dec-15	< 0.001	< 0.001	0.89	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.00
	7-Mar-16	< 0.001	< 0.001	0.90	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.93
	26-May-16	< 0.001	< 0.001	0.89	< 0.001	< 0.002	< 0.01	< 0.005	0.3	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.78
	25-Aug-16	< 0.001	< 0.001	0.86	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.28
	30-Nov-16	< 0.001	< 0.001	0.95	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.58
	23-Feb-17	< 0.001	< 0.001	0.92	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.22
	24-May-17	< 0.001	< 0.001	0.89	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.11
29-Aug-17	< 0.001	< 0.001	0.76	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.13	
MP-23 (Downgradient)	23-Dec-15	< 0.001	< 0.001	0.09	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	0.01	< 0.0002	< 0.02	0.001	< 0.0002	0.56
	7-Mar-16	< 0.001	< 0.001	0.09	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	0.001	< 0.0002	1.07
	25-May-16	< 0.001	< 0.001	0.09	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	0.01	< 0.0002	< 0.02	0.001	< 0.0002	1.03
	23-Aug-16	< 0.001	< 0.001	0.11	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.95
	29-Nov-16	< 0.001	< 0.001	0.10	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.13
	28-Feb-17	< 0.001	< 0.001	0.10	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	0.01	< 0.0002	< 0.02	0.001	< 0.0002	-0.07
	24-May-17	< 0.001	< 0.001	0.10	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.88
	24-Aug-17	< 0.001	< 0.001	0.10	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.47
MP-24 (Downgradient)	28-Dec-15	< 0.001	< 0.001	0.17	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.86
	8-Mar-16	< 0.001	< 0.001	0.30	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.56
	31-May-16	< 0.001	< 0.001	0.21	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.61
	22-Aug-16	< 0.001	< 0.001	0.12	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.33
	8-Nov-16	< 0.001	< 0.001	0.46	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.87
	6-Mar-17	< 0.001	< 0.001	0.49	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.83
	31-May-17	< 0.001	< 0.001	0.43	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.89
	28-Aug-17	< 0.001	< 0.001	0.61	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.16



Figures

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	1/31/18	--	E. Schlegel	--	--	1009174011-B7

File: O:\PROJECT\1009174011_keystone\1009174011-B7.dwg
 Plot Date/Time: Jan 31, 2018 - 11:38am
 Xref: Image
 Plotted By: Evan.Schlegel



LEGEND:

 MW-5 (1001.76) CCR GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION MEASURED BETWEEN OCTOBER 10 AND 12, 2017
 GROUNDWATER FLOW DIRECTION



REFERENCES:

1. GOOGLE AERIAL PHOTOGRAPH, DATED 10/11/2015.

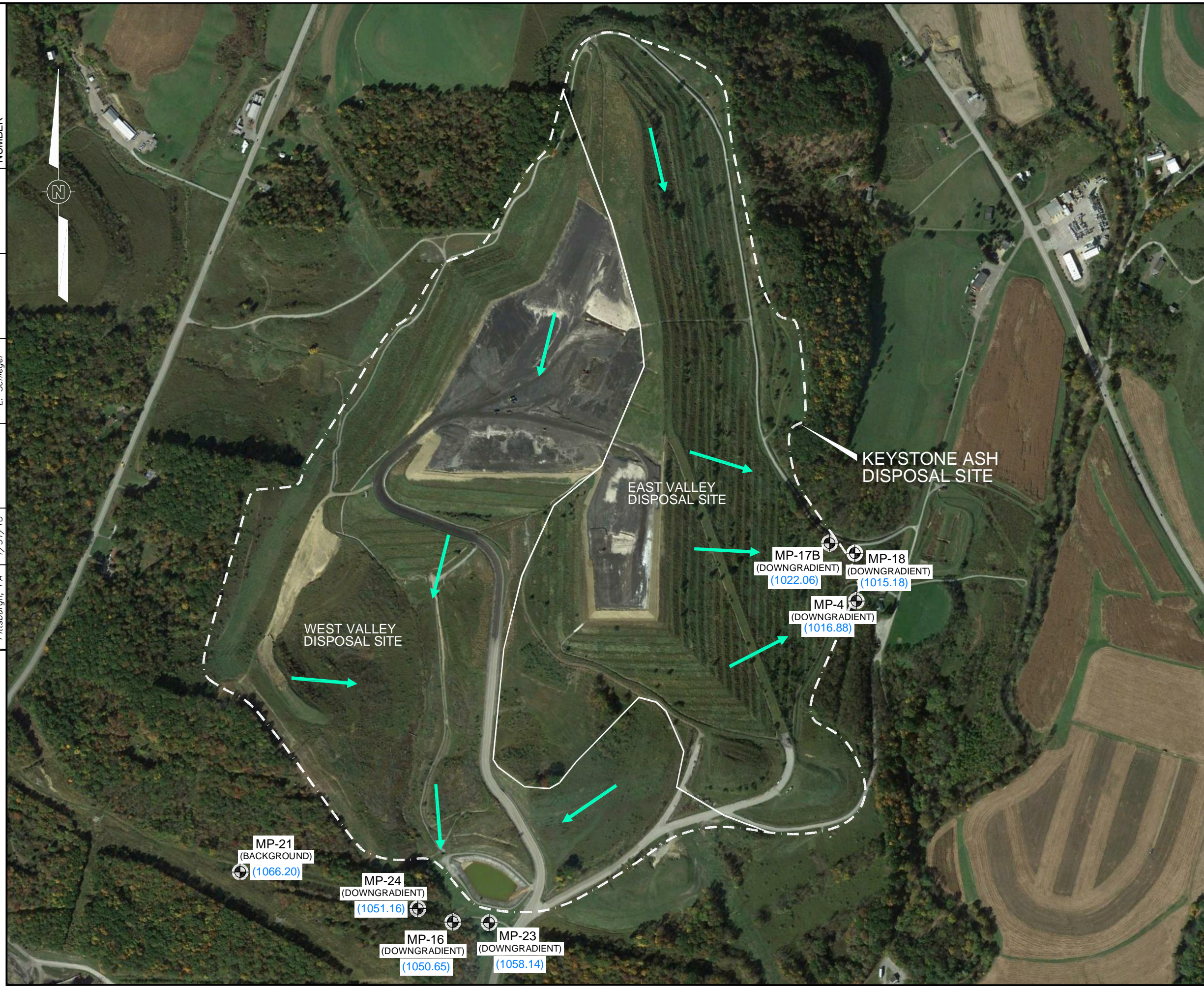
	500 Penn Center Boulevard, Suite 1000 Pittsburgh, Pennsylvania 15235
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FIGURE 1
 CCR COMPLIANCE GROUNDWATER MONITORING WELL LOCATION MAP
 ASH FILTER PONDS
 KEYSTONE GENERATING STATION
 PLUMCREEK TOWNSHIP, ARMSTRONG COUNTY, PA

OFFICE: Pittsburgh, PA
 DATE: 1/31/18
 DESIGNED BY: --
 DRAWN BY: E. Schlegel
 CHECKED BY: --
 APPROVED BY: --
 DRAWING NUMBER: 1009174011-B8

File: O:\PROJECT\1009174011_keystone\1009174011-B8.dwg
 Plot Date/Time: Jan 31, 2018 - 10:06am
 Plotted By: Evan.Schlegel



LEGEND:

- MP-18 (1015.18) CCR GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION MEASURED BETWEEN OCTOBER 5 AND 12, 2017
- ← GROUNDWATER FLOW DIRECTION



REFERENCES:

- GOOGLE AERIAL PHOTOGRAPH, DATED 10/11/2015.

	500 Penn Center Boulevard, Suite 1000 Pittsburgh, Pennsylvania 15235
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GenOn™

FIGURE 2
 CCR COMPLIANCE GROUNDWATER MONITORING WELL LOCATION MAP
 EAST VALLEY AND WEST VALLEY ASH DISPOSAL SITES
 KEYSTONE GENERATING STATION
 PLUMCREEK TOWNSHIP, ARMSTRONG COUNTY, PA