

Table 3
Analytical Results
Groundwater Elevation and Parameters
2020 Annual Groundwater Monitoring and Corrective Action Report
Havana East Ash Pond

Well identification Number	Latitude (Decimal Degrass)	Longitude (Decimal Degrees)	Date Sampled	Depth to Groundwater ¹ (ft)	Groundwater Elevation	40 CFR Part 257 Appendix III						
						Boron, total (mg/L) 6020 ²	Calcium, total(mg/L) 6020 ²	Chloride, total (mg/L) 9251 ²	Fluoride, total (mg/L) SW9214 ²	pH (field) (SU) SM 4500 H+B ²	Sulfate, total (mg/L) 9036 ²	Total Dissolved Solids (mg/L) SM 2540C ²
Background / Upgradient Monitoring wells												
HAMW-30	40.274750	-90.066301	2/12/2020	14.4	458.5	0.0306	49.4	15	<0.1	7.94	19	250
			8/20/2020	14.1	458.8	0.0396	48	12	<0.1	7.89	16	210
HAMW-31	40.279920	-90.066174	2/12/2020	37.57	455.82	0.056	63.5	8	<0.1	7.55	16	284
			8/20/2020	36.54	456.85	0.0878	73.1	13	<0.1	7.38	29	274
Downgradient Monitoring wells												
HAMW-32	40.281797	-90.074799	2/12/2020	9.05	446.45	0.0467	67.3	16	<0.1	7.47	19	300
			8/20/2020	10.6	444.9	0.0583	67.6	16	<0.1	7.54	23	264
HAMW-39	40.276874	-90.076729	2/12/2020	19.46	449.13	0.0476	65.6	16	<0.1	7.4	44	310
			8/20/2020	19.73	448.86	0.085	81.8	17	<0.1	7.6	64	342
HAMW-40	40.278983	-90.075954	2/12/2020	22.04	448.19	0.194	74.2	40	<0.1	7.48	51	368
			8/20/2020	22.75	447.48	0.237	77	34	<0.1	7.54	54	346
HAMW-41	40.282144	-90.070192	2/12/2020	17.25	450.7	0.0444	62.3	16	<0.1	7.65	46	306
			8/20/2020	17.21	450.74	0.0484	63.9	15	<0.1	7.66	48	272
HAMW-42	40.285392	-90.068354	2/12/2020	31.74	450.21	0.0559	74.6	12	<0.1	7.53	32	332
			8/20/2020	31.94	450.01	0.0577	72.2	10	<0.1	7.36	22	272

Notes:

mg/L = miligrams per liter

ND = no data

SU = standar unit

pCi/L = pioCuries per liter

< = actual concentration less than concentration shown

1 All groundwater depth measured on first day of event

2 Testing method

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Well identification Number	Latitude (Decimal Degress)	Longitude (Decimal Degrees)	Date Sampled	40 CFR Part 257 Appendix III												
				Antimony, total (mg/L) 6020A ²	Arsenic, total (mg/L) 6020A ²	Barium, total (mg/L) 6020A ²	Beryllium, total (mg/L) 6020A ²	Cadmium, total (mg/L) 6020A ²	Chromium, total (mg/L) 6020A ²	Lead, total (mg/L) 6020A ²	Lithium, total (mg/L) 6020A ²	Mercury, total (mg/L) 7470A ²	Molybdenum, total (mg/L) 6020A ²	Radium 226+228, combined (pCi/L) 903/904 ²	Selenium, total (mg/L) 6020A ²	Thalium, total (mg/L) 6020A ²
Background / Upgradient Monitoring wells																
HAMW-30	40.274750	-90.066301	2/12/2020	<0.001	<0.001	0.0174	<0.001	<0.001	<0.0015	<0.001	<0.003	<0.0002	<0.0015	0.39	<0.001	<0.002
			8/20/2020	ND	0.0011	0.0175	ND	<0.001	<0.0015	<0.001	<0.003	ND	ND	0.45	<0.001	ND
HAMW-31	40.279920	-90.066174	2/12/2020	<0.001	<0.001	0.0231	<0.001	<0.001	<0.0015	<0.001	<0.003	<0.0002	<0.0015	0.76	<0.001	<0.002
			8/20/2020	ND	<0.001	0.0294	ND	<0.001	<0.0015	<0.001	<0.003	ND	ND	0.45	<0.001	ND
Downgradient Monitoring wells																
HAMW-32	40.281797	-90.074799	2/12/2020	<0.001	<0.001	0.0192	<0.001	<0.001	<0.0015	<0.001	<0.003	<0.0002	<0.0015	1.12	<0.001	<0.002
			8/20/2020	ND	<0.001	0.0201	ND	<0.001	<0.0015	<0.001	<0.003	ND	ND	0.69	<0.001	ND
HAMW-39	40.276874	-90.076729	2/12/2020	<0.001	<0.001	0.0134	<0.001	<0.001	<0.0015	<0.001	<0.003	<0.0002	<0.0015	1.01	0.0012	<0.002
			8/20/2020	ND	<0.001	0.0183	ND	<0.001	<0.0015	<0.001	<0.003	ND	ND	0.84	0.0011	ND
HAMW-40	40.278983	-90.075954	2/12/2020	<0.001	<0.001	0.0248	<0.001	<0.001	<0.0015	<0.001	<0.003	<0.0002	<0.0015	0.38	<0.001	<0.002
			8/20/2020	ND	<0.001	0.0253	ND	<0.001	<0.0015	<0.001	<0.003	ND	ND	1.59	<0.001	ND
HAMW-41	40.282144	-90.070192	2/12/2020	<0.001	<0.001	0.0163	<0.001	<0.001	<0.0015	<0.001	<0.003	<0.0002	<0.0015	1.68	<0.001	<0.002
			8/20/2020	ND	<0.001	0.018	ND	<0.001	<0.0015	<0.001	<0.003	ND	ND	1.62	<0.001	ND
HAMW-42	40.285392	-90.068354	2/12/2020	<0.001	<0.001	0.0187	<0.001	<0.001	<0.0015	<0.001	<0.003	<0.0002	<0.0015	2	<0.001	<0.002
			8/20/2020	ND	<0.001	0.0202	ND	<0.001	<0.0015	<0.001	<0.003	ND	ND	0.71	<0.001	ND

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