

Dominion Energy Services, Inc.  
120 Tredegar Street, Richmond, VA 23219  
DominionEnergy.com



**BY ELECTRONIC MAIL**

June 19, 2025

Clyde Hunter, Library Manager  
Major Hillard Library  
824 Old George Washington Highway, North  
Chesapeake, VA 23323  
[chunter@chesapeakelibrary.org](mailto:chunter@chesapeakelibrary.org)

**RE: Data Repository - Chesapeake Energy Center Industrial Landfill  
2025 First Semi-Annual Summary of Corrective Action Monitoring Data**

Dear Mr. Hunter:

Please find attached one document related to Dominion Energy's Chesapeake Energy Center (CEC) industrial landfill. The Major Hillard Library is the public data repository for information submitted by Dominion Energy to the Virginia Department of Environmental Quality relating to the CEC landfill Corrective Action Monitoring Program (CAMP). Throughout the life of the program, Dominion Energy will place on file with the library copies of associated materials, which should be made available for public viewing until Dominion Energy provides notice. Also, please be notified that this data is available at the following publicly accessible website address:

<https://www.dominionenergy.com/projects-and-facilities/electric-projects/coal-ash/chesapeake-energy-center-corrective-action-program>

If you have any questions regarding this information, please contact Rashida Marlowe at (803) 528-1528 or via email at [rashida.marlowe@dominionenergy.com](mailto:rashida.marlowe@dominionenergy.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Dennis A. Slade".

Dennis A. Slade  
Manager, Environmental

Attachment

ecc (cover letter only):

[TRO.LandProtection@deq.virginia.gov](mailto:TRO.LandProtection@deq.virginia.gov)

Geoff Christe, VA DEQ – [geoff.christe@deq.virginia.gov](mailto:geoff.christe@deq.virginia.gov)

Rachel Patton, VA DEQ – [rachel.patton@deq.virginia.gov](mailto:rachel.patton@deq.virginia.gov)

**Table 1**  
**Summary of Corrective Action Groundwater Monitoring Data**  
**2025 1st Semi-Annual Monitoring Event**  
**Chesapeake Energy Center Industrial Landfill - Solid Waste Permit No. 440**  
**Chesapeake, Virginia**

Sample ID:		MW-5				MW-5D				CECW-1				CECW-1D				CECW-2			
Sample Date:		04/02/2025				04/02/2025				04/03/2025				04/03/2025				04/03/2025			
Parameter Name	Units	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
<b>Primary Performance Parameters</b>																					
Antimony, total	µg/L	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Antimony, dissolved	µg/L	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Arsenic, total	µg/L	<b>5.6</b>		0.75	5.0	<b>2.8</b>	J	0.75	5.0	<b>7.7</b>		0.75	5.0	<b>71</b>		0.75	5.0	<b>5.4</b>		0.75	5.0
Arsenic, dissolved	µg/L	<b>5.4</b>		0.75	5.0	<b>2.4</b>	J	0.75	5.0	<b>12</b>		0.75	5.0	<b>52</b>		0.75	5.0	<b>2.9</b>	J	0.75	5.0
Arsenic III (Arsenite), dissolved*	µg/L	<b>2.2</b>		0.48	0.50	<b>1.7</b>		0.48	0.50	<b>21</b>		1.4	1.5	<b>29</b>		1.4	1.5	<b>4.8</b>		0.48	0.50
Arsenic V (Arsenate), dissolved*	µg/L	<b>2.1</b>		0.43	0.50	< 0.43	U	0.43	0.50	< 2.2	U	2.2	2.5	<b>13</b>		2.2	2.5	< 0.43	U	0.43	0.50
Beryllium, total	µg/L	< 1.4	U	1.4	5.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 2.7	U	2.7	10	< 0.27	U	0.27	1.0
Beryllium, dissolved	µg/L	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 2.7	U	2.7	10	< 0.27	U	0.27	1.0
Cobalt, total	µg/L	<b>0.49</b>	J	0.086	1.0	<b>4.7</b>		0.086	1.0	<b>0.27</b>	J	0.086	1.0	<b>0.35</b>	J	0.086	1.0	<b>1.0</b>		0.086	1.0
Cobalt, dissolved	µg/L	<b>0.43</b>	J	0.086	1.0	<b>4.0</b>		0.086	1.0	<b>0.23</b>	J	0.086	1.0	<b>0.33</b>	J	0.086	1.0	<b>0.18</b>	J	0.086	1.0
Lithium, total	µg/L	< 17	U	17	40	< 3.4	U	3.4	8.0	<b>61</b>		3.4	8.0	<b>5900</b>		34	80	< 3.4	U	3.4	8.0
Lithium, dissolved	µg/L	< 17	U	17	40	< 3.4	U	3.4	8.0	<b>66</b>		3.4	8.0	<b>6000</b>		34	80	< 3.4	U	3.4	8.0
Selenium, total	µg/L	<b>1.0</b>	J	0.89	5.0	< 0.89	U	0.89	5.0	<b>1.6</b>	J	0.89	5.0	<b>1.4</b>	J	0.89	5.0	< 0.89	U	0.89	5.0
Selenium, dissolved	µg/L	< 0.89	U	0.89	5.0	<b>1.7</b>	J	0.89	5.0	<b>2.0</b>	J	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Sulfide, total*	mg/L	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	U	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0
Sulfide, dissolved*	mg/L	< 1.4	UJ	1.4	3.0	< 1.4	U	1.4	3.0	< 1.4	U	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0
Radium 226 and 228 (combined), total	pCi/L	0.517	U	--	--	<b>2.00</b>	J	--	--	0.711	U	--	--	<b>14.8</b>		--	--	0.185	U	--	--
Radium 226 and 228 (combined), dissolved	pCi/L	0.122	U	--	--	<b>1.57</b>	J	--	--	0.516	U	--	--	<b>15.9</b>		--	--	0.000	U	--	--
beta-BHC*	µg/L	< 0.038	U	0.038	0.051	< 0.040	U	0.040	0.054	< 0.038	U	0.038	0.051	< 0.035	U	0.035	0.047	< 0.038	U	0.038	0.051
<b>Performance Parameters</b>																					
Iron, total	µg/L	<b>2600</b>		47	100	<b>3300</b>		47	100	<b>5800</b>		47	100	<b>8000</b>		47	100	<b>8200</b>		47	100
Iron, dissolved	µg/L	<b>2900</b>		47	100	<b>3200</b>		47	100	<b>5100</b>		47	100	<b>7800</b>		47	100	<b>7000</b>		47	100
Manganese, total	µg/L	<b>28</b>		3.5	5.0	<b>420</b>		3.5	5.0	<b>140</b>		3.5	5.0	<b>340</b>		3.5	5.0	<b>79</b>		3.5	5.0
<b>Field Measurements</b>																					
Dissolved Oxygen	mg/L	0.51		0.01	0.01	1.08		0.01	0.01	0.40		0.01	0.01	0.42		0.01	0.01	0.02		0.01	0.01
Oxidation Reduction Potential	mV	46.3		0.1	0.1	2.1		0.1	0.1	-51.8		0.1	0.1	15.2		0.1	0.1	-54.4		0.1	0.1
pH	S.U.	5.80		0.01	0.01	6.35		0.01	0.01	6.37		0.01	0.01	5.92		0.01	0.01	5.87		0.01	0.01
Specific Conductance	µS/cm	229.8		0.1	0.1	2283		0.1	0.1	1458		0.1	0.1	14458		0.1	0.1	3071		0.1	0.1
Temperature	C	15.0		0.1	0.1	17.3		0.1	0.1	16.0		0.1	0.1	17.6		0.1	0.1	17.3		0.1	0.1
Turbidity	NTU	9.77		0.01	0.01	5.36		0.01	0.01	2.01		0.01	0.01	6.83		0.01	0.01	37.0		0.01	0.01

**Notes:**

µg/L = Micrograms per liter  
mg/L = Milligrams per liter  
pCi/L = picoCuries per liter  
mV = Millivolts  
S.U. = Standard Units  
µS/cm = MicroSiemens per centimeter  
C = Degrees Celsius  
NTU = Nephelometric Turbidity Units

< = Less than the MDL  
NS = Not sampled, insufficient water  
MDL = Method detection limit  
RL = Reporting limit  
**Bold font** = Detected concentration  
-- = No Data

**Qualifiers (Qual):**

U = The analyte was not detected above the level of the sample reporting limit.  
J = Quantitation is approximate due to limitations identified during data validation.  
UJ = The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.  
J+ = The result is an estimated quantity; the results may be biased high  
J- = The result is an estimated quantity; the results may be biased low

\*Analyte resampled on April 14, 2025, for MW-5, MW-5D, CECW-1, CECW-1D, CECW-2, CECW-2D, CECW-6I, CECW-6D, CECW-10R, CECW-15, PO-8, PO-8D, PO-10, PO-10D, and the CECW-2D Field Duplicate; April 15, 2025, for CECW-3D, CECW-8D, and the field blank; and April 16, 2025, for CECW-8 due to shipping delay of original samples.

**Table 1**  
**Summary of Corrective Action Groundwater Monitoring Data**  
**2025 1st Semi-Annual Monitoring Event**  
**Chesapeake Energy Center Industrial Landfill - Solid Waste Permit No. 440**  
**Chesapeake, Virginia**

Sample ID:		CECW-2D				CECW-3				CECW-3D				CECW-6I				CECW-6D			
Sample Date:		04/03/2025				04/02/2025				04/03/2025				04/01/2025				04/01/2025			
Parameter Name	Units	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
<b>Primary Performance Parameters</b>																					
Antimony, total	µg/L	< 0.57	U	0.57	2.0	NS	--	--	--	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Antimony, dissolved	µg/L	< 0.57	U	0.57	2.0	NS	--	--	--	< 0.57	U	0.57	2.0	<b>0.66</b>	J	0.57	2.0	< 0.57	U	0.57	2.0
Arsenic, total	µg/L	<b>270</b>		0.75	5.0	NS	--	--	--	<b>180</b>		0.75	5.0	<b>190</b>		0.75	5.0	<b>80</b>		0.75	5.0
Arsenic, dissolved	µg/L	<b>240</b>	J	0.75	5.0	NS	--	--	--	<b>170</b>		0.75	5.0	<b>180</b>		0.75	5.0	<b>78</b>		0.75	5.0
Arsenic III (Arsenite), dissolved*	µg/L	<b>150</b>		7.2	7.5	NS	--	--	--	<b>150</b>		7.2	7.5	<b>160</b>		7.2	7.5	<b>73</b>		4.8	5.0
Arsenic V (Arsenate), dissolved*	µg/L	< 6.5	U	6.5	7.5	NS	--	--	--	< 13	U	13	15	< 13	U	13	15	< 4.3	U	4.3	5.0
Beryllium, total	µg/L	< 0.27	U	0.27	1.0	NS	--	--	--	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0
Beryllium, dissolved	µg/L	< 0.27	U	0.27	1.0	NS	--	--	--	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0
Cobalt, total	µg/L	<b>0.21</b>	J	0.086	1.0	NS	--	--	--	< 0.086	U	0.086	1.0	<b>2.2</b>		0.086	1.0	<b>5.0</b>		0.086	1.0
Cobalt, dissolved	µg/L	<b>0.14</b>	J	0.086	1.0	NS	--	--	--	< 0.086	U	0.086	1.0	<b>2.1</b>		0.086	1.0	<b>5.5</b>		0.086	1.0
Lithium, total	µg/L	<b>5.0</b>	J	3.4	8.0	NS	--	--	--	<b>15</b>		3.4	8.0	<b>3100</b>		34	80	<b>2700</b>		34	80
Lithium, dissolved	µg/L	<b>4.4</b>	J	3.4	8.0	NS	--	--	--	<b>15</b>		3.4	8.0	<b>2900</b>		34	80	<b>2700</b>		34	80
Selenium, total	µg/L	< 0.89	U	0.89	5.0	NS	--	--	--	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Selenium, dissolved	µg/L	< 0.89	U	0.89	5.0	NS	--	--	--	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Sulfide, total*	mg/L	< 1.4	UJ	1.4	3.0	NS	--	--	--	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0
Sulfide, dissolved*	mg/L	< 1.4	UJ	1.4	3.0	NS	--	--	--	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0
Radium 226 and 228 (combined), total	pCi/L	<b>7.19</b>		--	--	NS	--	--	--	0.309	U	--	--	<b>3.19</b>	J	--	--	<b>41.6</b>	J+	--	--
Radium 226 and 228 (combined), dissolved	pCi/L	<b>7.79</b>		--	--	NS	--	--	--	0.800	U	--	--	<b>4.18</b>	J	--	--	<b>42.2</b>	J+	--	--
beta-BHC*	µg/L	< 0.036	U	0.036	0.048	NS	--	--	--	< 0.036	U	0.036	0.048	< 0.035	U	0.035	0.047	< 0.040	U	0.040	0.053
<b>Performance Parameters</b>																					
Iron, total	µg/L	<b>5700</b>		47	100	NS	--	--	--	<b>95</b>	J	47	100	<b>12000</b>	J-	47	100	<b>10000</b>	J-	47	100
Iron, dissolved	µg/L	<b>4900</b>		47	100	NS	--	--	--	<b>75</b>	J	47	100	<b>10000</b>	J-	47	100	<b>10000</b>	J-	47	100
Manganese, total	µg/L	<b>130</b>		3.5	5.0	NS	--	--	--	<b>16</b>	J+	3.5	5.0	<b>240</b>		3.5	5.0	<b>350</b>		3.5	5.0
<b>Field Measurements</b>																					
Dissolved Oxygen	mg/L	0.26		0.01	0.01	--	--	--	--	0.46		0.01	0.01	0.51		0.01	0.01	0.76		0.01	0.01
Oxidation Reduction Potential	mV	-63.4		0.1	0.1	--	--	--	--	-126.9		0.1	0.1	-56.6		0.1	0.1	33.1		0.1	0.1
pH	S.U.	6.68		0.01	0.01	--	--	--	--	7.43		0.01	0.01	6.45		0.01	0.01	5.91		0.01	0.01
Specific Conductance	µS/cm	15056		0.1	0.1	--	--	--	--	1441		0.1	0.1	5116		0.1	0.1	16249		0.1	0.1
Temperature	C	18.6		0.1	0.1	--	--	--	--	18.1		0.1	0.1	17.3		0.1	0.1	17.5		0.1	0.1
Turbidity	NTU	4.21		0.01	0.01	--	--	--	--	1.05		0.01	0.01	4.62		0.01	0.01	1.23		0.01	0.01

Notes:

µg/L = Micrograms per liter  
mg/L = Milligrams per liter  
pCi/L = picoCuries per liter  
mV = Millivolts  
S.U. = Standard Units  
µS/cm = MicroSiemens per centimeter  
C = Degrees Celsius  
NTU = Nephelometric Turbidity Units

< = Less than the MDL  
NS = Not sampled, insufficient water  
MDL = Method detection limit  
RL = Reporting limit  
**Bold font** = Detected concentration  
-- = No Data

Qualifiers (Qual):

U = The analyte was not detected above the level of the sample reporting limit.  
J = Quantitation is approximate due to limitations identified during data validation.  
UJ = The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.  
J+ = The result is an estimated quantity; the results may be biased high  
J- = The result is an estimated quantity; the results may be biased low

\*Analyte resampled on April 14, 2025, for MW-5, MW-5D, CECW-1, CECW-1D, CECW-2, CECW-2D, CECW-6I, CECW-6D, CECW-10R, CECW-15, PO-8, PO-8D, PO-10, PO-10D, and the CECW-2D Field Duplicate; April 15, 2025, for CECW-3D, CECW-8D, and the field blank; and April 16, 2025, for CECW-8 due to shipping delay of original samples.

**Table 1**  
**Summary of Corrective Action Groundwater Monitoring Data**  
**2025 1st Semi-Annual Monitoring Event**  
**Chesapeake Energy Center Industrial Landfill - Solid Waste Permit No. 440**  
**Chesapeake, Virginia**

Sample ID:	CECW-8				CECW-8D				CECW-10R				CECW-15				PO-8				
	Sample Date:	04/02/2025				04/02/2025				04/01/2025				04/01/2025				04/01/2025			
Parameter Name	Units	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
<b>Primary Performance Parameters</b>																					
Antimony, total	µg/L	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Antimony, dissolved	µg/L	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Arsenic, total	µg/L	<b>15</b>		0.75	5.0	<b>62</b>		0.75	5.0	<b>18</b>		0.75	5.0	<b>0.78</b>	J	0.75	5.0	<b>22</b>		0.75	5.0
Arsenic, dissolved	µg/L	<b>18</b>		0.75	5.0	<b>19</b>		0.75	5.0	<b>17</b>		0.75	5.0	< 0.75	U	0.75	5.0	<b>19</b>		0.75	5.0
Arsenic III (Arsenite), dissolved*	µg/L	<b>5.4</b>	J	0.48	0.50	<b>33</b>		2.4	2.5	<b>13</b>		0.48	0.50	< 0.48	U	0.48	0.50	<b>13</b>		0.48	0.50
Arsenic V (Arsenate), dissolved*	µg/L	< 0.43	UJ	0.43	0.50	<b>7.0</b>		4.3	5.0	< 0.86	U	0.86	1.0	<b>0.45</b>	J	0.43	0.50	<b>1.0</b>		0.86	1.0
Beryllium, total	µg/L	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0
Beryllium, dissolved	µg/L	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0
Cobalt, total	µg/L	<b>0.23</b>	J	0.086	1.0	<b>0.29</b>	J	0.086	1.0	< 0.15	U	0.15	1.0	<b>1.4</b>	J+	0.086	1.0	< 0.086	U	0.086	1.0
Cobalt, dissolved	µg/L	<b>0.16</b>	J	0.086	1.0	<b>0.18</b>	J	0.086	1.0	< 0.10	U	0.10	1.0	<b>1.5</b>	J+	0.086	1.0	< 0.087	U	0.087	1.0
Lithium, total	µg/L	<b>46</b>		17	40	< 17	U	17	40	< 3.4	U	3.4	8.0	< 3.4	U	3.4	8.0	< 3.4	U	3.4	8.0
Lithium, dissolved	µg/L	<b>47</b>		17	40	< 17	U	17	40	<b>6.4</b>	J	3.4	8.0	< 3.4	U	3.4	8.0	< 3.4	U	3.4	8.0
Selenium, total	µg/L	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Selenium, dissolved	µg/L	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Sulfide, total*	mg/L	<b>130</b>		1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0
Sulfide, dissolved*	mg/L	<b>120</b>		1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0
Radium 226 and 228 (combined), total	pCi/L	<b>2.48</b>	J	--	--	<b>12.8</b>	J	--	--	1.09	U	--	--	<b>44.8</b>	J+	--	--	<b>0.750</b>	J	--	--
Radium 226 and 228 (combined), dissolved	pCi/L	2.51	U	--	--	<b>16.7</b>	J	--	--	<b>1.99</b>	J	--	--	<b>41.1</b>	J+	--	--	0.545	U	--	--
beta-BHC*	µg/L	< 0.039	UJ	0.039	0.053	< 0.035	U	0.035	0.047	< 0.035	U	0.035	0.047	< 0.037	U	0.037	0.049	< 0.039	U	0.039	0.052
<b>Performance Parameters</b>																					
Iron, total	µg/L	<b>450</b>		47	100	<b>13000</b>		47	100	<b>1600</b>	J-	47	100	<b>16000</b>	J-	47	100	<b>1000</b>	J-	47	100
Iron, dissolved	µg/L	<b>54</b>	J	47	100	<b>11000</b>		47	100	<b>1300</b>	J-	47	100	<b>15000</b>	J-	47	100	<b>920</b>	J-	47	100
Manganese, total	µg/L	<b>31</b>		3.5	5.0	<b>160</b>		3.5	5.0	<b>48</b>		3.5	5.0	<b>230</b>		3.5	5.0	<b>420</b>		3.5	5.0
<b>Field Measurements</b>																					
Dissolved Oxygen	mg/L	0.39		0.01	0.01	0.37		0.01	0.01	0.35		0.01	0.01	0.05		0.01	0.01	0.42		0.01	0.01
Oxidation Reduction Potential	mV	-350.6		0.1	0.1	-20.6		0.1	0.1	-52.8		0.1	0.1	173.3		0.1	0.1	-27.2		0.1	0.1
pH	S.U.	6.80		0.01	0.01	6.25		0.01	0.01	6.15		0.01	0.01	4.90		0.01	0.01	6.23		0.01	0.01
Specific Conductance	µS/cm	26473		0.1	0.1	16797		0.1	0.1	4333		0.1	0.1	23614		0.1	0.1	1966		0.1	0.1
Temperature	C	14.9		0.1	0.1	15.4		0.1	0.1	12.2		0.1	0.1	15.7		0.1	0.1	15.5		0.1	0.1
Turbidity	NTU	9.03		0.01	0.01	7.69		0.01	0.01	3.57		0.01	0.01	7.34		0.01	0.01	2.49		0.01	0.01

Notes:

µg/L = Micrograms per liter  
mg/L = Milligrams per liter  
pCi/L = picoCuries per liter  
mV = Millivolts  
S.U. = Standard Units  
µS/cm = MicroSiemens per centimeter  
C = Degrees Celsius  
NTU = Nephelometric Turbidity Units

< = Less than the MDL  
NS = Not sampled, insufficient water  
MDL = Method detection limit  
RL = Reporting limit  
**Bold font** = Detected concentration  
-- = No Data

Qualifiers (Qual):

U = The analyte was not detected above the level of the sample reporting limit.  
J = Quantitation is approximate due to limitations identified during data validation.  
UJ = The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.  
J+ = The result is an estimated quantity; the results may be biased high  
J- = The result is an estimated quantity; the results may be biased low

\*Analyte resampled on April 14, 2025, for MW-5, MW-5D, CECW-1, CECW-1D, CECW-2, CECW-2D, CECW-6I, CECW-6D, CECW-10R, CECW-15, PO-8, PO-8D, PO-10, PO-10D, and the CECW-2D Field Duplicate; April 15, 2025, for CECW-3D, CECW-8D, and the field blank; and April 16, 2025, for CECW-8 due to shipping delay of original samples.

**Table 1**  
**Summary of Corrective Action Groundwater Monitoring Data**  
**2025 1st Semi-Annual Monitoring Event**  
**Chesapeake Energy Center Industrial Landfill - Solid Waste Permit No. 440**  
**Chesapeake, Virginia**

Sample ID:	Sample Date:	PO-8D				PO-10				PO-10D				CECW-2D Field Duplicate				Field Blank			
		04/01/2025				04/03/2025				04/03/2025				04/03/2025				04/03/2025			
Parameter Name	Units	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
<b>Primary Performance Parameters</b>																					
Antimony, total	µg/L	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Antimony, dissolved	µg/L	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Arsenic, total	µg/L	<b>3.1</b>	J	0.75	5.0	<b>79</b>		0.75	5.0	<b>39</b>		0.75	5.0	<b>250</b>		0.75	5.0	< 0.75	U	0.75	5.0
Arsenic, dissolved	µg/L	<b>3.0</b>	J	0.75	5.0	<b>68</b>		0.75	5.0	<b>36</b>		0.75	5.0	<b>190</b>	J	0.75	5.0	< 0.75	U	0.75	5.0
Arsenic III (Arsenite), dissolved*	µg/L	<b>2.6</b>		0.48	0.50	<b>56</b>		4.8	5.0	<b>28</b>		1.9	2.0	<b>140</b>		7.2	7.5	< 0.48	U	0.48	0.50
Arsenic V (Arsenate), dissolved*	µg/L	< 0.43	U	0.43	0.50	< 4.3	U	4.3	5.0	<b>6.0</b>		2.6	3.0	<b>20</b>		6.5	7.5	< 0.43	U	0.43	0.50
Beryllium, total	µg/L	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0
Beryllium, dissolved	µg/L	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0	< 0.27	U	0.27	1.0
Cobalt, total	µg/L	<b>9.1</b>		0.086	1.0	< 0.086	U	0.086	1.0	<b>0.21</b>	J	0.086	1.0	<b>0.18</b>	J	0.086	1.0	< 0.086	U	0.086	1.0
Cobalt, dissolved	µg/L	<b>9.9</b>		0.086	1.0	< 0.086	U	0.086	1.0	< 0.086	U	0.086	1.0	<b>0.10</b>	J	0.086	1.0	< 0.086	U	0.086	1.0
Lithium, total	µg/L	<b>4.8</b>	J	3.4	8.0	<b>37</b>		3.4	8.0	<b>16</b>		3.4	8.0	<b>4.3</b>	J	3.4	8.0	< 3.4	U	3.4	8.0
Lithium, dissolved	µg/L	<b>5.4</b>	J	3.4	8.0	<b>35</b>		3.4	8.0	<b>14</b>		3.4	8.0	<b>3.5</b>	J	3.4	8.0	< 3.4	U	3.4	8.0
Selenium, total	µg/L	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Selenium, dissolved	µg/L	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Sulfide, total*	mg/L	< 1.4	UJ	1.4	3.0	< 1.4	U	1.4	3.0	< 1.4	U	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	U	1.4	3.0
Sulfide, dissolved*	mg/L	< 1.4	UJ	1.4	3.0	< 1.4	U	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	UJ	1.4	3.0	< 1.4	U	1.4	3.0
Radium 226 and 228 (combined), total	pCi/L	<b>4.18</b>		--	--	0.891	U	--	--	0.348	U	--	--	<b>7.15</b>		--	--	0.161	U	--	--
Radium 226 and 228 (combined), dissolved	pCi/L	<b>3.99</b>		--	--	1.69	U	--	--	1.00	U	--	--	<b>7.96</b>		--	--	0.000	U	--	--
beta-BHC*	µg/L	< 0.036	U	0.036	0.048	< 0.034	U	0.034	0.046	< 0.037	U	0.037	0.049	< 0.038	U	0.038	0.050	< 0.040	U	0.040	0.054
<b>Performance Parameters</b>																					
Iron, total	µg/L	<b>5600</b>	J-	47	100	<b>320</b>		47	100	<b>980</b>		47	100	<b>5100</b>		47	100	< 47	U	47	100
Iron, dissolved	µg/L	<b>5900</b>	J-	47	100	<b>200</b>		47	100	<b>130</b>		47	100	<b>4000</b>		47	100	< 47	U	47	100
Manganese, total	µg/L	<b>220</b>		3.5	5.0	<b>72</b>		3.5	5.0	<b>12</b>	J+	3.5	5.0	<b>120</b>		3.5	5.0	< 3.5	U	3.5	5.0
<b>Field Measurements</b>																					
Dissolved Oxygen	mg/L	0.63		0.01	0.01	0.19		0.01	0.01	0.40		0.01	0.01	--		--	--	--		--	--
Oxidation Reduction Potential	mV	20.5		0.1	0.1	-65.7		0.1	0.1	-118.4		0.1	0.1	--		--	--	--		--	--
pH	S.U.	6.12		0.01	0.01	6.91		0.01	0.01	7.08		0.01	0.01	--		--	--	--		--	--
Specific Conductance	µS/cm	3873		0.1	0.1	1718		0.1	0.1	1055		0.1	0.1	--		--	--	--		--	--
Temperature	C	18.0		0.1	0.1	13.4		0.1	0.1	16.2		0.1	0.1	--		--	--	--		--	--
Turbidity	NTU	1.96		0.01	0.01	4.20		0.01	0.01	22.3		0.01	0.01	--		--	--	--		--	--

Notes:

µg/L = Micrograms per liter  
mg/L = Milligrams per liter  
pCi/L = picoCuries per liter  
mV = Millivolts  
S.U. = Standard Units  
µS/cm = MicroSiemens per centimeter  
C = Degrees Celsius  
NTU = Nephelometric Turbidity Units

< = Less than the MDL  
NS = Not sampled, insufficient water  
MDL = Method detection limit  
RL = Reporting limit  
**Bold font** = Detected concentration  
-- = No Data

Qualifiers (Qual):

U = The analyte was not detected above the level of the sample reporting limit.  
J = Quantitation is approximate due to limitations identified during data validation.  
UJ = The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.  
J+ = The result is an estimated quantity; the results may be biased high  
J- = The result is an estimated quantity; the results may be biased low

\*Analyte resampled on April 14, 2025, for MW-5, MW-5D, CECW-1, CECW-1D, CECW-2, CECW-2D, CECW-6I, CECW-6D, CECW-10R, CECW-15, PO-8, PO-8D, PO-10, PO-10D, and the CECW-2D Field Duplicate; April 15, 2025, for CECW-3D, CECW-8D, and the field blank; and April 16, 2025, for CECW-8 due to shipping delay of original samples.

**Table 2**  
**Summary of Corrective Action Surface Water Monitoring Data**  
**2025 1st Semi-Annual Monitoring Event**  
**Chesapeake Energy Center Industrial Landfill - Solid Waste Permit No. 440**  
**Chesapeake, Virginia**

Sample ID:	SW-1				SW-2				SW-3				SW-4				SW-3 Field Duplicate				Field Blank				
	Sample Date:	04/01/2025				04/02/2025				04/02/2025				04/01/2025				04/02/2025				04/02/2025			
Parameter Name	Units	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
<b>Primary Parameters</b>																									
Antimony, total	µg/L	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	<b>0.68</b>	J	0.57	2.0	<b>0.70</b>	J	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Antimony, dissolved	µg/L	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	<b>0.74</b>	J	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Arsenic, total	µg/L	<b>1.0</b>	J	0.75	5.0	<b>1.6</b>	J	0.75	5.0	<b>1.7</b>	J	0.75	5.0	<b>1.7</b>	J	0.75	5.0	<b>1.1</b>	J	0.75	5.0	< 0.75	U	0.75	5.0
Arsenic, dissolved	µg/L	<b>1.3</b>	J	0.75	5.0	<b>1.5</b>	J	0.75	5.0	<b>1.1</b>	J	0.75	5.0	<b>1.6</b>	J	0.75	5.0	<b>1.1</b>	J	0.75	5.0	< 0.75	U	0.75	5.0
Arsenic III (Arsenite), dissolved*	µg/L	< 0.48	U	0.48	0.50	< 0.48	U	0.48	0.50	< 0.48	U	0.48	0.50	< 0.48	U	0.48	0.50	< 0.48	U	0.48	0.50	< 0.48	U	0.48	0.50
Arsenic V (Arsenate), dissolved*	µg/L	< 0.43	U	0.43	0.50	< 0.43	U	0.43	0.50	< 0.43	U	0.43	0.50	< 0.43	U	0.43	0.50	< 0.43	U	0.43	0.50	< 0.43	U	0.43	0.50
Beryllium, total	µg/L	< 1.4	U	1.4	5.0	< 1.4	U	1.4	5.0	< 1.4	U	1.4	5.0	< 1.4	U	1.4	5.0	< 1.4	U	1.4	5.0	< 0.27	U	0.27	1.0
Boron, total	µg/L	<b>2100</b>		57	100	<b>2200</b>		57	100	<b>2500</b>		57	100	<b>2300</b>		57	100	<b>2200</b>		57	100	< 57	U	57	100
Boron, dissolved	µg/L	<b>2400</b>		57	100	<b>2300</b>		57	100	<b>2000</b>		57	100	<b>2300</b>		57	100	<b>2100</b>		57	100	< 57	U	57	100
Cadmium, total	µg/L	< 0.077	U	0.077	1.0	<b>0.091</b>	J	0.077	1.0	<b>0.10</b>	J	0.077	1.0	<b>0.11</b>	J	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0
Cadmium, dissolved	µg/L	< 0.077	UJ	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0	<b>0.20</b>	J	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0
Chromium, total	µg/L	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0
Chromium, dissolved	µg/L	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0
Chromium, Hexavalent, total**	mg/L	< 0.035	U	0.035	0.10	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020
Chromium, Hexavalent, dissolved**	mg/L	< 0.035	U	0.035	0.10	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	<b>0.0070</b>	J	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020
Chromium, Trivalent, total**	mg/L	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020
Chromium, Trivalent, dissolved**	mg/L	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020	< 0.0070	U	0.0070	0.020
Cobalt, total	µg/L	<b>0.34</b>	J	0.086	1.0	<b>0.45</b>	J	0.086	1.0	<b>0.37</b>	J	0.086	1.0	<b>0.40</b>	J	0.086	1.0	<b>0.28</b>	J	0.086	1.0	< 0.086	U	0.086	1.0
Copper, total	µg/L	<b>2.2</b>		1.7	2.0	<b>2.7</b>		1.7	2.0	<b>2.5</b>		1.7	2.0	<b>2.8</b>		1.7	2.0	<b>2.3</b>		1.7	2.0	< 1.7	U	1.7	2.0
Copper, dissolved	µg/L	<b>2.4</b>		1.7	2.0	<b>2.4</b>		1.7	2.0	<b>1.9</b>	J	1.7	2.0	<b>2.6</b>		1.7	2.0	<b>1.8</b>	J	1.7	2.0	< 1.7	U	1.7	2.0
Lead, total	µg/L	< 2.3	U	2.3	5.0	<b>0.55</b>	J	0.45	1.0	<b>0.49</b>	J	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0
Lead, dissolved	µg/L	< 2.3	UJ	2.3	5.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	UJ	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0
Lithium, total	µg/L	<b>70</b>		17	40	<b>92</b>		17	40	<b>100</b>		17	40	<b>92</b>		17	40	<b>79</b>		3.4	8.0	< 3.4	U	3.4	8.0
Lithium, dissolved	µg/L	<b>86</b>		17	40	<b>90</b>		17	40	<b>70</b>		3.4	8.0	<b>86</b>		17	40	<b>73</b>		3.4	8.0	< 3.4	U	3.4	8.0
Mercury, total	µg/L	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20
Mercury, dissolved	µg/L	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20
Nickel, total	µg/L	< 1.5	U	1.5	2.0	< 1.5	U	1.5	2.0	< 1.5	U	1.5	2.0	< 1.5	U	1.5	2.0	< 1.5	U	1.5	2.0	< 1.5	U	1.5	2.0
Nickel, dissolved	µg/L	< 1.5	U	1.5	2.0	< 1.5	U	1.5	2.0	< 1.5	U	1.5	2.0	< 1.5	U	1.5	2.0	< 1.5	U	1.5	2.0	< 1.5	U	1.5	2.0
Selenium, total	µg/L	< 0.89	U	0.89	5.0	<b>1.7</b>	J	0.89	5.0	<b>1.9</b>	J	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Selenium, dissolved	µg/L	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Silver, total	µg/L	< 0.053	U	0.053	1.0	< 0.053	U	0.053	1.0	< 0.053	U	0.053	1.0	<b>0.056</b>	J	0.053	1.0	< 0.053	U	0.053	1.0	< 0.053	U	0.053	1.0
Silver, dissolved	µg/L	< 0.053	UJ	0.053	1.0	< 0.053	U	0.053	1.0	< 0.053	U	0.053	1.0	<b>0.087</b>	J	0.053	1.0	< 0.053	U	0.053	1.0	< 0.053	U	0.053	1.0
Sulfide, total**	mg/L	< 1.4	U	1.4	3.0	< 1.4	U	1.4	3.0	< 1.4	U	1.4	3.0	< 1.4	U	1.4	3.0	< 1.4	U	1.4	3.0	< 1.4	U	1.4	3.0
Thallium, total	µg/L	< 0.51	U	0.51	1.0	< 0.51	U	0.51	1.0	< 0.51	U	0.51	1.0	< 0.51	U	0.51	1.0	< 0.51	U	0.51	1.0	< 0.51	U	0.51	1.0
Thallium, dissolved	µg/L	< 0.51	U	0.51	1.0	< 0.51	U	0.51	1.0	< 0.51	U	0.51	1.0	< 0.51	U	0.51	1.0	< 0.51	U	0.51	1.0	< 0.51	U	0.51	1.0
Zinc, total	µg/L	< 15	U	15	20	< 75	U	75	100	< 75	U	75	100	< 15	U	15	20	< 75	U	75	100	< 15	U	15	20
Zinc, dissolved	µg/L	< 15	U	15	20	< 75	U	75	100	< 75	U	75	100	< 15	U	15	20	< 75	U	75	100	< 15	U	15	20
Radium 226 and 228 (combined), total	pCi/L	0.402	U	--	--	0.205	UJ	--	--	0.215	U	--	--	0.221	U	--	--	0.197	U	--	--	0.000	U	--	--
Radium 226 and 228 (combined), dissolved	pCi/L	0.160	U	--	--	1.02	U	--	--	0.375	U	--	--	0.218	U	--	--	0.460	U	--	--	0.285	U	--	--
beta-BHC**	µg/L	< 0.035	U	0.035	0.047	< 0.037	U	0.037	0.050	< 0.038	U	0.038	0.050	< 0.036	U	0.036	0.049	< 0.038	U	0.038	0.051	< 0.035	U	0.035	0.047
<b>Performance Parameters</b>																									
Iron, total	µg/L	<b>370</b>	J	240	500	<b>430</b>		47	100	<b>300</b>		47	100	<b>310</b>	J	240	500	<b>270</b>		47	100	< 47	U	47	100
Total Suspended Solids**	mg/L	<b>3.7</b>	J	0.40	4.0	<b>3.2</b>	J	0.40	4.0	<b>10</b>		0.40	4.0	<b>3.2</b>	J	0.40	4.0	<b>6.0</b>		0.40	4.0	< 0.40	U	0.40	4.0
<b>Field Measurements</b>																									
Dissolved Oxygen	mg/L	8.31		0.01	0.01	8.31		0.01	0.01	8.30		0.01	0.01	8.39		0.01	0.01	--		--	--	--	--	--	--
Oxidation Reduction Potential	mV	69.7		0.1	0.1	74.4		0.1	0.1	75.1		0.1	0.1	76.6		0.1	0.1	--		--	--	--	--	--	--
pH	S.U.	7.42		0.01	0.01	7.20		0.01	0.01	7.15		0.01	0.01	7.61		0.01	0.01	--		--	--	--	--	--	--
Specific Conductance	µS/cm	26907		0.1	0.1	25166		0.1	0.1	27090		0.1	0.1	29589		0.1	0.1	--		--	--	--	--	--	--
Temperature	C	18.1		0.1	0.1	19.4		0.1	0.1	17.3		0.1	0.												