Dominion Energy Services, Inc.
5000 Dominion Boulevard, Glen Allen, VA 23060
DominionEnergy.com

June 1, 2017

Library Manager
Major Hillard Library
824 Old George Washington Highway North
Chesapeake, VA 23323

RE: Data Repository
Chesapeake Energy Center
2701 Vepco Street
Chesapeake, Virginia 23323

Dear Library Manager:

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. Please include the following document with related CEC materials currently being held for public viewing at the library:

Summary of Corrective Action Monitoring Data
2017 1st Semi-Annual Monitoring (February 21-22, 2017)
Chesapeake Energy Center Landfill - Permit No. 440
Chesapeake, Virginia

Thank you for your assistance and please do not hesitate to call Mr. Donald Hintz of Dominion Energy's Environmental Services Department at (804) 273-3552 should there be any questions and/or comments.

Sincerely,

Jason E. Williams
Manager, Environmental Services

Attachment

cc (cover letter only):

Geoff Christe
Geoff.Christe@ deq.virginia.gov

Rachel Patton
Rachel.Patton@deq.virginia.gov

Table 1
Summary of Corrective Action Monitoring Data
2017 1st Semi-Annual Monitoring (February 21-22, 2017)
Chesapeake Energy Center Industrial Landfill - Permit #440
Chesapeake, Virginia

Groundwater Monitoring Wells

Sample ID:	MW-5				MW-5D				CECW-1				CECW-1D				CECW-2				CECW-2D				CECW-3				CECW-3D			
Sample Date:	2/21/2017				2/22/2017				2/21/2017				2/22/2017				2/21/2017				2/22/2017				2/21/2017				2/22/2017			
Parameter Name	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ
Primary Performance Parameters (µg/L)																																
Arsenic, total	7.4		3	5	<3		3	5	26.5		10	20	36.2		10	20	36.4		3	5	133		10	20	NS		--	--	273		10	20
Arsenic, dissolved	7.3		3	5	<3		3	5	25.7		10	20	43.8		10	20	4.7	J	3	5	102		10	20	NS		--	--	267		10	20
Arsenic III (dissolved)	4.64		0.2	2	1.55	J	0.2	2	14.2		0.2	2	25.5		0.2	2	1.56	J	0.2	2	61.5		0.2	2	NS		--	--	134		0.2	2
Arsenic V (dissolved)	2.00	J	0.2	2	0.467	J	0.2	2	4.31		0.2	2	5.64		0.2	2	1.19	J	0.2	2	12.4		0.2	2	NS		--	--	5.61		0.2	2
Beryllium, total	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	NS		--	--	<2		2	4
Beryllium, dissolved	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	NS		--	--	<2		2	4
Cobalt, total	<2		2	4	22.6		2	4	<2		2	4	<2		2	4	8.2		2	4	<2		2	4	NS		--	--	<2		2	4
Cobalt, dissolved	<2		2	4	24.4		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	NS		--	--	<2		2	4
Selenium, total	<2		2	3	<4		4	6	<2		2	3	<4		4	6	<2		2	3	<4		4	6	NS		--	--	<4		4	6
Selenium, dissolved	<2		2	3	<4		4	6	<2		2	3	<2		2	3	<2		2	3	<2		2	3	NS		--	--	<4		4	6
Sulfide	<500		500	1,000	<500		500	1,000	<500		500	1,000	<500		500	1,000	14,400		1,000	2,000	<500		500	1,000	NS		--	--	2,790		500	1,000
Sulfide, dissolved	190	J	140	1,000	<140		140	1,000	510	J	140	1,000	<140		140	1,000	6,280		140	1,000	230	J	140	1,000	NS		--	--	2,480		140	1,000
Performance Parameters (mg/L)																																
Iron, total	2.16		0.005	0.01	29.7		0.1	0.2	6.16		0.005	0.01	7.51		0.005	0.01	27.9		0.05	0.1	10.6		0.005	0.01	NS		--	--	0.254		0.005	0.01
Iron, dissolved	1.64		0.005	0.01	30.0		0.05	0.1	6.78		0.005	0.01	8.29		0.005	0.01	9.17		0.005	0.01	9.78		0.005	0.01	NS		--	--	0.0930	,B	0.005	0.01
Manganese	0.0294		0.002	0.01	0.970		0.002	0.01	0.221		0.002	0.01	0.461		0.002	0.01	0.266		0.002	0.01	0.341		0.002	0.01	NS		--	--	0.0505		0.002	0.01
Field Measurements																																
Dissolved Oxygen (mg/L)	0.79		--	--	0.48		--	--	0.18		--	--	0.19		--	--	0.1		--	--	0.18		--	--	NS		--	--	0.96		--	--
Oxidation Reduction Potential (mV)	74		--	--	14		--	--	-70		--	--	6		--	--	-335		--	--	-192		--	--	NS		--	--	-226		--	--
pH (S.U.)	6.12		--	--	6.07		--	--	6.59		--	--	6.62		--	--	6.53		--	--	6.63		--	--	NS		--	--	7.32		--	--
Specific Conductance (uS/cm)	382		--	--	4370		--	--	5750		--	--	17800		--	--	9470		--	--	26200		--	--	NS		--	--	13850		--	--
Temperature (Degrees Celsius)	16.18		--	--	18.67		--	--	16.08		--	--	17.61		--	--	16.83		--	--	17.59		--	--	NS		--	--	17.57		--	--
Turbidity (NTU)	2.78		--	--	2.67		--	--	5.97		--	--	4.56		--	--	22.3		--	--	4.79		--	--	NS		--	--	26.3		--	--

Groundwater Monitoring Wells

Sample ID:	CECW-6I				CECW-6D				CECW-8				CECW-8D				CECW-10R				CECW-15				PO-8				PO-8D			
Sample Date:	2/21/2017				2/22/2017				2/22/2017				2/22/2017				2/21/2017				2/22/2017				2/21/2017				2/22/2017			
Parameter Name	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ
Primary Performance Parameters (µg/L)																																
Arsenic, total	263		10	20	75.9		10	20	4.2	J	3	5	11.6		3	5	58.9		10	20	<3		3	5	25.5		10	20	3.3	J	3	5
Arsenic, dissolved	218		10	20	87.9		10	20	3.2	J	3	5	5.3		3	5	126		10	20	<3		3	5	22.0		10	20	<3		3	5
Arsenic III (dissolved)	148		0.2	2	54.2		0.2	2	0.892	J	0.2	2	3.63		0.2	2	10.9		0.2	2	0.439	J	0.2	2	2.21		0.2	2	1.12	J	0.2	2
Arsenic V (dissolved)	33.1		0.2	2	13.2		0.2	2	<0.2	U	0.2	2	2.00	J	0.2	2	2.24		0.2	2	0.260	J	0.2	2	1.05	J	0.2	2	0.731	J	0.2	2
Beryllium, total	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4
Beryllium, dissolved	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4
Cobalt, total	<2		2	4	5.7		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	3.1	J	2	4
Cobalt, dissolved	2.1	J	2	4	5.5		2	4	<2		2	4	<2		2	4	<2		2	4	2.5	J	2	4	<2		2	4	3.9	J	2	4
Selenium, total	<2		2	3	<4		4	6	<2		2	3	<4		4	6	<2		2	3	<4		4	6	<2		2	3	<4		4	6
Selenium, dissolved	<2		2	3	<4		4	6	<4		4	6	<4		4	6	<4		4	6	<2		2	3	<2		2	3	<4		4	6
Sulfide	<500		500	1,000	<500		500	1,000	119,000		10,000	20,000	<500		500	1,000	5,160		500	1,000	<500		500	1,000	8,190		500	1,000	<500		500	1,000
Sulfide, dissolved	380	J	140	1,000	<140		140	1,000	123,000		2,800	20,000	<140		140	1,000	7,080		140	1,000	<140		140	1,000	8,570		140	1,000	<140		140	1,000
Performance Parameters (mg/L)																																
Iron, total	12.5		0.005	0.01	12.0		0.005	0.01	5.15		0.005	0.01	17.5		0.1	0.2	0.940		0.005	0.01	21.3		0.1	0.2	0.142		0.005	0.01	2.56		0.005	0.01
Iron, dissolved	11.5		0.005	0.01	12.4		0.005	0.01	0.0536	,B	0.005	0.01	18.5		0.05	0.1	0.858		0.005	0.01	21.3		0.05	0.1	0.0639	,B	0.005	0.01	2.51		0.005	0.01
Manganese	0.318		0.002	0.01	0.416		0.002	0.01	0.283		0.002	0.01	0.291		0.002	0.01	0.109		0.002	0.01	0.337		0.002	0.01	0.502		0.002	0.01	0.0596		0.002	0.01
Field Measurements																																
Dissolved Oxygen (mg/L)	0.25		--	--	0.57		--	--	0.07		--	--	0.20		--	--	0.15		--	--	0.16		--	--	0.61		--	--	0.32		--	--
Oxidation Reduction Potential (mV)	-234		--	--	42		--	--	-361		--	--	7		--	--	-160		--	--	158		--	--	64		--	--	10		--	--
pH (S.U.)	6.65		--	--	6.03		--	--	6.98		--	--	6.28		--	--	6.75		--	--	5.05		--	--	7.09		--	--	6.22		--	--
Specific Conductance (uS/cm)	6080		--	--	18200		--	--	25400		--	--	26400		--	--	9790		--	--	27200		--	--	3080		--	--	2960		--	--
Temperature (Degrees Celsius)	17.72		--	--	18.05		--	--	12.17		--	--	15.96		--	--	12.19		--	--	16.74		--	--	15.85		--	--	18.11		--	--
Turbidity (NTU)	5.50		--	--	9.64		--	--	96.4		--	--	9.74		--	--	25.2		--	--	13.2		--	--	4.60		--	--	9.81		--	--

Table 1
Summary of Corrective Action Monitoring Data
2017 1st Semi-Annual Monitoring (February 21-22, 2017)
Chesapeake Energy Center Industrial Landfill - Permit #440
Chesapeake, Virginia

Groundwater Monitoring Wells

Sample ID:	PO-10				PO-10D				MW-5 DUP				FIELD BLANK			
Sample Date:	2/21/2017				2/22/2017				2/21/2017				2/22/2017			
Parameter Name	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ
Primary Performance Parameters (µg/L)																
Arsenic, total	**110**		10	20	**136**		10	20	**8.3**		3	5	<3		3	5
Arsenic, dissolved	**93.9**		10	20	**168**		10	20	**6.9**		3	5	<3		3	5
Arsenic III (dissolved)	**28.6**		0.2	2	**92.0**		0.2	2	**4.61**		0.2	2	<0.2	U	0.2	2
Arsenic V (dissolved)	**4.74**		0.2	2	**6.35**		0.2	2	**2.32**		0.2	2	<0.2	U	0.2	2
Beryllium, total	<2		2	4	<2		2	4	<2		2	4	<2		2	4
Beryllium, dissolved	<2		2	4	<2		2	4	<2		2	4	<2		2	4
Cobalt, total	<2		2	4	<2		2	4	<2		2	4	<2		2	4
Cobalt, dissolved	<2		2	4	<2		2	4	<2		2	4	<2		2	4
Selenium, total	<2		2	3	<4		4	6	<4		4	6	<4		4	6
Selenium, dissolved	<2		2	3	<4		4	6	<4		4	6	<4		4	6
Sulfide	**1,530**		500	1,000	**880**	J	500	1,000	<500		500	1,000	<500		500	1,000
Sulfide, dissolved	**2,560**		140	1,000	**880**	J	140	1,000	<140		140	1,000	<140		140	1,000
Performance Parameters (mg/L)																
Iron, total	**1.70**		0.005	0.01	**0.444**		0.005	0.01	**2.10**		0.005	0.01	<0.005		0.005	0.01
Iron, dissolved	**0.966**		0.005	0.01	**0.326**		0.005	0.01	**1.77**		0.005	0.01	**0.0195**		0.005	0.01
Manganese	**0.0669**		0.002	0.01	**0.0205**		0.002	0.01	**0.0232**		0.002	0.01	<0.002		0.002	0.01
Field Measurements																
Dissolved Oxygen (mg/L)	0.07		--	--	0.13		--	--	0.77		--	--	--		--	--
Oxidation Reduction Potential (mV)	-293		--	--	-9		--	--	74		--	--	--		--	--
pH (S.U.)	7.23		--	--	7.51		--	--	6.13		--	--	--		--	--
Specific Conductance (uS/cm)	4230		--	--	8900		--	--	382		--	--	--		--	--
Temperature (Degrees Celsius)	13.59		--	--	17.31		--	--	16.20		--	--	--		--	--
Turbidity (NTU)	8.65		--	--	20.0		--	--	2.70		--	--	--		--	--

Surface Water

Sample ID:	SW-1				SW-2				SW-3				SW-4				SW-1 DUP				FIELD BLANK			
Sample Date:	2/22/2017				2/22/2017				2/22/2017				2/22/2017				2/22/2017				2/22/2017			
Parameter Name	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ	Result	Qual	LOD	LOQ
Primary Constituents (µg/L)																								
Arsenic, total	<6		6	10	<6		6	10	<6		6	10	<6		6	10	<6		6	10	<6		6	10
Arsenic III (dissolved)	**0.225**	J	0.2	2	**0.257**	J	0.2	2	<0.2	U	0.2	2	<0.2	U	0.2	2	<0.2	U	0.2	2	<0.2	U	0.2	2
Arsenic V (dissolved)	**0.497**	J	0.2	2	**0.639**	J	0.2	2	**0.372**	J	0.2	2	**0.264**	J	0.2	2	**0.388**	J	0.2	2	<0.2	U	0.2	2
Beryllium, total	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4
Cobalt, total	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4	<2		2	4
Selenium, total	<10		10	10	<10		10	10	<10		10	10	<10		10	10	<10		10	10	<1		1	1
Sulfide	<500		500	1,000	<500		500	1,000	<500		500	1,000	<500		500	1,000	<500		500	1,000	<500		500	1,000
Sulfide, dissolved	<140		140	1,000	<140		140	1,000	<140		140	1,000	<140		140	1,000	<140		140	1,000	<140		140	1,000
Water Quality Parameters (mg/L)																								
Iron, total	**0.842**		0.005	10	**1.29**		0.05	10	**1.50**		0.01	20	**1.16**		0.01	20	**1.05**		0.01	20	**0.0122**		0.005	10
Total Suspended Solids	**8.60**		1	1	**7.80**		1	1	**14.0**		1	1	**12.0**		1	1	**8.22**		1	1	<1		1	1
Field Measurements																								
Dissolved Oxygen (mg/L)	8.38		--	--	9.91		--	--	9.98		--	--	9.88		--	--	7.12		--	--	--		--	--
Oxidation Reduction Potential (mV)	33		--	--	30		--	--	41		--	--	41		--	--	32		--	--	--		--	--
pH (S.U.)	7.42		--	--	7.53		--	--	7.52		--	--	7.43		--	--	7.45		--	--	--		--	--
Specific Conductance (uS/cm)	23500		--	--	17000		--	--	20200		--	--	19300		--	--	23300		--	--	--		--	--
Temperature (Degrees Celsius)	11.36		--	--	13.91		--	--	13.10		--	--	13.00		--	--	11.31		--	--	--		--	--
Turbidity (NTU)	5.15		--	--	6.39		--	--	10.2		--	--	8.41		--	--	5.15		--	--	--		--	--

Notes:
LOD = Limit of detection
LOQ = Limit of quantitation
mg/L = Milligrams per liter
mV = Millivolts
N/A = Not applicable
NS = Not sampled, insufficient water
NTU = Nephelometric Turbidity Units
S.U. = Standard units
µg/L = Micrograms per liter
uS/cm = MicroSiemens per centimeter
Bold font = Detected concentration

Laboratory Data Qualifiers (Qual):
J = The reported result is an estimated value.
U = Not detected.
B = Not detected substantially above the level reported in laboratory or field blanks.