Disclaimer:

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TABLES

TABLE 1

Summary of Survey Information for Existing Wells
Possum Point Power Station

Well Designation	Well Hydraulic Position	Top of Casing Elevation (feet MSL)	Top of Screen Elevation (feet MSL)	Groundwater Elevation (feet MSL)	Well Screen Length (feet)	Well Casing Outer Diameter	Constructed Well Depth (feet)	Completion Date
Pond D CCR Compliance Wells								
ED-24R	Background	74.96	19.23	47.61	10.0	2.0-inch	65.73	9/12/2006
ED-1612	Upgradient	189.80	63.65	80.55	10.0	2.0-inch	136.15	2/3/2016
ED-1D	Downgradient	55.76	-2.43	16.19	5.0	2.0-inch	63.19	10/28/2016
ED-9R2	Downgradient	79.25	16.57	19.96	20.0	2.0-inch	82.68	11/14/2002
SD-1603	Upgradient	195.25	23.10	43.54	5.0	2.5-inch	177.15	10/30/2016
SD-1604	Downgradient	171.07	2.78	31.67	5.0	2.5-inch	173.29	9/21/2016
ED-1605	Downgradient	167.11	0.16	27.71	10.0	2.5-inch	176.95	9/16/2016
ED-1606	Downgradient	58.50	-6.02	23.04	5.0	2.0-inch	69.52	10/12/2016
Pond D VSWMR Sentinel Wells								
SD-1610	Downgradient	To be installed upon Pond D closure determination						
SD-1611D	Downgradient	187.04	14.93	55.65	5.0	2.5-inch	177.11	10/5/2016
Ponds A, B, C Demonstration Monitoring Wells								
ABC-1602	Upgradient	34.08	7.40	17.32	5.0	2.0-inch	31.68	10/13/2016
ABC-1607	Downgradient	23.63	-6.92	-0.49	5.0	2.0-inch	35.55	9/15/2016
ABC-1608	Downgradient	21.13	-7.54	0.01	5.0	2.0-inch	33.67	9/14/2016
ABC-1614	Downgradient	15.62	-7.40	3.22	5.0	2.0-inch	28.02	9/13/2016
ABC-1615	Central Pond Footprint	To be installed upon solid waste permit issuance						
Pond A, B, C VSWMR Sentinel Wells								
ED-22RA	Downgradient	26.89	-2.92	1.05	5.0	2.0-inch	34.81	9/22/2016
ED-23R	Downgradient	27.80	-25.38	3.59	10.0	2.0-inch	63.18	3/8/2004
Ponds E Demonstration Monitoring Wells								
ED-26	Upgradient	89.86	26.44	37.86	20.0	2.0-inch	83.42	6/3/1987
ED-24R	Background	74.96	19.23	47.61	10.0	2.0-inch	65.73	6/8/1987
ES-3D	Downgradient	22.86	-15.65	1.05	5.0	2.0-inch	43.51	10/7/2016
ES-1609	Downgradient	23.26	-14.80	1.42	5.0	2.0-inch	43.06	10/17/2016
ES-1613	Downgradient	26.01	-14.34	3.81	5.0	2.0-inch	45.35	10/14/2016
T-1615D	Downgradient	25.81	-35.01	3.84	5.0	2.0-inch	65.82	10/15/2016
T-1615S	Downgradient	25.92	-3.07	3.27	5.0	2.0-inch	33.99	10/16/2016
ED-25	Central Pond Footprint	To be installed upon solid waste permit issuance						

Elevations are measured as feet relative to mean sea level (MSL)
All wells constructed of poly vinyl chloride (PVC)
Constructed well depth measured from top of casing

TABLE 2

Summary of Modified Detection Monitoring Program Constituents and Parameters

Possum Point Power Station

PARAMETER	CLASS	CAS RN	TYPICAL METHOD	TYPICAL LOQ/PQL (ug/L)
CCR Appendix III to Part 257				
Boron	metal	7440-42-8	6010C/6020B	50
Calcium	metal	7440-70-2	6010C/6020B	5,000
Chloride	anion	16887-00-6	300.0	1,000
Fluoride	anion	16984-48-8	300.0	100
pH	field parameter	NA	9040C	NA
Sulfate	anion	18785-72-3	300.0	1,000
Total Dissolved Solids (TDS)	dissolved cations and anions	Total	SM2540C	50,000
Virginia Solid Waste Management Regulation Table 3.1 Column A Constituents				
Antimony	metal	Total	6010C/6020B	5
Arsenic	metal	Total	6010C/6020B	1
Barium	metal	Total	6010C/6020B	5
Beryllium	metal	Total	6010C/6020B	1
Cadmium	metal	Total	6010C/6020B	1
Chromium	metal	Total	6010C/6020B	5
Cobalt	metal	Total	6010C/6020B	1
Copper	metal	Total	6010C/6020B	5
Lead	metal	Total	6010C/6020B	1
Nickel	metal	Total	6010C/6020B	5
Selenium	metal	Total	6010C/6020B	5
Silver	metal	Total	6010C/6020B	5
Thallium	metal	Total	6010C/6020B	1
Vanadium	metal	Total	6010C/6020B	5
Zinc	metal	Total	6010C/6020B	20

TABLE 2

Summary of Modified Detection Monitoring Program Constituents and Parameters

Possum Point Power Station

Virginia Water Control Board Water Quality Pollutants				
Alkalinity	water quality	Total	SM2320B	5,000
Iron	metal	Total	6010C/6020B	100
Manganese	metal	Total	6010C/6020B	5
Hardness	water quality	Total	SM2430C	5000
Sodium	metal	Total	6010C/6020B	50
Total Organic Carbon	water quality	Total	SM5310C	1000
Other Analytes				
Hexavalent Chromium	metal	18540-29-9	7196A or 218.6	5

Notes:

- Class: General type of compound
- CAS RN: Chemical Abstracts Service Registry Number. Where 'Total' is entered, all species that contain the element are included.
- Method: Analytical Method from EPA SW-846 Methods for Evaluating Solid Waste will be used for Appendix IV constituents. Samples will be analyzed using the version of each method that is current at the time of sampling.
- LOQ: Limit of Quantitation.
- PQL: Practical Quantitation Limit.
- Acceptable alternatives to the analytical methods listed above include current SW-846 Methods and other EPA-approved laboratory methods.

TABLE 3

Summary of Modified Assessment Monitoring Program Constituents and Parameters

Possum Point Power Station

PARAMETER	CLASS	CAS RN	TYPICAL METHOD	TYPICAL LOQ/PQL (ug/L)
CCR Appendix III to Part 257				
Boron	metal	7440-42-8	6010C/6020B	50
Calcium	metal	7440-70-2	6010C/6020B	5,000
Chloride	anion	16887-00-6	300.0	1,000
Fluoride	anion	16984-48-8	300.0	100
pH	field parameter	NA	9040C	NA
Sulfate	anion	18785-72-3	300.0	1,000
Total Dissolved Solids (TDS)	dissolved cations and anions	Total	SM2540C	50,000
CCR Appendix IV to Part 257				
Antimony	metal	Total	6010C/6020B	5
Arsenic	metal	Total	6010C/6020B	1
Barium	metal	Total	6010C/6020B	5
Beryllium	metal	Total	6010C/6020B	1
Cadmium	metal	Total	6010C/6020B	1
Chromium	metal	Total	6010C/6020B	5
Cobalt	metal	Total	6010C/6020B	1
Fluoride	metal	Total	9056	300
Lead	metal	Total	6010C/6020B	1
Lithium	metal	Total	6010C/6020B	50
Mercury	metal	Total	7470	2
Molybdenum	metal	Total	6010C/6020B	10
Selenium	metal	Total	6010C/6020B	10
Thallium	metal	Total	6010C/6020B	1
Radium 226 and 228 combined	radionuclide	(226) - 13982-63-3 (228) - 15262-20-1	9315/9320 or other EPA-approved methods	1.00 pCi/L

TABLE 3

Summary of Modified Assessment Monitoring Program Constituents and Parameters

Possum Point Power Station

PARAMETER	CLASS	CAS RN	TYPICAL METHOD	TYPICAL LOQ/PQL (ug/L)
Pertinent Virginia Solid Waste Management Regulation Table 3.1 Column B Constituents				
Copper	metal	Total	6010C/6020B	5
Nickel	metal	Total	6010C/6020B	10
Silver	metal	Total	6010C/6020B	5
Tin	metal	Total	6010C/6020B	10
Vanadium	metal	Total	6010C/6020B	5
Zinc	metal	Total	6010C/6020B	20
Sulfide	anion	18496-25-8	9030	100
Cyanide	water quality	57-12-5	9010B	5
Virginia Water Control Board Water Quality Pollutants				
Alkalinity	water quality	Total	SM2320B	5,000
Iron	metal	Total	6010C/6020B	100
Manganese	metal	Total	6010C/6020B	50
Hardness	water quality	Total	SM2430C	5000
Sodium	metal	Total	6010C/6020B	50
Total Organic Carbon	water quality	Total	SM5310C	1000
Other Analytes				
Hexavalent Chromium	metal	18540-29-9	7196A or 218.6	5

TABLE 3

Summary of Modified Assessment Monitoring Program Constituents and Parameters

Possum Point Power Station

PARAMETER	CLASS	CAS RN	TYPICAL METHOD	TYPICAL LOQ/PQL (ug/L)

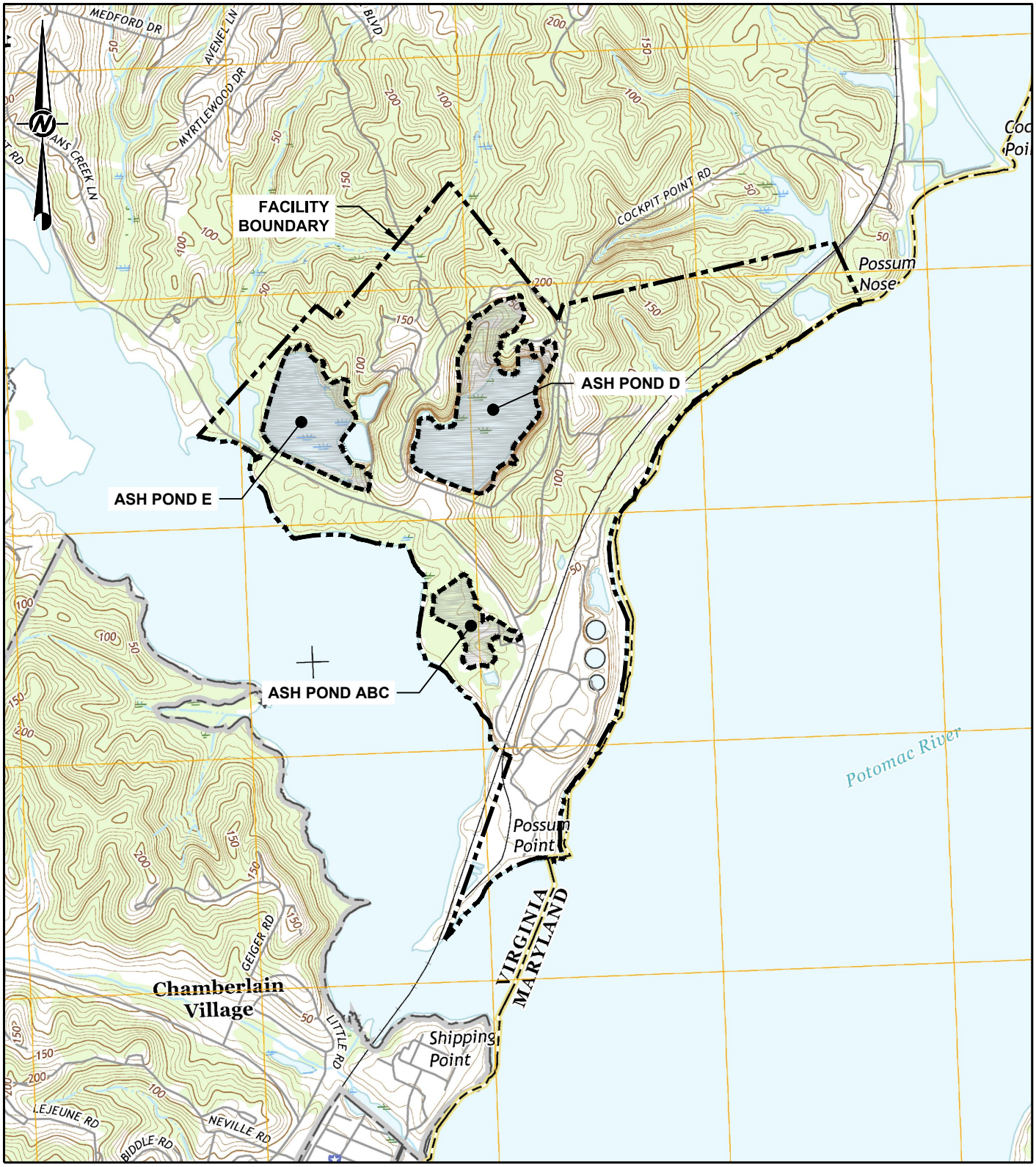
Notes:

- Class: General type of compound
- CAS RN: Chemical Abstracts Service Registry Number. Where 'Total' is entered, all species that contain the element are included.
- Method: Analytical Method from EPA SW-846 Methods for Evaluating Solid Waste will be used for Appendix IV constituents. Samples will be analyzed using the version of each method that is current at the time of sampling.
- LOQ: Limit of Quantitation
- PQL: Practical Quantitation Limit
- ug/L: micrograms per liter
- NA: Not Available
- pCi/L: picocuries per liter
- Acceptable alternatives to the analytical methods listed above include current SW-846 Methods and other EPA-approved laboratory methods.

TABLE 4
Summary of Sample Container Information and Hold Times
Possum Point Power Station

Parameter	Container & Volume	Preservative	Maximum Holding Time
pH	Flow-through cell or plastic, 500 milliliter (mL)	None	15 minutes (field analysis)
Specific Conductance	Flow-through cell or plastic, 500 mL	None	15 minutes (field analysis)
Temperature	Flow-through cell or plastic, 500 mL	None	15 minutes (field analysis)
Mercury (total)	Plastic; 250 mL	Nitric Acid to pH<2	28 days
Metals (total) except mercury	Plastic, 250 mL	Nitric Acid to pH<2	6 months
Cyanide	Plastic, 250 mL	Sodium Hydroxide	14 days
Sulfide	Plastic, 250 mL	Sodium Hydroxide	7 days
Total Dissolved Solids (TDS)	Plastic, 200 mL	None	7 days
Fluoride, Chloride, Sulfate	Plastic, 250 mL	None	28 days
Ammonia	Plastic, 250 mL	Sulfuric Acid to pH<2	28 days
Radium 226/228	Plastic, 1/2 gallon (2 Liter)	Preserved upon receipt at laboratory	6 months

DRAWINGS



REFERENCE

BASE MAP CONSISTS OF USGS TOPOGRAPHIC QUADRANGLE QUANTICO, VIRGINIA DATED 2016.

2000 0 2000
SCALE FEET

CLIENT
DOMINION ENERGY

PROJECT
POSSUM POINT POWER STATION
PRINCE WILLIAM COUNTY, VIRGINIA

CONSULTANT
GOLDER

YYYY-MM-DD	2018-05-09
DESIGNED	DPM
PREPARED	BPG
REVIEWED	BPG
APPROVED	DPM

TITLE
SITE LOCATION MAP

PROJECT NO. 16-62150 | REV. 0 | DRAWING 1

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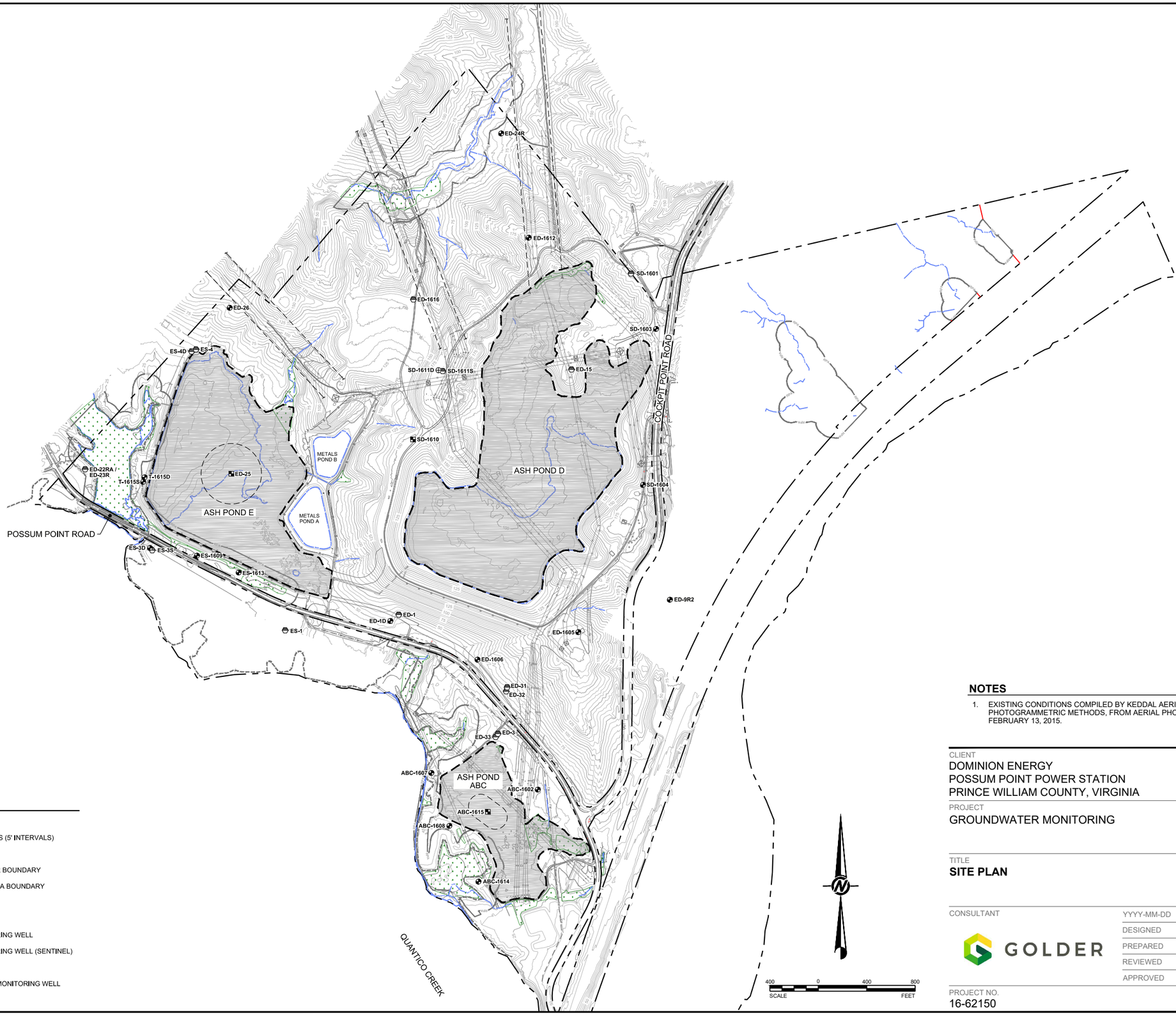
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI A



NOTES

1. EXISTING CONDITIONS COMPILED BY KEDDAL AERIAL MAPPING USING PHOTOGRAMMETRIC METHODS, FROM AERIAL PHOTOGRAPH DATED FEBRUARY 13, 2015.

LEGEND

	PROPERTY BOUNDARY
100	EX. TOPOGRAPHIC CONTOURS (5' INTERVALS)
	WETLAND
	STREAM OR SURFACE WATER BOUNDARY
RPA	RESOURCE PROTECTION AREA BOUNDARY
	100-YEAR FLOOD PLAIN
	ASH POND LIMITS
ED-1606	EX. GROUNDWATER MONITORING WELL
SD-1611D	EX. GROUNDWATER MONITORING WELL (SENTINEL)
ES-4	EX. OBSERVATION WELL
SD-1610	PROPOSED GROUNDWATER MONITORING WELL

CLIENT
DOMINION ENERGY
POSSUM POINT POWER STATION
PRINCE WILLIAM COUNTY, VIRGINIA

PROJECT
GROUNDWATER MONITORING

TITLE
SITE PLAN

CONSULTANT
GOLDER

YYYY-MM-DD	2018-09-14
DESIGNED	MKS
PREPARED	ALB
REVIEWED	TCP
APPROVED	MGW

PROJECT NO. 16-62150 | REV. 2 | DRAWING 2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

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LEGEND

SOIL BOUNDARY

NOTES

AERIAL IMAGE TAKEN FROM GOOGLE EARTH PRO ON 09/21/2017. IMAGERY DATE: 06/13/2016.

REFERENCE

CHARLES COUNTY, MARYLAND, AND PRINCE WILLIAM COUNTY, VIRGINIA, FROM WEB SOIL SURVEY NATIONAL COOPERATIVE SOIL SURVEY DATED 08/16/2017.

Prince William County, Virginia (VA153)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
16A	Delanco fine sandy loam, 0 to 4 percent slopes	4.5	0.7%
18C	Dumfries sandy loam, 7 to 15 percent slopes	1.8	0.3%
18D	Dumfries sandy loam, 15 to 25 percent slopes	19	2.8%
18E	Dumfries sandy loam, 25 to 50 percent slopes	129.3	19.0%
20B	Elsinboro sandy loam, 2 to 7 percent slopes	3.6	0.5%
22A	Featherstone mucky silt loam, 0 to 1 percent slopes	4.3	0.6%
27A	Hatboro-Codorus complex, 0 to 2 percent slopes	4.1	0.6%
34C	Lunt loam, 7 to 15 percent slopes	7.3	1.1%
34D	Lunt loam, 15 to 25 percent slopes	4.1	0.6%
36D	Marr very fine sandy loam, 7 to 25 percent slopes	41.2	6.0%
36E	Marr very fine sandy loam, 25 to 50 percent slopes	69.9	10.2%
37A	Marumsco loam, 0 to 4 percent slopes	34.6	5.1%
41B	Neabsco loam, 0 to 7 percent slopes	2.4	0.4%
41C	Neabsco loam, 7 to 15 percent slopes	2.3	0.3%
42B	Neabsco-Quantico complex, 2 to 7 percent slopes	22.7	3.3%
47B	Quantico sandy loam, 2 to 7 percent slopes	47.4	7.0%
47C	Quantico sandy loam, 7 to 15 percent slopes	41.3	6.1%
47D	Quantico sandy loam, 15 to 25 percent slopes	6.7	1.0%
54B	Urban land-Udorthents complex, 0 to 7 percent slopes	71.4	10.5%
W	Water	159.9	23.4%
Subtotals for Soil Survey Area		677.8	99.3%
Totals for Area of Interest		682.2	100.0%

800 0 800 FEET

SCALE

CLIENT
DOMINION ENERGY
POSSUM POINT POWER STATION
PRINCE WILLIAM COUNTY, VIRGINIA

CONSULTANT
GOLDER

	YYYY-MM-DD	2017-09-22
DESIGNED		ARH
PREPARED		SIB
REVIEWED		TCP
APPROVED		MGW

PROJECT
GROUNDWATER MONITORING PLAN

TITLE
SOIL SURVEY MAP

PROJECT NO.
16-62150

REV.
0

DRAWING
3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

1 in

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al: Alluvium (Quaternary)
Alluvium - Poorly sorted organic material, clay, sand, and rounded pebbles and cobbles

Kp: Potomac Formation (Cretaceous)
Potomac Formation - Pebbly, poorly sorted quartzo-feldspathic sand interbedded with sandy clay and silt; minor organic-rich clay and silt

Tl: Lower Tertiary Deposits (Tertiary)
Lower Tertiary Deposits - Glauconitic quartz sand and clay-silt, shelly in part, minor sandy limestone and limey sand; may include the following formations: Brightseat, Aquia, Marlboro, Nanjemay, and Piney Point (Pamunkey Group); and Old Church.1

Kp: Potomac Formation (Cretaceous)
Potomac Formation - Pebbly, poorly sorted quartzo-feldspathic sand interbedded with sandy clay and silt; minor organic-rich clay and silt

Kp: Potomac Formation (Cretaceous)
Potomac Formation - Pebbly, poorly sorted quartzo-feldspathic sand interbedded with sandy clay and silt; minor organic-rich clay and silt

Qsh: Shirley Formation (Quaternary)
Shirley Formation - Interbedded gravel, sand, silt, clay, and peat; at altitudes to 35-45 ft. (top of unit).

water: Water (Holocene)
Water

Qcc: Charles City Formation (Quaternary)
Charles City Formation - Interbedded sand, silt, clay and minor gravel; at altitudes to 70-80 ft. (top of unit).

Qt: Tabb Formation (Quaternary)
Tabb Formation - Undifferentiated. Includes the Poquoson Member (Qtp), Lynnhaven Member (Qtl) and Sedgefield Member (Qts).

1000 0 1000 2000
SCALE FEET

REFERENCE

GEOLOGIC MAP OF THE QUANTICO QUADRANGLE , PRINCE WILLIAN AND STAFFORD COUNTIES, VIRGINIA, AND CHARLES COUNTY, MARYLAND, USGS. GQ-1044, R.B. MIXON, D.L. SOUTHWICK AND J.C. REED, JR., 1972.

CLIENT
DOMINION ENERGY
POSSUM POINT POWER STATION
PRINCE WILLIAM COUNTY, VIRGINIA

PROJECT
GROUNDWATER MONITORING

TITLE
GEOLOGIC MAP

CONSULTANT
GOLDER

YYYY-MM-DD	08/16/2017
DESIGNED	ARH
PREPARED	ABR
REVIEWED	TCP
APPROVED	MGW

PROJECT NO. 16-62150 REV. 0 FIGURE 4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

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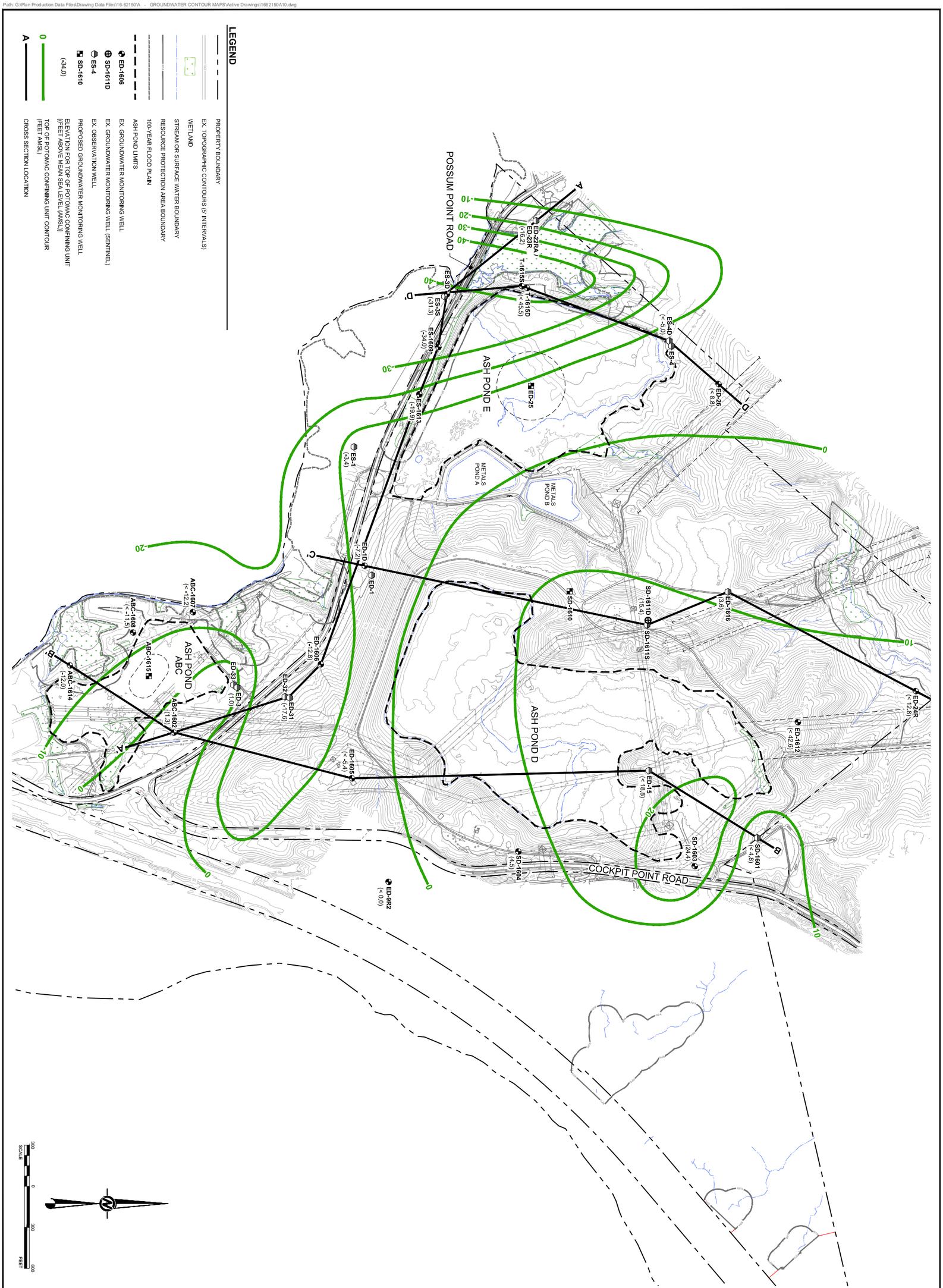

PROJECT
POSSUM POINT POWER STATION
GEOLOGIC CROSS SECTIONS

TITLE
TOP OF MIDDLE POTOMAC FORMATION (CONFINING UNIT) CONTOUR MAP

PROJECT NO.
16-62150

CLIENT
DOMINION ENERGY

CONSULTANT
GOLDER

GOLDER ASSOCIATES INC.
2108 WEST LABURNUM AVENUE
SUITE 200
RICHMOND, VA 23227
(804) 358-7900
www.golder.com

SEAL

REV.	MM/DD/YY	DESCRIPTION	DESIGN	CADD	CHECK	REVIEW
2	09/14/18	RESPONSE TO COMMENTS	MGW	BPG	TCP	MGW
1	08/16/18	RESPONSE TO COMMENTS	MGW	BPG	TCP	MGW

REV. 2

DRAWING 5 of

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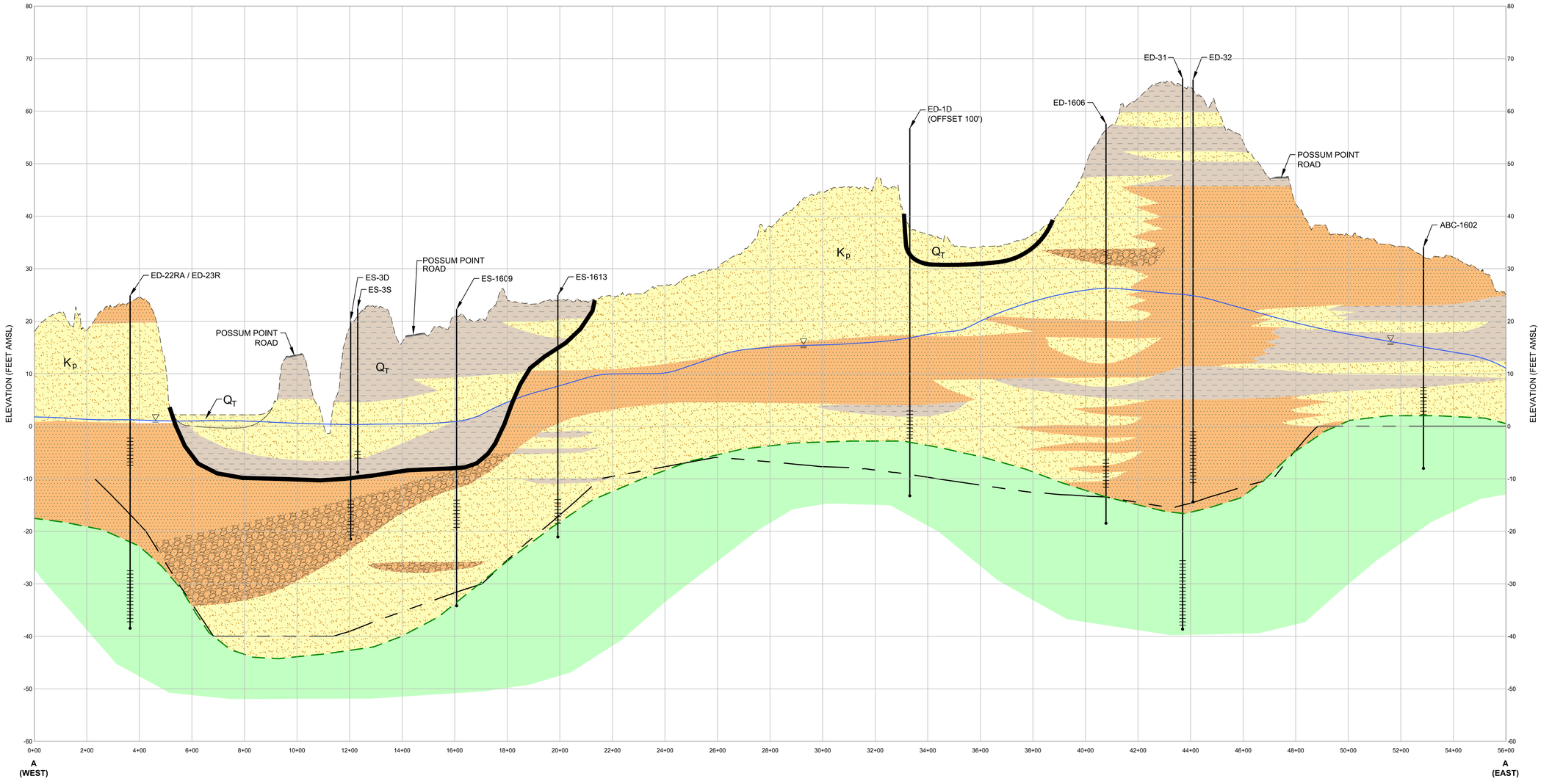
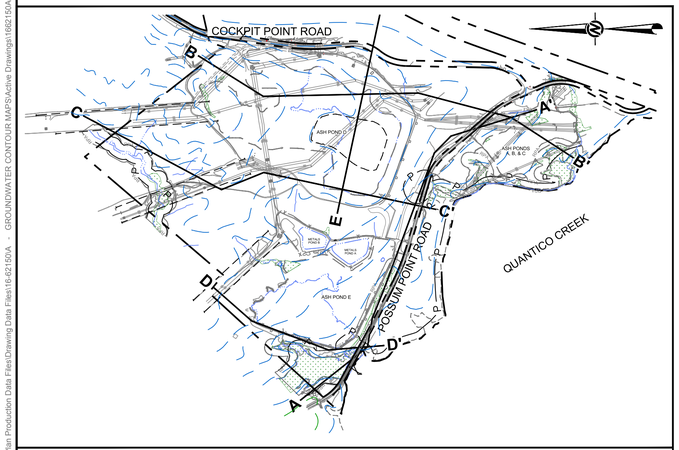


CROSS SECTION A-A'



CROSS SECTION LOCATION MAP

1000 0 1000
SCALE FEET

LEGEND

- EXISTING GROUND
- WATER TABLE
- TOP OF POTOMAC FORMATION
- QUATERNARY TERRACE DEPOSIT CONTACT
- Q_T QUATERNARY TERRACE DEPOSITS
- K_p CRETACEOUS POTOMAC FORMATION
- CLAY + CLAYEY SILT
- SAND
- SILT + CLAYEY SAND + SILTY SAND
- GRAVEL
- K_p CONFINING UNIT FAT CLAY
- ASH
- SCREENED INTERVAL

10 0 10
FEET
SCALE

200 0 200 400
SCALE FEET

REV.	DATE	DESCRIPTION	DESIGN	CADD	CHECK	REVIEW
0	10/12/17	ORIGINAL ISSUE	MGW	BPG	TCP	MGW

SEAL

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GOLDER

GOLDER ASSOCIATES INC.
2108 WEST LABURNUM AVENUE
SUITE 200
RICHMOND, VA 23227
(804) 358-7900
www.golder.com

PROJECT
POSSUM POINT POWER STATION
GEOLOGIC CROSS SECTIONS

TITLE
GEOLOGIC CROSS SECTION A-A'

PROJECT NO.
16-62150

REV.
0

6 of 10

DRAWING
6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

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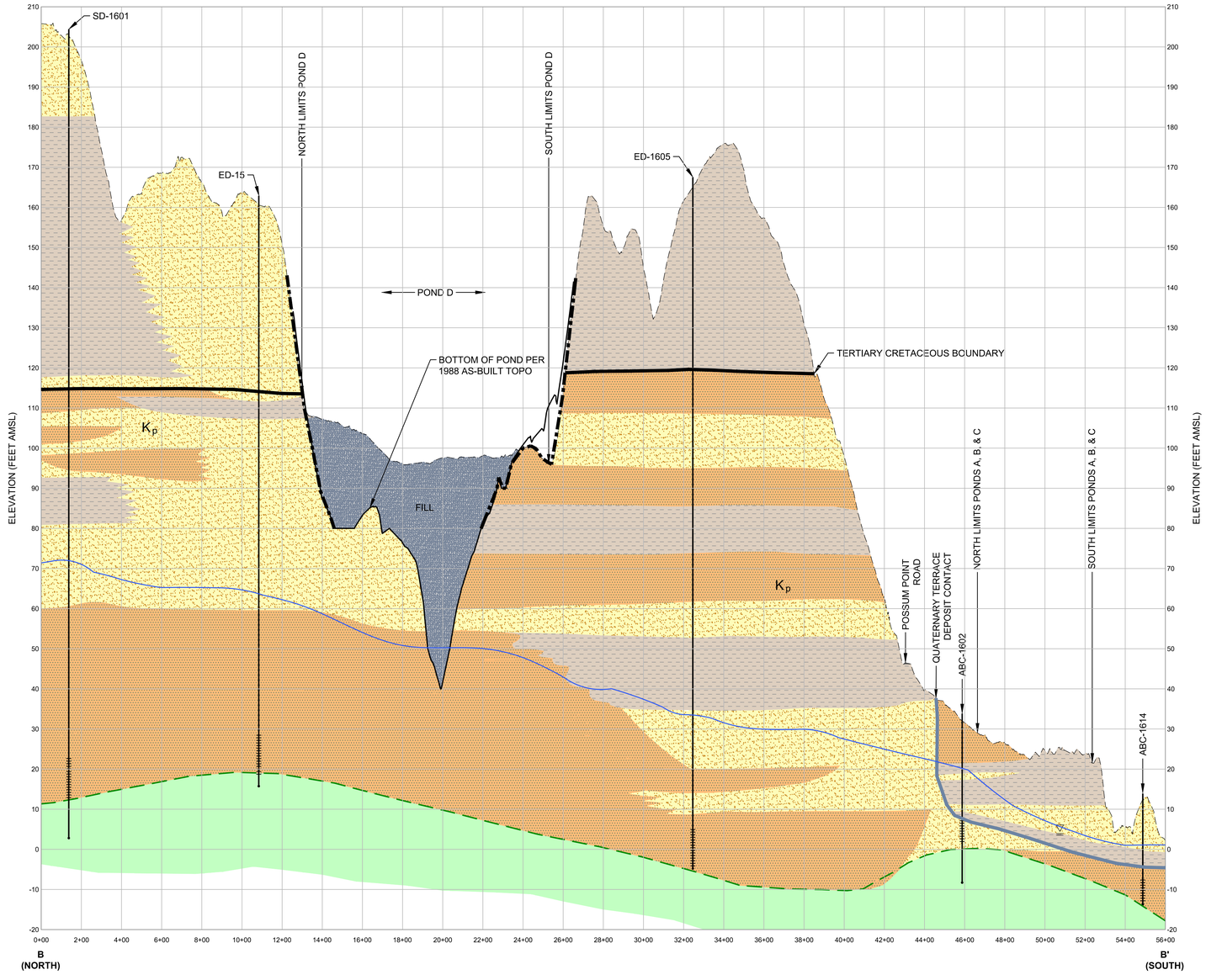
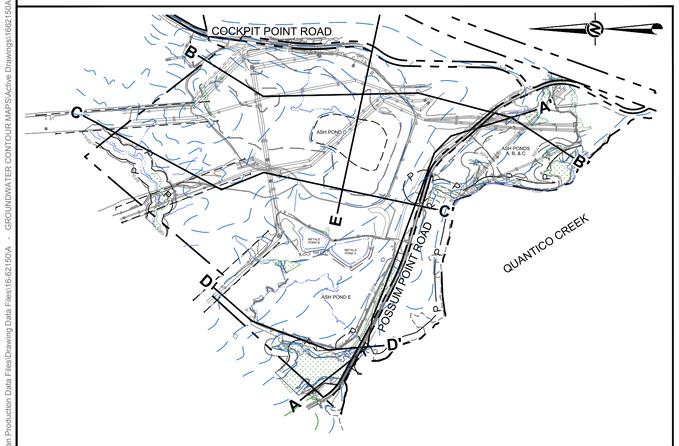


CROSS SECTION B-B'

LEGEND

- EXISTING GROUND
- WATER TABLE
- TOP OF POTOMAC FORMATION
- QUATERNARY TERRACE DEPOSIT CONTACT
- Q_T QUATERNARY TERRACE DEPOSITS
- K_p CRETACEOUS POTOMAC FORMATION
- CLAY + CLAYEY SILT
- SAND
- SILT + CLAYEY SAND + SILTY SAND
- GRAVEL
- K_p CONFINING UNIT FAT CLAY
- ASH
- SCREENED INTERVAL
- ENGINEERED 1' THICK CLAY LINER



CROSS SECTION LOCATION MAP

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300 0 300 600 SCALE FEET

15 0 15 SCALE FEET

REV.	DATE	DESCRIPTION	DESIGN	CADD	CHECK	REVIEW
0	10/12/17	ORIGINAL ISSUE	MGW	BPG	TCP	MGW

SEAL

CLIENT
DOMINION ENERGY

CONSULTANT
GOLDER ASSOCIATES INC.
2108 WEST LABURNUM AVENUE
SUITE 200
RICHMOND, VA 23227
(804) 358-7900
www.golder.com

PROJECT
POSSUM POINT POWER STATION
GEOLOGIC CROSS SECTIONS

TITLE
GEOLOGIC CROSS SECTION B-B'

PROJECT NO.
16-62150

REV. 0

7 of 10

DRAWING 7

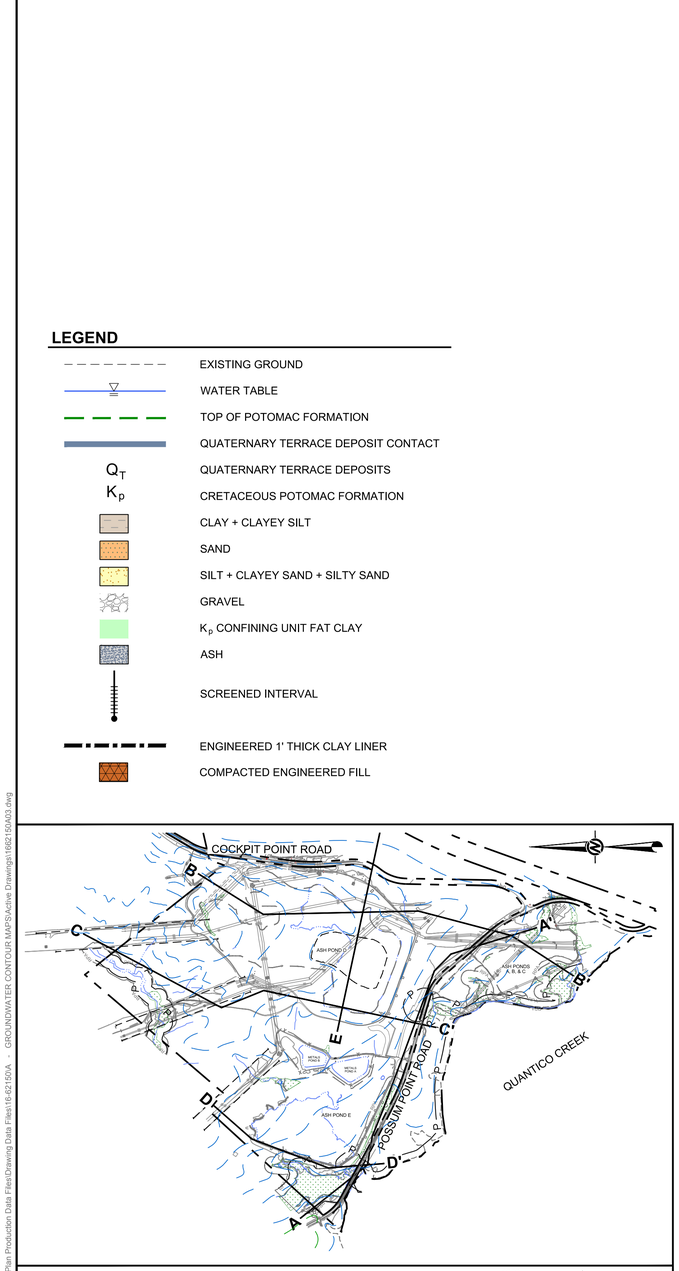
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

0 1 in

Path: G:\Plan Production Data Files\Drawing Data Files\16-62150\A - GROUNDWATER CONTOUR MAPS\Active Drawings\16621S0A03.dwg

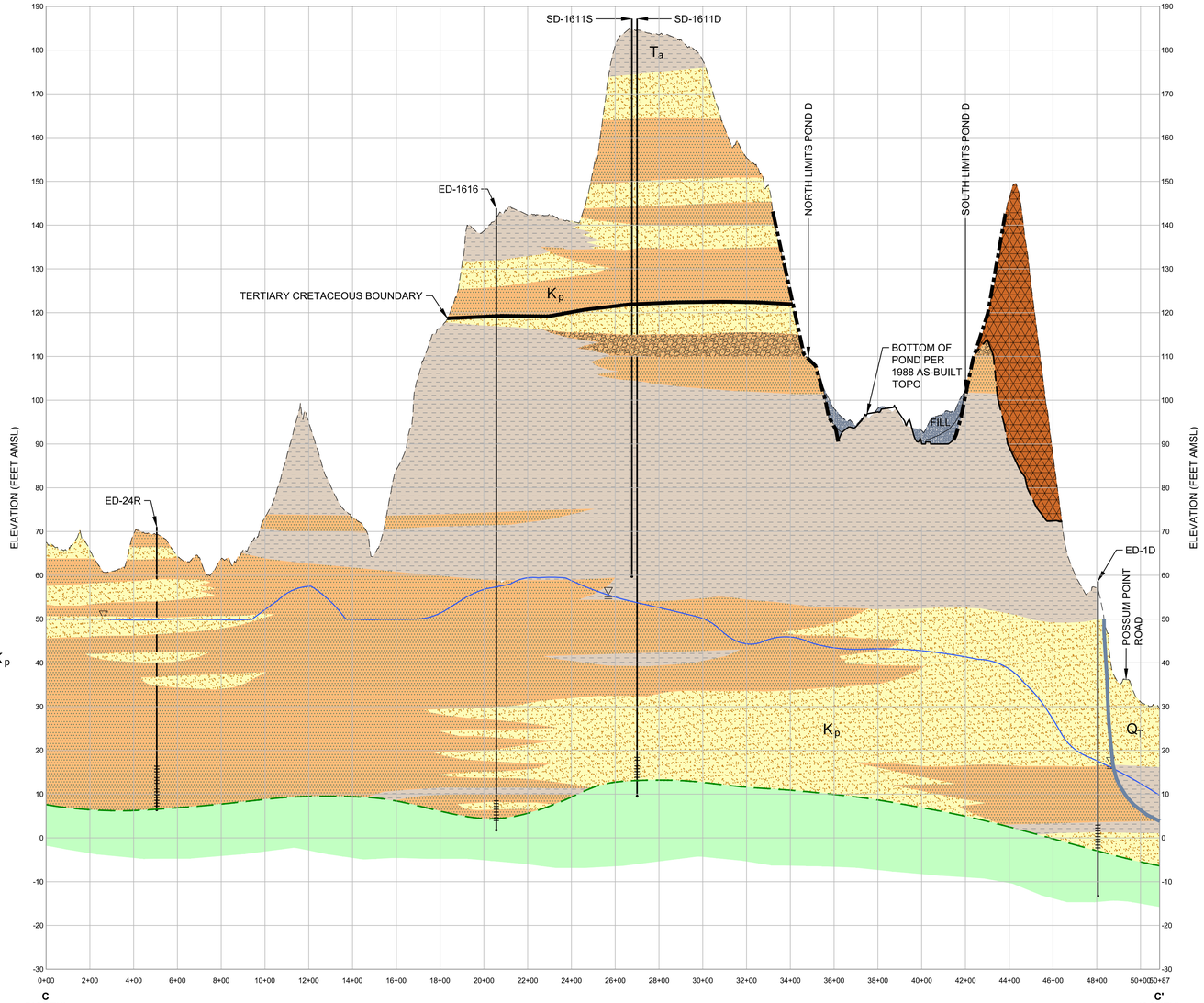
LEGEND

- EXISTING GROUND
- WATER TABLE
- TOP OF POTOMAC FORMATION
- QUATERNARY TERRACE DEPOSIT CONTACT
- Q_T QUATERNARY TERRACE DEPOSITS
- K_p CRETACEOUS POTOMAC FORMATION
- CLAY + CLAYEY SILT
- SAND
- SILT + CLAYEY SAND + SILTY SAND
- GRAVEL
- K_p CONFINING UNIT FAT CLAY
- ASH
- SCREENED INTERVAL
- ENGINEERED 1' THICK CLAY LINER
- COMPACTED ENGINEERED FILL



CROSS SECTION LOCATION MAP

1000 0 1000
SCALE FEET



CROSS SECTION C-C'

300 0 300 600
SCALE FEET

15 0 15
SCALE FEET

REV.	DATE	DESCRIPTION	DESIGN	CADD	CHECK	REVIEW
0	10/12/17	ORIGINAL ISSUE	MGW	BPG	TCP	MGW

SEAL

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GOLDER
GOLDER ASSOCIATES INC.
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SUITE 200
RICHMOND, VA 23227
(804) 358-7900
www.golder.com

PROJECT
POSSUM POINT POWER STATION
GEOLOGIC CROSS SECTIONS

TITLE
GEOLOGIC CROSS SECTION C-C'

PROJECT NO.
16-62150

REV. 0 | 8 of 10 | DRAWING 8

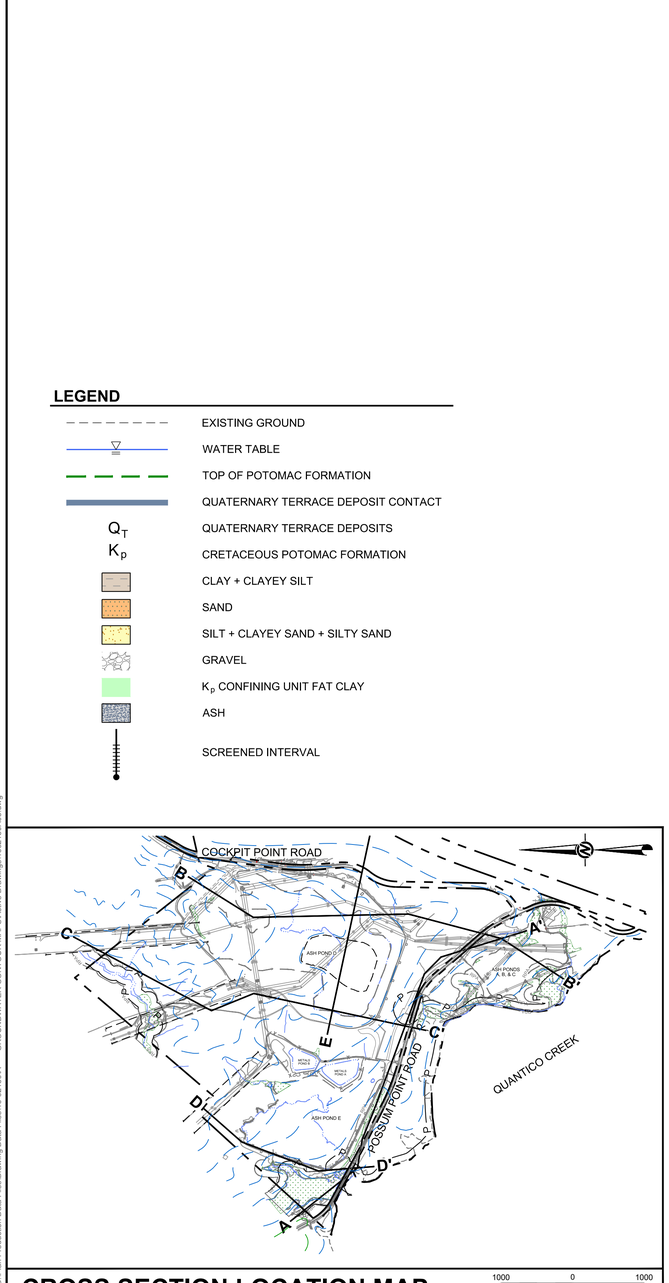
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

0 1in

Path: G:\Plan Production Data Files\Drawing Data Files\16-62150A - GROUNDWATER CONTOUR MAPS\Active Drawings\16\62150A03.dwg

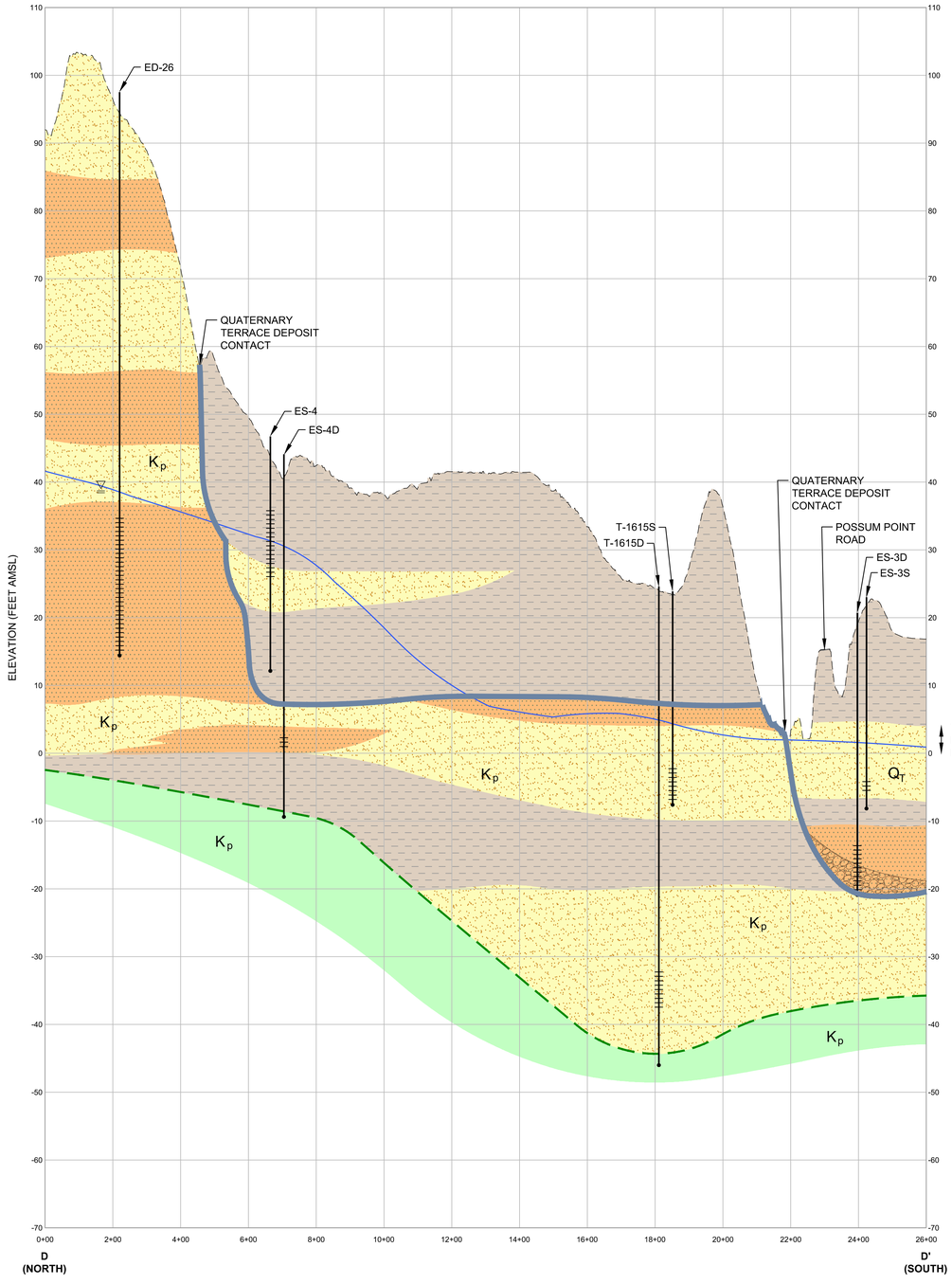
LEGEND

- EXISTING GROUND
- WATER TABLE
- TOP OF POTOMAC FORMATION
- QUATERNARY TERRACE DEPOSIT CONTACT
- Q_T QUATERNARY TERRACE DEPOSITS
- K_p CRETACEOUS POTOMAC FORMATION
- CLAY + CLAYEY SILT
- SAND
- SILT + CLAYEY SAND + SILTY SAND
- GRAVEL
- K_p CONFINING UNIT FAT CLAY
- ASH
- SCREENED INTERVAL



CROSS SECTION LOCATION MAP

1000 0 1000
SCALE FEET



CROSS SECTION D-D'

10 0 10 20 40
SCALE FEET

REV.	DATE	DESCRIPTION	DESIGN	CADD	CHECK	REVIEW
0	10/12/17	ORIGINAL ISSUE	MGW	BPG	TCP	MGW

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SUITE 200
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PROJECT
POSSUM POINT POWER STATION
GEOLOGIC CROSS SECTIONS

TITLE
GEOLOGIC CROSS SECTION D-D'

PROJECT NO.
16-62150

REV.
0

9 of 10

DRAWING
9

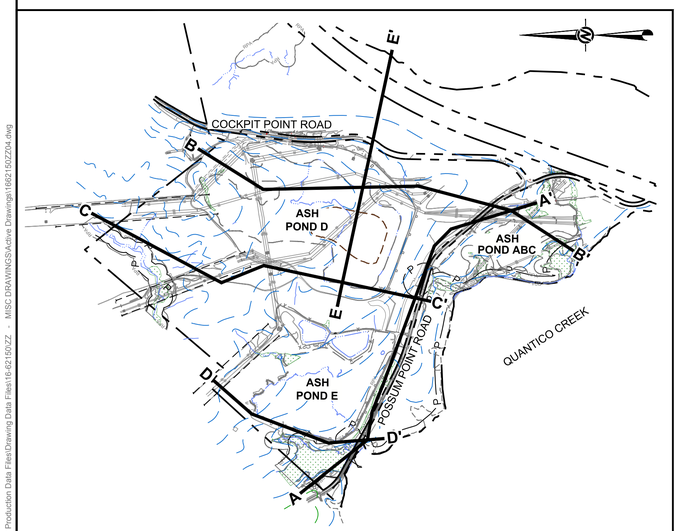
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

0 1 in

Path: G:\Plan Production Data Files\Drawing Data Files\16-62150\A - GROUNDWATER CONTOUR MAPS\Active Drawings\16262150A03.dwg

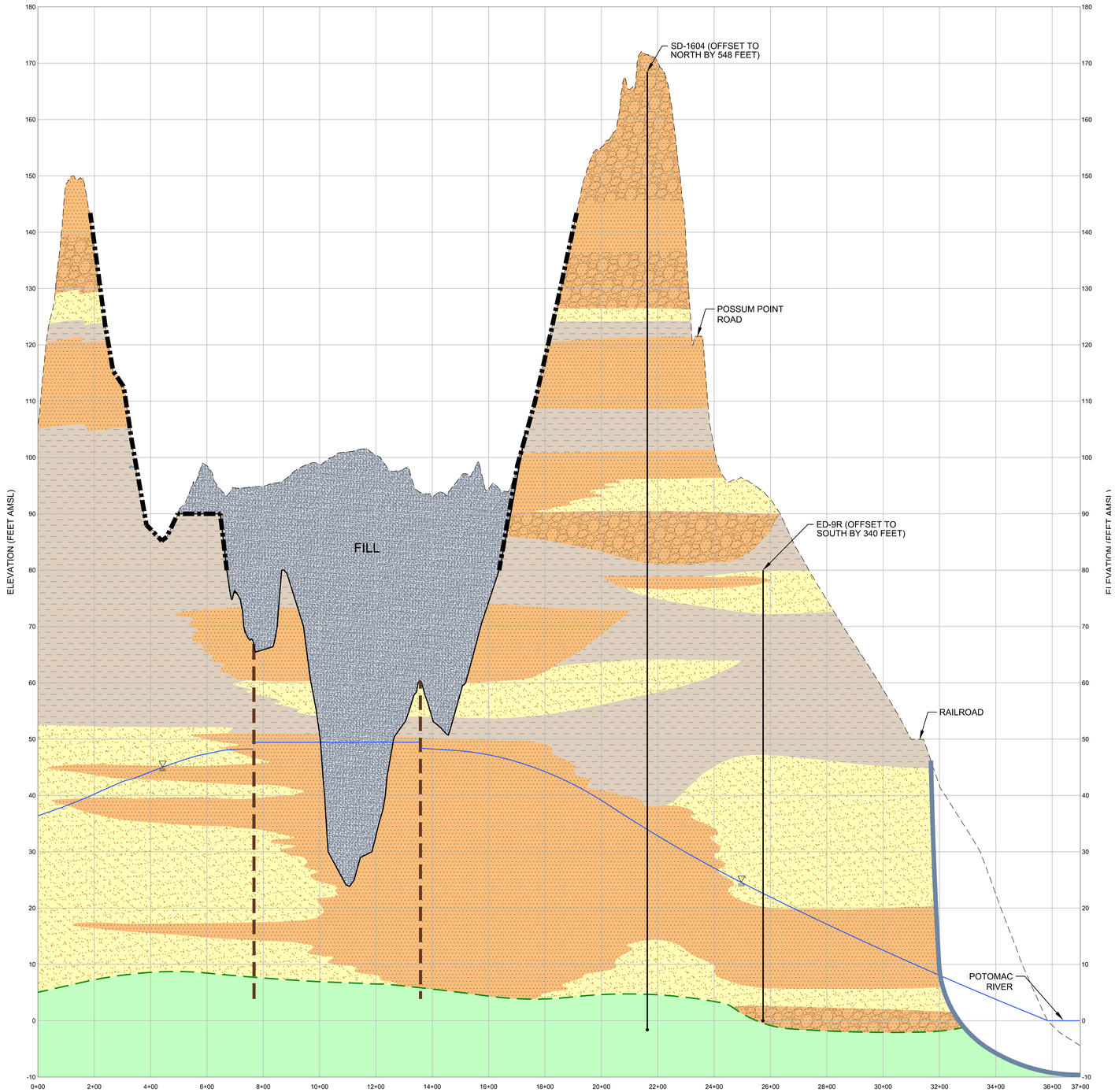
LEGEND

- EXISTING GROUND
- WATER TABLE
- TOP OF POTOMAC FORMATION
- QUATERNARY TERRACE DEPOSIT CONTACT
- Q_T QUATERNARY TERRACE DEPOSITS
- K_p CRETACEOUS POTOMAC FORMATION
- CLAY + CLAYEY SILT
- SAND
- SILT + CLAYEY SAND + SILTY SAND
- GRAVEL
- K_p CONFINING UNIT FAT CLAY
- ASH
- SCREENED INTERVAL
- ENGINEERED 1' THICK CLAY LINER
- SLURRY WALL



CROSS SECTION LOCATION MAP

1000 0 1000
SCALE FEET



CROSS SECTION E-E'

10 0 10
FEET
SCALE

200 0 200 400
SCALE FEET

REV.	DATE	DESCRIPTION	DESIGN	CADD	CHECK	REVIEW
0	03/06/18	ORIGINAL ISSUE	MGW	BPG	TCP	MGW

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2108 WEST LABURNUM AVENUE
SUITE 200
RICHMOND, VA 23227
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www.golder.com

PROJECT
POSSUM POINT POWER STATION
GEOLOGIC CROSS SECTIONS

TITLE
GEOLOGIC CROSS SECTION E-E'

PROJECT NO.
16-62150

REV. 0

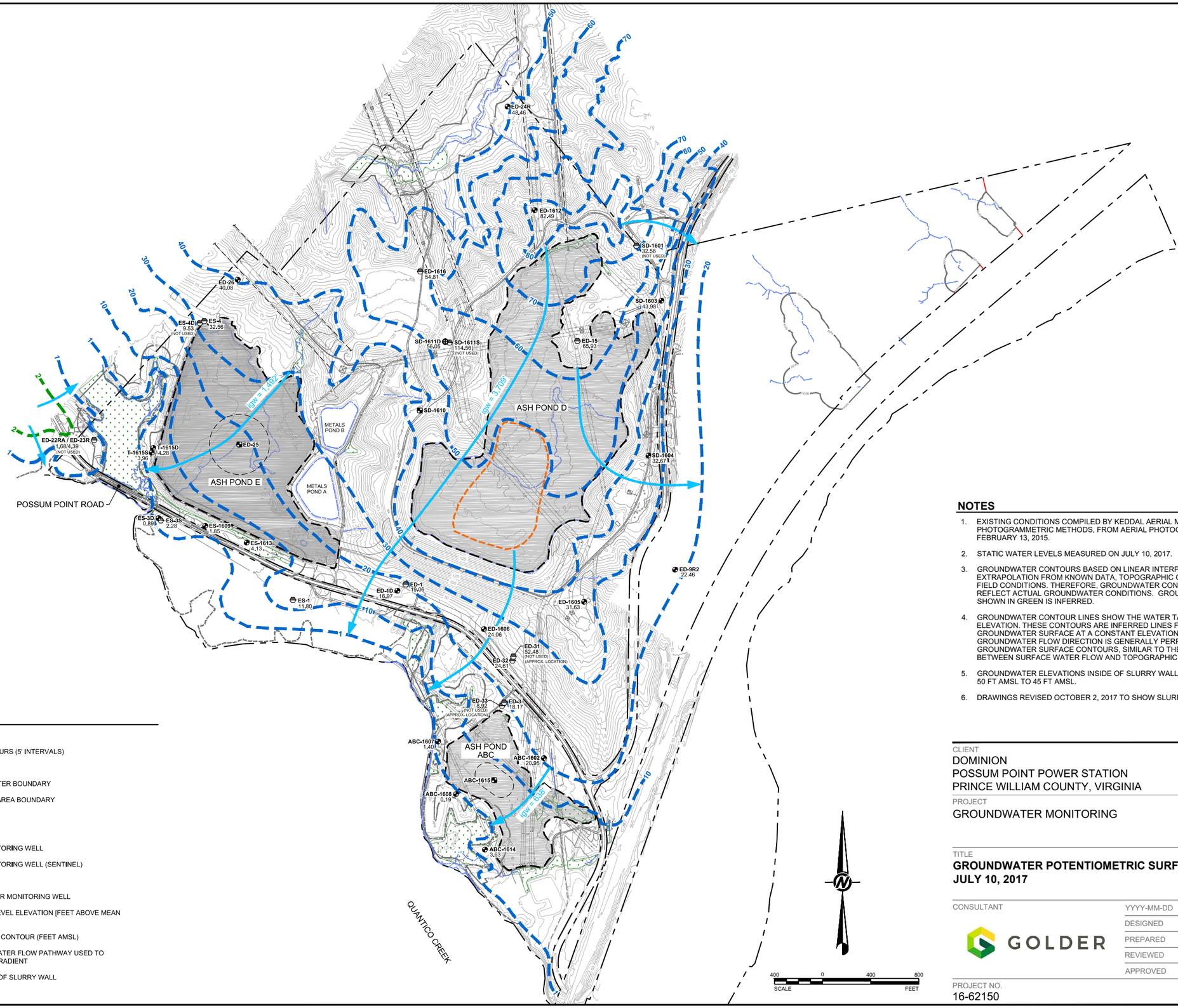
10 of 11

DRAWING 10

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

1 in
0

Path: G:\Plan Production Data Files\Drawing Data Files\16-62150Z2 - MISC DRAWINGS\Active Drawings\16215OZ204.dwg



LEGEND

- PROPERTY BOUNDARY
- EX. TOPOGRAPHIC CONTOURS (5' INTERVALS)
- WETLAND
- STREAM OR SURFACE WATER BOUNDARY
- RESOURCE PROTECTION AREA BOUNDARY
- 100-YEAR FLOOD PLAIN
- ASH POND LIMITS
- ED-1606 — EX. GROUNDWATER MONITORING WELL
- SD-1611D — EX. GROUNDWATER MONITORING WELL (SENTINEL)
- ES-4 — EX. OBSERVATION WELL
- SD-1610 — PROPOSED GROUNDWATER MONITORING WELL
- 16.97 — STATIC GROUNDWATER LEVEL ELEVATION [FEET ABOVE MEAN SEA LEVEL (AMSL)]
- 50 — GROUNDWATER SURFACE CONTOUR (FEET AMSL)
- APPROXIMATE GROUNDWATER FLOW PATHWAY USED TO CALCULATE HYDRAULIC GRADIENT
- APPROXIMATE LOCATION OF SLURRY WALL

NOTES

1. EXISTING CONDITIONS COMPILED BY KEDDAL AERIAL MAPPING USING PHOTOGRAMMETRIC METHODS, FROM AERIAL PHOTOGRAPHY DATED FEBRUARY 13, 2015.
2. STATIC WATER LEVELS MEASURED ON JULY 10, 2017.
3. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS. GROUNDWATER CONTOUR SHOWN IN GREEN IS INFERRED.
4. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.
5. GROUNDWATER ELEVATIONS INSIDE OF SLURRY WALL ESTIMATED AT BETWEEN 50 FT AMSL TO 45 FT AMSL.
6. DRAWINGS REVISED OCTOBER 2, 2017 TO SHOW SLURRY WALL LOCATION.

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POSSUM POINT POWER STATION
PRINCE WILLIAM COUNTY, VIRGINIA

PROJECT
GROUNDWATER MONITORING

TITLE
GROUNDWATER POTENTIOMETRIC SURFACE MAP
JULY 10, 2017

CONSULTANT
GOLDER

YYYY-MM-DD	2018-09-14
DESIGNED	MKS
PREPARED	ALB
REVIEWED	TCP
APPROVED	MGW

PROJECT NO. 16-62150 | REV. 3 | DRAWING 11

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

Path: G:\Plan Production Data Files\Drawing Data Files\16-62150\O - GROUNDWATER MONITORING PLAN\Active Drawings\16t62150O04.dwg