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1 PURPOSE

To determine the thickness and termination elevation of each soil layer encountered at the Calvert Cliffs NPP (CCNPP) Unit 3 Site.

2 BACKGROUND

In general, the soils at the site can be divided into the following stratigraphic units:

- Stratum I: Terrace Sand – light brown to brown sand with varying amounts of silt, clay, and/or gravel, sometimes with silt or clay interbeds.
- Stratum IIa: Chesapeake Clay/Silt – light to dark gray clay and/or silt, predominantly clay, with varying amounts of sand.
- Stratum IIb: Chesapeake Sand – interbedded layers of light to dark gray silty/clayey sands, sandy silts, and low to high plasticity clays, with varying amounts of shell fragments and with varying degrees of cementation.
- Stratum IIc: Chesapeake Clay/Silt – gray to greenish gray clay/silt soils, they contain interbedded layers of sandy silt, silty sand, and cemented sands with varying amount of shell fragments.
- Stratum III: Nanjemoy Sand – primarily dark greenish-gray glauconitic sand with interbedded layers of silt, clay, and cemented sands with varying amounts of shell fragments and varying degrees of cementation. (UniStar 2009)

3 METHODOLOGY

Using the field boring logs (Schnabel 2007 and 2009) provided by UniStar, CCNPP Unit 3 Site was divided into various layers. The thicknesses and elevations of each layer are defined for five areas: Entire Site, Unit 3, Construction Laydown Area (CLA), Unit 3 & CLA Combined and Intake. Figures 2.5-103 and 2.5-104 in the Final Safety Analysis Report (FSAR) Rev. 5 show the layout of the boreholes across the project site. Strata I and IIa are defined clearly in boring logs using the descriptions provided in the Section 2 above. Stratum IIb is further divided into three layers, Layer 1, Layer 2 and Layer 3, respectively. In general, Layer 1 is characterized by standard penetration test (SPT) N-values greater than 20, Layer 2 is characterized by SPT N-values less than 20, and Layer 3 is characterized by SPT N-values greater than 20. In some cases a forth soft layer exists for Stratum IIb, if encountered, this layer is referred to a Layer 2. In some boreholes, these three layers exist, in others only two or one of these layers may exist. Stratum IIc is treated as one layer in this analysis due to the variability across the site, but in RIZZO subsurface profiles of the sand layers are shown clearly defined for each section cut. Stratum III is treated as one layer, only two borings were advanced into this layer.

4 ANALYSIS

Attached Tables 4.1 through 4.5 shows the depths, elevations and thicknesses of the soil layers encountered at the CCNPP Unit 3 Site for the advanced borings. The excel file "Boring Thicknesses & Elevations" contains five tables for each of the five areas mentioned above. See the sheet tabs labeled with

the appropriate area. For each of the five areas, the minimum, maximum and average termination elevations and thicknesses were calculated.

5 CONCLUSION

Tables 5.1 through 5.5 summarize the minimum, maximum and average termination elevations and thicknesses for each layer for the following areas: Entire Site, Unit 3, CLA, Unit 3 & CLA Combined and Intake.

Table 5.1. Summary of Thicknesses and Termination Elevations for Various Strata – Entire Site

Entire Site

Stratum	Thickness [feet]			Termination Elevation [feet]		
	Min	Max	Avg	Min	Max	Avg
Stratum I - Terrace Sand	1	68	28	32	82	61
Stratum IIa - Chesapeake Clay/Silt	4	36	19	5	67	43
Stratum IIb - Chesapeake Sand						
Layer 1	3	69	24	-2	46	22
Layer 2	3	55	23	-17	30	0
Layer 3	4	39	16	-31	-9	-22
Stratum IIc - Chesapeake Clay/Silt	190*	195*	193*	-215*	-208*	-211*
Stratum III - Nanjemoy Sand	>101*	>115*	>108*	-	-	-

* Data based on borings B-301 and B-401

Table 5.2. Summary of Thicknesses and Termination Elevations for Various Strata – Unit 3

Unit 3

Stratum	Thickness [feet]			Termination Elevation [feet]		
	Min	Max	Avg	Min	Max	Avg
Stratum I - Terrace Sand	1	52	21	45	79	62
Stratum IIa - Chesapeake Clay/Silt	4	30	18	34	55	45
Stratum IIb - Chesapeake Sand						
Layer 1	8	45	26	3	43	20
Layer 2	4	55	23	-17	28	-3
Layer 3	5	39	16	-31	-9	-23
Stratum IIc - Chesapeake Clay/Silt	190*			-208*		
Stratum III - Nanjemoy Sand	>101*			-		

* Data based on B-301

Table 5.3. Summary of Thicknesses and Termination Elevations for Various Strata – CLA

CLA

Stratum	Thickness [feet]			Termination Elevation [feet]		
	Min	Max	Avg	Min	Max	Avg
Stratum I - Terrace Sand	5	58	38	42	71	63
Stratum IIa - Chesapeake Clay/Silt	4	28	19	38	50	44
Stratum IIb - Chesapeake Sand						
Layer 1	5	69	27	9	43	20
Layer 2	14	42	26	-13	1.7	-3.8
Layer 3	10	24	17	-28	-11	-20
Stratum IIc - Chesapeake Clay/Silt	195*			-215*		
Stratum III - Nanjemoy Sand	>115*			-		

* Data based on boring B-401

Table 5.4. Summary of Thicknesses and Termination Elevations for Various Strata – Unit 3 & CLA Combined

Unit 3 & CLA Combined

Stratum	Thickness [feet]			Termination Elevation [feet]		
	Min	Max	Avg	Min	Max	Avg
Stratum I - Terrace Sand	1	58	27	42	79	62
Stratum IIa - Chesapeake Clay/Silt	4	30	18	34	55	44
Stratum IIb - Chesapeake Sand						
Layer 1	5	69	26	3	43	20
Layer 2	4	55	24	-17	28	-3
Layer 3	5	39	16	-31	-9	-22
Stratum IIc - Chesapeake Clay/Silt	190*	195*	193*	-215*	-208*	-211*
Stratum III - Nanjemoy Sand	>101*	>115*	>108*	-	-	-

* Data based on borings B-301 and B-401

Table 5.5. Summary of Thicknesses and Termination Elevations for Various Strata – Intake

Intake Area

Stratum	Thickness [feet]			Termination Elevation [feet]		
	Min	Max	Avg	Min	Max	Avg
Stratum I - Terrace Sand	-	-	-	-	-	-
Stratum IIa - Chesapeake Clay/Silt	-	-	-	-	-	-
Stratum IIb - Chesapeake Sand						
Layer 1	5*			3*		
Layer 2	3	31	15	-12	-1	-8
Layer 3	9	24	15	-28	-17	-22
Stratum IIc - Chesapeake Clay/Silt	>13	>141	>57	-	-	-
Stratum III - Nanjemoy Sand	-	-	-	-	-	-

*Based on B-775

6 REFERENCES

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UniStar Nuclear Services, LLC. (UniStar), (2009). "Stability of Subsurface Materials and Foundations," Geology, Seismology, and Geotechnical Engineering, FSAR 2.5 (Revision 5).

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Table 4.1: CCNPP Unit 3 Subsurface Data - Entire Site

Area	Boring	Ground Surface Elevation [ft]	Topsoil/Fill			Terrace Sand			Chesapeake Clay/Silt			Chesapeake Sand												Chesapeake Clay/Silt			Nanjemoy Sand		
												Layer 1 (dense to very dense)			Layer 2 (loose to medium dense)			Layer 3 (medium dense to dense)			Layer 4 (loose to medium dense)								
			Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]
Unit 3	B-301	94.5	94.5	0.0	0.7	93.8	0.7	21.3	72.5	22.0	30.0	42.5	52.0	30.0	12.5	82.0	20.0	-7.5	102.0	10.0	na	na	na	-17.5	112.0	190.0	-207.5	302.0	101.0
Unit 3	B-302	76.4	76.4	0.0	0.5	75.9	0.5	11.5	64.4	12.0	20.0	44.4	32.0	30.0	14.4	62.0	20.0	-5.6	82.0	13.0	na	na	na	-18.6	95.0				
Unit 3	B-303	87.4	87.4	0.0	2.0	85.4	2.0	18.0	67.4	20.0	15.0	52.4	35.0	38.0	14.4	73.0	18.0	-3.6	91.0	24.0	na	na	na	-27.6	115.0				
Unit 3	B-304	68.0	68.0	0.0	0.5	67.5	0.5	6.5	61.0	7.0	20.0	41.0	27.0	30.0	11.0	57.0	20.0	-9.0	77.0	20.0	na	na	na	-29.0	97.0				
Unit 3	B-305	72.0	72.0	0.0	10.0	na	na	na	62.0	10.0	22.0	40.0	32.0	27.0	13.0	59.0	23.0	-10.0	82.0	13.0	na	na	na	-23.0	95.0				
Unit 3	B-306	118.5	na	na	na	118.6	0.0	51.0	67.6	51.0	20.0	47.6	71.0	21.0	26.6	92.0	4.0	22.6	96.0										
Unit 3	B-307	119.3	119.3	0.0	0.3	119.0	0.3	51.7	67.3	52.0	20.0	47.3	72.0	31.0	na	na	na	16.3	103.0	39.0	na	na	na	-22.7	142.0				
Unit 3	B-308	107.1	na	na	na	107.1	0.0	35.0	72.1	35.0	25.0	47.1	60.0	43.5	3.6	103.5	10.0	-6.4	113.5	20.0	na	na	na	-26.4	133.5				
Unit 3	B-309	100.1	100.1	0.0	11.0	89.1	11.0	21.0	68.1	32.0	20.0	48.1	52.0	35.0	13.1	87.0	20.0	-6.9	107.0	8.0	-14.9	115.0	7.0	-21.9	122.0				
Unit 3	B-310	91.6	91.6	0.0	0.5	91.1	0.5	12.5	78.6	13.0	24.0	54.6	37.0	35.0	19.6	72.0	21.0	-1.4	93.0										
Unit 3	B-311	58.4	58.4	0.0	0.8	57.6	0.8	6.2	51.4	7.0	5.0	46.4	12.0	35.0	11.4	47.0	20.0	-8.6	67.0	20.0	na	na	na	-28.6	87.0				
Unit 3	B-312	55.3	55.3	0.0	0.5	54.8	0.5	1.5	53.3	2.0	10.0	43.3	12.0	20.0	23.3	32.0	40.0	-16.7	72.0	5.0	na	na	na	-21.7	77.0				
Unit 3	B-313	50.7	50.7	0.0	0.5	50.2	0.5	4.0	46.2	4.5	12.5	33.7	17.0	24.0	9.7	41.0	21.0	-11.3	62.0	20.0	na	na	na	-31.3	82.0				
Unit 3	B-314	52.8	52.8	0.0	0.4	52.4	0.4	3.1	49.3	3.5	10.0	39.3	13.5	26.5	12.8	40.0	27.0	-14.2	67.0	16.5	na	na	na	-30.7	83.5				
Unit 3	B-315	65.5	65.5	0.0	0.8	64.7	0.8	16.2	na	na	na	48.5	17.0	25.0	23.5	42.0	35.0	-11.5	77.0										
Unit 3	B-316	108.1	108.1	0.0	0.5	107.6	0.5	38.0	69.6	38.5	20.0	49.6	58.5	35.0	14.6	93.5													
Unit 3	B-317	94.4	94.4	0.0	0.5	93.9	0.5	24.0	69.9	24.5	22.5	47.4	47.0	30.0	17.4	77.0	21.5	-4.1	98.5										
Unit 3	B-318	97.8	97.8	0.0	0.5	97.3	0.5	32.5	64.8	33.0	20.0	44.8	53.0	24.0	20.8	77.0	26.0	-5.2	103.0	14.0	na	na	na	-19.2	117.0				
Unit 3	B-319	102.9	102.9	0.0	0.3	102.6	0.3	36.7	65.9	37.0	20.0	45.9	57.0	29.0	16.9	86.0													
Unit 3	B-320	106.4	106.4	0.0	0.5	105.9	0.5	41.5	64.4	42.0	15.0	49.4	57.0	35.0	14.4	92.0	20.0	-5.6	112.0	12.5	na	na	na	-18.1	124.5				
Unit 3	B-321	70.7	70.7	0.0	0.5	70.2	0.5	23.0	47.2	23.5	3.5	43.7	27.0	16.0	27.7	43.0	37.0	-9.3	80.0	12.0	na	na	na	-21.3	92.0				
Unit 3	B-322	89.9	89.9	0.0	0.4	89.5	0.4	31.6	57.9	32.0	15.0	42.9	47.0	15.0	27.9	62.0	10.0	17.9	72.0										
Unit 3	B-323	107.5	na	na	na	107.5	0.0	47.0	60.5	47.0	20.0	40.5	67.0	28.0	12.5	95.0	22.0	-9.5	117.0	21.0	na	na	na	-30.5	138.0				
Unit 3	B-324	105.2	105.2	0.0	0.6	104.6	0.6	38.4	66.2	39.0	28.0	38.2	67.0	7.5	30.7	74.5	10.0	20.7	84.5	7.5	13.2	92.0							
Unit 3	B-325	85.0	85.0	0.0	0.6	84.4	0.6	16.4	68.0	17.0	20.0	48.0	37.0	20.0	28.0	57.0													
Unit 3	B-326	103.1	103.1	0.0	0.5	102.6	0.5	38.0	64.6	38.5	15.0	49.6	53.5	35.0	14.6	88.5													
Unit 3	B-327	86.9	86.9	0.0	0.5	86.4	0.5	32.5	53.9	33.0	10.0	43.9	43.0	14.0	29.9	57.0	36.0	-6.1	93.0	14.0	na	na	na	-20.1	107.0				
Unit 3	B-328	76.3	76.3	0.0	0.2	76.1	0.2	6.8	69.3	7.0	20.0	49.3	27.0	30.0	19.3	57.0	21.0	-1.7	78.0	7.0	na	na	na	-8.7	85.0				
Unit 3	B-329	74.8	74.8	0.0	0.5	74.3	0.5	6.5	67.8	7.0	25.0	42.8	32.0	25.0	17.8	57.0	21.5	-3.7	78.5										
Unit 3	B-330	85.5	85.5	0.0	0.3	85.2	0.3	12.7	72.5	13.0	24.0	48.5	37.0	21.0	27.5	58.0	25.0	2.5	83.0										
Unit 3	B-331	68.3	68.3	0.0	0.7	67.6	0.7	13.5	54.1	14.2	12.3	41.8	26.5	15.0	26.8	41.5	55.0	na	na	na	na	na	na	-28.2	96.5				
Unit 3	B-332	65.4	65.4	0.0	0.4	65.0	0.4	3.6	61.4	4.0	18.0	43.4	22.0	20.0	23.4	42.0	34.0	-10.6	76.0	11.0	na	na	na	-21.6	87.0				
Unit 3	B-333	89.5	89.5	0.0	0.5	89.0	0.5	19.0	70.0	19.5	24.0	46.0	43.5	11.5	34.5	55.0	7.0	27.5	62.0										
Unit 3	B-334	86.8	na	na	na	86.8	0.0	18.5	68.3	18.5	20.0	48.3	38.5	27.5	20.8	66.0	27.0	-6.2	93.0										
Unit 3	B-335	99.5	99.5	0.0	0.4	99.1	0.4	28.1	71.0	28.5	30.3	40.7	58.8	21.2	19.5	80.0													
Unit 3	B-336	96.9	96.9	0.0	11.5	85.4	11.5	15.5	69.9	27.0	25.0	44.9	52.0	31.0	13.9	83.0													
Unit 3	B-337	71.8	71.8	0.0	0.8	71.0	0.8	21.2	49.8	22.0	5.0	44.8	27.0	20.0	24.8	47.0	36.0	-11.2	83.0	9.0	na			-20.2	92.0				
Unit 3	B-338	98.0	98.0	0.0	0.5	97.5	0.5	26.5	71.0	27.0	30.0	41.0	57.0	15.0	26.0	72.0	10.0	16.0	82.0										
Unit 3	B-339	92.0	92.0	0.0	0.5	91.5	0.5	21.5	70.0	22.0	26.5	43.5	48.5	13.5	30.0	62.0	10.0	20.0	72.0	11.0	9.0	83.0							
Unit 3	B-340	84.6	84.6	0.0	0.4	84.2	0.4	21.6	62.6	22.0	15.0	47.6	37.0	40.0	7.6	77.0	16.0	-8.4	93.0										
Unit 3	B-341	98.2	98.2	0.0	0.5	97.7	0.5	31.5	66.2	32.0	15.0	51.2	47.0	36.0	15.2	83.0													
Unit 3	B-342	75.7	75.7	0.0	0.5	75.2	0.5	17.0	58.2	17.5	17.0	41.2	34.5	17.5	23.7	52.0	32.5	-8.8	84.5	13.5	na			-22.3	98.0				
Unit 3	B-343	83.1	83.1	0.0	0.4	82.7	0.4	22.1	60.6	22.5	17.0	43.6	39.5	18.0	25.6	57.5	34.5	-8.9	92.0	15.0	na			-23.9	107.0				
Unit 3	B-344	72.3	72.3	0.0	0.7	71.6	0.7	7.7	63.9	8.4	18.6	45.3	27.0	20.0	25.3	47.0	35.0	-9.7	82.0	10.0	na			-19.7	92.0				
Unit 3	B-345	69.6	na	na	na	69.6	0.0	18.0	51.6	18.0	7.5	44.1	25.5	17.5	26.6	43.0	32.5	-5.9	75.5	12.5	na			-18.4	88.0				
Unit 3	B-346	61.8	61.8	0.0	0.5	61.3	0.5	12.0	49.3	12.5	11.5	37.8	24.0	14.0	23.8	38.0	34.0	-10.2	72.0	15.0	na			-25.2	87.0				
Unit 3	B-347	60.2	60.2	0.0	0.3	59.9	0.3	11.7	48.2	12.0	5.0	43.2	17.0	31.4	11.8	48.4	23.6	-11.8	72.0	15.0	na			-26.8	87.0				
Unit 3	B-348	68.4	68.4	0.0	0.5	67.9	0.5	12.4	55.5	12.9	11.6	43.9	24.5	32.5	11.4	57.0	23.0	-11.6	80.0	18.0	na			-29.6	98.0				
Unit 3	B-349	54.4	54.4	0.0	1.5	52.9	1.5	4.6	48.3	6.1	6.4	41.9	12.5	30.0	11.9	42.5	24.5	-12.6	67.0	5.0	na			-17.6	72.0				
Unit 3	B-350	46.6	46.6	0.0	1.0	45.6	1.0	1.0	44.6	2.0	5.0	na	na	na	39.6	7.0	51.0	-11.4	58.0	14.0	na			-25.4	72.0				
Unit 3	B-351	70.1	70.1	0.0	0.5	69.6	0.5	7.0	62.6	7.5	21.0	41.6	28.5	24.5	17.1	53.0	24.0	-6.9	77.0										
Unit 3	B-352	109.3	109.3	0.0	2.0	107.3	2.0	35.0	72.3	37.0	28.5	43.8	65.5	27.5	16.3	93.0	20.0	-3.7	113.0	15.0	na			-18.7	128.0				
Unit 3	B-353	110.9	110.9	0.0	0.2	110.7	0.2	36.8	73.9	37.0	30.0	43.9	67.0	26.0	17.9	93.0	20.0	-2.1	113.0	24.0	na			-26.1	137.0				
Unit 3	B-354	92.4	92.4	0.0	0.3	92.1	0.3	27.7	64.4	28.0	19.0	45.4	47.0	30.0	15.4	77.0	20.0	-4.6	97.0	12.5	na			-17.1	109.5				
Unit 3	B-355	88.2	88.2	0.0	0.4	87.8	0.4	22.6	65.2	23.0	19.0	46.2	42.0	32.5	13.7	74.5	20.0	-6.3	94.5	18.0	-16.3	104.5	8.0	-24.3	112.5				
Unit 3	B-356	121.0	121.0	0.0	6.0	115.0	6.0	41.0	74.0	47.0	28.5	45.5	75.5	32.5	13.0	108.0	17.5	-4.5	125.5	12.5	na			-17.0	138.0				
Unit 3	B-357	103.1	103.1	0.0	2.0	101.1	2.0	35.0	66.1	37.0	18.5	47.6	55.5	45.0	2.6	100.5	7.0	-4.4	107.5	15.5	na			-19.9	123.0				
CLA	B-401	72.1	na	na	na	72.1	0.0	9.5	62.6	9.5	22.5	40.1	32.0	60.0	na	na	na	na	na	na	na	na	na	-19.9	92.0	195.0	-214.9	287.0	114.5
CLA	B-402	82.2	na	na	na	82.2	0.0	17.0	65.2	17.0	20.0	45.2	37.0	25.0	20.2	62.0	21.0	-0.8	83.0	24.0	na			-24.8	107.0				

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Table 4.1: CCNPP Unit 3 Subsurface Data - Entire Site

Area	Boring	Ground Surface Elevation [ft]	Topsoil/Fill			Terrace Sand			Chesapeake Clay/Silt			Chesapeake Sand												Chesapeake Clay/Silt			Nanjemoy Sand		
												Layer 1 (dense to very dense)			Layer 2 (loose to medium dense)			Layer 3 (medium dense to dense)			Layer 4 (loose to medium dense)								
			Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]
CLA	B-403	63.4	63.4	0.0	0.5	62.9	0.5	6.5	56.4	7.0	15.0	41.4	22.0	15.0	26.4	37.0	30.0	-3.6	67.0	10.0	na			-13.6	77.0				
CLA	B-404	67.9	na	na	na	67.9	0.0	4.5	63.4	4.5	17.5	45.9	22.0	16.0	29.9	38.0	30.0	-0.1	68.0	19.5	na			-19.6	87.5				
CLA	B-405	122.0	122.0	0.0	0.3	121.7	0.3	56.7	65.0	57.0	15.0	50.0	72.0	26.0	24.0	98.0	24.0	0.0	122.0	15.0	na			-15.0	137.0				
CLA	B-406	118.4	118.4	0.0	0.3	118.1	0.3	56.7	61.4	57.0	15.0	46.4	72.0	35.0	11.4	107.0	15.0	-3.6	122.0	20.0	na			-23.6	142.0				
CLA	B-407	81.6	na	na	na	81.6	0.0	23.0	58.6	23.0	19.0	39.6	42.0	21.0	18.6	63.0	24.0	-5.4	87.0	20.0	na			-25.4	107.0				
CLA	B-408	68.4	68.4	0.0	0.5	67.9	0.5	9.5	58.4	10.0	17.0	41.4	27.0	20.0	21.4	47.0	26.0	-4.6	73.0	15.0	na			-19.6	88.0				
CLA	B-409	61.6	61.6	0.0	8.5	na	na	na	53.1	8.5	14.5	38.6	23.0	16.0	22.6	39.0	28.0	-5.4	67.0	22.5	na			-27.9	89.5				
CLA	B-410	119.1	119.1	0.0	0.3	118.8	0.3	53.2	65.6	53.5	21.5	44.1	75.0																
CLA	B-411	81.5	81.5	0.0	0.5	81.0	0.5	12.5	68.5	13.0	24.0	44.5	37.0	25.0	19.5	62.0	30.0	na	na	na	na	na	na	-10.5	92.0				
CLA	B-412	92.2	92.2	0.0	4.5	87.7	4.5	27.5	60.2	32.0	17.5	42.7	49.5	44.0	na	na	na	-1.3	93.5										
CLA	B-413	122.9	122.9	0.0	0.4	122.5	0.4	53.1	69.4	53.5	21.5	47.9	75.0	38.5	9.4	113.5	14.5	-5.1	128.0										
CLA	B-414	121.2	na	na	na	121.2	0.0	57.0	64.2	57.0	20.0	44.2	77.0																
CLA	B-415	119.3	119.3	0.0	2.0	117.3	2.0	50.0	67.3	52.0	20.0	47.3	72.0																
CLA	B-416	86.2	na	na	na	86.2	0.0	22.0	64.2	22.0	20.0	44.2	42.0	30.0	14.2	72.0	21.0	-6.8	93.0										
CLA	B-417	49.2	49.2	0.0	0.5	na	na	na	48.7	0.5	6.5	42.2	7.0	5.0	37.2	12.0	37.0	0.2	49.0	13.0	na	na	na	-12.8	62.0				
CLA	B-418	43.7	43.7	0.0	0.3	na	na	na	na	na	na	na	na	na	43.4	0.3	41.7	1.7	42.0	15.0	na	na	na	-13.3	57.0				
CLA	B-419	55.3	55.3	0.0	13.5	na	na	na	41.8	13.5	3.5	38.3	17.0	6.5	31.8	23.5	31.5	0.3	55.0	11.0	-10.7	66.0	11.0	-21.7	77.0				
CLA	B-420	62.6	62.6	0.0	2.0	na	na	na	60.6	2.0	20.0	40.6	22.0	21.5	19.1	43.5	23.5	-4.4	67.0	16.5	na	na	na	-20.9	83.5				
CLA	B-421	115.5	115.6	0.0	0.3	115.3	0.3	46.7	68.6	47.0	20.0	48.6	67.0	30.0	18.6	97.0	26.0	-7.4	123.0	15.5	na	na	na	-22.9	138.5				
CLA	B-422	104.0	104.0	0.0	0.3	103.7	0.3	43.2	60.5	43.5	16.0	44.5	59.5	27.5	17.0	87.0													
CLA	B-423	110.1	na	na	na	110.1	0.0	42.0	68.1	42.0	26.5	41.6	68.5	31.5	10.1	100.0	13.5	-3.4	113.5	18.5	na	na	na	-21.9	132.0				
CLA	B-424	118.9	118.9	0.0	0.3	118.6	0.3	56.7	61.9	57.0	15.0	46.9	72.0																
CLA	B-425	118.4	na	na	na	118.4	0.0	57.0	61.4	57.0	18.0	43.4	75.0																
CLA	B-426	83.7	na	na	na	83.7	0.0	22.0	61.7	22.0	15.0	46.7	37.0	30.0	16.7	67.0	30.0	-13.3	97.0										
CLA	B-427	116.3	116.3	0.0	0.3	116.0	0.3	58.2	57.8	58.5	15.0	42.8	73.5	23.5	19.3	97.0	26.0	-6.7	123.0	12.0	na	na	na	-18.7	135.0				
CLA	B-428	114.1	114.1	0.0	0.4	113.7	0.4	49.6	64.1	50.0	21.0	43.1	71.0	69.0	na	na	na	na	na	na	na	na	na	-25.9	140.0				
CLA	B-429	103.7	103.7	0.0	0.3	103.4	0.3	41.7	61.7	42.0	15.0	46.7	57.0	30.0	16.7	87.0													
CLA	B-430	102.5	102.5	0.0	0.5	102.0	0.5	31.5	70.5	32.0	25.0	45.5	57.0	31.0	14.5	88.0													
CLA	B-431	118.4	na	na	na	118.4	0.0	55.0	63.4	55.0	25.0	38.4	80.0																
CLA	B-432	118.5	118.6	0.0	2.5	116.1	2.5	46.8	69.3	49.3	24.2	45.1	73.5																
CLA	B-433	97.5	97.5	0.0	0.5	97.0	0.5	36.0	61.0	36.5	20.5	40.5	57.0	20.0	20.5	77.0													
CLA	B-434	105.2	na	na	na	105.2	0.0	47.0	58.2	47.0	15.0	43.2	62.0	30.0	13.2	92.0													
CLA	B-435	107.7	107.7	0.0	0.4	107.3	0.4	46.6	60.7	47.0	20.0	40.7	67.0	25.0	15.7	92.0													
CLA	B-436	108.3	108.3	0.0	0.3	108.0	0.3	39.1	68.9	39.4	27.6	41.3	67.0	20.0	21.3	87.0													
CLA	B-437	110.5	110.6	0.0	2.0	108.6	2.0	42.0	66.6	44.0	18.0	48.6	62.0																
CLA	B-438	106.0	106.0	0.0	7.5	98.5	7.5	29.5	69.0	37.0	20.0	49.0	57.0																
CLA	B-439	113.8	113.8	0.0	2.0	111.8	2.0	45.0	66.8	47.0	25.0	41.8	72.0	21.5	20.3	93.5													
CLA	B-440	56.3	56.3	0.0	17.0	na	na	na	na	na	na	39.3	17.0	21.0	18.3	38.0	25.0	-6.7	63.0	19.0	na	na	na	-25.7	82.0				
Intake	B-701	8.7	8.7	0.0	2.0	na	na	na	na	na	na	na	na	na	6.7	2.0	16.0	-9.3	18.0	15.0	na	na	na	-24.3	33.0				
Intake	B-702	10.3	10.3	0.0	0.5	na	na	na	na	na	na	na	na	na	9.8	0.5	30.5	na	na	na	na	na	na	-20.7	31.0				
Utility Corridor	B-703	45.4	45.4	0.0	0.7	44.7	0.7	1.8	42.9	2.5	19.5	na	na	na	23.4	22.0	40.0	na	na	na	na	na	na	-16.6	62.0				
Utility Corridor	B-704	39.6	39.6	0.0	0.6	na	na	na	na	na	na	na	na	na	39.0	0.6													
Site	B-705	46.8	46.8	0.0	0.6	na	na	na	na	na	na	na	na	na	46.2	0.6													
Site	B-706	77.4	77.4	0.0	0.3	77.1	0.3	9.2	67.9	9.5	17.5	50.4	27.0	20.0	30.4	47.0													
Site	B-707	67.4	67.4	0.0	0.3	67.1	0.3	2.2	64.9	2.5	19.5	na	na	na	45.4	22.0	20.0	25.4	42.0										
Site	B-708	37.4	37.4	0.0	0.4	na	na	na	na	na	na	na	na	na	37.0	0.4	36.6	0.4	37.0	25.0	na	na	na	-24.6	62.0				
Site	B-709	31.3	31.3	0.0	0.4	na	na	na	na	na	na	na	na	na	30.9	0.4	36.6	-5.7	37.0										
Site	B-710	48.0	48.0	0.0	9.5	na	na	na	38.5	9.5	12.5	na	na	na	26.0	22.0	40.0	na	na	na	na	na	na	-14.0	62.0				
Site	B-711	53.0	53.0	0.0	0.3	52.7	0.3	1.7	51.0	2.0	7.5	43.5	9.5	5.5	38.0	15.0													
Site	B-712	42.4	42.4	0.0	0.2	na	na	na	na	na	na	na	na	na	42.2	0.2	17.3	24.9	17.5	5.0	19.9	22.5							
Cooling Tower Area	B-713	58.0	58.0	0.0	2.0	na	na	na	56.0	2.0	15.0	na	na	na	41.0	17.0	16.0	25.0	33.0	8.0	17.0	41.0							
Cooling Tower Area	B-714	116.0	116.0	0.0	0.5	115.5	0.5																						
Cooling Tower Area	B-715	86.3	86.3	0.0	0.5	85.8	0.5	25.5	60.3	26.0																			
Cooling Tower Area	B-716	82.4	82.4	0.0	0.3	82.1	0.3	16.7	65.4	17.0	20.0	45.4	37.0																
Cooling Tower Area	B-717	90.7	90.7	0.0	0.5	90.2	0.5	26.5	63.7	27.0																			
Cooling Tower Area	B-718	117.5	117.5	0.0	0.5	117.0	0.5																						
Cooling Tower Area	B-719	75.2	75.2	0.0	0.2	75.0	0.2	21.8	53.2	22.0	15.0	38.2	37.0																
Cooling Tower Area	B-720	73.5	73.5	0.0	0.3	73.2	0.3	16.7	56.5	17.0	20.0	na			36.5	37.0													
Cooling Tower Area	B-721	101.3	na	na	na	101.3	0.0	45.0	56.3	45.0	17.0	na			39.3	62.0	15.0	24.3	77.0										

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Project No.: 09-4179.01

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Subject: Soil Strata - Thicknessess and Termination Elevations

Table 4.1: CCNPP Unit 3 Subsurface Data - Entire Site

Area	Boring	Ground Surface Elevation [ft]	Topsoil/Fill			Terrace Sand			Chesapeake Clay/Silt			Chesapeake Sand												Chesapeake Clay/Silt			Nanjemoy Sand		
												Layer 1 (dense to very dense)			Layer 2 (loose to medium dense)			Layer 3 (medium dense to dense)			Layer 4 (loose to medium dense)								
			Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]
Cooling Tower Area	B-722	99.8	na	na	na	99.8	0.0	42.0	57.8	42.0	30.0	na			na	na	na	27.8	72.0										
Cooling Tower Area	B-723	90.0	90.0	0.0	0.5	89.5	0.5	26.5	63.0	27.0	26.5	na			36.5	53.5	9.5	27.0	63.0	10.0	17.0	73.0							
Cooling Tower Area	B-724	97.0	97.0	0.0	0.5	96.5	0.5	45.5	51.0	46.0	20.0	na			31.0	66.0	12.5	18.5	78.5	7.5	11.0	86.0							
Cooling Tower Area	B-725	59.0	59.0	0.0	0.5	58.5	0.5	12.5	46.0	13.0	25.0	21.0	38.0	4.0	17.0	42.0													
Cooling Tower Area	B-726	78.3	78.3	0.0	0.3	78.0	0.3	21.7	56.3	22.0	15.0	41.3	37.0	10.0	31.3	47.0													
Cooling Tower Area	B-727	104.9	104.9	0.0	0.6	104.3	0.6	41.4	62.9	42.0	25.0	37.9	67.0	10.0	27.9	77.0													
Cooling Tower Area	B-728	112.3	112.3	0.0	0.4	111.9	0.4	46.6	65.3	47.0	20.0	45.3	67.0																
Cooling Tower Area	B-729	117.3	117.3	0.0	0.5	116.8	0.5	61.5	55.3	62.0																			
Cooling Tower Area	B-730	115.4	115.4	0.0	0.5	114.9	0.5	61.5	53.4	62.0																			
Cooling Tower Area	B-731	115.7	115.7	0.0	0.5	115.2	0.5	68.0	47.2	68.5	15.0	32.2	83.5																
Cooling Tower Area	B-732	90.7	90.7	0.0	0.5	90.2	0.5	24.5	65.7	25.0	25.0	40.7	50.0	21.0	19.7	71.0													
Cooling Tower Area	B-733	87.9	87.9	0.0	0.5	87.4	0.5	21.5	65.9	22.0	20.0	45.9	42.0	28.0	17.9	70.0	22.0	-4.1	92.0										
Cooling Tower Area	B-734	105.7	105.7	0.0	0.5	105.2	0.5	45.5	59.7	46.0	26.0	33.7	72.0																
Cooling Tower Area	B-735	91.2	91.2	0.0	0.5	90.7	0.5	26.5	64.2	27.0	20.0	44.2	47.0	16.0	28.2	63.0													
Cooling Tower Area	B-736	98.3	98.3	0.0	0.4	97.9	0.4	36.6	61.3	37.0	20.0	41.3	57.0	10.0	31.3	67.0													
Cooling Tower Area	B-737	63.5	63.5	0.0	0.3	63.2	0.3	9.2	54.0	9.5	12.5	41.5	22.0	20.0	21.5	42.0	20.0	1.5	62.0	30.0	na	na	na	-28.5	92.0				
Cooling Tower Area	B-738	87.3	87.3	0.0	0.2	87.1	0.2	37.8	49.3	38.0	18.0	31.3	56.0	11.0	20.3	67.0													
Cooling Tower Area	B-739	100.4	100.4	0.0	0.4	100.0	0.4	52.6	47.4	53.0	19.0	28.4	72.0																
Cooling Tower Area	B-740	74.3	74.3	0.0	0.5	73.8	0.5	26.5	47.3	27.0	20.0	27.3	47.0	5.0	22.3	52.0													
Cooling Tower Area	B-741	81.4	81.4	0.0	0.5	80.9	0.5	26.5	54.4	27.0	20.0	34.4	47.0	10.0	24.4	57.0	6.0	18.4	63.0	9.0	9.4	72.0							
Cooling Tower Area	B-742	102.4	102.4	0.0	0.5	101.9	0.5	51.5	50.4	52.0	20.0	30.4	72.0	10.0	20.4	82.0													
Cooling Tower Area	B-743	103.5	103.6	0.0	0.3	103.3	0.3	56.7	46.6	57.0	17.0	29.6	74.0																
Switchyard	B-744	113.3	113.3	0.0	0.5	112.8	0.5	30.5	82.3	31.0	15.0	67.3	46.0	31.0	36.3	77.0	21.0	15.3	98.0										
Switchyard	B-745	111.7	111.7	0.0	0.4	111.3	0.4	52.6	58.7	53.0	14.0	44.7	67.0																
Site	B-746	82.8	82.8	0.0	0.3	82.5	0.3	21.7	60.8	22.0	20.0	40.8	42.0	25.0	15.8	67.0													
Switchyard	B-747	90.3	90.3	0.0	0.5	89.8	0.5	31.5	58.3	32.0	28.0	30.3	60.0																
Switchyard	B-748	82.4	82.4	0.0	0.5	81.9	0.5	12.5	69.4	13.0	25.0	44.4	38.0	10.0	34.4	48.0	40.0	-5.6	88.0										
Switchyard	B-749	102.5	102.5	0.0	0.2	102.3	0.2	36.8	65.5	37.0	20.0	45.5	57.0	10.0	35.5	67.0													
Switchyard	B-750	72.4	na	na	na	72.4	0.0	7.0	65.4	7.0	30.0	na			35.4	37.0	36.0	-0.6	73.0										
Switchyard	B-751	92.2	92.2	0.0	0.4	91.8	0.4	28.6	63.2	29.0	18.0	na			45.2	47.0	21.0	24.2	68.0										
Switchyard	B-752	95.8	95.8	0.0	0.5	95.3	0.5	30.5	64.8	31.0	21.0	43.8	52.0	28.0	15.8	80.0	15.0	0.8	95.0										
Utility Corridor	B-753	48.8	48.8	0.0	0.6	48.2	0.6	16.4	31.8	17.0	10.0	na			21.8	27.0													
Site	B-754	67.0	67.0	0.0	0.5	66.5	0.5	9.0	57.5	9.5	22.5	35.0	32.0	9.0	26.0	41.0													
CLA	B-755	95.0	na	na	na	95.0	0.0	32.0	63.0	32.0																			
Site	B-756	106.9	106.9	0.0	0.5	106.4	0.5	45.5	60.9	46.0																			
Site	B-757	106.9	106.9	0.0	0.5	106.4	0.5																						
Site	B-758	82.6	na	na	na	82.6	0.0	22.5	60.1	22.5																			
Site	B-759	98.4	98.4	0.0	0.2	98.2	0.2	31.8	66.4	32.0	20.0	46.4	52.0	9.0	37.4	61.0	7.5	29.9	68.5	3.5	26.4	72.0							
Switchyard	B-765	97.4	97.4	0.0	0.5	96.9	0.5	41.5	55.4	42.0	15.0	40.4	57.0	21.0	19.4	78.0	20.0	-0.6	98.0										
Site	B-766	108.9	na	na	na	108.9	0.0																						
Site	B-768	48.4	48.4	0.0	2.0	46.4	2.0	5.0	41.4	7.0	16.0	na	na	na	25.4	23.0	25.0	0.4	48.0	19.0	na	na	na	-18.6	67.0				
Site	B-769	54.2	54.2	0.0	0.7	53.5	0.7	7.8	45.7	8.5	18.5	na	na	na	27.2	27.0													
Cooling Tower Area	B-770	121.5	121.6	0.0	0.5	121.1	0.5	45.5	75.6	46.0																			
Intake	B-771	10.6	10.6	0.0	7.0	na	na	na	na	na	na	na	na	na	3.6	7.0	15.0	-11.4	22.0	9.0	na	na	na	-20.4	31.0				
Intake	B-772	10.6	10.6	0.0	7.0	na	na	na	na	na	na	na	na	na	3.6	7.0	15.5	-11.9	22.5	10.0	na	na	na	-21.9	32.5				
Intake	B-773	7.9	7.9	0.0	9.5	na	na	na	na	na	na	na	na	na	-1.6	9.5	2.5	-4.1	12.0	12.5	na	na	na	-16.6	24.5				
Intake	B-774	10.1	10.1	0.0	11.5	na	na	na	na	na	na	na	na	na	na	na	na	-1.4	11.5	15.5	na	na	na	-16.9	27.0				
Intake	B-775	9.7	9.7	0.0	4.5	na	na	na	na	na	na	5.2	4.5	2.5	2.7	7.0	20.0	na			na	na	na	-17.3	27.0				
Intake	B-776	9.6	9.6	0.0	7.0	na	na	na	na	na	na	na	na	na	2.6	7.0	5.5	-2.9	12.5	23.5	na	na	na	-26.4	36.0				
Intake Slope	B-778	113.5	113.6	0.0	0.4	113.2	0.4	47.1	66.1	47.5	30.0	36.1	77.5																
Intake Slope	B-779	100.8	100.8	0.0	0.4	100.4	0.4	40.6	59.8	41.0	32.5							27.3	73.5	15.0	12.3	88.5							
Intake	B-780	9.2	9.2	0.0	7.5	na	na	na	na	na	na	na	na	na	1.7	7.5	9.5	-7.8	17.0	20.0	na	na	na	-27.8	37.0				
Intake	B-781	10.4	10.4	0.0	12.5	na	na	na	na	na	na	na	na	na	-2.1	12.5	9.5	-11.6	22.0	10.0	na	na	na	-21.6	32.0				
Intake	B-782	9.9	9.9	0.0	7.0	na	na	na	na	na	na	na	na	na	2.9	7.0	25.0	na			na	na	na	-22.1	32.0				
Utility Corridor	B-785	98.1	na	na	na	98.1	0.0	27.0	71.1	27.0	25.5	45.6	52.5	10.0	35.6	62.5													
Utility Corridor	B-786	62.1	na	na	na	62.1	0.0	27.0	35.1	27.0	4.5	30.6	31.5	16.0	14.6	47.5	19.5	-4.9	67.0	17.0	na	na	na	-21.9	84.0				
Utility Corridor	B-787	49.4	49.4	0.0	17.5	na	na	na	na	na	na	na	na	na	31.9	17.5	39.5	-7.6	57.0	15.5	na	na	na	-23.1	72.5				
Unit 3	B-788	52.1	na	na	na	52.1	0.0	3.5	48.6	3.5	5.5	43.1	9.0	17.5	25.6	26.5													
Unit 3	B-789	57.3	57.3	0.0	0.5	na	na	na	56.8	0.5	14.0	na	na	na	42.8	14.5	22.5	20.3	37.0	38.0	na	na	na	-17.7	75.0				

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Table 4.1: CCNPP Unit 3 Subsurface Data - Entire Site

Area	Boring	Ground Surface Elevation [ft]	Topsoil/Fill			Terrace Sand			Chesapeake Clay/Silt			Chesapeake Sand												Chesapeake Clay/Silt			Nanjemoy Sand		
												Layer 1 (dense to very dense)			Layer 2 (loose to medium dense)			Layer 3 (medium dense to dense)			Layer 4 (loose to medium dense)								
			Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]
Unit 3	B-790	72.7	72.7	0.0	0.6	72.1	0.6	8.9	63.2	9.5	17.5	45.7	27.0	15.0	30.7	42.0	5.0	25.7	47.0										
Unit 3	B-791	87.5	87.5	0.0	7.0	80.5	7.0	21.5	59.0	28.5	13.5	45.5	42.0	29.5	16.0	71.5	20.5	-4.5	92.0										
Intake	B-821	8.9	8.9	0.0	4.5	na	na	na	na	na	na	na	na	na	4.4	4.5	12.5	-8.1	17.0	20.0	na	na	na	-28.1	37.0				
Utility Corridor	B-822	38.8	na	na	na	38.8	0.0	4.5	34.3	4.5	13.0	21.3	17.5	10.0	11.3	27.5	20.0	-8.7	47.5										
	min				**0.2**			**1.0**	**31.8**		**3.5**	**5.2**		**2.5**	**-2.1**		**2.5**	**-16.7**		**3.5**	**-16.3**		**7.0**	**-31.3**		**190.0**	**-214.9**		**101.0**
	max				**17.5**			**68.0**	**82.3**		**32.5**	**67.3**		**69.0**	**46.2**		**55.0**	**29.9**		**39.0**	**26.4**		**11.0**	**-8.7**		**195.0**	**-207.5**		**114.5**
	avg				**1.8**			**28.3**	**60.5**		**18.6**	**42.6**		**23.5**	**21.6**		**22.9**	**-0.2**		**15.3**	**7.8**		**8.7**	**-21.8**		**192.5**	**-211.2**		**107.8**

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Table 4.2: CCNPP Unit 3 Subsurface Data - Unit 3

Area	Boring	Ground Surface Elevation [ft]	Topsoil/Fill			Terrace Sand			Chesapeake Clay/Silt			Chesapeake Sand												Chesapeake Clay/Silt			Nanjemoy Sand		
												Layer 1 (dense to very dense)			Layer 2 (loose to medium dense)			Layer 3 (medium dense to dense)			Layer 4 (loose to medium dense)								
			Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thicknes s [ft]
Unit 3	B-301	94.5	94.5	0.0	0.7	93.8	0.7	21.3	72.5	22.0	30.0	42.5	52.0	30.0	12.5	82.0	20.0	-7.5	102.0	10.0	na	na	na	-17.5	112.0	190.0	-207.5	302.0	101.0
Unit 3	B-302	76.4	76.4	0.0	0.5	75.9	0.5	11.5	64.4	12.0	20.0	44.4	32.0	30.0	14.4	62.0	20.0	-5.6	82.0	13.0	na	na	na	-18.6	95.0				
Unit 3	B-303	87.4	87.4	0.0	2.0	85.4	2.0	18.0	67.4	20.0	15.0	52.4	35.0	38.0	14.4	73.0	18.0	-3.6	91.0	24.0	na	na	na	-27.6	115.0				
Unit 3	B-304	68.0	68.0	0.0	0.5	67.5	0.5	6.5	61.0	7.0	20.0	41.0	27.0	30.0	11.0	57.0	20.0	-9.0	77.0	20.0	na	na	na	-29.0	97.0				
Unit 3	B-305	72.0	72.0	0.0	10.0	na	na	na	62.0	10.0	22.0	40.0	32.0	27.0	13.0	59.0	23.0	-10.0	82.0	13.0	na	na	na	-23.0	95.0				
Unit 3	B-306	118.5	na	na	na	118.6	0.0	51.0	67.6	51.0	20.0	47.6	71.0	21.0	26.6	92.0	4.0	22.6	96.0										
Unit 3	B-307	119.3	119.3	0.0	0.3	119.0	0.3	51.7	67.3	52.0	20.0	47.3	72.0	31.0	na	na	na	16.3	103.0	39.0	na	na	na	-22.7	142.0				
Unit 3	B-308	107.1	na	na	na	107.1	0.0	35.0	72.1	35.0	25.0	47.1	60.0	43.5	3.6	103.5	10.0	-6.4	113.5	20.0	na	na	na	-26.4	133.5				
Unit 3	B-309	100.1	100.1	0.0	11.0	89.1	11.0	21.0	68.1	32.0	20.0	48.1	52.0	35.0	13.1	87.0	20.0	-6.9	107.0	8.0	-14.9	115.0	7.0	-21.9	122.0				
Unit 3	B-310	91.6	91.6	0.0	0.5	91.1	0.5	12.5	78.6	13.0	24.0	54.6	37.0	35.0	19.6	72.0	21.0	-1.4	93.0										
Unit 3	B-311	58.4	58.4	0.0	0.8	57.6	0.8	6.2	51.4	7.0	5.0	46.4	12.0	35.0	11.4	47.0	20.0	-8.6	67.0	20.0	na	na	na	-28.6	87.0				
Unit 3	B-312	55.3	55.3	0.0	0.5	54.8	0.5	1.5	53.3	2.0	10.0	43.3	12.0	20.0	23.3	32.0	40.0	-16.7	72.0	5.0	na	na	na	-21.7	77.0				
Unit 3	B-313	50.7	50.7	0.0	0.5	50.2	0.5	4.0	46.2	4.5	12.5	33.7	17.0	24.0	9.7	41.0	21.0	-11.3	62.0	20.0	na	na	na	-31.3	82.0				
Unit 3	B-314	52.8	52.8	0.0	0.4	52.4	0.4	3.1	49.3	3.5	10.0	39.3	13.5	26.5	12.8	40.0	27.0	-14.2	67.0	16.5	na	na	na	-30.7	83.5				
Unit 3	B-315	65.5	65.5	0.0	0.8	64.7	0.8	16.2	na	na	na	48.5	17.0	25.0	23.5	42.0	35.0	-11.5	77.0										
Unit 3	B-316	108.1	108.1	0.0	0.5	107.6	0.5	38.0	69.6	38.5	20.0	49.6	58.5	35.0	14.6	93.5													
Unit 3	B-317	94.4	94.4	0.0	0.5	93.9	0.5	24.0	69.9	24.5	22.5	47.4	47.0	30.0	17.4	77.0	21.5	-4.1	98.5										
Unit 3	B-318	97.8	97.8	0.0	0.5	97.3	0.5	32.5	64.8	33.0	20.0	44.8	53.0	24.0	20.8	77.0	26.0	-5.2	103.0	14.0	na	na	na	-19.2	117.0				
Unit 3	B-319	102.9	102.9	0.0	0.3	102.6	0.3	36.7	65.9	37.0	20.0	45.9	57.0	29.0	16.9	86.0													
Unit 3	B-320	106.4	106.4	0.0	0.5	105.9	0.5	41.5	64.4	42.0	15.0	49.4	57.0	35.0	14.4	92.0	20.0	-5.6	112.0	12.5	na	na	na	-18.1	124.5				
Unit 3	B-321	70.7	70.7	0.0	0.5	70.2	0.5	23.0	47.2	23.5	3.5	43.7	27.0	16.0	27.7	43.0	37.0	-9.3	80.0	12.0	na	na	na	-21.3	92.0				
Unit 3	B-322	89.9	89.9	0.0	0.4	89.5	0.4	31.6	57.9	32.0	15.0	42.9	47.0	15.0	27.9	62.0	10.0	17.9	72.0										
Unit 3	B-323	107.5	na	na	na	107.5	0.0	47.0	60.5	47.0	20.0	40.5	67.0	28.0	12.5	95.0	22.0	-9.5	117.0	21.0	na	na	na	-30.5	138.0				
Unit 3	B-324	105.2	105.2	0.0	0.6	104.6	0.6	38.4	66.2	39.0	28.0	38.2	67.0	7.5	30.7	74.5	10.0	20.7	84.5	7.5	13.2	92.0							
Unit 3	B-325	85.0	85.0	0.0	0.6	84.4	0.6	16.4	68.0	17.0	20.0	48.0	37.0	20.0	28.0	57.0													
Unit 3	B-326	103.1	103.1	0.0	0.5	102.6	0.5	38.0	64.6	38.5	15.0	49.6	53.5	35.0	14.6	88.5													
Unit 3	B-327	86.9	86.9	0.0	0.5	86.4	0.5	32.5	53.9	33.0	10.0	43.9	43.0	14.0	29.9	57.0	36.0	-6.1	93.0	14.0	na	na	na	-20.1	107.0				
Unit 3	B-328	76.3	76.3	0.0	0.2	76.1	0.2	6.8	69.3	7.0	20.0	49.3	27.0	30.0	19.3	57.0	21.0	-1.7	78.0	7.0	na	na	na	-8.7	85.0				
Unit 3	B-329	74.8	74.8	0.0	0.5	74.3	0.5	6.5	67.8	7.0	25.0	42.8	32.0	25.0	17.8	57.0	21.5	-3.7	78.5										
Unit 3	B-330	85.5	85.5	0.0	0.3	85.2	0.3	12.7	72.5	13.0	24.0	48.5	37.0	21.0	27.5	58.0	25.0	2.5	83.0										
Unit 3	B-331	68.3	68.3	0.0	0.7	67.6	0.7	13.5	54.1	14.2	12.3	41.8	26.5	15.0	26.8	41.5	55.0	na	na	na	na	na	na	-28.2	96.5				
Unit 3	B-332	65.4	65.4	0.0	0.4	65.0	0.4	3.6	61.4	4.0	18.0	43.4	22.0	20.0	23.4	42.0	34.0	-10.6	76.0	11.0	na	na	na	-21.6	87.0				
Unit 3	B-333	89.5	89.5	0.0	0.5	89.0	0.5	19.0	70.0	19.5	24.0	46.0	43.5	11.5	34.5	55.0	7.0	27.5	62.0										
Unit 3	B-334	86.8	na	na	na	86.8	0.0	18.5	68.3	18.5	20.0	48.3	38.5	27.5	20.8	66.0	27.0	-6.2	93.0										
Unit 3	B-335	99.5	99.5	0.0	0.4	99.1	0.4	28.1	71.0	28.5	30.3	40.7	58.8	21.2	19.5	80.0													
Unit 3	B-336	96.9	96.9	0.0	11.5	85.4	11.5	15.5	69.9	27.0	25.0	44.9	52.0	31.0	13.9	83.0													
Unit 3	B-337	71.8	71.8	0.0	0.8	71.0	0.8	21.2	49.8	22.0	5.0	44.8	27.0	20.0	24.8	47.0	36.0	-11.2	83.0	9.0	na			-20.2	92.0				
Unit 3	B-338	98.0	98.0	0.0	0.5	97.5	0.5	26.5	71.0	27.0	30.0	41.0	57.0	15.0	26.0	72.0	10.0	16.0	82.0										
Unit 3	B-339	92.0	92.0	0.0	0.5	91.5	0.5	21.5	70.0	22.0	26.5	43.5	48.5	13.5	30.0	62.0	10.0	20.0	72.0	11.0	9.0	83.0							
Unit 3	B-340	84.6	84.6	0.0	0.4	84.2	0.4	21.6	62.6	22.0	15.0	47.6	37.0	40.0	7.6	77.0	16.0	-8.4	93.0										
Unit 3	B-341	98.2	98.2	0.0	0.5	97.7	0.5	31.5	66.2	32.0	15.0	51.2	47.0	36.0	15.2	83.0													
Unit 3	B-342	75.7	75.7	0.0	0.5	75.2	0.5	17.0	58.2	17.5	17.0	41.2	34.5	17.5	23.7	52.0	32.5	-8.8	84.5	13.5	na			-22.3	98.0				
Unit 3	B-343	83.1	83.1	0.0	0.4	82.7	0.4	22.1	60.6	22.5	17.0	43.6	39.5	18.0	25.6	57.5	34.5	-8.9	92.0	15.0	na			-23.9	107.0				
Unit 3	B-344	72.3	72.3	0.0	0.7	71.6	0.7	7.7	63.9	8.4	18.6	45.3	27.0	20.0	25.3	47.0	35.0	-9.7	82.0	10.0	na			-19.7	92.0				
Unit 3	B-345	69.6	na	na	na	69.6	0.0	18.0	51.6	18.0	7.5	44.1	25.5	17.5	26.6	43.0	32.5	-5.9	75.5	12.5	na			-18.4	88.0				
Unit 3	B-346	61.8	61.8	0.0	0.5	61.3	0.5	12.0	49.3	12.5	11.5	37.8	24.0	14.0	23.8	38.0	34.0	-10.2	72.0	15.0	na			-25.2	87.0				
Unit 3	B-347	60.2	60.2	0.0	0.3	59.9	0.3	11.7	48.2	12.0	5.0	43.2	17.0	31.4	11.8	48.4	23.6	-11.8	72.0	15.0	na			-26.8	87.0				
Unit 3	B-348	68.4	68.4	0.0	0.5	67.9	0.5	12.4	55.5	12.9	11.6	43.9	24.5	32.5	11.4	57.0	23.0	-11.6	80.0	18.0	na			-29.6	98.0				
Unit 3	B-349	54.4	54.4	0.0	1.5	52.9	1.5	4.6	48.3	6.1	6.4	41.9	12.5	30.0	11.9	42.5	24.5	-12.6	67.0	5.0	na			-17.6	72.0				
Unit 3	B-350	46.6	46.6	0.0	1.0	45.6	1.0	1.0	44.6	2.0	5.0	na	na	na	39.6	7.0	51.0	-11.4	58.0	14.0	na			-25.4	72.0				
Unit 3	B-351	70.1	70.1	0.0	0.5	69.6	0.5	7.0	62.6	7.5	21.0	41.6	28.5	24.5	17.1	53.0	24.0	-6.9	77.0										
Unit 3	B-352	109.3	109.3	0.0	2.0	107.3	2.0	35.0	72.3	37.0	28.5	43.8	65.5	27.5	16.3	93.0	20.0	-3.7	113.0	15.0	na			-18.7	128.0				
Unit 3	B-353	110.9	110.9	0.0	0.2	110.7	0.2	36.8	73.9	37.0	30.0	43.9	67.0	26.0	17.9	93.0	20.0	-2.1	113.0	24.0	na			-26.1	137.0				
Unit 3	B-354	92.4	92.4	0.0	0.3	92.1	0.3	27.7	64.4	28.0	19.0	45.4	47.0	30.0	15.4	77.0	20.0	-4.6	97.0	12.5	na			-17.1	109.5				
Unit 3	B-355	88.2	88.2	0.0	0.4	87.8	0.4	22.6	65.2	23.0	19.0	46.2	42.0	32.5	13.7	74.5	20.0	-6.3	94.5	18.0	-16.3	104.5	8.0	-24.3	112.5				
Unit 3	B-356	121.0	121.0	0.0	6.0	115.0	6.0	41.0	74.0	47.0	28.5	45.5	75.5	32.5	13.0	108.0	17.5	-4.5	125.5	12.5	na			-17.0	138.0				
Unit 3	B-357	103.1	103.1	0.0	2.0	101.1	2.0	35.0	66.1	37.0	18.5	47.6	55.5	45.0	2.6	100.5	7.0	-4.4	107.5	15.5	na			-19.9	123.0				
Unit 3	B-788	52.1	na	na	na	52.1	0.0	3.5	48.6	3.5	5.5	43.1	9.0	17.5	25.6	26.5													
Unit 3	B-789	57.3	57.3	0.0	0.5	na	na	na	56.8	0.5	14.0	na	na	na	42.8	14.5	22.5	20.3	37.0	38.0	na	na	na	-17.7	75.0				

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Table 4.2: CCNPP Unit 3 Subsurface Data - Unit 3

Area	Boring	Ground Surface Elevation [ft]	Topsoil/Fill			Terrace Sand			Chesapeake Clay/Silt			Chesapeake Sand												Chesapeake Clay/Silt			Nanjemoy Sand		
												Layer 1 (dense to very dense)			Layer 2 (loose to medium dense)			Layer 3 (medium dense to dense)			Layer 4 (loose to medium dense)								
			Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thicknes s [ft]
Unit 3	B-790	72.7	72.7	0.0	0.6	72.1	0.6	8.9	63.2	9.5	17.5	45.7	27.0	15.0	30.7	42.0	5.0	25.7	47.0										
Unit 3	B-791	87.5	87.5	0.0	7.0	80.5	7.0	21.5	59.0	28.5	13.5	45.5	42.0	29.5	16.0	71.5	20.5	-4.5	92.0										
	min				**0.2**			**1.0**	**44.6**		**3.5**	**33.7**		**7.5**	**2.6**		**4.0**	**-16.7**		**5.0**	**-16.3**		**7.0**	**-31.3**		**190.0**	**-207.5**		**101.0**
	max				**11.5**			**51.7**	**78.6**		**30.3**	**54.6**		**45.0**	**42.8**		**55.0**	**27.5**		**39.0**	**13.2**		**8.0**	**-8.7**		**190.0**	**-207.5**		**101.0**
	avg				**1.4**			**21.2**	**62.4**		**17.8**	**44.8**		**25.9**	**19.7**		**23.3**	**-2.6**		**15.3**	**-2.3**		**7.5**	**-22.6**		**190.0**	**-207.5**		**101.0**

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Table 4.3: CCNPP Unit 3 Subsurface Data - Construction Layout Area

Area	Boring	Ground Surface Elevation [ft]	Topsoil/Fill			Terrace Sand			Chesapeake Clay/Silt			Chesapeake Sand												Chesapeake Clay/Silt			Nanjemoy Sand		
												Layer 1 (dense to very dense)			Layer 2 (loose to medium dense)			Layer 3 (medium dense to dense)			Layer 4 (loose to medium dense)								
			Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]
CLA	B-401	72.1	na	na	na	72.1	0.0	9.5	62.6	9.5	22.5	40.1	32.0	60.0	na	na	na	na	na	na	na	na	na	-19.9	92.0	195.0	-214.9	287.0	114.5
CLA	B-402	82.2	na	na	na	82.2	0.0	17.0	65.2	17.0	20.0	45.2	37.0	25.0	20.2	62.0	21.0	-0.8	83.0	24.0	na			-24.8	107.0				
CLA	B-403	63.4	63.4	0.0	0.5	62.9	0.5	6.5	56.4	7.0	15.0	41.4	22.0	15.0	26.4	37.0	30.0	-3.6	67.0	10.0	na			-13.6	77.0				
CLA	B-404	67.9	na	na	na	67.9	0.0	4.5	63.4	4.5	17.5	45.9	22.0	16.0	29.9	38.0	30.0	-0.1	68.0	19.5	na			-19.6	87.5				
CLA	B-405	122.0	122.0	0.0	0.3	121.7	0.3	56.7	65.0	57.0	15.0	50.0	72.0	26.0	24.0	98.0	24.0	0.0	122.0	15.0	na			-15.0	137.0				
CLA	B-406	118.4	118.4	0.0	0.3	118.1	0.3	56.7	61.4	57.0	15.0	46.4	72.0	35.0	11.4	107.0	15.0	-3.6	122.0	20.0	na			-23.6	142.0				
CLA	B-407	81.6	na	na	na	81.6	0.0	23.0	58.6	23.0	19.0	39.6	42.0	21.0	18.6	63.0	24.0	-5.4	87.0	20.0	na			-25.4	107.0				
CLA	B-408	68.4	68.4	0.0	0.5	67.9	0.5	9.5	58.4	10.0	17.0	41.4	27.0	20.0	21.4	47.0	26.0	-4.6	73.0	15.0	na			-19.6	88.0				
CLA	B-409	61.6	61.6	0.0	8.5	na	na	na	53.1	8.5	14.5	38.6	23.0	16.0	22.6	39.0	28.0	-5.4	67.0	22.5	na			-27.9	89.5				
CLA	B-410	119.1	119.1	0.0	0.3	118.8	0.3	53.2	65.6	53.5	21.5	44.1	75.0																
CLA	B-411	81.5	81.5	0.0	0.5	81.0	0.5	12.5	68.5	13.0	24.0	44.5	37.0	25.0	19.5	62.0	30.0	na	na	na	na	na	na	-10.5	92.0				
CLA	B-412	92.2	92.2	0.0	4.5	87.7	4.5	27.5	60.2	32.0	17.5	42.7	49.5	44.0	na	na	na	-1.3	93.5										
CLA	B-413	122.9	122.9	0.0	0.4	122.5	0.4	53.1	69.4	53.5	21.5	47.9	75.0	38.5	9.4	113.5	14.5	-5.1	128.0										
CLA	B-414	121.2	na	na	na	121.2	0.0	57.0	64.2	57.0	20.0	44.2	77.0																
CLA	B-415	119.3	119.3	0.0	2.0	117.3	2.0	50.0	67.3	52.0	20.0	47.3	72.0																
CLA	B-416	86.2	na	na	na	86.2	0.0	22.0	64.2	22.0	20.0	44.2	42.0	30.0	14.2	72.0	21.0	-6.8	93.0										
CLA	B-417	49.2	49.2	0.0	0.5	na	na	na	48.7	0.5	6.5	42.2	7.0	5.0	37.2	12.0	37.0	0.2	49.0	13.0	na	na	na	-12.8	62.0				
CLA	B-418	43.7	43.7	0.0	0.3	na	na	na	na	na	na	na	na	na	43.4	0.3	41.7	1.7	42.0	15.0	na	na	na	-13.3	57.0				
CLA	B-419	55.3	55.3	0.0	13.5	na	na	na	41.8	13.5	3.5	38.3	17.0	6.5	31.8	23.5	31.5	0.3	55.0	11.0	-10.7	66.0	11.0	-21.7	77.0				
CLA	B-420	62.6	62.6	0.0	2.0	na	na	na	60.6	2.0	20.0	40.6	22.0	21.5	19.1	43.5	23.5	-4.4	67.0	16.5	na	na	na	-20.9	83.5				
CLA	B-421	115.5	115.6	0.0	0.3	115.3	0.3	46.7	68.6	47.0	20.0	48.6	67.0	30.0	18.6	97.0	26.0	-7.4	123.0	15.5	na	na	na	-22.9	138.5				
CLA	B-422	104.0	104.0	0.0	0.3	103.7	0.3	43.2	60.5	43.5	16.0	44.5	59.5	27.5	17.0	87.0													
CLA	B-423	110.1	na	na	na	110.1	0.0	42.0	68.1	42.0	26.5	41.6	68.5	31.5	10.1	100.0	13.5	-3.4	113.5	18.5	na	na	na	-21.9	132.0				
CLA	B-424	118.9	118.9	0.0	0.3	118.6	0.3	56.7	61.9	57.0	15.0	46.9	72.0																
CLA	B-425	118.4	na	na	na	118.4	0.0	57.0	61.4	57.0	18.0	43.4	75.0																
CLA	B-426	83.7	na	na	na	83.7	0.0	22.0	61.7	22.0	15.0	46.7	37.0	30.0	16.7	67.0	30.0	-13.3	97.0										
CLA	B-427	116.3	116.3	0.0	0.3	116.0	0.3	58.2	57.8	58.5	15.0	42.8	73.5	23.5	19.3	97.0	26.0	-6.7	123.0	12.0	na	na	na	-18.7	135.0				
CLA	B-428	114.1	114.1	0.0	0.4	113.7	0.4	49.6	64.1	50.0	21.0	43.1	71.0	69.0	na	na	na	na	na	na	na	na	na	-25.9	140.0				
CLA	B-429	103.7	103.7	0.0	0.3	103.4	0.3	41.7	61.7	42.0	15.0	46.7	57.0	30.0	16.7	87.0													
CLA	B-430	102.5	102.5	0.0	0.5	102.0	0.5	31.5	70.5	32.0	25.0	45.5	57.0	31.0	14.5	88.0													
CLA	B-431	118.4	na	na	na	118.4	0.0	55.0	63.4	55.0	25.0	38.4	80.0																
CLA	B-432	118.5	118.6	0.0	2.5	116.1	2.5	46.8	69.3	49.3	24.2	45.1	73.5																
CLA	B-433	97.5	97.5	0.0	0.5	97.0	0.5	36.0	61.0	36.5	20.5	40.5	57.0	20.0	20.5	77.0													
CLA	B-434	105.2	na	na	na	105.2	0.0	47.0	58.2	47.0	15.0	43.2	62.0	30.0	13.2	92.0													
CLA	B-435	107.7	107.7	0.0	0.4	107.3	0.4	46.6	60.7	47.0	20.0	40.7	67.0	25.0	15.7	92.0													
CLA	B-436	108.3	108.3	0.0	0.3	108.0	0.3	39.1	68.9	39.4	27.6	41.3	67.0	20.0	21.3	87.0													
CLA	B-437	110.5	110.6	0.0	2.0	108.6	2.0	42.0	66.6	44.0	18.0	48.6	62.0																
CLA	B-438	106.0	106.0	0.0	7.5	98.5	7.5	29.5	69.0	37.0	20.0	49.0	57.0																
CLA	B-439	113.8	113.8	0.0	2.0	111.8	2.0	45.0	66.8	47.0	25.0	41.8	72.0	21.5	20.3	93.5													
CLA	B-440	56.3	56.3	0.0	17.0	na	na	na	na	na	na	39.3	17.0	21.0	18.3	38.0	25.0	-6.7	63.0	19.0	na	na	na	-25.7	82.0				
CLA	B-755	95.0	na	na	na	95.0	0.0	32.0	63.0	32.0																			
	min				**0.3**			**4.5**	**41.8**		**3.5**	**38.3**		**5.0**	**9.4**		**13.5**	**-13.3**		**10.0**	**-10.7**		**11.0**	**-27.9**		**195.0**	**-214.9**		**114.5**
	max				**17.0**			**58.2**	**70.5**		**27.6**	**50.0**		**69.0**	**43.4**		**41.7**	**1.7**		**24.0**	**-10.7**		**11.0**	**-10.5**		**195.0**	**-214.9**		**114.5**
	avg				**2.4**			**37.9**	**62.5**		**18.7**	**43.6**		**27.2**	**20.4**		**25.9**	**-3.8**		**16.7**	**-10.7**		**11.0**	**-20.2**		**195.0**	**-214.9**		**114.5**

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Table 4.4: CCNPP Unit 3 Subsurface Data - Unit 3 & CLA Combined

Area	Boring	Ground Surface Elevation [ft]	Topsoil/Fill			Terrace Sand			Chesapeake Clay/Silt			Chesapeake Sand												Chesapeake Clay/Silt			Nanjemoy Sand		
												Layer 1 (dense to very dense)			Layer 2 (loose to medium dense)			Layer 3 (medium dense to dense)			Layer 4 (loose to medium dense)								
			Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]
CLA	B-401	72.1	na	na	na	72.1	0.0	9.5	62.6	9.5	22.5	40.1	32.0	60.0	na	na	na	na	na	na	na	na	na	-19.9	92.0	195.0	-214.9	287.0	114.5
CLA	B-402	82.2	na	na	na	82.2	0.0	17.0	65.2	17.0	20.0	45.2	37.0	25.0	20.2	62.0	21.0	-0.8	83.0	24.0	na			-24.8	107.0				
CLA	B-403	63.4	63.4	0.0	0.5	62.9	0.5	6.5	56.4	7.0	15.0	41.4	22.0	15.0	26.4	37.0	30.0	-3.6	67.0	10.0	na			-13.6	77.0				
CLA	B-404	67.9	na	na	na	67.9	0.0	4.5	63.4	4.5	17.5	45.9	22.0	16.0	29.9	38.0	30.0	-0.1	68.0	19.5	na			-19.6	87.5				
CLA	B-405	122.0	122.0	0.0	0.3	121.7	0.3	56.7	65.0	57.0	15.0	50.0	72.0	26.0	24.0	98.0	24.0	0.0	122.0	15.0	na			-15.0	137.0				
CLA	B-406	118.4	118.4	0.0	0.3	118.1	0.3	56.7	61.4	57.0	15.0	46.4	72.0	35.0	11.4	107.0	15.0	-3.6	122.0	20.0	na			-23.6	142.0				
CLA	B-407	81.6	na	na	na	81.6	0.0	23.0	58.6	23.0	19.0	39.6	42.0	21.0	18.6	63.0	24.0	-5.4	87.0	20.0	na			-25.4	107.0				
CLA	B-408	68.4	68.4	0.0	0.5	67.9	0.5	9.5	58.4	10.0	17.0	41.4	27.0	20.0	21.4	47.0	26.0	-4.6	73.0	15.0	na			-19.6	88.0				
CLA	B-409	61.6	61.6	0.0	8.5	na	na	na	53.1	8.5	14.5	38.6	23.0	16.0	22.6	39.0	28.0	-5.4	67.0	22.5	na			-27.9	89.5				
CLA	B-410	119.1	119.1	0.0	0.3	118.8	0.3	53.2	65.6	53.5	21.5	44.1	75.0																
CLA	B-411	81.5	81.5	0.0	0.5	81.0	0.5	12.5	68.5	13.0	24.0	44.5	37.0	25.0	19.5	62.0	30.0	na	na	na	na	na	na	-10.5	92.0				
CLA	B-412	92.2	92.2	0.0	4.5	87.7	4.5	27.5	60.2	32.0	17.5	42.7	49.5	44.0	na	na	na	-1.3	93.5										
CLA	B-413	122.9	122.9	0.0	0.4	122.5	0.4	53.1	69.4	53.5	21.5	47.9	75.0	38.5	9.4	113.5	14.5	-5.1	128.0										
CLA	B-414	121.2	na	na	na	121.2	0.0	57.0	64.2	57.0	20.0	44.2	77.0																
CLA	B-415	119.3	119.3	0.0	2.0	117.3	2.0	50.0	67.3	52.0	20.0	47.3	72.0																
CLA	B-416	86.2	na	na	na	86.2	0.0	22.0	64.2	22.0	20.0	44.2	42.0	30.0	14.2	72.0	21.0	-6.8	93.0										
CLA	B-417	49.2	49.2	0.0	0.5	na	na	na	48.7	0.5	6.5	42.2	7.0	5.0	37.2	12.0	37.0	0.2	49.0	13.0	na	na	na	-12.8	62.0				
CLA	B-418	43.7	43.7	0.0	0.3	na	na	na	na	na	na	na	na	na	43.4	0.3	41.7	1.7	42.0	15.0	na	na	na	-13.3	57.0				
CLA	B-419	55.3	55.3	0.0	13.5	na	na	na	41.8	13.5	3.5	38.3	17.0	6.5	31.8	23.5	31.5	0.3	55.0	11.0	-10.7	66.0	11.0	-21.7	77.0				
CLA	B-420	62.6	62.6	0.0	2.0	na	na	na	60.6	2.0	20.0	40.6	22.0	21.5	19.1	43.5	23.5	-4.4	67.0	16.5	na	na	na	-20.9	83.5				
CLA	B-421	115.5	115.6	0.0	0.3	115.3	0.3	46.7	68.6	47.0	20.0	48.6	67.0	30.0	18.6	97.0	26.0	-7.4	123.0	15.5	na	na	na	-22.9	138.5				
CLA	B-422	104.0	104.0	0.0	0.3	103.7	0.3	43.2	60.5	43.5	16.0	44.5	59.5	27.5	17.0	87.0													
CLA	B-423	110.1	na	na	na	110.1	0.0	42.0	68.1	42.0	26.5	41.6	68.5	31.5	10.1	100.0	13.5	-3.4	113.5	18.5	na	na	na	-21.9	132.0				
CLA	B-424	118.9	118.9	0.0	0.3	118.6	0.3	56.7	61.9	57.0	15.0	46.9	72.0																
CLA	B-425	118.4	na	na	na	118.4	0.0	57.0	61.4	57.0	18.0	43.4	75.0																
CLA	B-426	83.7	na	na	na	83.7	0.0	22.0	61.7	22.0	15.0	46.7	37.0	30.0	16.7	67.0	30.0	-13.3	97.0										
CLA	B-427	116.3	116.3	0.0	0.3	116.0	0.3	58.2	57.8	58.5	15.0	42.8	73.5	23.5	19.3	97.0	26.0	-6.7	123.0	12.0	na	na	na	-18.7	135.0				
CLA	B-428	114.1	114.1	0.0	0.4	113.7	0.4	49.6	64.1	50.0	21.0	43.1	71.0	69.0	na	na	na	na	na	na	na	na	na	-25.9	140.0				
CLA	B-429	103.7	103.7	0.0	0.3	103.4	0.3	41.7	61.7	42.0	15.0	46.7	57.0	30.0	16.7	87.0													
CLA	B-430	102.5	102.5	0.0	0.5	102.0	0.5	31.5	70.5	32.0	25.0	45.5	57.0	31.0	14.5	88.0													
CLA	B-431	118.4	na	na	na	118.4	0.0	55.0	63.4	55.0	25.0	38.4	80.0																
CLA	B-432	118.5	118.6	0.0	2.5	116.1	2.5	46.8	69.3	49.3	24.2	45.1	73.5																
CLA	B-433	97.5	97.5	0.0	0.5	97.0	0.5	36.0	61.0	36.5	20.5	40.5	57.0	20.0	20.5	77.0													
CLA	B-434	105.2	na	na	na	105.2	0.0	47.0	58.2	47.0	15.0	43.2	62.0	30.0	13.2	92.0													
CLA	B-435	107.7	107.7	0.0	0.4	107.3	0.4	46.6	60.7	47.0	20.0	40.7	67.0	25.0	15.7	92.0													
CLA	B-436	108.3	108.3	0.0	0.3	108.0	0.3	39.1	68.9	39.4	27.6	41.3	67.0	20.0	21.3	87.0													
CLA	B-437	110.5	110.6	0.0	2.0	108.6	2.0	42.0	66.6	44.0	18.0	48.6	62.0																
CLA	B-438	106.0	106.0	0.0	7.5	98.5	7.5	29.5	69.0	37.0	20.0	49.0	57.0																
CLA	B-439	113.8	113.8	0.0	2.0	111.8	2.0	45.0	66.8	47.0	25.0	41.8	72.0	21.5	20.3	93.5													
CLA	B-440	56.3	56.3	0.0	17.0	na	na	na	na	na	na	39.3	17.0	21.0	18.3	38.0	25.0	-6.7	63.0	19.0	na	na	na	-25.7	82.0				
CLA	B-755	95.0	na	na	na	95.0	0.0	32.0	63.0	32.0																			
Unit 3	B-301	94.5	94.5	0.0	0.7	93.8	0.7	21.3	72.5	22.0	30.0	42.5	52.0	30.0	12.5	82.0	20.0	-7.5	102.0	10.0	na	na	na	-17.5	112.0	190.0	-207.5	302.0	101.0
Unit 3	B-302	76.4	76.4	0.0	0.5	75.9	0.5	11.5	64.4	12.0	20.0	44.4	32.0	30.0	14.4	62.0	20.0	-5.6	82.0	13.0	na	na	na	-18.6	95.0				
Unit 3	B-303	87.4	87.4	0.0	2.0	85.4	2.0	18.0	67.4	20.0	15.0	52.4	35.0	38.0	14.4	73.0	18.0	-3.6	91.0	24.0	na	na	na	-27.6	115.0				
Unit 3	B-304	68.0	68.0	0.0	0.5	67.5	0.5	6.5	61.0	7.0	20.0	41.0	27.0	30.0	11.0	57.0	20.0	-9.0	77.0	20.0	na	na	na	-29.0	97.0				
Unit 3	B-305	72.0	72.0	0.0	10.0	na	na	na	62.0	10.0	22.0	40.0	32.0	27.0	13.0	59.0	23.0	-10.0	82.0	13.0	na	na	na	-23.0	95.0				
Unit 3	B-306	118.5	na	na	na	118.6	0.0	51.0	67.6	51.0	20.0	47.6	71.0	21.0	26.6	92.0	4.0	22.6	96.0										
Unit 3	B-307	119.3	119.3	0.0	0.3	119.0	0.3	51.7	67.3	52.0	20.0	47.3	72.0	31.0	na	na	na	16.3	103.0	39.0	na	na	na	-22.7	142.0				
Unit 3	B-308	107.1	na	na	na	107.1	0.0	35.0	72.1	35.0	25.0	47.1	60.0	43.5	3.6	103.5	10.0	-6.4	113.5	20.0	na	na	na	-26.4	133.5				
Unit 3	B-309	100.1	100.1	0.0	11.0	89.1	11.0	21.0	68.1	32.0	20.0	48.1	52.0	35.0	13.1	87.0	20.0	-6.9	107.0	8.0	-14.9	115.0	7.0	-21.9	122.0				
Unit 3	B-310	91.6	91.6	0.0	0.5	91.1	0.5	12.5	78.6	13.0	24.0	54.6	37.0	35.0	19.6	72.0	21.0	-1.4	93.0										
Unit 3	B-311	58.4	58.4	0.0	0.8	57.6	0.8	6.2	51.4	7.0	5.0	46.4	12.0	35.0	11.4	47.0	20.0	-8.6	67.0	20.0	na	na	na	-28.6	87.0				
Unit 3	B-312	55.3	55.3	0.0	0.5	54.8	0.5	1.5	53.3	2.0	10.0	43.3	12.0	20.0	23.3	32.0	40.0	-16.7	72.0	5.0	na	na	na	-21.7	77.0				
Unit 3	B-313	50.7	50.7	0.0	0.5	50.2	0.5	4.0	46.2	4.5	12.5	33.7	17.0	24.0	9.7	41.0	21.0	-11.3	62.0	20.0	na	na	na	-31.3	82.0				
Unit 3	B-314	52.8	52.8	0.0	0.4	52.4	0.4	3.1	49.3	3.5	10.0	39.3	13.5	26.5	12.8	40.0	27.0	-14.2	67.0	16.5	na	na	na	-30.7	83.5				
Unit 3	B-315	65.5	65.5	0.0	0.8	64.7	0.8	16.2	na	na	na	48.5	17.0	25.0	23.5	42.0	35.0	-11.5	77.0										
Unit 3	B-316	108.1	108.1	0.0	0.5	107.6	0.5	38.0	69.6	38.5	20.0	49.6	58.5	35.0	14.6	93.5													
Unit 3	B-317	94.4	94.4	0.0	0.5	93.9	0.5	24.0	69.9	24.5	22.5	47.4	47.0	30.0	17.4	77.0	21.5	-4.1	98.5										
Unit 3	B-318	97.8	97.8	0.0	0.5	97.3	0.5	32.5	64.8	33.0	20.0	44.8	53.0	24.0	20.8	77.0	26.0	-5.2	103.0	14.0	na	na	na	-19.2	117.0				

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Table 4.4: CCNPP Unit 3 Subsurface Data - Unit 3 & CLA Combined

Area	Boring	Ground Surface Elevation [ft]	Topsoil/Fill			Terrace Sand			Chesapeake Clay/Silt			Chesapeake Sand												Chesapeake Clay/Silt			Nanjemoy Sand		
												Layer 1 (dense to very dense)			Layer 2 (loose to medium dense)			Layer 3 (medium dense to dense)			Layer 4 (loose to medium dense)								
			Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]
Unit 3	B-319	102.9	102.9	0.0	0.3	102.6	0.3	36.7	65.9	37.0	20.0	45.9	57.0	29.0	16.9	86.0													
Unit 3	B-320	106.4	106.4	0.0	0.5	105.9	0.5	41.5	64.4	42.0	15.0	49.4	57.0	35.0	14.4	92.0	20.0	-5.6	112.0	12.5	na	na	na	-18.1	124.5				
Unit 3	B-321	70.7	70.7	0.0	0.5	70.2	0.5	23.0	47.2	23.5	3.5	43.7	27.0	16.0	27.7	43.0	37.0	-9.3	80.0	12.0	na	na	na	-21.3	92.0				
Unit 3	B-322	89.9	89.9	0.0	0.4	89.5	0.4	31.6	57.9	32.0	15.0	42.9	47.0	15.0	27.9	62.0	10.0	17.9	72.0										
Unit 3	B-323	107.5	na	na	na	107.5	0.0	47.0	60.5	47.0	20.0	40.5	67.0	28.0	12.5	95.0	22.0	-9.5	117.0	21.0	na	na	na	-30.5	138.0				
Unit 3	B-324	105.2	105.2	0.0	0.6	104.6	0.6	38.4	66.2	39.0	28.0	38.2	67.0	7.5	30.7	74.5	10.0	20.7	84.5	7.5	13.2	92.0							
Unit 3	B-325	85.0	85.0	0.0	0.6	84.4	0.6	16.4	68.0	17.0	20.0	48.0	37.0	20.0	28.0	57.0													
Unit 3	B-326	103.1	103.1	0.0	0.5	102.6	0.5	38.0	64.6	38.5	15.0	49.6	53.5	35.0	14.6	88.5													
Unit 3	B-327	86.9	86.9	0.0	0.5	86.4	0.5	32.5	53.9	33.0	10.0	43.9	43.0	14.0	29.9	57.0	36.0	-6.1	93.0	14.0	na	na	na	-20.1	107.0				
Unit 3	B-328	76.3	76.3	0.0	0.2	76.1	0.2	6.8	69.3	7.0	20.0	49.3	27.0	30.0	19.3	57.0	21.0	-1.7	78.0	7.0	na	na	na	-8.7	85.0				
Unit 3	B-329	74.8	74.8	0.0	0.5	74.3	0.5	6.5	67.8	7.0	25.0	42.8	32.0	25.0	17.8	57.0	21.5	-3.7	78.5										
Unit 3	B-330	85.5	85.5	0.0	0.3	85.2	0.3	12.7	72.5	13.0	24.0	48.5	37.0	21.0	27.5	58.0	25.0	2.5	83.0										
Unit 3	B-331	68.3	68.3	0.0	0.7	67.6	0.7	13.5	54.1	14.2	12.3	41.8	26.5	15.0	26.8	41.5	55.0	na	na	na	na	na	na	-28.2	96.5				
Unit 3	B-332	65.4	65.4	0.0	0.4	65.0	0.4	3.6	61.4	4.0	18.0	43.4	22.0	20.0	23.4	42.0	34.0	-10.6	76.0	11.0	na	na	na	-21.6	87.0				
Unit 3	B-333	89.5	89.5	0.0	0.5	89.0	0.5	19.0	70.0	19.5	24.0	46.0	43.5	11.5	34.5	55.0	7.0	27.5	62.0										
Unit 3	B-334	86.8	na	na	na	86.8	0.0	18.5	68.3	18.5	20.0	48.3	38.5	27.5	20.8	66.0	27.0	-6.2	93.0										
Unit 3	B-335	99.5	99.5	0.0	0.4	99.1	0.4	28.1	71.0	28.5	30.3	40.7	58.8	21.2	19.5	80.0													
Unit 3	B-336	96.9	96.9	0.0	11.5	85.4	11.5	15.5	69.9	27.0	25.0	44.9	52.0	31.0	13.9	83.0													
Unit 3	B-337	71.8	71.8	0.0	0.8	71.0	0.8	21.2	49.8	22.0	5.0	44.8	27.0	20.0	24.8	47.0	36.0	-11.2	83.0	9.0	na			-20.2	92.0				
Unit 3	B-338	98.0	98.0	0.0	0.5	97.5	0.5	26.5	71.0	27.0	30.0	41.0	57.0	15.0	26.0	72.0	10.0	16.0	82.0										
Unit 3	B-339	92.0	92.0	0.0	0.5	91.5	0.5	21.5	70.0	22.0	26.5	43.5	48.5	13.5	30.0	62.0	10.0	20.0	72.0	11.0	9.0	83.0							
Unit 3	B-340	84.6	84.6	0.0	0.4	84.2	0.4	21.6	62.6	22.0	15.0	47.6	37.0	40.0	7.6	77.0	16.0	-8.4	93.0										
Unit 3	B-341	98.2	98.2	0.0	0.5	97.7	0.5	31.5	66.2	32.0	15.0	51.2	47.0	36.0	15.2	83.0													
Unit 3	B-342	75.7	75.7	0.0	0.5	75.2	0.5	17.0	58.2	17.5	17.0	41.2	34.5	17.5	23.7	52.0	32.5	-8.8	84.5	13.5	na			-22.3	98.0				
Unit 3	B-343	83.1	83.1	0.0	0.4	82.7	0.4	22.1	60.6	22.5	17.0	43.6	39.5	18.0	25.6	57.5	34.5	-8.9	92.0	15.0	na			-23.9	107.0				
Unit 3	B-344	72.3	72.3	0.0	0.7	71.6	0.7	7.7	63.9	8.4	18.6	45.3	27.0	20.0	25.3	47.0	35.0	-9.7	82.0	10.0	na			-19.7	92.0				
Unit 3	B-345	69.6	na	na	na	69.6	0.0	18.0	51.6	18.0	7.5	44.1	25.5	17.5	26.6	43.0	32.5	-5.9	75.5	12.5	na			-18.4	88.0				
Unit 3	B-346	61.8	61.8	0.0	0.5	61.3	0.5	12.0	49.3	12.5	11.5	37.8	24.0	14.0	23.8	38.0	34.0	-10.2	72.0	15.0	na			-25.2	87.0				
Unit 3	B-347	60.2	60.2	0.0	0.3	59.9	0.3	11.7	48.2	12.0	5.0	43.2	17.0	31.4	11.8	48.4	23.6	-11.8	72.0	15.0	na			-26.8	87.0				
Unit 3	B-348	68.4	68.4	0.0	0.5	67.9	0.5	12.4	55.5	12.9	11.6	43.9	24.5	32.5	11.4	57.0	23.0	-11.6	80.0	18.0	na			-29.6	98.0				
Unit 3	B-349	54.4	54.4	0.0	1.5	52.9	1.5	4.6	48.3	6.1	6.4	41.9	12.5	30.0	11.9	42.5	24.5	-12.6	67.0	5.0	na			-17.6	72.0				
Unit 3	B-350	46.6	46.6	0.0	1.0	45.6	1.0	1.0	44.6	2.0	5.0	na	na	na	39.6	7.0	51.0	-11.4	58.0	14.0	na			-25.4	72.0				
Unit 3	B-351	70.1	70.1	0.0	0.5	69.6	0.5	7.0	62.6	7.5	21.0	41.6	28.5	24.5	17.1	53.0	24.0	-6.9	77.0										
Unit 3	B-352	109.3	109.3	0.0	2.0	107.3	2.0	35.0	72.3	37.0	28.5	43.8	65.5	27.5	16.3	93.0	20.0	-3.7	113.0	15.0	na			-18.7	128.0				
Unit 3	B-353	110.9	110.9	0.0	0.2	110.7	0.2	36.8	73.9	37.0	30.0	43.9	67.0	26.0	17.9	93.0	20.0	-2.1	113.0	24.0	na			-26.1	137.0				
Unit 3	B-354	92.4	92.4	0.0	0.3	92.1	0.3	27.7	64.4	28.0	19.0	45.4	47.0	30.0	15.4	77.0	20.0	-4.6	97.0	12.5	na			-17.1	109.5				
Unit 3	B-355	88.2	88.2	0.0	0.4	87.8	0.4	22.6	65.2	23.0	19.0	46.2	42.0	32.5	13.7	74.5	20.0	-6.3	94.5	18.0	-16.3	104.5	8.0	-24.3	112.5				
Unit 3	B-356	121.0	121.0	0.0	6.0	115.0	6.0	41.0	74.0	47.0	28.5	45.5	75.5	32.5	13.0	108.0	17.5	-4.5	125.5	12.5	na			-17.0	138.0				
Unit 3	B-357	103.1	103.1	0.0	2.0	101.1	2.0	35.0	66.1	37.0	18.5	47.6	55.5	45.0	2.6	100.5	7.0	-4.4	107.5	15.5	na			-19.9	123.0				
Unit 3	B-788	52.1	na	na	na	52.1	0.0	3.5	48.6	3.5	5.5	43.1	9.0	17.5	25.6	26.5													
Unit 3	B-789	57.3	57.3	0.0	0.5	na	na	na	56.8	0.5	14.0	na	na	na	42.8	14.5	22.5	20.3	37.0	38.0	na	na	na	-17.7	75.0				
Unit 3	B-790	72.7	72.7	0.0	0.6	72.1	0.6	8.9	63.2	9.5	17.5	45.7	27.0	15.0	30.7	42.0	5.0	25.7	47.0										
Unit 3	B-791	87.5	87.5	0.0	7.0	80.5	7.0	21.5	59.0	28.5	13.5	45.5	42.0	29.5	16.0	71.5	20.5	-4.5	92.0										
	min				**0.2**			**1.0**	**41.8**		**3.5**	**33.7**		**5.0**	**2.6**		**4.0**	**-16.7**		**5.0**	**-16.3**		**7.0**	**-31.3**		**190.0**	**-214.9**		**101.0**
	max				**17.0**			**58.2**	**78.6**		**30.3**	**54.6**		**69.0**	**43.4**		**55.0**	**27.5**		**39.0**	**13.2**		**11.0**	**-8.7**		**195.0**	**-207.5**		**114.5**
	avg				**1.7**			**27.4**	**62.4**		**18.2**	**44.3**		**26.3**	**19.9**		**24.0**	**-2.9**		**15.7**	**-3.9**		**8.7**	**-21.8**		**192.5**	**-211.2**		**107.8**

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Table 4.5: CCNPP Unit 3 Subsurface Data - Intake

Area	Boring	Ground Surface Elevation [ft]	Topsoil/Fill			Terrace Sand			Chesapeake Clay/Silt			Chesapeake Sand												Chesapeake Clay/Silt			Nanjemoy Sand		
												Layer 1 (dense to very dense)			Layer 2 (loose to medium dense)			Layer 3 (medium dense to dense)			Layer 4 (loose to medium dense)								
			Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]	Elevation [ft]	Depth [ft]	Thickness [ft]
Intake	B-701	8.7	8.7	0.0	2.0	na	na	na	na	na	na	na	na	na	6.7	2.0	16.0	-9.3	18.0	15.0	na	na	na	-24.3	33.0	42.0			
Intake	B-702	10.3	10.3	0.0	0.5	na	na	na	na	na	na	na	na	na	9.8	0.5	30.5	na	na	na	na	na	na	-20.7	31.0	19.0			
Intake	B-771	10.6	10.6	0.0	7.0	na	na	na	na	na	na	na	na	na	3.6	7.0	15.0	-11.4	22.0	9.0	na	na	na	-20.4	31.0	69.0			
Intake	B-772	10.6	10.6	0.0	7.0	na	na	na	na	na	na	na	na	na	3.6	7.0	15.5	-11.9	22.5	10.0	na	na	na	-21.9	32.5	67.5			
Intake	B-773	7.9	7.9	0.0	9.5	na	na	na	na	na	na	na	na	na	-1.6	9.5	2.5	-4.1	12.0	12.5	na	na	na	-16.6	24.5	140.5			
Intake	B-774	10.1	10.1	0.0	11.5	na	na	na	na	na	na	na	na	na	na	na	na	-1.4	11.5	15.5	na	na	na	-16.9	27.0	123.0			
Intake	B-775	9.7	9.7	0.0	4.5	na	na	na	na	na	na	5.2	4.5	2.5	2.7	7.0	20.0	na			na	na	na	-17.3	27.0	73.0			
Intake	B-776	9.6	9.6	0.0	7.0	na	na	na	na	na	na	na	na	na	2.6	7.0	5.5	-2.9	12.5	23.5	na	na	na	-26.4	36.0	15.5			
Intake	B-780	9.2	9.2	0.0	7.5	na	na	na	na	na	na	na	na	na	1.7	7.5	9.5	-7.8	17.0	20.0	na	na	na	-27.8	37.0	13.0			
Intake	B-781	10.4	10.4	0.0	12.5	na	na	na	na	na	na	na	na	na	-2.1	12.5	9.5	-11.6	22.0	10.0	na	na	na	-21.6	32.0	18.0			
Intake	B-782	9.9	9.9	0.0	7.0	na	na	na	na	na	na	na	na	na	2.9	7.0	25.0	na			na	na	na	-22.1	32.0	19.5			
Intake	B-821	8.9	8.9	0.0	4.5	na	na	na	na	na	na	na	na	na	4.4	4.5	12.5	-8.1	17.0	20.0	na	na	na	-28.1	37.0	78.0			
	min				**0.5**			**na**	**na**		**na**	**5.2**		**2.5**	**-2.1**		**2.5**	**-11.9**		**9.0**	**na**		**na**	**-28.1**		**13.0**			
	max				**12.5**			**na**	**na**		**na**	**5.2**		**2.5**	**9.8**		**30.5**	**-1.4**		**23.5**	**na**		**na**	**-16.6**		**140.5**			
	avg				**6.7**							**5.2**		**2.5**	**3.1**		**14.7**	**-7.6**		**15.1**				**-22.0**		**56.5**			