Paul C. Rizzo Associates, Inc.
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CALCULATION COVER PAGE

Part 1 – General

Project Number: 09-4179 Project Name: Calvert Cliffs NPP Unit 3
Calculation Title: Index Properties.
Calculation Number: 09-4179-F12 Revision No.: 0
Number of Pages in Calculation: 71 pages
If this is a revision to a calculation, explain reason for revision: _____

Part 2 – Completed by Originator

1. Does the calculation contain the information required by Section 4.4 of QP-15? ☑ Yes ☐ No
   If Answer is No, explain: _____

2. Has design or analysis software been used for the calculation? ☐ Yes ☑ No
   If Yes, complete the following:
   Software Name: _____ Version Number: _____
   V&V Revision Number _____ V&V Date: _____

Printed Name of Originator: Azekah T. Griffiths.
Signature: A. Griffith Date: 9/15/2009

Part 3 – Completed by Checker

1. Were the design inputs correctly selected and appropriately documented? ☑ Yes ☐ No
2. Has the appropriate calculation methodology been used? ☑ Yes ☐ No
3. Are assumptions described and justified? ☑ Yes ☐ No
4. Has the input been correctly selected and incorporated into the calculation? ☑ Yes ☐ No
5. Is information and equations from external sources referenced and appropriate? ☑ Yes ☐ No
6. Are numerical calculations correct and have they been completely documented? ☑ Yes ☐ No
7. Are results reasonable considering the input? ☑ Yes ☐ No

Printed Name of Checker: XIAOSONG XIA
Signature Xiaosong Xia. Date: 9/15/09

Part 4 – Approval (Completed by Project Manager or Principal-in-Charge)

Printed Name: Mel Koleber
Signature MLKoleber

F-12

ENGINEERS & CONSULTANTS

09-4179.01-F12

By: ATG Date: 8/18/2009 Subject: Index Properties Sheet No. 1 of 8
✓By: XS Date: 8/18/09 Calvert Cliffs Unit 3 Project. No. 09-4179.01

ATG – Azekah T. Griffiths

XS – Xiaosong Xia

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1 PURPOSE

To determine the index properties for each soil layer encountered at the Calvert Cliffs NPP Unit 3 Site.

2 METHODOLOGY

Fines content, Atterberg Limit and water content of soil samples obtained from the CCNPP Unit 3 were summarized in Schnabel (2009) and Mactec (2009) reports. Using 09-4179.01-F9 *"Soil Strata – Thicknesses and Termination Elevations"* (RIZZO 2009), soil sample properties were assigned to corresponding soil layers using the boring number and sample depth.

3 RESULTS

The excel file "Index Properties" contains index properties obtained from laboratory testing, and the soil layers where each sample was obtained. Tables 3.1 through 3.5 summarize the minimum, maximum, average and standard deviation of index properties for each layer for the following areas: Entire Site, Unit 3, Construction Layout Area (CLA), Unit 3 & CLA Combined and Intake Area. Attached Tables A.1 through A.5 shows the depth and index properties of all the samples tested.

NV – Non Viscous
NP – Non Plastic

By: ATG Date: 8/18/2009 Subject: Index Properties Sheet No. 3 of 8
✓By: XS Date: 8/18/09 Calvert Cliffs Unit 3 Project. No. 09-4179.01

Table 3.1. Summary of Index Properties – Entire Site

Stratum		Water Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	Fines Content [%]
Stratum I - Terrace Sand	Minimum	0.5	NV	NP	NP	3.4
	Maximum	43.9	68.0	32.0	37.0	96.3
	Average	16.0	18.9	9.3	9.7	23.8
	Standard Deviation	8.7	20.7	9.9	12.0	18.3
Stratum IIa - Chesapeake Clay/Silt	Minimum	15.1	NV	NP	NP	24.8
	Maximum	87.8	86.0	47.0	64.0	99.7
	Average	33.2	59.3	22.2	37.1	80.7
	Standard Deviation	7.1	12.6	6.9	10.0	15.7
Stratum IIb - Chesapeake Cemented Sand						
Layer 1	Minimum	7.9	NV	NP	NP	2.1
	Maximum	45.5	72.0	45.0	50.0	97.9
	Average	24.4	27.2	14.7	12.5	27.4
	Standard Deviation	5.9	22.9	13.2	13.2	19.1
Layer 2	Minimum	9.4	NV	NP	NP	3.8
	Maximum	44.2	72.0	41.0	40.0	88.7
	Average	29.0	18.5	9.7	8.8	21.3
	Standard Deviation	5.5	23.8	12.6	13.0	18.3
Layer 3	Minimum	12.4	NV	NP	NP	8.4
	Maximum	41.0	53.0	32.0	28.0	41.7
	Average	26.3	18.3	11.1	7.2	24.9
	Standard Deviation	6.6	18.8	11.2	8.8	8.5
Stratum IIc - Chesapeake Clay/Silt	Minimum	22.4	NV	NP	NP	11.0
	Maximum	130.2	218.0	119.0	133.0	99.5
	Average	50.7	86.0	41.6	44.3	55.8
	Standard Deviation	17.0	39.3	21.4	27.0	22.7
Stratum III - Nanjemoy Sand	Minimum	13.4	36.0	14.0	13.0	11.7
	Maximum	44.5	79.0	42.0	59.0	44.6
	Average	29.3	56.7	26.4	30.4	21.8
	Standard Deviation	7.1	10.8	9.1	14.0	8.7

Table 3.2. Summary of Index Properties – Unit 3

Stratum		Water Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	Fines Content [%]
Stratum I - Terrace Sand	Minimum	4.5	NV	NP	NP	4.6
	Maximum	36.2	55.0	20.0	37.0	72.0
	Average	15.8	19.7	8.0	11.7	21.8
	Standard Deviation	8.4	21.4	8.4	13.8	20.0
Stratum IIa - Chesapeake Clay/Silt	Minimum	15.1	27.0	11.0	8.0	50.0
	Maximum	42.5	79.0	36.0	54.0	99.7
	Average	31.2	57.4	20.7	36.6	79.5
	Standard Deviation	4.5	11.5	4.8	9.7	15.7
Stratum IIb - Chesapeake Cemented Sand						
Layer 1	Minimum	13.5	NV	NP	NP	2.1
	Maximum	36.2	72.0	32.0	50.0	72.7
	Average	24.1	24.8	12.0	12.8	26.2
	Standard Deviation	4.7	23.0	11.5	14.0	17.3
Layer 2	Minimum	25.0	NV	NP	NP	10.6
	Maximum	44.2	72.0	41.0	40.0	87.0
	Average	30.5	19.7	10.6	9.1	23.3
	Standard Deviation	4.1	26.2	14.3	13.8	20.2
Layer 3	Minimum	16.1	NV	NP	NP	9.8
	Maximum	38.7	49.0	28.0	28.0	35.9
	Average	26.0	17.3	9.5	7.8	23.7
	Standard Deviation	6.4	20.0	11.2	9.9	8.0
Stratum IIc - Chesapeake Clay/Silt	Minimum	27.5	39.0	20.0	9.0	19.6
	Maximum	109.8	199.0	119.0	133.0	99.5
	Average	51.2	95.4	42.9	52.5	59.9
	Standard Deviation	17.1	40.5	19.9	31.0	22.0
Stratum III - Nanjemoy Sand	Minimum	13.4	36.0	14.0	18.0	13.9
	Maximum	44.5	79.0	36.0	59.0	44.6
	Average	29.1	57.1	22.6	34.5	23.3
	Standard Deviation	7.9	12.7	6.6	13.5	9.3

Table 3.3. Summary of Index Properties – CLA

Stratum		Water Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	Fines Content [%]
Stratum I - Terrace Sand	Minimum	2.5	NV	NP	NP	3.4
	Maximum	43.9	46.0	23.0	28.0	60.4
	Average	14.2	12.3	6.4	5.9	16.2
	Standard Deviation	8.2	18.7	9.5	10.3	12.5
Stratum IIa - Chesapeake Clay/Silt	Minimum	21.0	37.0	14.0	10.0	52.1
	Maximum	87.8	86.0	45.0	64.0	97.5
	Average	34.1	62.0	23.9	38.1	84.5
	Standard Deviation	9.5	11.1	7.8	9.7	13.3
Stratum IIb - Chesapeake Cemented Sand						
Layer 1	Minimum	12.0	NV	NP	NP	6.0
	Maximum	35.3	44.0	35.0	27.0	48.2
	Average	23.2	20.8	13.0	7.8	23.6
	Standard Deviation	4.7	20.5	13.4	9.3	13.2
Layer 2	Minimum	23.1	NV	NP	NP	9.7
	Maximum	38.3	49.0	22.0	38.0	24.2
	Average	29.6	16.9	8.0	8.9	15.1
	Standard Deviation	3.5	21.5	10.0	14.0	4.1
Layer 3	Minimum	12.4	NV	NP	NP	19.5
	Maximum	41.0	53.0	32.0	25.0	41.7
	Average	27.2	33.7	20.0	13.7	28.3
	Standard Deviation	7.1	29.3	17.4	12.7	8.1
Stratum IIc - Chesapeake Clay/Silt	Minimum	30.2	43.0	17.0	13.0	22.4
	Maximum	130.2	218.0	104.0	118.0	98.7
	Average	53.2	94.8	53.2	41.6	58.6
	Standard Deviation	19.6	35.0	22.6	20.5	21.3
Stratum III - Nanjemoy Sand	Minimum	20.7	52.0	28.0	13.0	11.7
	Maximum	36.9	58.0	42.0	30.0	23.0
	Average	29.7	55.7	36.3	19.3	17.3
	Standard Deviation	5.8	3.2	7.4	9.3	4.7

Table 3.4. Summary of Index Properties – Unit 3 & CLA Combined

Stratum		Water Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	Fines Content [%]
Stratum I - Terrace Sand	Minimum	2.5	NV	NP	NP	3.4
	Maximum	43.9	55.0	23.0	37.0	72.0
	Average	14.9	16.3	7.3	9.1	19.2
	Standard Deviation	8.3	20.3	8.8	12.5	17.1
Stratum IIa - Chesapeake Clay/Silt	Minimum	15.1	27.0	11.0	8.0	50.0
	Maximum	87.8	86.0	45.0	64.0	99.7
	Average	32.4	59.6	22.3	37.3	81.8
	Standard Deviation	7.2	11.5	6.6	9.7	14.7
Stratum IIb - Chesapeake Cemented Sand						
Layer 1	Minimum	12.0	NV	NP	NP	2.1
	Maximum	36.2	72.0	35.0	50.0	72.7
	Average	23.7	23.6	12.3	11.3	25.0
	Standard Deviation	4.7	22.1	11.9	12.9	15.5
Layer 2	Minimum	23.1	NV	NP	NP	9.7
	Maximum	44.2	72.0	41.0	40.0	87.0
	Average	30.1	18.8	9.8	9.0	20.1
	Standard Deviation	3.9	24.5	12.9	13.6	16.3
Layer 3	Minimum	12.4	NV	NP	NP	9.8
	Maximum	41.0	53.0	32.0	28.0	41.7
	Average	26.5	20.4	11.5	8.9	25.5
	Standard Deviation	6.7	21.9	12.6	10.2	8.2
Stratum IIc - Chesapeake Clay/Silt	Minimum	27.5	39.0	17.0	9.0	19.6
	Maximum	130.2	218.0	119.0	133.0	99.5
	Average	52.1	95.2	47.8	47.4	59.4
	Standard Deviation	18.2	37.8	21.7	27.0	21.6
Stratum III - Nanjemoy Sand	Minimum	13.4	36.0	14.0	13.0	11.7
	Maximum	44.5	79.0	42.0	59.0	44.6
	Average	29.3	56.7	26.4	30.4	21.8
	Standard Deviation	7.1	10.8	9.1	14.0	8.7

Table 3.5. Summary of Index Properties – Intake

Stratum		Water Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	Fines Content [%]
Stratum I - Terrace Sand	Minimum	-	-	-	-	-
	Maximum	-	-	-	-	-
	Average	-	-	-	-	-
	Standard Deviation	-	-	-	-	-
Stratum IIa - Chesapeake Clay/Silt	Minimum	-	-	-	-	-
	Maximum	-	-	-	-	-
	Average	-	-	-	-	-
	Standard Deviation	-	-	-	-	-
Stratum IIb - Chesapeake Cemented Sand						
Layer 1	Minimum	7.9	-	-	-	16.5
	Maximum	7.9	-	-	-	16.5
	Average	7.9	-	-	-	16.5
	Standard Deviation	-	-	-	-	
Layer 2	Minimum	9.4	NV	NP	NP	6.3
	Maximum	36.0	27.0	17.0	10.0	44.2
	Average	24.4	5.4	3.4	2.0	18.9
	Standard Deviation	7.6	12.1	7.6	4.5	11.9
Layer 3	Minimum	15.4	NV	NP	NP	8.4
	Maximum	37.4	42.0	23.0	22.0	37.9
	Average	25.5	13.3	9.2	4.1	25.9
	Standard Deviation	6.9	15.5	10.5	6.3	9.6
Stratum IIc - Chesapeake Clay/Silt	Minimum	22.4	NV	NP	NP	11.0
	Maximum	94.5	143.0	79.0	110.0	98.3
	Average	48.5	72.5	32.6	39.9	49.0
	Standard Deviation	14.5	37.6	17.4	26.6	23.2
Stratum III - Nanjemoy Sand	Minimum	-	-	-	-	-
	Maximum	-	-	-	-	-
	Average	-	-	-	-	-
	Standard Deviation	-	-	-	-	-

4 REFERENCES

Mactec Engineering and Consulting, Inc. (Mactec), (2009). "Laboratory Testing Results" (Revision 2), MACTEC Project Number 6234-08-4783, Charlotte, NC.

Schnabel Engineering North, LLC (Schnabel), (2007). "Geotechnical Subsurface Investigation Data Report" (Revision No. 1), Schnabel Project No. 06120048, December 13, 2007, Gaithersburg, MD.

Paul C. Rizzo Associates, Inc. (RIZZO), (2009). 09-4179.01-F9 "Soil Strata – Thicknesses and Termination Elevations"

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
intake	B-775	5	6.5	Layer 1	7.9				16.5
Unit 3	B-314	13.5	15.5	Layer 1	25.9	54	11	43	35
Unit 3	B-313	18.5	20	Layer 1	23.1				
Unit 3	B-314	18.5	19.4	Layer 1	24.2				
Unit 3	B-315	18.5	20	Layer 1	28.3				
Utility Corridor	B-822	18.5	20	Layer 1	18.6				30.4
Unit 3	B-313	23.5	25	Layer 1	21.1	NV	NP	NP	
Unit 3	B-314	23.5	24.4	Layer 1	22.6	NV	NP	NP	
Unit 3	B-315	23.5	25.5	Layer 1	23.3	41	11	30	35
CLA	B-420	23.5	25	Layer 1	24.4	NV	NP	NP	
CLA	B-440	23.5	25	Layer 1	22.1				8.4
SITE	B-707	23.5	25	Layer 1	29.5				
Utility Corridor	B-822	23.5	25	Layer 1	29.9				14
Unit 3	B-304	28.5	30	Layer 1	32.3				
Unit 3	B-313	28.5	30	Layer 1	18.2	NV	NP	NP	
Unit 3	B-314	28.5	30	Layer 1	20.3				
Unit 3	B-315	28.5	30	Layer 1	27.6				
Unit 3	B-321	28.5	30	Layer 1	27	47	29	18	43.6
Unit 3	B-328	28.5	30	Layer 1	30.5	40	21	19	42.6
Unit 3	B-304	33.5	33.9	Layer 1	20.1				
Unit 3	B-313	33.5	34	Layer 1	28.1	38	21	17	
Unit 3	B-314	33.5	35	Layer 1	25.4	42	22	20	
Unit 3	B-321	33.5	34.3	Layer 1	30.9				
Unit 3	B-328	33.5	35	Layer 1	18.2				
Unit 3	B-331	33.5	34.8	Layer 1	21.9				8.3
Unit 3	B-337	33.5	35	Layer 1	29				
CLA	B-401	33.5	34.4	Layer 1	20.8				
CLA	B-420	33.5	35	Layer 1	24.2				
CLA	B-440	33.5	35	Layer 1	20.1				28.4
SITE	B-707	33.5	35	Layer 1	45.5	59	45	14	70.8
Utility Corridor	B-786A	33.5	35	Layer 1	41.1	48	24	24	78.6
CLA	B-409	35	36.2	Layer 1	23.3	NV	NP	NP	6
Unit 3	B-304	38.5	39.4	Layer 1	19.3				8.5
Unit 3	B-313	38.5	39.3	Layer 1	17.1				
Unit 3	B-314	38.5	39.8	Layer 1	26.8	NV	NP	NP	
Unit 3	B-315	38.5	40	Layer 1	22.2	NV	NP	NP	13.2
Unit 3	B-321	38.5	40	Layer 1	27.1				9
Unit 3	B-328	38.5	38.8	Layer 1	22.6				7.8
CLA	B-420	38.5	39.8	Layer 1	20	30	19	11	
Utility Corridor	B-786A	38.5	39.8	Layer 1	34.6				34.7
Unit 3	B-305	39.5	41.5	Layer 1	34.7	72	22	50	49.5
Unit 3	B-304	43.5	45	Layer 1	21.9				
Unit 3	B-328	43.5	45	Layer 1	24.2	NV	NP	NP	10.8
Unit 3	B-333	43.5	45	Layer 1	26.1				38.8
Unit 3	B-334	43.5	45	Layer 1	27				
CLA	B-401	43.5	44.3	Layer 1	21.4				21.2

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-407	43.5	45	Layer 1	23.3				17.4
CLA	B-411	43.5	44.5	Layer 1	24				15
CLA	B-416	43.5	45	Layer 1	25.6				
SITE	B-746	43.5	45	Layer 1	29.2	40	34	6	
Unit 3	B-304	48.5	49.8	Layer 1	14.5	25	18	7	
Unit 3	B-317	48.5	50.5	Layer 1	22.8	35	17	18	69.8
Unit 3	B-328	48.5	49.6	Layer 1	25.8				
Unit 3	B-333	48.5	48.8	Layer 1	25.2	34	13	21	20
Unit 3	B-334	48.5	49.8	Layer 1	27.2				26.2
Unit 3	B-339	48.5	50	Layer 1	27.8	40	20	20	
Unit 3	B-304	53.5	54	Layer 1	13.5				
Unit 3	B-328	53.5	55	Layer 1	24				21.9
Unit 3	B-333	53.5	55	Layer 1	20.9				13.4
Unit 3	B-334	53.5	55	Layer 1	21.4				
Unit 3	B-339	53.5	55	Layer 1	30.8	48	30	18	33.7
CLA	B-401	53.5	55	Layer 1	31.6				
CLA	B-411	53.5	55	Layer 1	25.2	44	17	27	
Switchyard	B-752	53.5	55	Layer 1	27.7	40	29	11	44.9
Utility Corridor	B-785	53.5	55	Layer 1	30.9				24.4
Switchyard	B-752	58	60	Layer 1	45.3	65	17	48	97.9
Unit 3	B-316	58.5	60	Layer 1	24.4				
Unit 3	B-317	58.5	59.8	Layer 1	26				
Unit 3	B-319	58.5	60	Layer 1	26.7	40	32	8	
Unit 3	B-339	58.5	59.4	Layer 1	28.1	NV	NP	NP	
CLA	B-401	58.5	60	Layer 1	25				13.1
CLA	B-416	58.5	60	Layer 1	26.2				15.5
CLA	B-433	58.5	60	Layer 1	29.3	44	35	9	48.2
Cooling Tower Area	B-735	58.5	60	Layer 1	20.9				5.8
Cooling Tower Area	B-738	58.5	60	Layer 1	28.7				
SITE	B-746	58.5	60	Layer 1	17.9				
Utility Corridor	B-785	58.5	60	Layer 1	10.6				10.3
Unit 3	B-301A	61	62	Layer 1	21.5	NV	NP	NP	31.8
Unit 3	B-301	63.5	64.2	Layer 1	20.4				2.1
Unit 3	B-316	63.5	65	Layer 1	31.3				
Unit 3	B-334	63.5	63.9	Layer 1	19	NV	NP	NP	29.8
CLA	B-434	63.5	65.5	Layer 1	23.7	NV	NP	NP	36.9
Switchyard	B-747	63.5	64.8	Layer 1	27.6	43	20	23	38
Switchyard	B-752	63.5	65	Layer 1	37	64	43	21	
Unit 3	B-316	68.5	69.3	Layer 1	19.8				16.5
Unit 3	B-323	68.5	70	Layer 1	29	46	24	22	32.8
Unit 3	B-336	68.5	70	Layer 1	19.6				
CLA	B-421	68.5	70	Layer 1	22.2				33.1
CLA	B-423	68.5	69.2	Layer 1	25.4	NV	NP	NP	
CLA	B-434	68.5	69.4	Layer 1	25				
Switchyard	B-747	68.5	70	Layer 1	30.3	NV	NP	NP	
Switchyard	B-752	68.5	70	Layer 1	34.6				60.5

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-307	73.5	75	Layer 1	24.9				
Unit 3	B-316	73.5	74	Layer 1	21.2				
Unit 3	B-317	73.5	74.4	Layer 1	22.3				
Unit 3	B-319	73.5	74.8	Layer 1	17.5				13.6
Unit 3	B-320	73.5	74.2	Layer 1	18.8				15.3
CLA	B-415	73.5	75	Layer 1	26.3	40	30	10	47.8
CLA	B-421	73.5	74	Layer 1	24.9				
CLA	B-423	73.5	74	Layer 1	22.8				
CLA	B-433	73.5	75	Layer 1	23.7				11.6
CLA	B-434	73.5	74.5	Layer 1	22.6				
Switchyard	B-747	73.5	75	Layer 1	28.1	NV	NP	NP	
CLA	B-425	75	77	Layer 1	21.8	41	20	21	45.1
CLA	B-401	78.5	80	Layer 1	17.5				
CLA	B-413	78.5	80	Layer 1	26.1				34.6
CLA	B-414	78.5	80	Layer 1	29.8				
CLA	B-421	78.5	80	Layer 1	19.7				
CLA	B-423	78.5	80	Layer 1	21.9				11.3
CLA	B-427	78.5	79.3	Layer 1	23.1				
CLA	B-434	78.5	80	Layer 1	15.6				
CLA	B-425	80	81.3	Layer 1	31.7				
Intake Slope	B-778	81.5	83.5	Layer 1	28.1	46	20	26	60.8
Unit 3	B-307	83.5	84.3	Layer 1	20.6				13
Unit 3	B-319	83.5	84.8	Layer 1	18.2				25.7
Unit 3	B-323	83.5	84.8	Layer 1	36.2	42	20	22	72.7
CLA	B-413	83.5	84.3	Layer 1	21				
CLA	B-414	83.5	84.3	Layer 1	19				16.6
CLA	B-415	83.5	85	Layer 1	17				17.8
CLA	B-421	83.5	83.8	Layer 1	20.5				
CLA	B-423	83.5	85	Layer 1	25.6				
CLA	B-434	83.5	84	Layer 1	19.8	30	22	8	
CLA	B-425	85	86.5	Layer 1	19				
Unit 3	B-307	88.5	90	Layer 1	21.5	NV	NP	NP	
CLA	B-401	88.5	90	Layer 1	35.3				38.3
CLA	B-421	88.5	90	Layer 1	26				14.5
CLA	B-423	88.5	90	Layer 1	23.1				
CLA	B-434	88.5	90	Layer 1	15.6				
Intake Slope	B-778	88.5	90	Layer 1	22				14.5
CLA	B-425	90	91.5	Layer 1	20.5				
Unit 3	B-307	93.5	95	Layer 1	27.7				17.9
Unit 3	B-323	93.5	95	Layer 1	26.3	NV	NP	NP	27.9
CLA	B-414	93.5	94.2	Layer 1	20.1				39.7
CLA	B-421	93.5	95	Layer 1	20.7	NV	NP	NP	
CLA	B-423	93.5	95	Layer 1	29.8				13
CLA	B-427	93.5	93.8	Layer 1	12				34.8
CLA	B-425	95	95.3	Layer 1	17.9				
Intake Slope	B-778	95.5	97	Layer 1	21.9				13.8

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-413	98.5	99.9	Layer 1	34.9				15.9
CLA	B-414	98.5	99.3	Layer 1	13.5				19.6
CLA	B-423	98.5	100	Layer 1	27.4				
Intake Slope	B-778	98.5	99.8	Layer 1	21				13.7
Intake Slope	B-778	101.5	103.5	Layer 1	25.1	28	20	8	12.1
CLA	B-413	108.5	110	Layer 1	24.8				9.6
Intake Slope	B-778	108.5	110	Layer 1	31.8				16.1
Intake Slope	B-778	118.5	119	Layer 1	21.1				28.1
Intake Slope	B-778	120	121.5	Layer 1	23.5				21.3
				Minimum	**7.9**	**NV**	**NP**	**NP**	**2.1**
				Maximum	**45.5**	**72.0**	**45.0**	**50.0**	**97.9**
				Average	**24.4**	**27.2**	**14.7**	**12.5**	**27.4**
				Standard Deviation	**5.9**	**22.9**	**13.2**	**13.2**	**19.1**
CLA	B-418	2.5	4	Layer 2	27.9				
CLA	B-418	7.5	9	Layer 2	30.9	NV	NP	NP	
Intake	B-701	7.5	9	Layer 2	15.9				27.9
SITE	B-709	7.5	9	Layer 2	27.3				
intake	B-771	7.5	9	Layer 2	18.4				
intake	B-775	7.5	9	Layer 2	17.1				24.9
Intake	B-782	7.5	9	Layer 2	14.1				
Intake	B-821	7.5	9	Layer 2	9.4				7.4
intake	B-771	10	11.5	Layer 2	20.7				
intake	B-773	10	11.5	Layer 2	34.4	NV	NP	NP	
intake	B-775	10	11.5	Layer 2	19.6				
Intake	B-782	10	11.5	Layer 2	17.8				
Intake	B-821	10	11.5	Layer 2	33.9	NV	NP	NP	18
Intake	B-701	10.5	12	Layer 2	12.4				6.3
intake	B-775	12.5	14	Layer 2	19.2				6.7
CLA	B-418	13.5	15	Layer 2	32.7	49	22	27	
SITE	B-709	13.5	14.5	Layer 2	29.1				
intake	B-771	13.5	15	Layer 2	29.3				
Intake	B-781	13.5	15	Layer 2	25.1	NV	NP	NP	
Intake	B-782	13.5	15	Layer 2	28				
Intake	B-821	13.5	15	Layer 2	31.3				17.1
intake	B-775	15	16.3	Layer 2	19.9				44.2
Unit 3	B-789	15	16.5	Layer 2	31.1				
intake	B-775	17.5	19	Layer 2	31	27	17	10	16.7
intake	B-771	18.5	20	Layer 2	25.6				
Intake	B-781	18.5	20	Layer 2	26.3				9.6
Intake	B-782	18.5	20	Layer 2	22.1				
Utility Corridor	B-787	18.5	20	Layer 2	24.1				3.8
Unit 3	B-789	18.5	20	Layer 2	32				
intake	B-775	20	21.5	Layer 2	29				
intake	B-775	22.5	24	Layer 2	33.2	NV	NP	NP	
CLA	B-418	23.5	25	Layer 2	25.2				
SITE	B-709	23.5	25	Layer 2	30.4				

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Intake	B-782	23.5	25	Layer 2	34.9				
Unit 3	B-789	23.5	25	Layer 2	27.3				
intake	B-775	25	26.5	Layer 2	29.1				
Intake	B-782	28.5	30	Layer 2	36				29.6
CLA	B-418	33.5	35	Layer 2	28.4				
SITE	B-709	33.5	35	Layer 2	33.8				
Unit 3	B-313	43.5	45	Layer 2	29.3	34	27	7	
Unit 3	B-314	43.5	45	Layer 2	31.9				
Unit 3	B-321	43.5	45	Layer 2	26				
Unit 3	B-331	43.5	45	Layer 2	31.6				50.6
CLA	B-420	43.5	45	Layer 2	26.5				17.1
CLA	B-440	43.5	45	Layer 2	27.1				17.6
Unit 3	B-313	48.5	50	Layer 2	27.9				
Unit 3	B-314	48.5	50	Layer 2	25.4				
Unit 3	B-321	48.5	49.5	Layer 2	35.1				73
Unit 3	B-337	48.5	50	Layer 2	39.9				
CLA	B-420	48.5	50	Layer 2	28.4				
SITE	B-707	48.5	50	Layer 2	27				
CLA	B-440	51	53	Layer 2	30	30	21	9	18
CLA	B-404	52	53.5	Layer 2	27.7	NV	NP	NP	10.8
Unit 3	B-313	53.5	55	Layer 2	31.5	NP	NP	NP	
Unit 3	B-314	53.5	55	Layer 2	32.8	NV	NP	NP	
Unit 3	B-315	53.5	55	Layer 2	25.6	NV	NP	NP	
Unit 3	B-321	53.5	55	Layer 2	25	NV	NP	NP	14.3
Unit 3	B-337	53.5	55.5	Layer 2	25.7	38	19	19	39
CLA	B-420	53.5	55	Layer 2	28				
Unit 3	B-304	58.5	60	Layer 2	29.1	NV	NP	NP	12.4
Unit 3	B-314	58.5	60	Layer 2	33	NV	NP	NP	
Unit 3	B-321	58.5	60	Layer 2	27.4				18.6
Unit 3	B-331	58.5	60	Layer 2	26.6				
Unit 3	B-333	58.5	60	Layer 2	34.5				
CLA	B-420	58.5	60	Layer 2	34.9				
Unit 3	B-304	63.5	65	Layer 2	29.4	30	23	7	14.6
Unit 3	B-314	63.5	65	Layer 2	40.3	59	24	35	
Unit 3	B-315	63.5	65	Layer 2	29.4	NV	NP	NP	11.9
Unit 3	B-321	63.5	65	Layer 2	27.6				
Unit 3	B-328	63.5	65.5	Layer 2	44.2	72	41	31	87
Unit 3	B-339	63.5	65	Layer 2	25	49	21	28	15.5
CLA	B-407	63.5	65	Layer 2	28.1				
CLA	B-411	63.5	65	Layer 2	34.4				11.4
CLA	B-420	63.5	65.5	Layer 2	28.3	49	11	38	19.1
Utility Corridor	B-785	63.5	65	Layer 2	43.4				88.7
Unit 3	B-304	68.5	70	Layer 2	29.5				
Unit 3	B-321	68.5	70	Layer 2	28.4				16
Unit 3	B-328	68.5	70	Layer 2	29.4	NV	NP	NP	
Unit 3	B-339	68.5	70	Layer 2	38.8	53	38	15	

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-407	68.5	70	Layer 2	30				11.4
Cooling Tower Area	B-738	68.5	70	Layer 2	30.9				
SITE	B-746	68.5	70	Layer 2	24.8				
Utility Corridor	B-785	68.5	70	Layer 2	38.1	49	24	25	
Unit 3	B-315	73.5	75	Layer 2	36.3	58	18	40	
Unit 3	B-321	73.5	75.5	Layer 2	28.5	NV	NP	NP	15.3
Unit 3	B-328	73.5	75	Layer 2	32.2	NV	NP	NP	
Unit 3	B-331	73.5	75	Layer 2	35.8				
Unit 3	B-334	73.5	75	Layer 2	27.3				12.6
Unit 3	B-337	73.5	75	Layer 2	30.9				
CLA	B-407	73.5	75	Layer 2	27.3				
CLA	B-411	73.5	75	Layer 2	32				
CLA	B-416	73.5	75	Layer 2	29.5				
Cooling Tower Area	B-724	73.5	75.5	Layer 2	31.9	45	24	21	60.1
Cooling Tower Area	B-735	73.5	75	Layer 2	24.5				14.3
Unit 3	B-321	78.5	80	Layer 2	34.9				
Unit 3	B-301	83.5	85	Layer 2	26.5				21
Unit 3	B-334	83.5	85	Layer 2	28				13.8
Unit 3	B-336	83.5	85	Layer 2	27.3				
Unit 3	B-339	83.5	85	Layer 2	31.5				
CLA	B-407	83.5	85	Layer 2	38.3				14.8
CLA	B-411	83.5	85	Layer 2	36.4				
Switchyard	B-752	83.5	85	Layer 2	28				10.9
Unit 3	B-319	88.5	90	Layer 2	29.8				18.9
Unit 3	B-331	88.5	90	Layer 2	32.7				
Unit 3	B-339	88.5	90	Layer 2	29				11
CLA	B-416	88.5	90	Layer 2	33.5				
Unit 3	B-301	93.5	95	Layer 2	25.8				
Unit 3	B-316	93.5	95	Layer 2	32				17.7
Unit 3	B-320	93.5	95	Layer 2	25.4				15.1
Unit 3	B-339	93.5	95	Layer 2	31.7				
CLA	B-433	93.5	95	Layer 2	31.5				12.1
CLA	B-434	93.5	95	Layer 2	31.2	NV	NP	NP	
Unit 3	B-316	98.5	100	Layer 2	27.7				
Unit 3	B-319	98.5	100	Layer 2	30	NV	NP	NP	12.9
Unit 3	B-336	98.5	100	Layer 2	32.1				
Unit 3	B-339	98.5	100	Layer 2	32.7				
CLA	B-421	98.5	100	Layer 2	28.4				
CLA	B-434	98.5	100	Layer 2	25.6				
Unit 3	B-320	103.5	105	Layer 2	29.2				16.8
Unit 3	B-323	103.5	105	Layer 2	28.6	NV	NP	NP	10.6
CLA	B-421	103.5	105	Layer 2	26				
CLA	B-423	103.5	105.5	Layer 2	23.1	24	18	6	9.7
CLA	B-427	103.5	105	Layer 2	24.8				11.2
CLA	B-421	108.5	110	Layer 2	26.1	NV	NP	NP	14
CLA	B-423	108.5	110	Layer 2	30.8				

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-323	113.5	115	Layer 2	30.2				18.1
CLA	B-413	113.5	115	Layer 2	26.3				
CLA	B-421	113.5	115	Layer 2	31.7				18.4
CLA	B-413	118.5	120	Layer 2	32.5				16.2
CLA	B-421	118.5	120	Layer 2	27.8	NV	NP	NP	
CLA	B-427	118.5	120	Layer 2	29.2				24.2
CLA	B-413	123.5	125	Layer 2	35.1				
				Minimum	**9.4**	**NV**	**NP**	**NP**	**3.8**
				Maximum	**44.2**	**72.0**	**41.0**	**40.0**	**88.7**
				Average	**29.0**	**18.5**	**9.7**	**8.8**	**21.3**
				Standard Deviation	**5.5**	**23.8**	**12.6**	**13.0**	**18.3**
intake	B-774	11.5	13.1	Layer 3	17.6	22	12	10	34.1
intake	B-773	12.5	14	Layer 3	15.4	NV	NP	NP	
intake	B-774	13.1	13.6	Layer 3	15.6	NV	NP	NP	17.9
intake	B-773	15	16.5	Layer 3	22.4				
intake	B-774	15	16.5	Layer 3	18.7	NV	NP	NP	15.9
intake	B-774	16.5	18.5	Layer 3	22.1	20	19	1	8.4
Intake	B-701	18.5	20	Layer 3	28.2				21.1
intake	B-774	18.5	20	Layer 3	26.7	NV	NP	NP	15.4
Intake	B-821	18.5	20	Layer 3	20.2	NP	NP	NP	
intake	B-773	20	21.5	Layer 3	29.7	NV	NP	NP	35.9
intake	B-774	20	21.5	Layer 3	34.6	28	23	5	
intake	B-774	21.5	23.5	Layer 3	23.3	30	19	11	31.1
intake	B-773A	23	25	Layer 3	31.4	42	20	22	31.4
intake	B-771	23.5	25	Layer 3	37.4				
intake	B-774	23.5	25	Layer 3	22.8	NV	NP	NP	30.1
Intake	B-781	23.5	25	Layer 3	27	NV	NP	NP	25.4
Intake	B-821	23.5	25	Layer 3	29.1				14.6
intake	B-774	25	26.5	Layer 3	34.7	30	23	7	37.9
Intake	B-701	28.5	30	Layer 3	37.3				34.3
intake	B-771	28.5	30	Layer 3	17.6				
Intake	B-781	28.5	29.8	Layer 3	22.7	28	22	6	35.7
CLA	B-418	43.5	45	Layer 3	27.4				
SITE	B-709	48.5	50	Layer 3	23				
CLA	B-418	53.5	55	Layer 3	23.3				
Unit 3	B-313	63.5	64.9	Layer 3	26.2	33	17	16	
CLA	B-440	63.5	65	Layer 3	19.4				19.5
Unit 3	B-314	68.5	70	Layer 3	19.5	NV	NP	NP	
Unit 3	B-333	68.5	69	Layer 3	19.3				23.2
CLA	B-420	68.5	70	Layer 3	16.8				20.7
Unit 3	B-313	73.5	75	Layer 3	28.4				
Unit 3	B-314	73.5	75	Layer 3	27.9	NV	NP	NP	
CLA	B-420	73.5	75	Layer 3	24.4				
Cooling Tower Area	B-722	73.5	73.9	Layer 3	18.8				
Intake Slope	B-779	73.5	74.8	Layer 3	36.7				22.2
Unit 3	B-304	78.5	80	Layer 3	16.3	32	19	13	

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-314	78.5	79.4	Layer 3	36.5	NV	NP	NP	
Unit 3	B-333	78.5	80	Layer 3	28.7	NV	NP	NP	10.8
Unit 3	B-339	78.5	80	Layer 3	16.6				23.6
CLA	B-420	78.5	80	Layer 3	26.2	48	32	16	39.5
CLA	B-440	78.5	80	Layer 3	41				28.7
Intake Slope	B-779	81.5	83.4	Layer 3	23	26	19	7	15.1
Unit 3	B-304	83.5	85	Layer 3	21.8				
Unit 3	B-315	83.5	85	Layer 3	29.6	NV	NP	NP	
Unit 3	B-321	83.5	85	Layer 3	20.6				
Unit 3	B-328	83.5	84.9	Layer 3	21.2	NV	NP	NP	18.6
CLA	B-404	83.5	84.9	Layer 3	32.2	53	28	25	33.9
Intake Slope	B-779	83.5	85	Layer 3	22.4				14
Unit 3	B-304	88.5	90	Layer 3	38.7	49	28	21	35.9
Unit 3	B-321	88.5	90	Layer 3	31				30
Unit 3	B-337	88.5	89.9	Layer 3	21				
CLA	B-407	88.5	90	Layer 3	12.4				
Unit 3	B-304	93.5	95	Layer 3	33				
Unit 3	B-315	93.5	95	Layer 3	35.6				28.6
Unit 3	B-333	93.5	94.9	Layer 3	16.1				23.7
Intake Slope	B-779	96.5	98.5	Layer 3	27	32	20	12	16
Unit 3	B-334	98.5	100	Layer 3	28.9				16.6
CLA	B-407	98.5	100	Layer 3	30.8				
Switchyard	B-752	98.5	100	Layer 3	31.6				27.2
Intake Slope	B-779	98.5	100	Layer 3	34.6				
Intake Slope	B-779	100	102	Layer 3	28.3	39	17	22	23.8
Unit 3	B-301	103.5	105	Layer 3	17.8				
Unit 3	B-301	108.5	110	Layer 3	23.2				34.7
Unit 3	B-307	108.5	110	Layer 3	29.2	NV	NP	NP	9.8
Unit 3	B-320	113.5	115	Layer 3	28.5	44	16	28	
Unit 3	B-307	118.5	120	Layer 3	28.9	32	25	7	17.9
CLA	B-423	118.5	119.8	Layer 3	26.2	NV	NP	NP	19.6
Unit 3	B-307	123.5	124.7	Layer 3	29.8	35	19	16	30
Unit 3	B-323	123.5	125	Layer 3	19.4				
CLA	B-423	123.5	125	Layer 3	33.9				
CLA	B-413	128.5	130	Layer 3	18.7				
CLA	B-421	128.5	130	Layer 3	22				
CLA	B-423	128.5	130	Layer 3	31.9				21.4
CLA	B-427	128.5	130	Layer 3	31.4				
Unit 3	B-307	133.5	135	Layer 3	26				21.8
Unit 3	B-323	133.5	135	Layer 3	33.1				30.2
CLA	B-413	133.5	135	Layer 3	24.8				28.8
CLA	B-421	133.5	135	Layer 3	29				41.7
CLA	B-413	138.5	140	Layer 3	27.5				
CLA	B-413	143.5	145	Layer 3	32.1				
CLA	B-413	148.5	150	Layer 3	39.8				28.7
				Minimum	**12.4**	**NV**	**NP**	**NP**	**8.4**

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
				Maximum	**41.0**	**53.0**	**32.0**	**28.0**	**41.7**
				Average	**26.3**	**18.3**	**11.1**	**7.2**	**24.9**
				Standard Deviation	**6.6**	**18.8**	**11.2**	**8.8**	**8.5**
CLA	B-401	293.5	294.7	Nanjemoy sand	20.7				
Unit 3	B-301	303.5	305	Nanjemoy sand	24.8				44.6
CLA	B-401	307.5	309	Nanjemoy sand	27.4	57	42	15	16.3
Unit 3	B-301A	308	310	Nanjemoy sand	24.6	56	17	39	30
Unit 3	B-301	313.5	315	Nanjemoy sand	20				26.6
Unit 3	B-301A	318	320	Nanjemoy sand	13.4	36	14	22	32.3
CLA	B-401	318.5	320	Nanjemoy sand	28.9	58	28	30	
Unit 3	B-301	323.5	325	Nanjemoy sand	27.8				22.1
Unit 3	B-301A	328	330	Nanjemoy sand	27	79	20	59	13.9
Unit 3	B-301	333.5	335	Nanjemoy sand	31.8				
Unit 3	B-301A	338	340	Nanjemoy sand	44.5	66	22	44	14.1
CLA	B-401	338.5	340	Nanjemoy sand	25.3				
Unit 3	B-301	343.5	344.5	Nanjemoy sand	22.9	47	24	23	17.9
CLA	B-401	348.5	350.5	Nanjemoy sand	35.6	52	39	13	23
Unit 3	B-301	353.5	355	Nanjemoy sand	36.1	58	22	36	18
Unit 3	B-301	363.5	365	Nanjemoy sand	37.2	54	36	18	28.6
CLA	B-401	368.5	370	Nanjemoy sand	36.9				11.7
Unit 3	B-301	373.5	375	Nanjemoy sand	30.3	61	26	35	16
Unit 3	B-301	388.5	390	Nanjemoy sand	32.7				15.7
Unit 3	B-301	398.5	400	Nanjemoy sand	33.7				
CLA	B-401	400	401.5	Nanjemoy sand	33.1				18.2
				Minimum	**13.4**	**36.0**	**14.0**	**13.0**	**11.7**
				Maximum	**44.5**	**79.0**	**42.0**	**59.0**	**44.6**
				Average	**29.3**	**56.7**	**26.4**	**30.4**	**21.8**
				Standard Deviation	**7.1**	**10.8**	**9.1**	**14.0**	**8.7**
Unit 3	B-789	0	1.5	Stratum a	28.2				77.5
CLA	B-420	2.5	4	Stratum a	28.6	68	23	45	
SITE	B-707	2.5	4	Stratum a	27.3				
Unit 3	B-789	2.5	4	Stratum a	29.1				
Unit 3	B-313	5	6.5	Stratum a	27.6	67	21	46	
Unit 3	B-314	5	6.5	Stratum a	35	73	25	48	
CLA	B-420	5	6.5	Stratum a	29.7	64	22	42	89.7
Unit 3	B-789	5	6.5	Stratum a	26.6				
Utility Corridor	B-822	5	6.5	Stratum a	25.8				90.7
Unit 3	B-304	7.5	9	Stratum a	34.1	57	23	34	71.8
Unit 3	B-313	7.5	9	Stratum a	15.1	30	17	13	
Unit 3	B-314	7.5	9	Stratum a	41.2	59	21	38	
Unit 3	B-328	7.5	9	Stratum a	30				
CLA	B-420	7.5	9	Stratum a	38.3	71	19	52	
SITE	B-707	7.5	9	Stratum a	32.8	59	21	38	74.6
Unit 3	B-789	7.5	9	Stratum a	34.3				
Utility Corridor	B-822	7.5	9	Stratum a	23.1	53	21	32	
Unit 3	B-789	10	11.5	Stratum a	27.3				

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Utility Corridor	B-822	10	11.5	Stratum a	34.8				68.3
Unit 3	B-304	10.5	12	Stratum a	31.4	59	19	40	57.4
Unit 3	B-313	10.5	12	Stratum a	27				
Unit 3	B-314	10.5	12	Stratum a	26.2	73	25	48	
Unit 3	B-328	10.5	12	Stratum a	28.8	59	17	42	
CLA	B-401	10.5	12	Stratum a	26.6	66	20	46	85.3
Cooling Tower Area	B-737	10.5	12.5	Stratum a	37.6	75	23	52	92.9
Unit 3	B-789	12.5	14	Stratum a	25.4				
Unit 3	B-304	13.5	15	Stratum a	31.7	63	23	40	
Unit 3	B-313	13.5	15	Stratum a	31.5				
CLA	B-401	13.5	15	Stratum a	34.2	62	20	42	
CLA	B-411	13.5	15	Stratum a	31				
CLA	B-420	13.5	15	Stratum a	42.1	74	31	43	94.2
SITE	B-707	13.5	15	Stratum a	32.7				
Utility Corridor	B-822	13.5	15	Stratum a	39.2	45	22	23	
Unit 3	B-304	18.5	20	Stratum a	32.1	62	21	41	96.9
Unit 3	B-328	18.5	20	Stratum a	35.1	64	36	28	
Unit 3	B-331	18.5	20.5	Stratum a	30.8	57	23	34	97.1
Unit 3	B-334	18.5	20	Stratum a	31.3				
CLA	B-401	18.5	20	Stratum a	36.9	70	37	33	
CLA	B-420	18.5	20	Stratum a	28.6				
Utility Corridor	B-703	18.5	20.5	Stratum a	45.1				83.4
Unit 3	B-334	23	25	Stratum a	35.3	51	16	35	79
Unit 3	B-304	23.5	25	Stratum a	25.6	38	20	18	
Unit 3	B-321	23.5	25.5	Stratum a	26.2	45	18	27	99.7
Unit 3	B-328	23.5	25	Stratum a	33	77	28	49	
Unit 3	B-333	23.5	25	Stratum a	32	57	33	24	74.2
CLA	B-401	23.5	25	Stratum a	27.9	47	28	19	52.1
CLA	B-411	23.5	25.5	Stratum a	37.9	61	19	42	95
Cooling Tower Area	B-726	23.5	25.5	Stratum a	35.7	69	22	47	96
Cooling Tower Area	B-733	23.5	25.5	Stratum a	33.2	51	15	36	78
SITE	B-746	23.5	25	Stratum a	30.8	52	17	35	86.5
Cooling Tower Area	B-735	28	30	Stratum a	32.3	51	16	35	87.1
Unit 3	B-301	28.5	30	Stratum a	28.9	48	17	31	58.5
Unit 3	B-317	28.5	30.5	Stratum a	31.7	27	19	8	97.8
Unit 3	B-333	28.5	30.5	Stratum a	38.9	52	19	33	85.3
Unit 3	B-334	28.5	30	Stratum a	42.5				
Unit 3	B-336	28.5	30	Stratum a	26.9				
Unit 3	B-339	28.5	30	Stratum a	31.5	55	19	36	
CLA	B-407	28.5	30	Stratum a	35.1				
CLA	B-416	28.5	30	Stratum a	33.7	58	17	41	87.7
Cooling Tower Area	B-723	28.5	30.5	Stratum a	31.9	56	15	41	89.7
Utility Corridor	B-786A	28.5	30	Stratum a	47.6	75	33	42	88.5
Unit 3	B-791	28.5	30	Stratum a	34.6	59	23	36	78.9
Unit 3	B-334	33	35	Stratum a	32.6	47	13	34	95
Unit 3	B-301	33.5	35.5	Stratum a	31.1	59	17	42	80.5

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-317	33.5	35	Stratum a	30.2				
Unit 3	B-339	33.5	35	Stratum a	27	62	21	41	62.7
CLA	B-407	33.5	35	Stratum a	39.4	77	43	34	96
CLA	B-411	33.5	35	Stratum a	24.4				
SITE	B-746	33.5	35	Stratum a	34.8	64	24	40	93.6
Switchyard	B-747	33.5	35	Stratum a	34.2				77.5
Switchyard	B-752	33.5	35	Stratum a	29.1	52	23	29	67
Unit 3	B-316	38.5	40	Stratum a	28.5				
Unit 3	B-319	38.5	40	Stratum a	27.9				
Unit 3	B-333	38.5	40.5	Stratum a	39.7	61	23	38	98.8
Unit 3	B-339	38.5	40	Stratum a	28.6	71	17	54	
CLA	B-433	38.5	40.5	Stratum a	33.5	61	14	47	91
Cooling Tower Area	B-723	38.5	40.5	Stratum a	33.9	64	19	45	95.2
Switchyard	B-747	38.5	40	Stratum a	32.6				81.5
Switchyard	B-752	38.5	40	Stratum a	33.1	63	31	32	80.4
Intake Slope	B-779	41.5	43.5	Stratum a	22.7	69	19	50	87.8
Unit 3	B-316	43.5	45.5	Stratum a	28.6	44	16	28	71
Unit 3	B-319	43.5	45.2	Stratum a	32.1	58	13	45	87
Unit 3	B-320	43.5	45	Stratum a	30	56	19	37	60.7
Unit 3	B-326	43.5	45.5	Stratum a	33.9	63	22	41	89.3
Unit 3	B-339	43.5	45	Stratum a	31	60	22	38	86.9
CLA	B-423	43.5	45	Stratum a	30.9	55	20	35	73
CLA	B-433	43.5	45	Stratum a	33.5	59	22	37	
Cooling Tower Area	B-722	43.5	45	Stratum a	37.1				
Cooling Tower Area	B-735	43.5	45	Stratum a	39.6	85	30	55	98.5
Switchyard	B-747	43.5	45	Stratum a	27.5				
Switchyard	B-752	43.5	45	Stratum a	37.1	71	26	45	
Utility Corridor	B-785	43.5	45	Stratum a	35.9	66	31	35	97.5
Unit 3	B-301	48.5	50	Stratum a	29.6				
Unit 3	B-316	48.5	50	Stratum a	38				69.5
Unit 3	B-319	48.5	50	Stratum a	38.6	79	27	52	
Unit 3	B-320	48.5	50	Stratum a	34.4	59	19	40	81.5
Unit 3	B-323	48.5	50	Stratum a	28.1	50	17	33	51
Unit 3	B-336	48.5	50	Stratum a	25.9				
CLA	B-421	48.5	50.5	Stratum a	28.8	50	18	32	69.5
CLA	B-423	48.5	50	Stratum a	36.6	61	16	45	
CLA	B-433	48.5	50.5	Stratum a	33.6	64	23	41	94.5
CLA	B-434	48.5	50	Stratum a	38.2	73	24	49	
Cooling Tower Area	B-738	48.5	50	Stratum a	32.1				
Switchyard	B-747	48.5	50	Stratum a	39.4				
Switchyard	B-752	48.5	50	Stratum a	40.3	68	24	44	
Intake Slope	B-778	48.5	50	Stratum a	36.9	63	30	33	94.2
Utility Corridor	B-785	48.5	50	Stratum a	33.1	41	19	22	63.7
Intake Slope	B-778	51.5	53.5	Stratum a	32.3	NV	NP	NP	53.2
Unit 3	B-307	53.5	55	Stratum a	28.1				
Unit 3	B-316	53.5	55.5	Stratum a	26.2	33	11	22	50

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-320	53.5	55	Stratum a	34.9	69	24	45	
CLA	B-413	53.5	55	Stratum a	25.7	56	27	29	
CLA	B-421	53.5	55	Stratum a	29.6				
CLA	B-423	53.5	55	Stratum a	38.1	80	34	46	81.2
CLA	B-433	53.5	55	Stratum a	21	45	18	27	
CLA	B-434	53.5	55.5	Stratum a	87.8	56	23	33	94.9
Cooling Tower Area	B-722	53.5	55	Stratum a	41.9				
Switchyard	B-747	53.5	55	Stratum a	48.6	78	47	31	76.1
Intake Slope	B-779	53.5	55.5	Stratum a	30.1	40	20	20	43.1
CLA	B-425	57	59	Stratum a	31.2	55	25	30	81.8
CLA	B-414	58	60	Stratum a	33.2	58	19	39	84.9
Unit 3	B-307	58.5	60	Stratum a	33.1	62	20	42	60.5
Unit 3	B-323	58.5	60	Stratum a	35.1	65	22	43	89.1
CLA	B-413	58.5	60	Stratum a	27.5	58	29	29	70.5
CLA	B-415	58.5	60	Stratum a	36.6	61	21	40	93.3
CLA	B-421	58.5	60.5	Stratum a	34.2	78	32	46	86.9
CLA	B-423	58.5	60	Stratum a	33.8	78	45	33	
CLA	B-434	58.5	60	Stratum a	36.6	86	22	64	94.7
Switchyard	B-747	58.5	60	Stratum a	35	53	16	37	
Intake Slope	B-779	58.5	60	Stratum a	40.1				65.2
CLA	B-425	60	61.5	Stratum a	35.1	63	21	42	
CLA	B-428	60	62	Stratum a	37.1	61	17	44	92.6
Intake Slope	B-778	61.5	63.5	Stratum a	23.7	50	17	33	95.9
Intake Slope	B-779	61.5	63.5	Stratum a	42.3	68	19	49	88.2
Unit 3	B-307	63.5	65	Stratum a	35.5	52	18	34	
CLA	B-406	63.5	65.5	Stratum a	36.1	63	19	44	90.1
CLA	B-414	63.5	65	Stratum a	38.3				
CLA	B-421	63.5	65	Stratum a	28.6				
CLA	B-423	63.5	65	Stratum a	21.9	37	27	10	
CLA	B-427	63.5	65.5	Stratum a	32.8	56	18	38	61.3
Cooling Tower Area	B-722	63.5	65	Stratum a	47.5				
Intake Slope	B-778	63.5	63.8	Stratum a	21.5				24.8
CLA	B-425	65	67	Stratum a	39.5	69	28	41	89.6
Unit 3	B-306	68	70	Stratum a	30.7	62	24	38	98.6
CLA	B-414	68	70	Stratum a	36.7	51	15	36	96.8
Unit 3	B-307	68.5	70	Stratum a	34	66	23	43	98.5
Cooling Tower Area	B-729	68.5	70.5	Stratum a	32.8	56	18	38	92.7
Intake Slope	B-778	68.5	70	Stratum a	37.1	54	22	32	51.2
Intake Slope	B-779	68.5	70	Stratum a	39.2				72.5
CLA	B-425	70	71.5	Stratum a	38.4	77	42	35	
Intake Slope	B-778	71.5	73.5	Stratum a	48.2	66	18	48	85.6
Intake Slope	B-779	71.5	73.5	Stratum a	34.2	51	20	31	63.6
CLA	B-413	73	75	Stratum a	35.5	51	15	36	97.5
CLA	B-414	73.5	75	Stratum a	22.9	39	20	19	52.8
				Minimum	**15.1**	**NV**	**NP**	**NP**	**24.8**
				Maximum	**87.8**	**86.0**	**47.0**	**64.0**	**99.7**

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
				Average	**33.2**	**59.3**	**22.2**	**37.1**	**80.7**
				Standard Deviation	**7.1**	**12.6**	**6.9**	**10.0**	**15.7**
intake	B-773	25	26.5	Stratum c	41				
intake	B-774	27.5	29	Stratum c	44.3	40	22	18	46.5
intake	B-775	27.5	29	Stratum c	36.2	34	23	11	33.8
intake	B-773	30	31.5	Stratum c	37.9	NV	NP	NP	
intake	B-774	30	31.5	Stratum c	34.5	36	21	15	
intake	B-775	30	31.5	Stratum c	24.6				
intake	B-771	31.5	33.5	Stratum c	28.5	36	23	13	
intake	B-774	31.5	33.5	Stratum c	31.2	42	22	20	20.3
intake	B-775	32.5	34	Stratum c	41.4				12.9
intake	B-771	33.5	35	Stratum c	36.7				
intake	B-774	33.5	35	Stratum c	37.4	30	25	5	
Intake	B-782	33.5	35	Stratum c	35.2				36.5
intake	B-773	35	36.5	Stratum c	55.8				
intake	B-774	35	36.5	Stratum c	37.6	37	24	13	
intake	B-775	35	36.5	Stratum c	41.2				
intake	B-774	37.5	39	Stratum c	59.4	82	51	31	59.4
intake	B-775	37.5	39	Stratum c	39.9				26.6
intake	B-771	38.5	40	Stratum c	57.7				
Intake	B-781	38.5	40	Stratum c	58.5	83	36	47	
Intake	B-782	38.5	40	Stratum c	40.3				23.4
intake	B-773	40	41.5	Stratum c	40.8	45	24	21	
intake	B-774	40	41.5	Stratum c	46.4	75	31	44	
intake	B-775	40	41.5	Stratum c	59.9				
intake	B-771	41.5	43.5	Stratum c	33	59	18	41	31.8
intake	B-774	41.5	43.5	Stratum c	38.2	56	19	37	31
intake	B-775	42.5	44	Stratum c	43.9				39.6
Intake	B-701	43.5	44.9	Stratum c	37.3	54	33	21	64.1
intake	B-771	43.5	45	Stratum c	40.1				
intake	B-774	43.5	45	Stratum c	45.7	46	23	23	
Intake	B-781	43.5	45	Stratum c	40.6	46	23	23	
Intake	B-782	43.5	45	Stratum c	43.4				41.5
intake	B-773	45	46.5	Stratum c	35.8				
intake	B-774	45	46.5	Stratum c	47.1	57	22	35	
intake	B-775	45	46.5	Stratum c	39.1				
Intake	B-782	47.3	48.8	Stratum c	51.2	45	23	22	
intake	B-774	47.5	49	Stratum c	31.9	NV	NP	NP	
intake	B-775	47.5	49	Stratum c	42.3				
Intake	B-701	48.5	50	Stratum c	33.1				17.5
intake	B-771	48.5	50	Stratum c	30.3				
Intake	B-781	48.5	50	Stratum c	36.9	NV	NP	NP	
intake	B-773	50	51.5	Stratum c	44.3	65	33	32	
intake	B-774	50	51.5	Stratum c	34.3	NV	NP	NP	15.8
intake	B-775	50	51.5	Stratum c	34.5	42	25	17	23.4
Intake	B-782	50	51.5	Stratum c	41.9	NV	NP	NP	

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
intake	B-771	51.5	53.5	Stratum c	27.8	52	19	33	35.4
intake	B-774	51.5	53.5	Stratum c	39.2	63	20	43	53
intake	B-775	52.5	54	Stratum c	31				
Intake	B-701	53.5	55	Stratum c	42.5				
intake	B-771	53.5	55	Stratum c	40.6				
intake	B-773	55	56.5	Stratum c	46.4	80	44	36	
intake	B-775	55	56.5	Stratum c	34.8				
intake	B-775	57.5	59	Stratum c	44				
Intake	B-701	58.5	60	Stratum c	55.7				
intake	B-771	58.5	60	Stratum c	62.8				
intake	B-773	60	61.5	Stratum c	47.3	66	37	29	
intake	B-775	60	61.5	Stratum c	46.7	64	28	36	
intake	B-771	61.5	63.5	Stratum c	43.9	64	21	43	57.6
intake	B-775	62.5	64	Stratum c	58.5	84	35	49	
CLA	B-418	63.5	65	Stratum c	32.1				
Intake	B-701	63.5	65	Stratum c	40.4				
intake	B-771	63.5	65	Stratum c	40.8				
intake	B-773	65	66.5	Stratum c	41.6	64	27	37	
intake	B-775	65	66.5	Stratum c	44.2	44	25	19	
intake	B-775	67.5	69	Stratum c	39.6				
Intake	B-701	68.5	70	Stratum c	48				
intake	B-771	68.5	70	Stratum c	45.2				
intake	B-773	70	71.5	Stratum c	38.3	58	31	27	45
intake	B-775	70	71.5	Stratum c	40.9				
intake	B-771	71.5	73.5	Stratum c	33.4	55	21	34	38.6
intake	B-775	72.5	74	Stratum c	42.2				
CLA	B-418	73.5	75	Stratum c	41.7				
intake	B-771	73.5	75	Stratum c	41	64	26	38	49
intake	B-773	75	76.5	Stratum c	67.5	103	45	58	
intake	B-775	75	76.5	Stratum c	49.8				45
intake	B-775	77.5	79	Stratum c	66.2	90	38	52	
intake	B-771	78.5	80	Stratum c	71.2	122	74	48	79.4
intake	B-773	80	81.5	Stratum c	77.2	132	53	79	
intake	B-775	80	81.5	Stratum c	74				
intake	B-771	81.5	83.5	Stratum c	68.5	136	37	99	98.3
intake	B-774	81.5	83.5	Stratum c	68.9	136	38	98	96.3
intake	B-775	82.5	84	Stratum c	72.8				
intake	B-773A	83	85	Stratum c	70.7	143	33	110	89.9
Unit 3	B-313	83.5	85	Stratum c	37.3				
Unit 3	B-314	83.5	85	Stratum c	41.2	57	36	21	
CLA	B-420	83.5	85	Stratum c	47.3	60	39	21	
intake	B-771	83.5	85	Stratum c	73.9	119	65	54	62.9
intake	B-773	85	86.5	Stratum c	69.5	123	57	66	
intake	B-775	85	86.5	Stratum c	75.8	118	48	70	
intake	B-775	87.5	89	Stratum c	66.8				
Unit 3	B-313	88.5	90	Stratum c	55	98	47	51	

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-314	88.5	90	Stratum c	34.3	68	20	48	
Unit 3	B-328	88.5	90	Stratum c	34	47	31	16	
CLA	B-418	88.5	90	Stratum c	49.8	76	49	27	
CLA	B-420	88.5	90	Stratum c	55.3	90	35	55	
intake	B-771	88.5	90	Stratum c	63.6	96	54	42	65.4
intake	B-773	90	91.5	Stratum c	84.1	129	50	79	
intake	B-775	90	91.5	Stratum c	63.9				
intake	B-771	91.5	93.5	Stratum c	68.6	140	32	108	78
intake	B-775	92.5	94	Stratum c	67.1	110	50	60	
intake	B-773A	93	95	Stratum c	54	116	26	90	74.4
Unit 3	B-313	93.5	94.7	Stratum c	35.6	49	25	24	
Unit 3	B-314	93.5	95	Stratum c	36.4				
Unit 3	B-321	93.5	95	Stratum c	36.9	59	26	33	32.2
CLA	B-411	93.5	95	Stratum c	31.6				
CLA	B-420	93.5	95	Stratum c	39.4				
intake	B-771	93.5	95	Stratum c	67.3	110	71	39	53.9
CLA	B-409	95	96.5	Stratum c	33.1	61	42	19	37.6
intake	B-773	95	96.5	Stratum c	41.6	73	32	41	45.6
intake	B-775	95	96.5	Stratum c	76.1				
Unit 3	B-304	98.5	99.5	Stratum c	42.1	79	29	50	47.3
Unit 3	B-313	98.5	100	Stratum c	32.4	42	28	14	
Unit 3	B-314	98.5	100	Stratum c	31				
Unit 3	B-321	98.5	100	Stratum c	36.1				29.8
Unit 3	B-328	98.5	100	Stratum c	38.2	53	34	19	
CLA	B-401	98.5	99.8	Stratum c	50.5	78	48	30	64.8
CLA	B-418	98.5	100	Stratum c	36.7	46	25	21	
CLA	B-420	98.5	100	Stratum c	34.8	49	30	19	
intake	B-771	98.5	100	Stratum c	48.7	92	52	40	74.7
intake	B-775	98.5	100	Stratum c	41.5	54	24	30	
intake	B-773	100	101.5	Stratum c	54.2	97	58	39	59.3
intake	B-775	101	102.5	Stratum c	66.8				
intake	B-774	101.5	103.5	Stratum c	46	94	24	70	88.4
intake	B-773A	103	105	Stratum c	22.4	110	25	85	79.9
Unit 3	B-304	103.5	105	Stratum c	44				35.4
Unit 3	B-313	103.5	105	Stratum c	43.4	70	45	25	
Unit 3	B-321	103.5	105	Stratum c	58.2				
Unit 3	B-328	103.5	105	Stratum c	62.7				36.6
CLA	B-411	103.5	105	Stratum c	38.2	43	30	13	
CLA	B-420	103.5	105	Stratum c	38.5	57	42	15	38.1
intake	B-773	105	106.5	Stratum c	59.1	109	59	50	
Unit 3	B-304	108.5	110	Stratum c	33.8				28.2
Unit 3	B-313	108.5	110	Stratum c	57.7	106	55	51	
Unit 3	B-321	108.5	110	Stratum c	42.6				
CLA	B-401	108.5	110	Stratum c	35.6				34.2
CLA	B-407	108.5	110	Stratum c	47.8				56.2
CLA	B-418	108.5	110	Stratum c	39.8	55	38	17	

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-420	108.5	110	Stratum c	46.4	80	51	29	
intake	B-773	110	111.5	Stratum c	78.5	128	79	49	
intake	B-774	111.5	113.5	Stratum c	94.5	131	29	102	69.8
intake	B-773A	113	115	Stratum c	32.1	43	22	21	24.3
Unit 3	B-304	113.5	115	Stratum c	43.9				36.3
Unit 3	B-313	113.5	115	Stratum c	44.3	72	46	26	
Unit 3	B-321	113.5	115	Stratum c	34.6				36.3
Unit 3	B-327	113.5	115.5	Stratum c	44.3	60	24	36	51.9
Unit 3	B-328	113.5	115	Stratum c	30.5				
CLA	B-401	113.5	115	Stratum c	46.1				
CLA	B-411	113.5	115	Stratum c	40.4				
CLA	B-420	113.5	115	Stratum c	64.9	118	38	80	
intake	B-773	115	116.5	Stratum c	35.5	NV	NP	NP	11
Unit 3	B-301	118.5	120	Stratum c	33.1				19.6
Unit 3	B-304	118.5	120	Stratum c	47.9				
Unit 3	B-313	118.5	120	Stratum c	43.5	81	42	39	
Unit 3	B-321	118.5	120	Stratum c	39.8				
Unit 3	B-328	118.5	120	Stratum c	44.7				
CLA	B-407	118.5	120	Stratum c	34.2				
CLA	B-420	118.5	120	Stratum c	41.6	65	40	25	
intake	B-773	120	121.5	Stratum c	42.4	49	34	15	28.2
intake	B-774	121.5	123.5	Stratum c	33.9	42	25	17	21.5
intake	B-773A	123	125	Stratum c	40	59	26	33	34.4
Unit 3	B-304	123.5	125	Stratum c	60.2				
Unit 3	B-313	123.5	124.3	Stratum c	33.1	44	26	18	
Unit 3	B-321	123.5	125	Stratum c	43.1				
Unit 3	B-328	123.5	125.5	Stratum c	45.6	77	45	32	82.6
CLA	B-401	123.5	124.8	Stratum c	57.4	85	54	31	82.4
CLA	B-407	123.5	125	Stratum c	42.2				
CLA	B-411	123.5	125	Stratum c	42.7	63	43	20	
CLA	B-418	123.5	125	Stratum c	56.4	106	41	65	
CLA	B-420	123.5	125	Stratum c	47.5	83	29	54	
intake	B-773	125	126.5	Stratum c	45.3	60	35	25	
Unit 3	B-301	128.5	130	Stratum c	42.3				32.3
Unit 3	B-304	128.5	130	Stratum c	34.9				42.7
Unit 3	B-313	128.5	130	Stratum c	66	132	60	72	
Unit 3	B-320	128.5	130	Stratum c	34.1	50	30	20	
Unit 3	B-321	128.5	130	Stratum c	49.5				60.8
CLA	B-401	128.5	130	Stratum c	43.8				56.6
CLA	B-420	128.5	130.3	Stratum c	39	59	34	25	50.1
intake	B-773	130	131.5	Stratum c	46.7	69	36	33	
intake	B-774	131.5	133.5	Stratum c	36.3	70	24	46	41.9
Unit 3	B-304	133.5	135	Stratum c	45				
Unit 3	B-313	133.5	135	Stratum c	69.1				
Unit 3	B-321	133.5	135	Stratum c	42.3				
Unit 3	B-328	133.5	135	Stratum c	48.2	70	51	19	52.8

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-420	133.5	135	Stratum c	73.4	147	75	72	76.6
CLA	B-423	133.5	135	Stratum c	37.1				
intake	B-773	135	136.5	Stratum c	49.4	73	42	31	
Unit 3	B-304	138.5	139.3	Stratum c	36.5	43	26	17	45.7
Unit 3	B-313	138.5	140	Stratum c	62.9	106	51	55	
Unit 3	B-321	138.5	140	Stratum c	39.7				
CLA	B-401	138.5	140.5	Stratum c	44.1	80	31	49	67.5
CLA	B-407	138.5	140	Stratum c	49.2				43.3
CLA	B-418	138.5	140	Stratum c	64.4	103	63	40	
CLA	B-420	138.5	140	Stratum c	78.8	145	76	69	
CLA	B-421	138.5	140	Stratum c	38.5	53	25	28	
CLA	B-423	138.5	140	Stratum c	45.1				43.2
CLA	B-427	138.5	140	Stratum c	38.5				29.8
intake	B-773	140	141.5	Stratum c	58.8	91	50	41	
intake	B-774	141.5	143.5	Stratum c	50	90	24	66	52
Unit 3	B-301	143.5	145	Stratum c	45				55.5
Unit 3	B-304	143.5	145	Stratum c	70	134	49	85	91.3
Unit 3	B-307	143.5	145	Stratum c	36.8	59	33	26	
Unit 3	B-313	143.5	145	Stratum c	49.1				
Unit 3	B-321	143.5	145	Stratum c	60.2				84.6
Unit 3	B-323	143.5	145	Stratum c	48.3	73	38	35	52.1
Unit 3	B-328	143.5	145	Stratum c	59.3				
CLA	B-401	143.5	145	Stratum c	77.1	142	104	38	
CLA	B-407	143.5	145	Stratum c	56.4	92	63	29	
CLA	B-420	143.5	145	Stratum c	58.9	107	56	51	75.4
CLA	B-421	143.5	145	Stratum c	46.8				
CLA	B-423	143.5	145	Stratum c	38.9				
intake	B-773	145	146.5	Stratum c	56	97	55	42	55.7
Unit 3	B-301	148.5	150	Stratum c	62.2	114	55	59	
Unit 3	B-304	148.5	150	Stratum c	72.1				
Unit 3	B-307	148.5	150	Stratum c	50.6				
Unit 3	B-313	148.5	150	Stratum c	49.4	103	30	73	
Unit 3	B-320	148.5	150	Stratum c	37				47.7
Unit 3	B-321	148.5	150	Stratum c	66				
Unit 3	B-328	148.5	150	Stratum c	74.8	134	100	34	
CLA	B-401	148.5	150	Stratum c	72.7	150	89	61	86.6
CLA	B-407	148.5	150	Stratum c	43.1	81	45	36	
CLA	B-418	148.5	150	Stratum c	52.6	69	27	42	
CLA	B-420	148.5	150	Stratum c	74.2	127	100	27	61.3
CLA	B-421	148.5	150	Stratum c	47.4				
CLA	B-423	148.5	150	Stratum c	32.8				32.9
CLA	B-427	148.5	150	Stratum c	44.3				33.1
intake	B-773	148.5	150	Stratum c	66.8	112	63	49	68.6
Unit 3	B-301	153.5	155	Stratum c	34				45.4
Unit 3	B-304	153.5	155	Stratum c	70.9				
Unit 3	B-307	153.5	155	Stratum c	38.8	58	37	21	24.4

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-323	153.5	155	Stratum c	31.3	39	30	9	
CLA	B-401	153.5	155	Stratum c	68.8	142	93	49	
CLA	B-423	153.5	155	Stratum c	44.9				
Unit 3	B-301	158.5	159.6	Stratum c	38.7	76	30	46	99.5
Unit 3	B-304	158.5	160	Stratum c	55.1	92	53	39	59.1
CLA	B-401	158.5	159.3	Stratum c	49.9	81	54	27	59.2
CLA	B-407	158.5	160	Stratum c	78.4				
CLA	B-423	158.5	160	Stratum c	44.9	74	18	56	87.6
Unit 3	B-304	163.5	165	Stratum c	47.2				
Unit 3	B-323	163.5	165	Stratum c	54.2				63.3
CLA	B-407	163.5	165	Stratum c	62.7	120	50	70	
CLA	B-423	163.5	165	Stratum c	59.7				
Unit 3	B-301	168.5	170.4	Stratum c	65.4	112	39	73	66.2
Unit 3	B-304	168.5	170	Stratum c	62.9				
CLA	B-401	168.5	170	Stratum c	53.9	103	52	51	71.8
CLA	B-407	168.5	170	Stratum c	55.2	104	69	35	
CLA	B-418	168.5	170	Stratum c	57.3	76	49	27	
CLA	B-423	168.5	170	Stratum c	41				
Unit 3	B-304	173.5	175	Stratum c	84	158	84	74	94
Unit 3	B-323	173.5	175	Stratum c	44	97	31	66	56.9
CLA	B-401	173.5	174.4	Stratum c	33.7	57	17	40	98.2
CLA	B-407	173.5	175	Stratum c	53.7	102	37	65	
CLA	B-423	173.5	175	Stratum c	49.7				
Unit 3	B-301	178.5	180	Stratum c	60.4	111	47	64	60
Unit 3	B-304	178.5	180	Stratum c	27.5				
Unit 3	B-307	178.5	180.4	Stratum c	33.5	41	25	16	37.7
CLA	B-407	178.5	180	Stratum c	50.9	102	40	62	
CLA	B-423	178.5	179.5	Stratum c	41.5	64	34	30	46.4
Unit 3	B-344	181.5	183.5	Stratum c	30.6	44	23	21	29.1
Unit 3	B-304	183.5	185	Stratum c	39.2				43.6
Unit 3	B-323	183.5	185	Stratum c	68.3	124	33	91	94
CLA	B-401	183.5	185	Stratum c	31.2				32.2
CLA	B-407	183.5	185	Stratum c	82.2	154	97	57	59.1
CLA	B-418	183.5	185	Stratum c	56.7	100	60	40	
CLA	B-423	183.5	185	Stratum c	73.3				
Unit 3	B-304	188.5	190	Stratum c	42.8				
Unit 3	B-307	188.5	190	Stratum c	43	61	39	22	45.6
CLA	B-407	188.5	190	Stratum c	32.6				
CLA	B-423	188.5	180	Stratum c	72.4	111	70	41	90.6
Unit 3	B-301	193.5	195	Stratum c	53.2	98	45	53	
Unit 3	B-304	193.5	195	Stratum c	51.1				
Unit 3	B-323	193.5	195	Stratum c	58.1	116	36	80	70.3
CLA	B-401	193.5	195	Stratum c	49.2				
CLA	B-407	193.5	195	Stratum c	31.6				
CLA	B-423	193.5	195	Stratum c	71				
Unit 3	B-301A	198	200	Stratum c	64.1	115	25	90	91.3

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-301	198.5	200	Stratum c	82.6	157	71	86	79
Unit 3	B-304	198.5	200	Stratum c	55.8				55.9
Unit 3	B-323	198.5	200	Stratum c	52.9	97	62	35	
CLA	B-401	198.5	200.3	Stratum c	48.8	82	55	27	45.3
CLA	B-407	198.5	200	Stratum c	32.7				22.4
CLA	B-418	198.5	200	Stratum c	66.5	109	71	38	
Unit 3	B-307	200	201.5	Stratum c	68.7	137	61	76	66.2
CLA	B-423	200	201.5	Stratum c	45.3				
Unit 3	B-301	203.5	205	Stratum c	27.5				
CLA	B-401	203.5	205	Stratum c	58.4	94	69	25	
Unit 3	B-344	204	206	Stratum c	47.2	81	25	56	51.9
Unit 3	B-301	208.5	210	Stratum c	32.4				
CLA	B-401	208.5	210	Stratum c	62.7	113	74	39	64.5
Unit 3	B-301A	218	220	Stratum c	38.8	66	26	40	37.7
Unit 3	B-301	218.5	220	Stratum c	47.9				50.7
CLA	B-401	218.5	220	Stratum c	77.4				64.6
Unit 3	B-344	221.5	223.5	Stratum c	65.5	119	31	88	84.3
Unit 3	B-301	228.5	230	Stratum c	54				46.9
CLA	B-401	228.5	229.6	Stratum c	58.6	139	88	51	80.4
Unit 3	B-301A	238	240	Stratum c	49.2	96	26	70	68.7
Unit 3	B-301	238.5	240	Stratum c	56.8				72.9
CLA	B-401	238.5	240	Stratum c	122.5				
Unit 3	B-344	241.5	243.5	Stratum c	41.3	176	50	126	95.6
CLA	B-401	243.5	244.4	Stratum c	96.2	140	65	75	98.7
CLA	B-401	248.5	250	Stratum c	122.8	218	100	118	
Unit 3	B-301	253.5	255	Stratum c	72.7	137	87	50	64.6
Unit 3	B-301A	258	260	Stratum c	58.6	113	31	82	70.8
CLA	B-401	258.5	260	Stratum c	130.2				
Unit 3	B-301	263.5	265	Stratum c	100.9				85.2
Unit 3	B-301A	268	270	Stratum c	85.7	182	49	133	96.3
CLA	B-401	268.5	270	Stratum c	63.5				43
Unit 3	B-301	273.5	275	Stratum c	102	199	119	80	
Unit 3	B-301A	278	280	Stratum c	109.8	187	54	133	94.8
Unit 3	B-301	283.5	285	Stratum c	91.3				73.5
CLA	B-401	284.5	286	Stratum c	30.2	76	42	34	
Unit 3	B-301A	288	290	Stratum c	57.4	115	30	85	69.8
Unit 3	B-301	293.5	295	Stratum c	64.4	117	73	44	73.1
Unit 3	B-301A	298	300	Stratum c	94.2	135	35	100	93.1
				Minimum	**22.4**	**NV**	**NP**	**NP**	**11.0**
				Maximum	**130.2**	**218.0**	**119.0**	**133.0**	**99.5**
				Average	**50.7**	**86.0**	**41.6**	**44.3**	**55.8**
				Standard Deviation	**17.0**	**39.3**	**21.4**	**27.0**	**22.7**
Unit 3	B-304	0	1.5	Terrace Sand	17.1				
Unit 3	B-313	0	1.5	Terrace Sand	9.9				
Unit 3	B-334	0	1.5	Terrace Sand	9.6				11.2
CLA	B-421	0	1.5	Terrace Sand	11.6				

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-425	0	1.5	Terrace Sand	13.7				
Utility Corridor	B-786	0	1.5	Terrace Sand	0.5				10.3
Utility Corridor	B-822	0	1.5	Terrace Sand	9.4				15.1
Unit 3	B-314	0.4	1.9	Terrace Sand	9.7				
Unit 3	B-301	2.5	4	Terrace Sand	6.6				8.1
Unit 3	B-304	2.5	4	Terrace Sand	25.9				
Unit 3	B-313	2.5	4	Terrace Sand	11.8	19	14	5	
Unit 3	B-314	2.5	4	Terrace Sand	14.1	NV	NP	NP	
Unit 3	B-316	2.5	4	Terrace Sand	19.1	35	16	19	
Unit 3	B-319	2.5	4	Terrace Sand	5.7				8.1
Unit 3	B-320	2.5	4	Terrace Sand	10.4				
Unit 3	B-321	2.5	4	Terrace Sand	9.7				31
Unit 3	B-323	2.5	4	Terrace Sand	5				
Unit 3	B-328	2.5	4	Terrace Sand	4.5	NV	NP	NP	8.7
Unit 3	B-333	2.5	4	Terrace Sand	6.2				6.9
CLA	B-401	2.5	4	Terrace Sand	3.6				
CLA	B-407	2.5	4	Terrace Sand	4.8	NV	NP	NP	
CLA	B-411	2.5	4	Terrace Sand	6.8				
CLA	B-421	2.5	4	Terrace Sand	14.8				
CLA	B-423	2.5	4	Terrace Sand	4.9				12.5
CLA	B-427	2.5	4	Terrace Sand	9.4				30.6
Cooling Tower Area	B-729	2.5	4	Terrace Sand	16				
Cooling Tower Area	B-735	2.5	4	Terrace Sand	7.6				6.2
SITE	B-746	2.5	4	Terrace Sand	14.4				
Switchyard	B-747	2.5	4	Terrace Sand	7.5				36.2
Switchyard	B-752	2.5	4	Terrace Sand	5.9				10
Utility Corridor	B-786	2.5	4	Terrace Sand	8.1				42.2
Utility Corridor	B-822	2.5	4	Terrace Sand	11.7				42.3
CLA	B-425	3.5	5	Terrace Sand	7.3				7.9
Unit 3	B-304	5	6.5	Terrace Sand	29.4				
Unit 3	B-307	5	6.5	Terrace Sand	11.6				38.4
Unit 3	B-321	5	6.5	Terrace Sand	7.4				
Unit 3	B-326	5	6.5	Terrace Sand	8.2				
Unit 3	B-331	5	6.5	Terrace Sand	20.2	43	15	28	66.9
Unit 3	B-334	5	6.5	Terrace Sand	15.9				21.3
Unit 3	B-339	5	6.5	Terrace Sand	6.9				4.6
CLA	B-415	5	6.5	Terrace Sand	3.6				5.8
CLA	B-416	5	6.5	Terrace Sand	3.8				
CLA	B-421	5	6.5	Terrace Sand	11.9				
CLA	B-425	5	6.5	Terrace Sand	2.5				
CLA	B-433	5	6.5	Terrace Sand	27				
Cooling Tower Area	B-722	5	6.5	Terrace Sand	3.5				
Cooling Tower Area	B-738	5	6.5	Terrace Sand	9				
Switchyard	B-747	5	6.5	Terrace Sand	12.7				71.2
Intake Slope	B-778	5	6.5	Terrace Sand	13				49.9
Intake Slope	B-779	5	6.5	Terrace Sand	3.6				12.4

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Utility Corridor	B-786	5	6	Terrace Sand	6.2				43.8
Intake Slope	B-779	6.5	8.3	Terrace Sand	9.5	NV	NP	NP	46.4
Unit 3	B-315	7.5	9	Terrace Sand	5.6				8.3
Unit 3	B-316	7.5	9	Terrace Sand	14.5				55.5
Unit 3	B-319	7.5	9	Terrace Sand	4.7	NV	NP	NP	
Unit 3	B-320	7.5	9	Terrace Sand	6.3				
Unit 3	B-321	7.5	9	Terrace Sand	25.2				
Unit 3	B-323	7.5	9	Terrace Sand	13				8.2
Unit 3	B-333	7.5	9	Terrace Sand	4.8				5.3
CLA	B-411	7.5	9	Terrace Sand	27.4				
CLA	B-413	7.5	9	Terrace Sand	9.7				10.2
CLA	B-414	7.5	9	Terrace Sand	4.2				
CLA	B-421	7.5	9	Terrace Sand	7.6				14
CLA	B-427	7.5	9	Terrace Sand	7.9				
CLA	B-434	7.5	9	Terrace Sand	11.8				
CLA	B-436	7.5	9	Terrace Sand	3.3				4.9
Cooling Tower Area	B-729	7.5	9	Terrace Sand	13.5				
SITE	B-746	7.5	9	Terrace Sand	25.1				27.3
Utility Corridor	B-786	7.5	9	Terrace Sand	4.4				24.7
Unit 3	B-791	7.5	9	Terrace Sand	4.9	NV	NP	NP	6.6
CLA	B-425	8.5	10	Terrace Sand	10.8				
Intake Slope	B-778	8.5	10	Terrace Sand	5.9				26.6
CLA	B-425	10	11.5	Terrace Sand	14.2				
Intake Slope	B-778	10	11.5	Terrace Sand	6.1				26.9
Utility Corridor	B-786	10	11.5	Terrace Sand	28.7	68	32	36	96.3
Unit 3	B-791	10	11.5	Terrace Sand	5.9				10.7
Unit 3	B-301	10.5	12	Terrace Sand	14.3				6.2
Unit 3	B-321	10.5	12	Terrace Sand	36.2	55	20	35	65.9
Unit 3	B-334	10.5	12	Terrace Sand	15.6	NV	NP	NP	
CLA	B-407	10.5	12	Terrace Sand	12.3				
CLA	B-421	10.5	12	Terrace Sand	11.8	NV	NP	NP	
CLA	B-433	10.5	12	Terrace Sand	5.8				10.2
Cooling Tower Area	B-735	10.5	12	Terrace Sand	13.5				27.8
Cooling Tower Area	B-738	10.5	12	Terrace Sand	12.3				
Switchyard	B-747	10.5	12	Terrace Sand	20.3				4.8
Switchyard	B-752	10.5	12	Terrace Sand	6.7				10.2
Intake Slope	B-778	11.5	13.5	Terrace Sand	23.2	27	14	13	20.7
Intake Slope	B-779	11.5	13.5	Terrace Sand	17	NV	NP	NP	22.4
Unit 3	B-791	12.5	14	Terrace Sand	5.4				6.5
Unit 3	B-307	13.5	15	Terrace Sand	7.9	NV	NP	NP	
Unit 3	B-315	13.5	15	Terrace Sand	28.3				14
Unit 3	B-319	13.5	15	Terrace Sand	7.6				8.6
Unit 3	B-321	13.5	15	Terrace Sand	30				
Unit 3	B-323	13.5	15	Terrace Sand	16.2				8.4
Unit 3	B-326	13.5	15	Terrace Sand	12.2				10.5
Unit 3	B-336	13.5	15	Terrace Sand	11.4				

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-339	13.5	15	Terrace Sand	19.9				12.1
CLA	B-415	13.5	15	Terrace Sand	2.5				3.4
CLA	B-416	13.5	15	Terrace Sand	13				
CLA	B-421	13.5	15	Terrace Sand	9.2				
CLA	B-423	13.5	15	Terrace Sand	12.3	NV	NP	NP	
CLA	B-425	13.5	15	Terrace Sand	16.4				6.5
CLA	B-434	13.5	15	Terrace Sand	7				13.9
CLA	B-437	13.5	15.5	Terrace Sand	7.2	NV	NP	NP	5.6
Cooling Tower Area	B-722	13.5	15	Terrace Sand	12.4				
SITE	B-746	13.5	15.5	Terrace Sand	27.2	25	21	4	28.8
Switchyard	B-747	13.5	15	Terrace Sand	26.6				20.4
Intake Slope	B-778	13.5	15	Terrace Sand	23.5				33
Intake Slope	B-779	13.5	15	Terrace Sand	10				37.5
Utility Corridor	B-786A	13.5	15	Terrace Sand	19.9				39.3
Cooling Tower Area	B-732	15	17	Terrace Sand	23.1	26	19	7	32
Unit 3	B-791	15	16.5	Terrace Sand	15.7				6.8
Unit 3	B-301	18.5	20	Terrace Sand	19				10.9
Unit 3	B-320	18.5	20	Terrace Sand	9.1				
Unit 3	B-321	18.5	20	Terrace Sand	29.7				35.3
Unit 3	B-323	18.5	20	Terrace Sand	11.9	NV	NP	NP	
CLA	B-407	18.5	20	Terrace Sand	24.9				30.4
CLA	B-413	18.5	20	Terrace Sand	12.9				10.1
CLA	B-414	18.5	20	Terrace Sand	9.2				
CLA	B-421	18.5	20	Terrace Sand	9.4				10.1
CLA	B-423	18.5	20	Terrace Sand	10.4				
CLA	B-427	18.5	20	Terrace Sand	8.2				12.5
CLA	B-434	18.5	20	Terrace Sand	10.6				
Cooling Tower Area	B-729	18.5	20	Terrace Sand	14.2				
Cooling Tower Area	B-735	18.5	20	Terrace Sand	28.7	NV	NP	NP	28.1
Cooling Tower Area	B-738	18.5	20	Terrace Sand	24.2				
Switchyard	B-747	18.5	20	Terrace Sand	23.9				15
Switchyard	B-752	18.5	20	Terrace Sand	12.7				13.2
Intake Slope	B-778	18.5	20	Terrace Sand	3.9				7.5
Intake Slope	B-779	18.5	20	Terrace Sand	8.7				27.5
Utility Corridor	B-786A	18.5	19.3	Terrace Sand	27.9				44.4
Utility Corridor	B-786A	19.3	20	Terrace Sand	27.1				23.7
CLA	B-425	20	21.5	Terrace Sand	11.1				
Unit 3	B-791	20	21.5	Terrace Sand	23.1				32.9
Intake Slope	B-779	21.5	23.5	Terrace Sand	24.5	NV	NP	NP	18.8
Unit 3	B-307	23.5	25	Terrace Sand	13				11.2
Unit 3	B-316	23.5	25	Terrace Sand	20	NV	NP	NP	8.8
Unit 3	B-317	23.5	25	Terrace Sand	28.4				
Unit 3	B-319	23.5	25	Terrace Sand	19.8				20
Unit 3	B-326	23.5	25	Terrace Sand	22.7				23.7
CLA	B-421	23.5	25	Terrace Sand	11	NV	NP	NP	
CLA	B-423	23.5	25	Terrace Sand	16.6				11.8

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-433	23.5	25	Terrace Sand	14.4				
CLA	B-436	23.5	25	Terrace Sand	11.1				8.1
Cooling Tower Area	B-722	23.5	25	Terrace Sand	21.1				
Cooling Tower Area	B-743	23.5	25.5	Terrace Sand	21.1	38	13	25	57.2
Switchyard	B-747	23.5	25	Terrace Sand	28.2				66.3
Intake Slope	B-779	23.5	25	Terrace Sand	19.1	32	18	14	43.4
Utility Corridor	B-786A	23.5	25	Terrace Sand	17.8				3.6
Unit 3	B-791	23.5	25	Terrace Sand	14.7				21.5
CLA	B-425	25	26.5	Terrace Sand	11.6				
Intake Slope	B-778	25.5	27	Terrace Sand	18.4				39.3
Unit 3	B-319	28.5	30	Terrace Sand	24.5				
Unit 3	B-323	28.5	30	Terrace Sand	17.6				
CLA	B-415	28.5	30	Terrace Sand	13.5				10.4
CLA	B-421	28.5	30	Terrace Sand	15.6				11.4
CLA	B-423	28.5	30	Terrace Sand	17.4				
CLA	B-427	28.5	30	Terrace Sand	12.2				8.4
CLA	B-434	28.5	30	Terrace Sand	21.9				27.2
Cooling Tower Area	B-729	28.5	30	Terrace Sand	12.5				
Cooling Tower Area	B-738	28.5	30	Terrace Sand	28.4				
Switchyard	B-747	28.5	30	Terrace Sand	32.6				
Switchyard	B-752	28.5	30	Terrace Sand	29				36.9
Intake Slope	B-778	28.5	30	Terrace Sand	16.5				41.7
CLA	B-425	30	31.5	Terrace Sand	15.2				11.3
Intake Slope	B-779	31.5	33.5	Terrace Sand	26.7	32	19	13	32.4
Unit 3	B-307	33.5	35	Terrace Sand	14.5	NV	NP	NP	
Unit 3	B-316	33.5	35	Terrace Sand	20.1	43	17	26	11.3
Unit 3	B-319	33.5	35.5	Terrace Sand	29.2	49	12	37	72
Unit 3	B-320	33.5	35	Terrace Sand	26.1	33	18	15	42.5
Unit 3	B-326	33.5	35.5	Terrace Sand	27.6	41	16	25	62
CLA	B-413	33.5	35	Terrace Sand	8.6				8.2
CLA	B-414	33.5	35	Terrace Sand	9.7				
CLA	B-423	33.5	35	Terrace Sand	13.6	NV	NP	NP	
CLA	B-433	33.5	35	Terrace Sand	23.3				
CLA	B-434	33.5	35	Terrace Sand	26.6				
CLA	B-436	33.5	35	Terrace Sand	25.2				26.3
Cooling Tower Area	B-722	33.5	35.5	Terrace Sand	26.8	NV	NP	NP	20.1
Intake Slope	B-778	33.5	35.5	Terrace Sand	15.1	NV	NP	NP	26.3
Intake Slope	B-779	33.5	35	Terrace Sand	38	58	30	28	
CLA	B-425	35	36.5	Terrace Sand	12				
Cooling Tower Area	B-738	35	37	Terrace Sand	26.4	26	22	4	25.1
Intake Slope	B-778	35.5	37	Terrace Sand	21.9				
Unit 3	B-320	38.5	40.5	Terrace Sand	29.4	36	16	20	49
Unit 3	B-323	38.5	40	Terrace Sand	20.7				11.4
CLA	B-421	38.5	40	Terrace Sand	17.3				
CLA	B-423	38.5	40	Terrace Sand	43.9	43	15	28	36.9
CLA	B-427	38.5	40	Terrace Sand	13.6				

Table A.1. Index Properties - Entire Site

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-434	38.5	40	Terrace Sand	27.4	NV	NP	NP	
Cooling Tower Area	B-729	38.5	40	Terrace Sand	18.4				
Intake Slope	B-778	38.5	40	Terrace Sand	31.3	38	19	19	
Intake Slope	B-778	38.5	40	Terrace Sand	29.5	36	19	17	
CLA	B-425	40	41.5	Terrace Sand	14.9				7.4
Intake Slope	B-778	41.5	43.5	Terrace Sand	26.6	39	15	24	43.4
Unit 3	B-307	43.5	45	Terrace Sand	24.8				
CLA	B-414	43.5	45	Terrace Sand	20.6	NV	NP	NP	22.1
CLA	B-415	43.5	45	Terrace Sand	28.2	26	22	4	31.1
CLA	B-421	43.5	45	Terrace Sand	31.5				
Intake Slope	B-778	43.5	45	Terrace Sand	33.8	NV	NP	NP	21.6
CLA	B-425	45	46.5	Terrace Sand	13.7				
Unit 3	B-307	48.5	50	Terrace Sand	25.1				
CLA	B-413	48.5	50	Terrace Sand	26.9	NV	NP	NP	31.5
CLA	B-414	48.5	50	Terrace Sand	27.7	NV	NP	NP	33.5
CLA	B-427	48.5	50	Terrace Sand	18.6				6.3
Cooling Tower Area	B-729	48.5	50	Terrace Sand	28.2				
CLA	B-425	50	51.5	Terrace Sand	12.1	28	17	11	10.1
CLA	B-414	53.5	55	Terrace Sand	28	42	23	19	60.4
CLA	B-425	55	56.5	Terrace Sand	28.2	46	19	27	
Cooling Tower Area	B-729	58.5	60	Terrace Sand	28.8				
				Minimum	**0.5**	**NV**	**NP**	**NP**	**3.4**
				Maximum	**43.9**	**68.0**	**32.0**	**37.0**	**96.3**
				Average	**16.0**	**18.9**	**9.3**	**9.7**	**23.8**
				Standard Deviation	**8.7**	**20.7**	**9.9**	**12.0**	**18.3**

Table A.2. Index Properties - Unit 3

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-314	13.5	15.5	Layer 1	25.9	54	11	43	35
Unit 3	B-313	18.5	20	Layer 1	23.1				
Unit 3	B-314	18.5	19.4	Layer 1	24.2				
Unit 3	B-315	18.5	20	Layer 1	28.3				
Unit 3	B-313	23.5	25	Layer 1	21.1	NV	NP	NP	
Unit 3	B-314	23.5	24.4	Layer 1	22.6	NV	NP	NP	
Unit 3	B-315	23.5	25.5	Layer 1	23.3	41	11	30	35
Unit 3	B-304	28.5	30	Layer 1	32.3				
Unit 3	B-313	28.5	30	Layer 1	18.2	NV	NP	NP	
Unit 3	B-314	28.5	30	Layer 1	20.3				
Unit 3	B-315	28.5	30	Layer 1	27.6				
Unit 3	B-321	28.5	30	Layer 1	27	47	29	18	43.6
Unit 3	B-328	28.5	30	Layer 1	30.5	40	21	19	42.6
Unit 3	B-304	33.5	33.9	Layer 1	20.1				
Unit 3	B-313	33.5	34	Layer 1	28.1	38	21	17	
Unit 3	B-314	33.5	35	Layer 1	25.4	42	22	20	
Unit 3	B-321	33.5	34.3	Layer 1	30.9				
Unit 3	B-328	33.5	35	Layer 1	18.2				
Unit 3	B-331	33.5	34.8	Layer 1	21.9				8.3
Unit 3	B-337	33.5	35	Layer 1	29				
Unit 3	B-304	38.5	39.4	Layer 1	19.3				8.5
Unit 3	B-313	38.5	39.3	Layer 1	17.1				
Unit 3	B-314	38.5	39.8	Layer 1	26.8	NV	NP	NP	
Unit 3	B-315	38.5	40	Layer 1	22.2	NV	NP	NP	13.2
Unit 3	B-321	38.5	40	Layer 1	27.1				9
Unit 3	B-328	38.5	38.8	Layer 1	22.6				7.8
Unit 3	B-305	39.5	41.5	Layer 1	34.7	72	22	50	49.5
Unit 3	B-304	43.5	45	Layer 1	21.9				
Unit 3	B-328	43.5	45	Layer 1	24.2	NV	NP	NP	10.8
Unit 3	B-333	43.5	45	Layer 1	26.1				38.8
Unit 3	B-334	43.5	45	Layer 1	27				
Unit 3	B-304	48.5	49.8	Layer 1	14.5	25	18	7	
Unit 3	B-317	48.5	50.5	Layer 1	22.8	35	17	18	69.8
Unit 3	B-328	48.5	49.6	Layer 1	25.8				
Unit 3	B-333	48.5	48.8	Layer 1	25.2	34	13	21	20
Unit 3	B-334	48.5	49.8	Layer 1	27.2				26.2
Unit 3	B-339	48.5	50	Layer 1	27.8	40	20	20	
Unit 3	B-304	53.5	54	Layer 1	13.5				
Unit 3	B-328	53.5	55	Layer 1	24				21.9
Unit 3	B-333	53.5	55	Layer 1	20.9				13.4
Unit 3	B-334	53.5	55	Layer 1	21.4				
Unit 3	B-339	53.5	55	Layer 1	30.8	48	30	18	33.7
Unit 3	B-316	58.5	60	Layer 1	24.4				
Unit 3	B-317	58.5	59.8	Layer 1	26				
Unit 3	B-319	58.5	60	Layer 1	26.7	40	32	8	
Unit 3	B-339	58.5	59.4	Layer 1	28.1	NV	NP	NP	

Table A.2. Index Properties - Unit 3

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-301A	61	62	Layer 1	21.5	NV	NP	NP	31.8
Unit 3	B-301	63.5	64.2	Layer 1	20.4				2.1
Unit 3	B-316	63.5	65	Layer 1	31.3				
Unit 3	B-334	63.5	63.9	Layer 1	19	NV	NP	NP	29.8
Unit 3	B-316	68.5	69.3	Layer 1	19.8				16.5
Unit 3	B-323	68.5	70	Layer 1	29	46	24	22	32.8
Unit 3	B-336	68.5	70	Layer 1	19.6				
Unit 3	B-307	73.5	75	Layer 1	24.9				
Unit 3	B-316	73.5	74	Layer 1	21.2				
Unit 3	B-317	73.5	74.4	Layer 1	22.3				
Unit 3	B-319	73.5	74.8	Layer 1	17.5				13.6
Unit 3	B-320	73.5	74.2	Layer 1	18.8				15.3
Unit 3	B-307	83.5	84.3	Layer 1	20.6				13
Unit 3	B-319	83.5	84.8	Layer 1	18.2				25.7
Unit 3	B-323	83.5	84.8	Layer 1	36.2	42	20	22	72.7
Unit 3	B-307	88.5	90	Layer 1	21.5	NV	NP	NP	
Unit 3	B-307	93.5	95	Layer 1	27.7				17.9
Unit 3	B-323	93.5	95	Layer 1	26.3	NV	NP	NP	27.9
				Minimum	**13.5**	**NV**	**NP**	**NP**	**2.1**
				Maximum	**36.2**	**72.0**	**32.0**	**50.0**	**72.7**
				Average	**24.1**	**24.8**	**12.0**	**12.8**	**26.2**
				Standard Deviation	**4.7**	**23.0**	**11.5**	**14.0**	**17.3**
Unit 3	B-789	15	16.5	Layer 2	31.1				
Unit 3	B-789	18.5	20	Layer 2	32				
Unit 3	B-789	23.5	25	Layer 2	27.3				
Unit 3	B-313	43.5	45	Layer 2	29.3	34	27	7	
Unit 3	B-314	43.5	45	Layer 2	31.9				
Unit 3	B-321	43.5	45	Layer 2	26				
Unit 3	B-331	43.5	45	Layer 2	31.6				50.6
Unit 3	B-313	48.5	50	Layer 2	27.9				
Unit 3	B-314	48.5	50	Layer 2	25.4				
Unit 3	B-321	48.5	49.5	Layer 2	35.1				73
Unit 3	B-337	48.5	50	Layer 2	39.9				
Unit 3	B-313	53.5	55	Layer 2	31.5	NP	NP	NP	
Unit 3	B-314	53.5	55	Layer 2	32.8	NV	NP	NP	
Unit 3	B-315	53.5	55	Layer 2	25.6	NV	NP	NP	
Unit 3	B-321	53.5	55	Layer 2	25	NV	NP	NP	14.3
Unit 3	B-337	53.5	55.5	Layer 2	25.7	38	19	19	39
Unit 3	B-304	58.5	60	Layer 2	29.1	NV	NP	NP	12.4
Unit 3	B-314	58.5	60	Layer 2	33	NV	NP	NP	
Unit 3	B-321	58.5	60	Layer 2	27.4				18.6
Unit 3	B-331	58.5	60	Layer 2	26.6				
Unit 3	B-333	58.5	60	Layer 2	34.5				
Unit 3	B-304	63.5	65	Layer 2	29.4	30	23	7	14.6
Unit 3	B-314	63.5	65	Layer 2	40.3	59	24	35	
Unit 3	B-315	63.5	65	Layer 2	29.4	NV	NP	NP	11.9

Table A.2. Index Properties - Unit 3

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-321	63.5	65	Layer 2	27.6				
Unit 3	B-328	63.5	65.5	Layer 2	44.2	72	41	31	87
Unit 3	B-339	63.5	65	Layer 2	25	49	21	28	15.5
Unit 3	B-304	68.5	70	Layer 2	29.5				
Unit 3	B-321	68.5	70	Layer 2	28.4				16
Unit 3	B-328	68.5	70	Layer 2	29.4	NV	NP	NP	
Unit 3	B-339	68.5	70	Layer 2	38.8	53	38	15	
Unit 3	B-315	73.5	75	Layer 2	36.3	58	18	40	
Unit 3	B-321	73.5	75.5	Layer 2	28.5	NV	NP	NP	15.3
Unit 3	B-328	73.5	75	Layer 2	32.2	NV	NP	NP	
Unit 3	B-331	73.5	75	Layer 2	35.8				
Unit 3	B-334	73.5	75	Layer 2	27.3				12.6
Unit 3	B-337	73.5	75	Layer 2	30.9				
Unit 3	B-321	78.5	80	Layer 2	34.9				
Unit 3	B-301	83.5	85	Layer 2	26.5				21
Unit 3	B-334	83.5	85	Layer 2	28				13.8
Unit 3	B-336	83.5	85	Layer 2	27.3				
Unit 3	B-339	83.5	85	Layer 2	31.5				
Unit 3	B-319	88.5	90	Layer 2	29.8				18.9
Unit 3	B-331	88.5	90	Layer 2	32.7				
Unit 3	B-339	88.5	90	Layer 2	29				11
Unit 3	B-301	93.5	95	Layer 2	25.8				
Unit 3	B-316	93.5	95	Layer 2	32				17.7
Unit 3	B-320	93.5	95	Layer 2	25.4				15.1
Unit 3	B-339	93.5	95	Layer 2	31.7				
Unit 3	B-316	98.5	100	Layer 2	27.7				
Unit 3	B-319	98.5	100	Layer 2	30	NV	NP	NP	12.9
Unit 3	B-336	98.5	100	Layer 2	32.1				
Unit 3	B-339	98.5	100	Layer 2	32.7				
Unit 3	B-320	103.5	105	Layer 2	29.2				16.8
Unit 3	B-323	103.5	105	Layer 2	28.6	NV	NP	NP	10.6
Unit 3	B-323	113.5	115	Layer 2	30.2				18.1
				Minimum	**25.0**	**NV**	**NP**	**NP**	**10.6**
				Maximum	**44.2**	**72.0**	**41.0**	**40.0**	**87.0**
				Average	**30.5**	**19.7**	**10.6**	**9.1**	**23.3**
				Standard Deviation	**4.1**	**26.2**	**14.3**	**13.8**	**20.2**
Unit 3	B-313	63.5	64.9	Layer 3	26.2	33	17	16	
Unit 3	B-314	68.5	70	Layer 3	19.5	NV	NP	NP	
Unit 3	B-333	68.5	69	Layer 3	19.3				23.2
Unit 3	B-313	73.5	75	Layer 3	28.4				
Unit 3	B-314	73.5	75	Layer 3	27.9	NV	NP	NP	
Unit 3	B-304	78.5	80	Layer 3	16.3	32	19	13	
Unit 3	B-314	78.5	79.4	Layer 3	36.5	NV	NP	NP	
Unit 3	B-333	78.5	80	Layer 3	28.7	NV	NP	NP	10.8
Unit 3	B-339	78.5	80	Layer 3	16.6				23.6
Unit 3	B-304	83.5	85	Layer 3	21.8				

Table A.2. Index Properties - Unit 3

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-315	83.5	85	Layer 3	29.6	NV	NP	NP	
Unit 3	B-321	83.5	85	Layer 3	20.6				
Unit 3	B-328	83.5	84.9	Layer 3	21.2	NV	NP	NP	18.6
Unit 3	B-304	88.5	90	Layer 3	38.7	49	28	21	35.9
Unit 3	B-321	88.5	90	Layer 3	31				30
Unit 3	B-337	88.5	89.9	Layer 3	21				
Unit 3	B-304	93.5	95	Layer 3	33				
Unit 3	B-315	93.5	95	Layer 3	35.6				28.6
Unit 3	B-333	93.5	94.9	Layer 3	16.1				23.7
Unit 3	B-334	98.5	100	Layer 3	28.9				16.6
Unit 3	B-301	103.5	105	Layer 3	17.8				
Unit 3	B-301	108.5	110	Layer 3	23.2				34.7
Unit 3	B-307	108.5	110	Layer 3	29.2	NV	NP	NP	9.8
Unit 3	B-320	113.5	115	Layer 3	28.5	44	16	28	
Unit 3	B-307	118.5	120	Layer 3	28.9	32	25	7	17.9
Unit 3	B-307	123.5	124.7	Layer 3	29.8	35	19	16	30
Unit 3	B-323	123.5	125	Layer 3	19.4				
Unit 3	B-307	133.5	135	Layer 3	26				21.8
Unit 3	B-323	133.5	135	Layer 3	33.1				30.2
				Minimum	**16.1**	**NV**	**NP**	**NP**	**9.8**
				Maximum	**38.7**	**49.0**	**28.0**	**28.0**	**35.9**
				Average	**26.0**	**17.3**	**9.5**	**7.8**	**23.7**
				Standard Deviation	**6.4**	**20.0**	**11.2**	**9.9**	**8.0**
Unit 3	B-301	303.5	305	Nanjemoy sand	24.8				44.6
Unit 3	B-301A	308	310	Nanjemoy sand	24.6	56	17	39	30
Unit 3	B-301	313.5	315	Nanjemoy sand	20				26.6
Unit 3	B-301A	318	320	Nanjemoy sand	13.4	36	14	22	32.3
Unit 3	B-301	323.5	325	Nanjemoy sand	27.8				22.1
Unit 3	B-301A	328	330	Nanjemoy sand	27	79	20	59	13.9
Unit 3	B-301	333.5	335	Nanjemoy sand	31.8				
Unit 3	B-301A	338	340	Nanjemoy sand	44.5	66	22	44	14.1
Unit 3	B-301	343.5	344.5	Nanjemoy sand	22.9	47	24	23	17.9
Unit 3	B-301	353.5	355	Nanjemoy sand	36.1	58	22	36	18
Unit 3	B-301	363.5	365	Nanjemoy sand	37.2	54	36	18	28.6
Unit 3	B-301	373.5	375	Nanjemoy sand	30.3	61	26	35	16
Unit 3	B-301	388.5	390	Nanjemoy sand	32.7				15.7
Unit 3	B-301	398.5	400	Nanjemoy sand	33.7				
				Minimum	**13.4**	**36.0**	**14.0**	**18.0**	**13.9**
				Maximum	**44.5**	**79.0**	**36.0**	**59.0**	**44.6**
				Average	**29.1**	**57.1**	**22.6**	**34.5**	**23.3**
				Standard Deviation	**7.9**	**12.7**	**6.6**	**13.5**	**9.3**
Unit 3	B-789	0	1.5	Stratum a	28.2				77.5
Unit 3	B-789	2.5	4	Stratum a	29.1				
Unit 3	B-313	5	6.5	Stratum a	27.6	67	21	46	
Unit 3	B-314	5	6.5	Stratum a	35	73	25	48	
Unit 3	B-789	5	6.5	Stratum a	26.6				

Table A.2. Index Properties - Unit 3

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-304	7.5	9	Stratum a	34.1	57	23	34	71.8
Unit 3	B-313	7.5	9	Stratum a	15.1	30	17	13	
Unit 3	B-314	7.5	9	Stratum a	41.2	59	21	38	
Unit 3	B-328	7.5	9	Stratum a	30				
Unit 3	B-789	7.5	9	Stratum a	34.3				
Unit 3	B-789	10	11.5	Stratum a	27.3				
Unit 3	B-304	10.5	12	Stratum a	31.4	59	19	40	57.4
Unit 3	B-313	10.5	12	Stratum a	27				
Unit 3	B-314	10.5	12	Stratum a	26.2	73	25	48	
Unit 3	B-328	10.5	12	Stratum a	28.8	59	17	42	
Unit 3	B-789	12.5	14	Stratum a	25.4				
Unit 3	B-304	13.5	15	Stratum a	31.7	63	23	40	
Unit 3	B-313	13.5	15	Stratum a	31.5				
Unit 3	B-304	18.5	20	Stratum a	32.1	62	21	41	96.9
Unit 3	B-328	18.5	20	Stratum a	35.1	64	36	28	
Unit 3	B-331	18.5	20.5	Stratum a	30.8	57	23	34	97.1
Unit 3	B-334	18.5	20	Stratum a	31.3				
Unit 3	B-334	23	25	Stratum a	35.3	51	16	35	79
Unit 3	B-304	23.5	25	Stratum a	25.6	38	20	18	
Unit 3	B-321	23.5	25.5	Stratum a	26.2	45	18	27	99.7
Unit 3	B-328	23.5	25	Stratum a	33	77	28	49	
Unit 3	B-333	23.5	25	Stratum a	32	57	33	24	74.2
Unit 3	B-301	28.5	30	Stratum a	28.9	48	17	31	58.5
Unit 3	B-317	28.5	30.5	Stratum a	31.7	27	19	8	97.8
Unit 3	B-333	28.5	30.5	Stratum a	38.9	52	19	33	85.3
Unit 3	B-334	28.5	30	Stratum a	42.5				
Unit 3	B-336	28.5	30	Stratum a	26.9				
Unit 3	B-339	28.5	30	Stratum a	31.5	55	19	36	
Unit 3	B-791	28.5	30	Stratum a	34.6	59	23	36	78.9
Unit 3	B-334	33	35	Stratum a	32.6	47	13	34	95
Unit 3	B-301	33.5	35.5	Stratum a	31.1	59	17	42	80.5
Unit 3	B-317	33.5	35	Stratum a	30.2				
Unit 3	B-339	33.5	35	Stratum a	27	62	21	41	62.7
Unit 3	B-316	38.5	40	Stratum a	28.5				
Unit 3	B-319	38.5	40	Stratum a	27.9				
Unit 3	B-333	38.5	40.5	Stratum a	39.7	61	23	38	98.8
Unit 3	B-339	38.5	40	Stratum a	28.6	71	17	54	
Unit 3	B-316	43.5	45.5	Stratum a	28.6	44	16	28	71
Unit 3	B-319	43.5	45.2	Stratum a	32.1	58	13	45	87
Unit 3	B-320	43.5	45	Stratum a	30	56	19	37	60.7
Unit 3	B-326	43.5	45.5	Stratum a	33.9	63	22	41	89.3
Unit 3	B-339	43.5	45	Stratum a	31	60	22	38	86.9
Unit 3	B-301	48.5	50	Stratum a	29.6				
Unit 3	B-316	48.5	50	Stratum a	38				69.5
Unit 3	B-319	48.5	50	Stratum a	38.6	79	27	52	
Unit 3	B-320	48.5	50	Stratum a	34.4	59	19	40	81.5

Table A.2. Index Properties - Unit 3

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-323	48.5	50	Stratum a	28.1	50	17	33	51
Unit 3	B-336	48.5	50	Stratum a	25.9				
Unit 3	B-307	53.5	55	Stratum a	28.1				
Unit 3	B-316	53.5	55.5	Stratum a	26.2	33	11	22	50
Unit 3	B-320	53.5	55	Stratum a	34.9	69	24	45	
Unit 3	B-307	58.5	60	Stratum a	33.1	62	20	42	60.5
Unit 3	B-323	58.5	60	Stratum a	35.1	65	22	43	89.1
Unit 3	B-307	63.5	65	Stratum a	35.5	52	18	34	
Unit 3	B-306	68	70	Stratum a	30.7	62	24	38	98.6
Unit 3	B-307	68.5	70	Stratum a	34	66	23	43	98.5
				Minimum	**15.1**	**27.0**	**11.0**	**8.0**	**50.0**
				Maximum	**42.5**	**79.0**	**36.0**	**54.0**	**99.7**
				Average	**31.2**	**57.4**	**20.7**	**36.6**	**79.5**
				Standard Deviation	**4.5**	**11.5**	**4.8**	**9.7**	**15.7**
Unit 3	B-313	83.5	85	Stratum c	37.3				
Unit 3	B-314	83.5	85	Stratum c	41.2	57	36	21	
Unit 3	B-313	88.5	90	Stratum c	55	98	47	51	
Unit 3	B-314	88.5	90	Stratum c	34.3	68	20	48	
Unit 3	B-328	88.5	90	Stratum c	34	47	31	16	
Unit 3	B-313	93.5	94.7	Stratum c	35.6	49	25	24	
Unit 3	B-314	93.5	95	Stratum c	36.4				
Unit 3	B-321	93.5	95	Stratum c	36.9	59	26	33	32.2
Unit 3	B-304	98.5	99.5	Stratum c	42.1	79	29	50	47.3
Unit 3	B-313	98.5	100	Stratum c	32.4	42	28	14	
Unit 3	B-314	98.5	100	Stratum c	31				
Unit 3	B-321	98.5	100	Stratum c	36.1				29.8
Unit 3	B-328	98.5	100	Stratum c	38.2	53	34	19	
Unit 3	B-304	103.5	105	Stratum c	44				35.4
Unit 3	B-313	103.5	105	Stratum c	43.4	70	45	25	
Unit 3	B-321	103.5	105	Stratum c	58.2				
Unit 3	B-328	103.5	105	Stratum c	62.7				36.6
Unit 3	B-304	108.5	110	Stratum c	33.8				28.2
Unit 3	B-313	108.5	110	Stratum c	57.7	106	55	51	
Unit 3	B-321	108.5	110	Stratum c	42.6				
Unit 3	B-304	113.5	115	Stratum c	43.9				36.3
Unit 3	B-313	113.5	115	Stratum c	44.3	72	46	26	
Unit 3	B-321	113.5	115	Stratum c	34.6				36.3
Unit 3	B-327	113.5	115.5	Stratum c	44.3	60	24	36	51.9
Unit 3	B-328	113.5	115	Stratum c	30.5				
Unit 3	B-301	118.5	120	Stratum c	33.1				19.6
Unit 3	B-304	118.5	120	Stratum c	47.9				
Unit 3	B-313	118.5	120	Stratum c	43.5	81	42	39	
Unit 3	B-321	118.5	120	Stratum c	39.8				
Unit 3	B-328	118.5	120	Stratum c	44.7				
Unit 3	B-304	123.5	125	Stratum c	60.2				
Unit 3	B-313	123.5	124.3	Stratum c	33.1	44	26	18	

Table A.2. Index Properties - Unit 3

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-321	123.5	125	Stratum c	43.1				
Unit 3	B-328	123.5	125.5	Stratum c	45.6	77	45	32	82.6
Unit 3	B-301	128.5	130	Stratum c	42.3				32.3
Unit 3	B-304	128.5	130	Stratum c	34.9				42.7
Unit 3	B-313	128.5	130	Stratum c	66	132	60	72	
Unit 3	B-320	128.5	130	Stratum c	34.1	50	30	20	
Unit 3	B-321	128.5	130	Stratum c	49.5				60.8
Unit 3	B-304	133.5	135	Stratum c	45				
Unit 3	B-313	133.5	135	Stratum c	69.1				
Unit 3	B-321	133.5	135	Stratum c	42.3				
Unit 3	B-328	133.5	135	Stratum c	48.2	70	51	19	52.8
Unit 3	B-304	138.5	139.3	Stratum c	36.5	43	26	17	45.7
Unit 3	B-313	138.5	140	Stratum c	62.9	106	51	55	
Unit 3	B-321	138.5	140	Stratum c	39.7				
Unit 3	B-301	143.5	145	Stratum c	45				55.5
Unit 3	B-304	143.5	145	Stratum c	70	134	49	85	91.3
Unit 3	B-307	143.5	145	Stratum c	36.8	59	33	26	
Unit 3	B-313	143.5	145	Stratum c	49.1				
Unit 3	B-321	143.5	145	Stratum c	60.2				84.6
Unit 3	B-323	143.5	145	Stratum c	48.3	73	38	35	52.1
Unit 3	B-328	143.5	145	Stratum c	59.3				
Unit 3	B-301	148.5	150	Stratum c	62.2	114	55	59	
Unit 3	B-304	148.5	150	Stratum c	72.1				
Unit 3	B-307	148.5	150	Stratum c	50.6				
Unit 3	B-313	148.5	150	Stratum c	49.4	103	30	73	
Unit 3	B-320	148.5	150	Stratum c	37				47.7
Unit 3	B-321	148.5	150	Stratum c	66				
Unit 3	B-328	148.5	150	Stratum c	74.8	134	100	34	
Unit 3	B-301	153.5	155	Stratum c	34				45.4
Unit 3	B-304	153.5	155	Stratum c	70.9				
Unit 3	B-307	153.5	155	Stratum c	38.8	58	37	21	24.4
Unit 3	B-323	153.5	155	Stratum c	31.3	39	30	9	
Unit 3	B-301	158.5	159.6	Stratum c	38.7	76	30	46	99.5
Unit 3	B-304	158.5	160	Stratum c	55.1	92	53	39	59.1
Unit 3	B-304	163.5	165	Stratum c	47.2				
Unit 3	B-323	163.5	165	Stratum c	54.2				63.3
Unit 3	B-301	168.5	170.4	Stratum c	65.4	112	39	73	66.2
Unit 3	B-304	168.5	170	Stratum c	62.9				
Unit 3	B-304	173.5	175	Stratum c	84	158	84	74	94
Unit 3	B-323	173.5	175	Stratum c	44	97	31	66	56.9
Unit 3	B-301	178.5	180	Stratum c	60.4	111	47	64	60
Unit 3	B-304	178.5	180	Stratum c	27.5				
Unit 3	B-307	178.5	180.4	Stratum c	33.5	41	25	16	37.7
Unit 3	B-344	181.5	183.5	Stratum c	30.6	44	23	21	29.1
Unit 3	B-304	183.5	185	Stratum c	39.2				43.6
Unit 3	B-323	183.5	185	Stratum c	68.3	124	33	91	94

Table A.2. Index Properties - Unit 3

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-304	188.5	190	Stratum c	42.8				
Unit 3	B-307	188.5	190	Stratum c	43	61	39	22	45.6
Unit 3	B-301	193.5	195	Stratum c	53.2	98	45	53	
Unit 3	B-304	193.5	195	Stratum c	51.1				
Unit 3	B-323	193.5	195	Stratum c	58.1	116	36	80	70.3
Unit 3	B-301A	198	200	Stratum c	64.1	115	25	90	91.3
Unit 3	B-301	198.5	200	Stratum c	82.6	157	71	86	79
Unit 3	B-304	198.5	200	Stratum c	55.8				55.9
Unit 3	B-323	198.5	200	Stratum c	52.9	97	62	35	
Unit 3	B-307	200	201.5	Stratum c	68.7	137	61	76	66.2
Unit 3	B-301	203.5	205	Stratum c	27.5				
Unit 3	B-344	204	206	Stratum c	47.2	81	25	56	51.9
Unit 3	B-301	208.5	210	Stratum c	32.4				
Unit 3	B-301A	218	220	Stratum c	38.8	66	26	40	37.7
Unit 3	B-301	218.5	220	Stratum c	47.9				50.7
Unit 3	B-344	221.5	223.5	Stratum c	65.5	119	31	88	84.3
Unit 3	B-301	228.5	230	Stratum c	54				46.9
Unit 3	B-301A	238	240	Stratum c	49.2	96	26	70	68.7
Unit 3	B-301	238.5	240	Stratum c	56.8				72.9
Unit 3	B-344	241.5	243.5	Stratum c	41.3	176	50	126	95.6
Unit 3	B-301	253.5	255	Stratum c	72.7	137	87	50	64.6
Unit 3	B-301A	258	260	Stratum c	58.6	113	31	82	70.8
Unit 3	B-301	263.5	265	Stratum c	100.9				85.2
Unit 3	B-301A	268	270	Stratum c	85.7	182	49	133	96.3
Unit 3	B-301	273.5	275	Stratum c	102	199	119	80	
Unit 3	B-301A	278	280	Stratum c	109.8	187	54	133	94.8
Unit 3	B-301	283.5	285	Stratum c	91.3				73.5
Unit 3	B-301A	288	290	Stratum c	57.4	115	30	85	69.8
Unit 3	B-301	293.5	295	Stratum c	64.4	117	73	44	73.1
Unit 3	B-301A	298	300	Stratum c	94.2	135	35	100	93.1
				Minimum	**27.5**	**39.0**	**20.0**	**9.0**	**19.6**
				Maximum	**109.8**	**199.0**	**119.0**	**133.0**	**99.5**
				Average	**51.2**	**95.4**	**42.9**	**52.5**	**59.9**
				Standard Deviation	**17.1**	**40.5**	**19.9**	**31.0**	**22.0**
Unit 3	B-304	0	1.5	Terrace Sand	17.1				
Unit 3	B-313	0	1.5	Terrace Sand	9.9				
Unit 3	B-334	0	1.5	Terrace Sand	9.6				11.2
Unit 3	B-314	0.4	1.9	Terrace Sand	9.7				
Unit 3	B-301	2.5	4	Terrace Sand	6.6				8.1
Unit 3	B-304	2.5	4	Terrace Sand	25.9				
Unit 3	B-313	2.5	4	Terrace Sand	11.8	19	14	5	
Unit 3	B-314	2.5	4	Terrace Sand	14.1	NV	NP	NP	
Unit 3	B-316	2.5	4	Terrace Sand	19.1	35	16	19	
Unit 3	B-319	2.5	4	Terrace Sand	5.7				8.1
Unit 3	B-320	2.5	4	Terrace Sand	10.4				
Unit 3	B-321	2.5	4	Terrace Sand	9.7				31

Table A.2. Index Properties - Unit 3

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-323	2.5	4	Terrace Sand	5				
Unit 3	B-328	2.5	4	Terrace Sand	4.5	NV	NP	NP	8.7
Unit 3	B-333	2.5	4	Terrace Sand	6.2				6.9
Unit 3	B-304	5	6.5	Terrace Sand	29.4				
Unit 3	B-307	5	6.5	Terrace Sand	11.6				38.4
Unit 3	B-321	5	6.5	Terrace Sand	7.4				
Unit 3	B-326	5	6.5	Terrace Sand	8.2				
Unit 3	B-331	5	6.5	Terrace Sand	20.2	43	15	28	66.9
Unit 3	B-334	5	6.5	Terrace Sand	15.9				21.3
Unit 3	B-339	5	6.5	Terrace Sand	6.9				4.6
Unit 3	B-315	7.5	9	Terrace Sand	5.6				8.3
Unit 3	B-316	7.5	9	Terrace Sand	14.5				55.5
Unit 3	B-319	7.5	9	Terrace Sand	4.7	NV	NP	NP	
Unit 3	B-320	7.5	9	Terrace Sand	6.3				
Unit 3	B-321	7.5	9	Terrace Sand	25.2				
Unit 3	B-323	7.5	9	Terrace Sand	13				8.2
Unit 3	B-333	7.5	9	Terrace Sand	4.8				5.3
Unit 3	B-791	7.5	9	Terrace Sand	4.9	NV	NP	NP	6.6
Unit 3	B-791	10	11.5	Terrace Sand	5.9				10.7
Unit 3	B-301	10.5	12	Terrace Sand	14.3				6.2
Unit 3	B-321	10.5	12	Terrace Sand	36.2	55	20	35	65.9
Unit 3	B-334	10.5	12	Terrace Sand	15.6	NV	NP	NP	
Unit 3	B-791	12.5	14	Terrace Sand	5.4				6.5
Unit 3	B-307	13.5	15	Terrace Sand	7.9	NV	NP	NP	
Unit 3	B-315	13.5	15	Terrace Sand	28.3				14
Unit 3	B-319	13.5	15	Terrace Sand	7.6				8.6
Unit 3	B-321	13.5	15	Terrace Sand	30				
Unit 3	B-323	13.5	15	Terrace Sand	16.2				8.4
Unit 3	B-326	13.5	15	Terrace Sand	12.2				10.5
Unit 3	B-336	13.5	15	Terrace Sand	11.4				
Unit 3	B-339	13.5	15	Terrace Sand	19.9				12.1
Unit 3	B-791	15	16.5	Terrace Sand	15.7				6.8
Unit 3	B-301	18.5	20	Terrace Sand	19				10.9
Unit 3	B-320	18.5	20	Terrace Sand	9.1				
Unit 3	B-321	18.5	20	Terrace Sand	29.7				35.3
Unit 3	B-323	18.5	20	Terrace Sand	11.9	NV	NP	NP	
Unit 3	B-791	20	21.5	Terrace Sand	23.1				32.9
Unit 3	B-307	23.5	25	Terrace Sand	13				11.2
Unit 3	B-316	23.5	25	Terrace Sand	20	NV	NP	NP	8.8
Unit 3	B-317	23.5	25	Terrace Sand	28.4				
Unit 3	B-319	23.5	25	Terrace Sand	19.8				20
Unit 3	B-326	23.5	25	Terrace Sand	22.7				23.7
Unit 3	B-791	23.5	25	Terrace Sand	14.7				21.5
Unit 3	B-319	28.5	30	Terrace Sand	24.5				
Unit 3	B-323	28.5	30	Terrace Sand	17.6				
Unit 3	B-307	33.5	35	Terrace Sand	14.5	NV	NP	NP	

Table A.2. Index Properties - Unit 3

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-316	33.5	35	Terrace Sand	20.1	43	17	26	11.3
Unit 3	B-319	33.5	35.5	Terrace Sand	29.2	49	12	37	72
Unit 3	B-320	33.5	35	Terrace Sand	26.1	33	18	15	42.5
Unit 3	B-326	33.5	35.5	Terrace Sand	27.6	41	16	25	62
Unit 3	B-320	38.5	40.5	Terrace Sand	29.4	36	16	20	49
Unit 3	B-323	38.5	40	Terrace Sand	20.7				11.4
Unit 3	B-307	43.5	45	Terrace Sand	24.8				
Unit 3	B-307	48.5	50	Terrace Sand	25.1				
				Minimum	**4.5**	**NV**	**NP**	**NP**	**4.6**
				Maximum	**36.2**	**55.0**	**20.0**	**37.0**	**72.0**
				Average	**15.8**	**19.7**	**8.0**	**11.7**	**21.8**
				Standard Deviation	**8.4**	**21.4**	**8.4**	**13.8**	**20.0**

Table A.3. Index Properties - CLA

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-420	23.5	25	Layer 1	24.4	NV	NP	NP	
CLA	B-440	23.5	25	Layer 1	22.1				8.4
CLA	B-401	33.5	34.4	Layer 1	20.8				
CLA	B-420	33.5	35	Layer 1	24.2				
CLA	B-440	33.5	35	Layer 1	20.1				28.4
CLA	B-409	35	36.2	Layer 1	23.3	NV	NP	NP	6
CLA	B-420	38.5	39.8	Layer 1	20	30	19	11	
CLA	B-401	43.5	44.3	Layer 1	21.4				21.2
CLA	B-407	43.5	45	Layer 1	23.3				17.4
CLA	B-411	43.5	44.5	Layer 1	24				15
CLA	B-416	43.5	45	Layer 1	25.6				
CLA	B-401	53.5	55	Layer 1	31.6				
CLA	B-411	53.5	55	Layer 1	25.2	44	17	27	
CLA	B-401	58.5	60	Layer 1	25				13.1
CLA	B-416	58.5	60	Layer 1	26.2				15.5
CLA	B-433	58.5	60	Layer 1	29.3	44	35	9	48.2
CLA	B-434	63.5	65.5	Layer 1	23.7	NV	NP	NP	36.9
CLA	B-421	68.5	70	Layer 1	22.2				33.1
CLA	B-423	68.5	69.2	Layer 1	25.4	NV	NP	NP	
CLA	B-434	68.5	69.4	Layer 1	25				
CLA	B-415	73.5	75	Layer 1	26.3	40	30	10	47.8
CLA	B-421	73.5	74	Layer 1	24.9				
CLA	B-423	73.5	74	Layer 1	22.8				
CLA	B-433	73.5	75	Layer 1	23.7				11.6
CLA	B-434	73.5	74.5	Layer 1	22.6				
CLA	B-425	75	77	Layer 1	21.8	41	20	21	45.1
CLA	B-401	78.5	80	Layer 1	17.5				
CLA	B-413	78.5	80	Layer 1	26.1				34.6
CLA	B-414	78.5	80	Layer 1	29.8				
CLA	B-421	78.5	80	Layer 1	19.7				
CLA	B-423	78.5	80	Layer 1	21.9				11.3
CLA	B-427	78.5	79.3	Layer 1	23.1				
CLA	B-434	78.5	80	Layer 1	15.6				
CLA	B-425	80	81.3	Layer 1	31.7				
CLA	B-413	83.5	84.3	Layer 1	21				
CLA	B-414	83.5	84.3	Layer 1	19				16.6
CLA	B-415	83.5	85	Layer 1	17				17.8
CLA	B-421	83.5	83.8	Layer 1	20.5				
CLA	B-423	83.5	85	Layer 1	25.6				
CLA	B-434	83.5	84	Layer 1	19.8	30	22	8	
CLA	B-425	85	86.5	Layer 1	19				
CLA	B-401	88.5	90	Layer 1	35.3				38.3
CLA	B-421	88.5	90	Layer 1	26				14.5
CLA	B-423	88.5	90	Layer 1	23.1				
CLA	B-434	88.5	90	Layer 1	15.6				
CLA	B-425	90	91.5	Layer 1	20.5				

Table A.3. Index Properties - CLA

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-414	93.5	94.2	Layer 1	20.1				39.7
CLA	B-421	93.5	95	Layer 1	20.7	NV	NP	NP	
CLA	B-423	93.5	95	Layer 1	29.8				13
CLA	B-427	93.5	93.8	Layer 1	12				34.8
CLA	B-425	95	95.3	Layer 1	17.9				
CLA	B-413	98.5	99.9	Layer 1	34.9				15.9
CLA	B-414	98.5	99.3	Layer 1	13.5				19.6
CLA	B-423	98.5	100	Layer 1	27.4				
CLA	B-413	108.5	110	Layer 1	24.8				9.6
				Minimum	**12.0**	**NV**	**NP**	**NP**	**6.0**
				Maximum	**35.3**	**44.0**	**35.0**	**27.0**	**48.2**
				Average	**23.2**	**20.8**	**13.0**	**7.8**	**23.6**
				Standard Deviation	**4.7**	**20.5**	**13.4**	**9.3**	**13.2**
CLA	B-418	2.5	4	Layer 2	27.9				
CLA	B-418	7.5	9	Layer 2	30.9	NV	NP	NP	
CLA	B-418	13.5	15	Layer 2	32.7	49	22	27	
CLA	B-418	23.5	25	Layer 2	25.2				
CLA	B-418	33.5	35	Layer 2	28.4				
CLA	B-420	43.5	45	Layer 2	26.5				17.1
CLA	B-440	43.5	45	Layer 2	27.1				17.6
CLA	B-420	48.5	50	Layer 2	28.4				
CLA	B-440	51	53	Layer 2	30	30	21	9	18
CLA	B-404	52	53.5	Layer 2	27.7	NV	NP	NP	10.8
CLA	B-420	53.5	55	Layer 2	28				
CLA	B-420	58.5	60	Layer 2	34.9				
CLA	B-407	63.5	65	Layer 2	28.1				
CLA	B-411	63.5	65	Layer 2	34.4				11.4
CLA	B-420	63.5	65.5	Layer 2	28.3	49	11	38	19.1
CLA	B-407	68.5	70	Layer 2	30				11.4
CLA	B-407	73.5	75	Layer 2	27.3				
CLA	B-411	73.5	75	Layer 2	32				
CLA	B-416	73.5	75	Layer 2	29.5				
CLA	B-407	83.5	85	Layer 2	38.3				14.8
CLA	B-411	83.5	85	Layer 2	36.4				
CLA	B-416	88.5	90	Layer 2	33.5				
CLA	B-433	93.5	95	Layer 2	31.5				12.1
CLA	B-434	93.5	95	Layer 2	31.2	NV	NP	NP	
CLA	B-421	98.5	100	Layer 2	28.4				
CLA	B-434	98.5	100	Layer 2	25.6				
CLA	B-421	103.5	105	Layer 2	26				
CLA	B-423	103.5	105.5	Layer 2	23.1	24	18	6	9.7
CLA	B-427	103.5	105	Layer 2	24.8				11.2
CLA	B-421	108.5	110	Layer 2	26.1	NV	NP	NP	14
CLA	B-423	108.5	110	Layer 2	30.8				
CLA	B-413	113.5	115	Layer 2	26.3				
CLA	B-421	113.5	115	Layer 2	31.7				18.4

Table A.3. Index Properties - CLA

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-413	118.5	120	Layer 2	32.5				16.2
CLA	B-421	118.5	120	Layer 2	27.8	NV	NP	NP	
CLA	B-427	118.5	120	Layer 2	29.2				24.2
CLA	B-413	123.5	125	Layer 2	35.1				
				Minimum	**23.1**	**NV**	**NP**	**NP**	**9.7**
				Maximum	**38.3**	**49.0**	**22.0**	**38.0**	**24.2**
				Average	**29.6**	**16.9**	**8.0**	**8.9**	**15.1**
				Standard Deviation	**3.5**	**21.5**	**10.0**	**14.0**	**4.1**
CLA	B-418	43.5	45	Layer 3	27.4				
CLA	B-418	53.5	55	Layer 3	23.3				
CLA	B-440	63.5	65	Layer 3	19.4				19.5
CLA	B-420	68.5	70	Layer 3	16.8				20.7
CLA	B-420	73.5	75	Layer 3	24.4				
CLA	B-420	78.5	80	Layer 3	26.2	48	32	16	39.5
CLA	B-440	78.5	80	Layer 3	41				28.7
CLA	B-404	83.5	84.9	Layer 3	32.2	53	28	25	33.9
CLA	B-407	88.5	90	Layer 3	12.4				
CLA	B-407	98.5	100	Layer 3	30.8				
CLA	B-423	118.5	119.8	Layer 3	26.2	NV	NP	NP	19.6
CLA	B-423	123.5	125	Layer 3	33.9				
CLA	B-413	128.5	130	Layer 3	18.7				
CLA	B-421	128.5	130	Layer 3	22				
CLA	B-423	128.5	130	Layer 3	31.9				21.4
CLA	B-427	128.5	130	Layer 3	31.4				
CLA	B-413	133.5	135	Layer 3	24.8				28.8
CLA	B-421	133.5	135	Layer 3	29				41.7
CLA	B-413	138.5	140	Layer 3	27.5				
CLA	B-413	143.5	145	Layer 3	32.1				
CLA	B-413	148.5	150	Layer 3	39.8				28.7
				Minimum	**12.4**	**NV**	**NP**	**NP**	**19.5**
				Maximum	**41.0**	**53.0**	**32.0**	**25.0**	**41.7**
				Average	**27.2**	**33.7**	**20.0**	**13.7**	**28.3**
				Standard Deviation	**7.1**	**29.3**	**17.4**	**12.7**	**8.1**
CLA	B-401	293.5	294.7	Nanjemoy sand	20.7				
CLA	B-401	307.5	309	Nanjemoy sand	27.4	57	42	15	16.3
CLA	B-401	318.5	320	Nanjemoy sand	28.9	58	28	30	
CLA	B-401	338.5	340	Nanjemoy sand	25.3				
CLA	B-401	348.5	350.5	Nanjemoy sand	35.6	52	39	13	23
CLA	B-401	368.5	370	Nanjemoy sand	36.9				11.7
CLA	B-401	400	401.5	Nanjemoy sand	33.1				18.2
				Minimum	**20.7**	**52.0**	**28.0**	**13.0**	**11.7**
				Maximum	**36.9**	**58.0**	**42.0**	**30.0**	**23.0**
				Average	**29.7**	**55.7**	**36.3**	**19.3**	**17.3**
				Standard Deviation	**5.8**	**3.2**	**7.4**	**9.3**	**4.7**
CLA	B-420	2.5	4	Stratum a	28.6	68	23	45	
CLA	B-420	5	6.5	Stratum a	29.7	64	22	42	89.7

Table A.3. Index Properties - CLA

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-420	7.5	9	Stratum a	38.3	71	19	52	
CLA	B-401	10.5	12	Stratum a	26.6	66	20	46	85.3
CLA	B-401	13.5	15	Stratum a	34.2	62	20	42	
CLA	B-411	13.5	15	Stratum a	31				
CLA	B-420	13.5	15	Stratum a	42.1	74	31	43	94.2
CLA	B-401	18.5	20	Stratum a	36.9	70	37	33	
CLA	B-420	18.5	20	Stratum a	28.6				
CLA	B-401	23.5	25	Stratum a	27.9	47	28	19	52.1
CLA	B-411	23.5	25.5	Stratum a	37.9	61	19	42	95
CLA	B-407	28.5	30	Stratum a	35.1				
CLA	B-416	28.5	30	Stratum a	33.7	58	17	41	87.7
CLA	B-407	33.5	35	Stratum a	39.4	77	43	34	96
CLA	B-411	33.5	35	Stratum a	24.4				
CLA	B-433	38.5	40.5	Stratum a	33.5	61	14	47	91
CLA	B-423	43.5	45	Stratum a	30.9	55	20	35	73
CLA	B-433	43.5	45	Stratum a	33.5	59	22	37	
CLA	B-421	48.5	50.5	Stratum a	28.8	50	18	32	69.5
CLA	B-423	48.5	50	Stratum a	36.6	61	16	45	
CLA	B-433	48.5	50.5	Stratum a	33.6	64	23	41	94.5
CLA	B-434	48.5	50	Stratum a	38.2	73	24	49	
CLA	B-413	53.5	55	Stratum a	25.7	56	27	29	
CLA	B-421	53.5	55	Stratum a	29.6				
CLA	B-423	53.5	55	Stratum a	38.1	80	34	46	81.2
CLA	B-433	53.5	55	Stratum a	21	45	18	27	
CLA	B-434	53.5	55.5	Stratum a	87.8	56	23	33	94.9
CLA	B-425	57	59	Stratum a	31.2	55	25	30	81.8
CLA	B-414	58	60	Stratum a	33.2	58	19	39	84.9
CLA	B-413	58.5	60	Stratum a	27.5	58	29	29	70.5
CLA	B-415	58.5	60	Stratum a	36.6	61	21	40	93.3
CLA	B-421	58.5	60.5	Stratum a	34.2	78	32	46	86.9
CLA	B-423	58.5	60	Stratum a	33.8	78	45	33	
CLA	B-434	58.5	60	Stratum a	36.6	86	22	64	94.7
CLA	B-425	60	61.5	Stratum a	35.1	63	21	42	
CLA	B-428	60	62	Stratum a	37.1	61	17	44	92.6
CLA	B-406	63.5	65.5	Stratum a	36.1	63	19	44	90.1
CLA	B-414	63.5	65	Stratum a	38.3				
CLA	B-421	63.5	65	Stratum a	28.6				
CLA	B-423	63.5	65	Stratum a	21.9	37	27	10	
CLA	B-427	63.5	65.5	Stratum a	32.8	56	18	38	61.3
CLA	B-425	65	67	Stratum a	39.5	69	28	41	89.6
CLA	B-414	68	70	Stratum a	36.7	51	15	36	96.8
CLA	B-425	70	71.5	Stratum a	38.4	77	42	35	
CLA	B-413	73	75	Stratum a	35.5	51	15	36	97.5
CLA	B-414	73.5	75	Stratum a	22.9	39	20	19	52.8
				Minimum	**21.0**	**37.0**	**14.0**	**10.0**	**52.1**
				Maximum	**87.8**	**86.0**	**45.0**	**64.0**	**97.5**

Table A.3. Index Properties - CLA

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
				Average	**34.1**	**62.0**	**23.9**	**38.1**	**84.5**
				Standard Deviation	**9.5**	**11.1**	**7.8**	**9.7**	**13.3**
CLA	B-418	63.5	65	Stratum c	32.1				
CLA	B-418	73.5	75	Stratum c	41.7				
CLA	B-420	83.5	85	Stratum c	47.3	60	39	21	
CLA	B-418	88.5	90	Stratum c	49.8	76	49	27	
CLA	B-420	88.5	90	Stratum c	55.3	90	35	55	
CLA	B-411	93.5	95	Stratum c	31.6				
CLA	B-420	93.5	95	Stratum c	39.4				
CLA	B-409	95	96.5	Stratum c	33.1	61	42	19	37.6
CLA	B-401	98.5	99.8	Stratum c	50.5	78	48	30	64.8
CLA	B-418	98.5	100	Stratum c	36.7	46	25	21	
CLA	B-420	98.5	100	Stratum c	34.8	49	30	19	
CLA	B-411	103.5	105	Stratum c	38.2	43	30	13	
CLA	B-420	103.5	105	Stratum c	38.5	57	42	15	38.1
CLA	B-401	108.5	110	Stratum c	35.6				34.2
CLA	B-407	108.5	110	Stratum c	47.8				56.2
CLA	B-418	108.5	110	Stratum c	39.8	55	38	17	
CLA	B-420	108.5	110	Stratum c	46.4	80	51	29	
CLA	B-401	113.5	115	Stratum c	46.1				
CLA	B-411	113.5	115	Stratum c	40.4				
CLA	B-420	113.5	115	Stratum c	64.9	118	38	80	
CLA	B-407	118.5	120	Stratum c	34.2				
CLA	B-420	118.5	120	Stratum c	41.6	65	40	25	
CLA	B-401	123.5	124.8	Stratum c	57.4	85	54	31	82.4
CLA	B-407	123.5	125	Stratum c	42.2				
CLA	B-411	123.5	125	Stratum c	42.7	63	43	20	
CLA	B-418	123.5	125	Stratum c	56.4	106	41	65	
CLA	B-420	123.5	125	Stratum c	47.5	83	29	54	
CLA	B-401	128.5	130	Stratum c	43.8				56.6
CLA	B-420	128.5	130.3	Stratum c	39	59	34	25	50.1
CLA	B-420	133.5	135	Stratum c	73.4	147	75	72	76.6
CLA	B-423	133.5	135	Stratum c	37.1				
CLA	B-401	138.5	140.5	Stratum c	44.1	80	31	49	67.5
CLA	B-407	138.5	140	Stratum c	49.2				43.3
CLA	B-418	138.5	140	Stratum c	64.4	103	63	40	
CLA	B-420	138.5	140	Stratum c	78.8	145	76	69	
CLA	B-421	138.5	140	Stratum c	38.5	53	25	28	
CLA	B-423	138.5	140	Stratum c	45.1				43.2
CLA	B-427	138.5	140	Stratum c	38.5				29.8
CLA	B-401	143.5	145	Stratum c	77.1	142	104	38	
CLA	B-407	143.5	145	Stratum c	56.4	92	63	29	
CLA	B-420	143.5	145	Stratum c	58.9	107	56	51	75.4
CLA	B-421	143.5	145	Stratum c	46.8				
CLA	B-423	143.5	145	Stratum c	38.9				
CLA	B-401	148.5	150	Stratum c	72.7	150	89	61	86.6

Table A.3. Index Properties - CLA

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-407	148.5	150	Stratum c	43.1	81	45	36	
CLA	B-418	148.5	150	Stratum c	52.6	69	27	42	
CLA	B-420	148.5	150	Stratum c	74.2	127	100	27	61.3
CLA	B-421	148.5	150	Stratum c	47.4				
CLA	B-423	148.5	150	Stratum c	32.8				32.9
CLA	B-427	148.5	150	Stratum c	44.3				33.1
CLA	B-401	153.5	155	Stratum c	68.8	142	93	49	
CLA	B-423	153.5	155	Stratum c	44.9				
CLA	B-401	158.5	159.3	Stratum c	49.9	81	54	27	59.2
CLA	B-407	158.5	160	Stratum c	78.4				
CLA	B-423	158.5	160	Stratum c	44.9	74	18	56	87.6
CLA	B-407	163.5	165	Stratum c	62.7	120	50	70	
CLA	B-423	163.5	165	Stratum c	59.7				
CLA	B-401	168.5	170	Stratum c	53.9	103	52	51	71.8
CLA	B-407	168.5	170	Stratum c	55.2	104	69	35	
CLA	B-418	168.5	170	Stratum c	57.3	76	49	27	
CLA	B-423	168.5	170	Stratum c	41				
CLA	B-401	173.5	174.4	Stratum c	33.7	57	17	40	98.2
CLA	B-407	173.5	175	Stratum c	53.7	102	37	65	
CLA	B-423	173.5	175	Stratum c	49.7				
CLA	B-407	178.5	180	Stratum c	50.9	102	40	62	
CLA	B-423	178.5	179.5	Stratum c	41.5	64	34	30	46.4
CLA	B-401	183.5	185	Stratum c	31.2				32.2
CLA	B-407	183.5	185	Stratum c	82.2	154	97	57	59.1
CLA	B-418	183.5	185	Stratum c	56.7	100	60	40	
CLA	B-423	183.5	185	Stratum c	73.3				
CLA	B-407	188.5	190	Stratum c	32.6				
CLA	B-423	188.5	180	Stratum c	72.4	111	70	41	90.6
CLA	B-401	193.5	195	Stratum c	49.2				
CLA	B-407	193.5	195	Stratum c	31.6				
CLA	B-423	193.5	195	Stratum c	71				
CLA	B-401	198.5	200.3	Stratum c	48.8	82	55	27	45.3
CLA	B-407	198.5	200	Stratum c	32.7				22.4
CLA	B-418	198.5	200	Stratum c	66.5	109	71	38	
CLA	B-423	200	201.5	Stratum c	45.3				
CLA	B-401	203.5	205	Stratum c	58.4	94	69	25	
CLA	B-401	208.5	210	Stratum c	62.7	113	74	39	64.5
CLA	B-401	218.5	220	Stratum c	77.4				64.6
CLA	B-401	228.5	229.6	Stratum c	58.6	139	88	51	80.4
CLA	B-401	238.5	240	Stratum c	122.5				
CLA	B-401	243.5	244.4	Stratum c	96.2	140	65	75	98.7
CLA	B-401	248.5	250	Stratum c	122.8	218	100	118	
CLA	B-401	258.5	260	Stratum c	130.2				
CLA	B-401	268.5	270	Stratum c	63.5				43
CLA	B-401	284.5	286	Stratum c	30.2	76	42	34	
				Minimum	**30.2**	**43.0**	**17.0**	**13.0**	**22.4**

Table A.3. Index Properties - CLA

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
				Maximum	**130.2**	**218.0**	**104.0**	**118.0**	**98.7**
				Average	**53.2**	**94.8**	**53.2**	**41.6**	**58.6**
				Standard Deviation	**19.6**	**35.0**	**22.6**	**20.5**	**21.3**
CLA	B-421	0	1.5	Terrace Sand	11.6				
CLA	B-425	0	1.5	Terrace Sand	13.7				
CLA	B-401	2.5	4	Terrace Sand	3.6				
CLA	B-407	2.5	4	Terrace Sand	4.8	NV	NP	NP	
CLA	B-411	2.5	4	Terrace Sand	6.8				
CLA	B-421	2.5	4	Terrace Sand	14.8				
CLA	B-423	2.5	4	Terrace Sand	4.9				12.5
CLA	B-427	2.5	4	Terrace Sand	9.4				30.6
CLA	B-425	3.5	5	Terrace Sand	7.3				7.9
CLA	B-415	5	6.5	Terrace Sand	3.6				5.8
CLA	B-416	5	6.5	Terrace Sand	3.8				
CLA	B-421	5	6.5	Terrace Sand	11.9				
CLA	B-425	5	6.5	Terrace Sand	2.5				
CLA	B-433	5	6.5	Terrace Sand	27				
CLA	B-411	7.5	9	Terrace Sand	27.4				
CLA	B-413	7.5	9	Terrace Sand	9.7				10.2
CLA	B-414	7.5	9	Terrace Sand	4.2				
CLA	B-421	7.5	9	Terrace Sand	7.6				14
CLA	B-427	7.5	9	Terrace Sand	7.9				
CLA	B-434	7.5	9	Terrace Sand	11.8				
CLA	B-436	7.5	9	Terrace Sand	3.3				4.9
CLA	B-425	8.5	10	Terrace Sand	10.8				
CLA	B-425	10	11.5	Terrace Sand	14.2				
CLA	B-407	10.5	12	Terrace Sand	12.3				
CLA	B-421	10.5	12	Terrace Sand	11.8	NV	NP	NP	
CLA	B-433	10.5	12	Terrace Sand	5.8				10.2
CLA	B-415	13.5	15	Terrace Sand	2.5				3.4
CLA	B-416	13.5	15	Terrace Sand	13				
CLA	B-421	13.5	15	Terrace Sand	9.2				
CLA	B-423	13.5	15	Terrace Sand	12.3	NV	NP	NP	
CLA	B-425	13.5	15	Terrace Sand	16.4				6.5
CLA	B-434	13.5	15	Terrace Sand	7				13.9
CLA	B-437	13.5	15.5	Terrace Sand	7.2	NV	NP	NP	5.6
CLA	B-407	18.5	20	Terrace Sand	24.9				30.4
CLA	B-413	18.5	20	Terrace Sand	12.9				10.1
CLA	B-414	18.5	20	Terrace Sand	9.2				
CLA	B-421	18.5	20	Terrace Sand	9.4				10.1
CLA	B-423	18.5	20	Terrace Sand	10.4				
CLA	B-427	18.5	20	Terrace Sand	8.2				12.5
CLA	B-434	18.5	20	Terrace Sand	10.6				
CLA	B-425	20	21.5	Terrace Sand	11.1				
CLA	B-421	23.5	25	Terrace Sand	11	NV	NP	NP	
CLA	B-423	23.5	25	Terrace Sand	16.6				11.8

Table A.3. Index Properties - CLA

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-433	23.5	25	Terrace Sand	14.4				
CLA	B-436	23.5	25	Terrace Sand	11.1				8.1
CLA	B-425	25	26.5	Terrace Sand	11.6				
CLA	B-415	28.5	30	Terrace Sand	13.5				10.4
CLA	B-421	28.5	30	Terrace Sand	15.6				11.4
CLA	B-423	28.5	30	Terrace Sand	17.4				
CLA	B-427	28.5	30	Terrace Sand	12.2				8.4
CLA	B-434	28.5	30	Terrace Sand	21.9				27.2
CLA	B-425	30	31.5	Terrace Sand	15.2				11.3
CLA	B-413	33.5	35	Terrace Sand	8.6				8.2
CLA	B-414	33.5	35	Terrace Sand	9.7				
CLA	B-423	33.5	35	Terrace Sand	13.6	NV	NP	NP	
CLA	B-433	33.5	35	Terrace Sand	23.3				
CLA	B-434	33.5	35	Terrace Sand	26.6				
CLA	B-436	33.5	35	Terrace Sand	25.2				26.3
CLA	B-425	35	36.5	Terrace Sand	12				
CLA	B-421	38.5	40	Terrace Sand	17.3				
CLA	B-423	38.5	40	Terrace Sand	43.9	43	15	28	36.9
CLA	B-427	38.5	40	Terrace Sand	13.6				
CLA	B-434	38.5	40	Terrace Sand	27.4	NV	NP	NP	
CLA	B-425	40	41.5	Terrace Sand	14.9				7.4
CLA	B-414	43.5	45	Terrace Sand	20.6	NV	NP	NP	22.1
CLA	B-415	43.5	45	Terrace Sand	28.2	26	22	4	31.1
CLA	B-421	43.5	45	Terrace Sand	31.5				
CLA	B-425	45	46.5	Terrace Sand	13.7				
CLA	B-413	48.5	50	Terrace Sand	26.9	NV	NP	NP	31.5
CLA	B-414	48.5	50	Terrace Sand	27.7	NV	NP	NP	33.5
CLA	B-427	48.5	50	Terrace Sand	18.6				6.3
CLA	B-425	50	51.5	Terrace Sand	12.1	28	17	11	10.1
CLA	B-414	53.5	55	Terrace Sand	28	42	23	19	60.4
CLA	B-425	55	56.5	Terrace Sand	28.2	46	19	27	
				Minimum	**2.5**	**NV**	**NP**	**NP**	**3.4**
				Maximum	**43.9**	**46.0**	**23.0**	**28.0**	**60.4**
				Average	**14.2**	**12.3**	**6.4**	**5.9**	**16.2**
				Standard Deviation	**8.2**	**18.7**	**9.5**	**10.3**	**12.5**

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-420	23.5	25	Layer 1	24.4	NV	NP	NP	
CLA	B-440	23.5	25	Layer 1	22.1				8.4
CLA	B-401	33.5	34.4	Layer 1	20.8				
CLA	B-420	33.5	35	Layer 1	24.2				
CLA	B-440	33.5	35	Layer 1	20.1				28.4
CLA	B-409	35	36.2	Layer 1	23.3	NV	NP	NP	6
CLA	B-420	38.5	39.8	Layer 1	20	30	19	11	
CLA	B-401	43.5	44.3	Layer 1	21.4				21.2
CLA	B-407	43.5	45	Layer 1	23.3				17.4
CLA	B-411	43.5	44.5	Layer 1	24				15
CLA	B-416	43.5	45	Layer 1	25.6				
CLA	B-401	53.5	55	Layer 1	31.6				
CLA	B-411	53.5	55	Layer 1	25.2	44	17	27	
CLA	B-401	58.5	60	Layer 1	25				13.1
CLA	B-416	58.5	60	Layer 1	26.2				15.5
CLA	B-433	58.5	60	Layer 1	29.3	44	35	9	48.2
CLA	B-434	63.5	65.5	Layer 1	23.7	NV	NP	NP	36.9
CLA	B-421	68.5	70	Layer 1	22.2				33.1
CLA	B-423	68.5	69.2	Layer 1	25.4	NV	NP	NP	
CLA	B-434	68.5	69.4	Layer 1	25				
CLA	B-415	73.5	75	Layer 1	26.3	40	30	10	47.8
CLA	B-421	73.5	74	Layer 1	24.9				
CLA	B-423	73.5	74	Layer 1	22.8				
CLA	B-433	73.5	75	Layer 1	23.7				11.6
CLA	B-434	73.5	74.5	Layer 1	22.6				
CLA	B-425	75	77	Layer 1	21.8	41	20	21	45.1
CLA	B-401	78.5	80	Layer 1	17.5				
CLA	B-413	78.5	80	Layer 1	26.1				34.6
CLA	B-414	78.5	80	Layer 1	29.8				
CLA	B-421	78.5	80	Layer 1	19.7				
CLA	B-423	78.5	80	Layer 1	21.9				11.3
CLA	B-427	78.5	79.3	Layer 1	23.1				
CLA	B-434	78.5	80	Layer 1	15.6				
CLA	B-425	80	81.3	Layer 1	31.7				
CLA	B-413	83.5	84.3	Layer 1	21				
CLA	B-414	83.5	84.3	Layer 1	19				16.6
CLA	B-415	83.5	85	Layer 1	17				17.8
CLA	B-421	83.5	83.8	Layer 1	20.5				
CLA	B-423	83.5	85	Layer 1	25.6				
CLA	B-434	83.5	84	Layer 1	19.8	30	22	8	
CLA	B-425	85	86.5	Layer 1	19				
CLA	B-401	88.5	90	Layer 1	35.3				38.3
CLA	B-421	88.5	90	Layer 1	26				14.5
CLA	B-423	88.5	90	Layer 1	23.1				
CLA	B-434	88.5	90	Layer 1	15.6				
CLA	B-425	90	91.5	Layer 1	20.5				

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-414	93.5	94.2	Layer 1	20.1				39.7
CLA	B-421	93.5	95	Layer 1	20.7	NV	NP	NP	
CLA	B-423	93.5	95	Layer 1	29.8				13
CLA	B-427	93.5	93.8	Layer 1	12				34.8
CLA	B-425	95	95.3	Layer 1	17.9				
CLA	B-413	98.5	99.9	Layer 1	34.9				15.9
CLA	B-414	98.5	99.3	Layer 1	13.5				19.6
CLA	B-423	98.5	100	Layer 1	27.4				
CLA	B-413	108.5	110	Layer 1	24.8				9.6
Unit 3	B-314	13.5	15.5	Layer 1	25.9	54	11	43	35
Unit 3	B-313	18.5	20	Layer 1	23.1				
Unit 3	B-314	18.5	19.4	Layer 1	24.2				
Unit 3	B-315	18.5	20	Layer 1	28.3				
Unit 3	B-313	23.5	25	Layer 1	21.1	NV	NP	NP	
Unit 3	B-314	23.5	24.4	Layer 1	22.6	NV	NP	NP	
Unit 3	B-315	23.5	25.5	Layer 1	23.3	41	11	30	35
Unit 3	B-304	28.5	30	Layer 1	32.3				
Unit 3	B-313	28.5	30	Layer 1	18.2	NV	NP	NP	
Unit 3	B-314	28.5	30	Layer 1	20.3				
Unit 3	B-315	28.5	30	Layer 1	27.6				
Unit 3	B-321	28.5	30	Layer 1	27	47	29	18	43.6
Unit 3	B-328	28.5	30	Layer 1	30.5	40	21	19	42.6
Unit 3	B-304	33.5	33.9	Layer 1	20.1				
Unit 3	B-313	33.5	34	Layer 1	28.1	38	21	17	
Unit 3	B-314	33.5	35	Layer 1	25.4	42	22	20	
Unit 3	B-321	33.5	34.3	Layer 1	30.9				
Unit 3	B-328	33.5	35	Layer 1	18.2				
Unit 3	B-331	33.5	34.8	Layer 1	21.9				8.3
Unit 3	B-337	33.5	35	Layer 1	29				
Unit 3	B-304	38.5	39.4	Layer 1	19.3				8.5
Unit 3	B-313	38.5	39.3	Layer 1	17.1				
Unit 3	B-314	38.5	39.8	Layer 1	26.8	NV	NP	NP	
Unit 3	B-315	38.5	40	Layer 1	22.2	NV	NP	NP	13.2
Unit 3	B-321	38.5	40	Layer 1	27.1				9
Unit 3	B-328	38.5	38.8	Layer 1	22.6				7.8
Unit 3	B-305	39.5	41.5	Layer 1	34.7	72	22	50	49.5
Unit 3	B-304	43.5	45	Layer 1	21.9				
Unit 3	B-328	43.5	45	Layer 1	24.2	NV	NP	NP	10.8
Unit 3	B-333	43.5	45	Layer 1	26.1				38.8
Unit 3	B-334	43.5	45	Layer 1	27				
Unit 3	B-304	48.5	49.8	Layer 1	14.5	25	18	7	
Unit 3	B-317	48.5	50.5	Layer 1	22.8	35	17	18	69.8
Unit 3	B-328	48.5	49.6	Layer 1	25.8				
Unit 3	B-333	48.5	48.8	Layer 1	25.2	34	13	21	20
Unit 3	B-334	48.5	49.8	Layer 1	27.2				26.2
Unit 3	B-339	48.5	50	Layer 1	27.8	40	20	20	

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-304	53.5	54	Layer 1	13.5				
Unit 3	B-328	53.5	55	Layer 1	24				21.9
Unit 3	B-333	53.5	55	Layer 1	20.9				13.4
Unit 3	B-334	53.5	55	Layer 1	21.4				
Unit 3	B-339	53.5	55	Layer 1	30.8	48	30	18	33.7
Unit 3	B-316	58.5	60	Layer 1	24.4				
Unit 3	B-317	58.5	59.8	Layer 1	26				
Unit 3	B-319	58.5	60	Layer 1	26.7	40	32	8	
Unit 3	B-339	58.5	59.4	Layer 1	28.1	NV	NP	NP	
Unit 3	B-301A	61	62	Layer 1	21.5	NV	NP	NP	31.8
Unit 3	B-301	63.5	64.2	Layer 1	20.4				2.1
Unit 3	B-316	63.5	65	Layer 1	31.3				
Unit 3	B-334	63.5	63.9	Layer 1	19	NV	NP	NP	29.8
Unit 3	B-316	68.5	69.3	Layer 1	19.8				16.5
Unit 3	B-323	68.5	70	Layer 1	29	46	24	22	32.8
Unit 3	B-336	68.5	70	Layer 1	19.6				
Unit 3	B-307	73.5	75	Layer 1	24.9				
Unit 3	B-316	73.5	74	Layer 1	21.2				
Unit 3	B-317	73.5	74.4	Layer 1	22.3				
Unit 3	B-319	73.5	74.8	Layer 1	17.5				13.6
Unit 3	B-320	73.5	74.2	Layer 1	18.8				15.3
Unit 3	B-307	83.5	84.3	Layer 1	20.6				13
Unit 3	B-319	83.5	84.8	Layer 1	18.2				25.7
Unit 3	B-323	83.5	84.8	Layer 1	36.2	42	20	22	72.7
Unit 3	B-307	88.5	90	Layer 1	21.5	NV	NP	NP	
Unit 3	B-307	93.5	95	Layer 1	27.7				17.9
Unit 3	B-323	93.5	95	Layer 1	26.3	NV	NP	NP	27.9
				Minimum	**12.0**	**NV**	**NP**	**NP**	**2.1**
				Maximum	**36.2**	**72.0**	**35.0**	**50.0**	**72.7**
				Average	**23.7**	**23.6**	**12.3**	**11.3**	**25.0**
				Standard Deviation	**4.7**	**22.1**	**11.9**	**12.9**	**15.5**
CLA	B-418	2.5	4	Layer 2	27.9				
CLA	B-418	7.5	9	Layer 2	30.9	NV	NP	NP	
CLA	B-418	13.5	15	Layer 2	32.7	49	22	27	
CLA	B-418	23.5	25	Layer 2	25.2				
CLA	B-418	33.5	35	Layer 2	28.4				
CLA	B-420	43.5	45	Layer 2	26.5				17.1
CLA	B-440	43.5	45	Layer 2	27.1				17.6
CLA	B-420	48.5	50	Layer 2	28.4				
CLA	B-440	51	53	Layer 2	30	30	21	9	18
CLA	B-404	52	53.5	Layer 2	27.7	NV	NP	NP	10.8
CLA	B-420	53.5	55	Layer 2	28				
CLA	B-420	58.5	60	Layer 2	34.9				
CLA	B-407	63.5	65	Layer 2	28.1				
CLA	B-411	63.5	65	Layer 2	34.4				11.4
CLA	B-420	63.5	65.5	Layer 2	28.3	49	11	38	19.1

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-407	68.5	70	Layer 2	30				11.4
CLA	B-407	73.5	75	Layer 2	27.3				
CLA	B-411	73.5	75	Layer 2	32				
CLA	B-416	73.5	75	Layer 2	29.5				
CLA	B-407	83.5	85	Layer 2	38.3				14.8
CLA	B-411	83.5	85	Layer 2	36.4				
CLA	B-416	88.5	90	Layer 2	33.5				
CLA	B-433	93.5	95	Layer 2	31.5				12.1
CLA	B-434	93.5	95	Layer 2	31.2	NV	NP	NP	
CLA	B-421	98.5	100	Layer 2	28.4				
CLA	B-434	98.5	100	Layer 2	25.6				
CLA	B-421	103.5	105	Layer 2	26				
CLA	B-423	103.5	105.5	Layer 2	23.1	24	18	6	9.7
CLA	B-427	103.5	105	Layer 2	24.8				11.2
CLA	B-421	108.5	110	Layer 2	26.1	NV	NP	NP	14
CLA	B-423	108.5	110	Layer 2	30.8				
CLA	B-413	113.5	115	Layer 2	26.3				
CLA	B-421	113.5	115	Layer 2	31.7				18.4
CLA	B-413	118.5	120	Layer 2	32.5				16.2
CLA	B-421	118.5	120	Layer 2	27.8	NV	NP	NP	
CLA	B-427	118.5	120	Layer 2	29.2				24.2
CLA	B-413	123.5	125	Layer 2	35.1				
Unit 3	B-789	15	16.5	Layer 2	31.1				
Unit 3	B-789	18.5	20	Layer 2	32				
Unit 3	B-789	23.5	25	Layer 2	27.3				
Unit 3	B-313	43.5	45	Layer 2	29.3	34	27	7	
Unit 3	B-314	43.5	45	Layer 2	31.9				
Unit 3	B-321	43.5	45	Layer 2	26				
Unit 3	B-331	43.5	45	Layer 2	31.6				50.6
Unit 3	B-313	48.5	50	Layer 2	27.9				
Unit 3	B-314	48.5	50	Layer 2	25.4				
Unit 3	B-321	48.5	49.5	Layer 2	35.1				73
Unit 3	B-337	48.5	50	Layer 2	39.9				
Unit 3	B-313	53.5	55	Layer 2	31.5	NP	NP	NP	
Unit 3	B-314	53.5	55	Layer 2	32.8	NV	NP	NP	
Unit 3	B-315	53.5	55	Layer 2	25.6	NV	NP	NP	
Unit 3	B-321	53.5	55	Layer 2	25	NV	NP	NP	14.3
Unit 3	B-337	53.5	55.5	Layer 2	25.7	38	19	19	39
Unit 3	B-304	58.5	60	Layer 2	29.1	NV	NP	NP	12.4
Unit 3	B-314	58.5	60	Layer 2	33	NV	NP	NP	
Unit 3	B-321	58.5	60	Layer 2	27.4				18.6
Unit 3	B-331	58.5	60	Layer 2	26.6				
Unit 3	B-333	58.5	60	Layer 2	34.5				
Unit 3	B-304	63.5	65	Layer 2	29.4	30	23	7	14.6
Unit 3	B-314	63.5	65	Layer 2	40.3	59	24	35	
Unit 3	B-315	63.5	65	Layer 2	29.4	NV	NP	NP	11.9

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-321	63.5	65	Layer 2	27.6				
Unit 3	B-328	63.5	65.5	Layer 2	44.2	72	41	31	87
Unit 3	B-339	63.5	65	Layer 2	25	49	21	28	15.5
Unit 3	B-304	68.5	70	Layer 2	29.5				
Unit 3	B-321	68.5	70	Layer 2	28.4				16
Unit 3	B-328	68.5	70	Layer 2	29.4	NV	NP	NP	
Unit 3	B-339	68.5	70	Layer 2	38.8	53	38	15	
Unit 3	B-315	73.5	75	Layer 2	36.3	58	18	40	
Unit 3	B-321	73.5	75.5	Layer 2	28.5	NV	NP	NP	15.3
Unit 3	B-328	73.5	75	Layer 2	32.2	NV	NP	NP	
Unit 3	B-331	73.5	75	Layer 2	35.8				
Unit 3	B-334	73.5	75	Layer 2	27.3				12.6
Unit 3	B-337	73.5	75	Layer 2	30.9				
Unit 3	B-321	78.5	80	Layer 2	34.9				
Unit 3	B-301	83.5	85	Layer 2	26.5				21
Unit 3	B-334	83.5	85	Layer 2	28				13.8
Unit 3	B-336	83.5	85	Layer 2	27.3				
Unit 3	B-339	83.5	85	Layer 2	31.5				
Unit 3	B-319	88.5	90	Layer 2	29.8				18.9
Unit 3	B-331	88.5	90	Layer 2	32.7				
Unit 3	B-339	88.5	90	Layer 2	29				11
Unit 3	B-301	93.5	95	Layer 2	25.8				
Unit 3	B-316	93.5	95	Layer 2	32				17.7
Unit 3	B-320	93.5	95	Layer 2	25.4				15.1
Unit 3	B-339	93.5	95	Layer 2	31.7				
Unit 3	B-316	98.5	100	Layer 2	27.7				
Unit 3	B-319	98.5	100	Layer 2	30	NV	NP	NP	12.9
Unit 3	B-336	98.5	100	Layer 2	32.1				
Unit 3	B-339	98.5	100	Layer 2	32.7				
Unit 3	B-320	103.5	105	Layer 2	29.2				16.8
Unit 3	B-323	103.5	105	Layer 2	28.6	NV	NP	NP	10.6
Unit 3	B-323	113.5	115	Layer 2	30.2				18.1
				Minimum	**23.1**	**NV**	**NP**	**NP**	**9.7**
				Maximum	**44.2**	**72.0**	**41.0**	**40.0**	**87.0**
				Average	**30.1**	**18.8**	**9.8**	**9.0**	**20.1**
				Standard Deviation	**3.9**	**24.5**	**12.9**	**13.6**	**16.3**
CLA	B-418	43.5	45	Layer 3	27.4				
CLA	B-418	53.5	55	Layer 3	23.3				
CLA	B-440	63.5	65	Layer 3	19.4				19.5
CLA	B-420	68.5	70	Layer 3	16.8				20.7
CLA	B-420	73.5	75	Layer 3	24.4				
CLA	B-420	78.5	80	Layer 3	26.2	48	32	16	39.5
CLA	B-440	78.5	80	Layer 3	41				28.7
CLA	B-404	83.5	84.9	Layer 3	32.2	53	28	25	33.9
CLA	B-407	88.5	90	Layer 3	12.4				
CLA	B-407	98.5	100	Layer 3	30.8				

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-423	118.5	119.8	Layer 3	26.2	NV	NP	NP	19.6
CLA	B-423	123.5	125	Layer 3	33.9				
CLA	B-413	128.5	130	Layer 3	18.7				
CLA	B-421	128.5	130	Layer 3	22				
CLA	B-423	128.5	130	Layer 3	31.9				21.4
CLA	B-427	128.5	130	Layer 3	31.4				
CLA	B-413	133.5	135	Layer 3	24.8				28.8
CLA	B-421	133.5	135	Layer 3	29				41.7
CLA	B-413	138.5	140	Layer 3	27.5				
CLA	B-413	143.5	145	Layer 3	32.1				
CLA	B-413	148.5	150	Layer 3	39.8				28.7
Unit 3	B-313	63.5	64.9	Layer 3	26.2	33	17	16	
Unit 3	B-314	68.5	70	Layer 3	19.5	NV	NP	NP	
Unit 3	B-333	68.5	69	Layer 3	19.3				23.2
Unit 3	B-313	73.5	75	Layer 3	28.4				
Unit 3	B-314	73.5	75	Layer 3	27.9	NV	NP	NP	
Unit 3	B-304	78.5	80	Layer 3	16.3	32	19	13	
Unit 3	B-314	78.5	79.4	Layer 3	36.5	NV	NP	NP	
Unit 3	B-333	78.5	80	Layer 3	28.7	NV	NP	NP	10.8
Unit 3	B-339	78.5	80	Layer 3	16.6				23.6
Unit 3	B-304	83.5	85	Layer 3	21.8				
Unit 3	B-315	83.5	85	Layer 3	29.6	NV	NP	NP	
Unit 3	B-321	83.5	85	Layer 3	20.6				
Unit 3	B-328	83.5	84.9	Layer 3	21.2	NV	NP	NP	18.6
Unit 3	B-304	88.5	90	Layer 3	38.7	49	28	21	35.9
Unit 3	B-321	88.5	90	Layer 3	31				30
Unit 3	B-337	88.5	89.9	Layer 3	21				
Unit 3	B-304	93.5	95	Layer 3	33				
Unit 3	B-315	93.5	95	Layer 3	35.6				28.6
Unit 3	B-333	93.5	94.9	Layer 3	16.1				23.7
Unit 3	B-334	98.5	100	Layer 3	28.9				16.6
Unit 3	B-301	103.5	105	Layer 3	17.8				
Unit 3	B-301	108.5	110	Layer 3	23.2				34.7
Unit 3	B-307	108.5	110	Layer 3	29.2	NV	NP	NP	9.8
Unit 3	B-320	113.5	115	Layer 3	28.5	44	16	28	
Unit 3	B-307	118.5	120	Layer 3	28.9	32	25	7	17.9
Unit 3	B-307	123.5	124.7	Layer 3	29.8	35	19	16	30
Unit 3	B-323	123.5	125	Layer 3	19.4				
Unit 3	B-307	133.5	135	Layer 3	26				21.8
Unit 3	B-323	133.5	135	Layer 3	33.1				30.2
				Minimum	**12.4**	**NV**	**NP**	**NP**	**9.8**
				Maximum	**41.0**	**53.0**	**32.0**	**28.0**	**41.7**
				Average	**26.5**	**20.4**	**11.5**	**8.9**	**25.5**
				Standard Deviation	**6.7**	**21.9**	**12.6**	**10.2**	**8.2**
CLA	B-401	293.5	294.7	Nanjemoy sand	20.7				
CLA	B-401	307.5	309	Nanjemoy sand	27.4	57	42	15	16.3

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-401	318.5	320	Nanjemoy sand	28.9	58	28	30	
CLA	B-401	338.5	340	Nanjemoy sand	25.3				
CLA	B-401	348.5	350.5	Nanjemoy sand	35.6	52	39	13	23
CLA	B-401	368.5	370	Nanjemoy sand	36.9				11.7
CLA	B-401	400	401.5	Nanjemoy sand	33.1				18.2
Unit 3	B-301	303.5	305	Nanjemoy sand	24.8				44.6
Unit 3	B-301A	308	310	Nanjemoy sand	24.6	56	17	39	30
Unit 3	B-301	313.5	315	Nanjemoy sand	20				26.6
Unit 3	B-301A	318	320	Nanjemoy sand	13.4	36	14	22	32.3
Unit 3	B-301	323.5	325	Nanjemoy sand	27.8				22.1
Unit 3	B-301A	328	330	Nanjemoy sand	27	79	20	59	13.9
Unit 3	B-301	333.5	335	Nanjemoy sand	31.8				
Unit 3	B-301A	338	340	Nanjemoy sand	44.5	66	22	44	14.1
Unit 3	B-301	343.5	344.5	Nanjemoy sand	22.9	47	24	23	17.9
Unit 3	B-301	353.5	355	Nanjemoy sand	36.1	58	22	36	18
Unit 3	B-301	363.5	365	Nanjemoy sand	37.2	54	36	18	28.6
Unit 3	B-301	373.5	375	Nanjemoy sand	30.3	61	26	35	16
Unit 3	B-301	388.5	390	Nanjemoy sand	32.7				15.7
Unit 3	B-301	398.5	400	Nanjemoy sand	33.7				
				Minimum	**13.4**	**36.0**	**14.0**	**13.0**	**11.7**
				Maximum	**44.5**	**79.0**	**42.0**	**59.0**	**44.6**
				Average	**29.3**	**56.7**	**26.4**	**30.4**	**21.8**
				Standard Deviation	**7.1**	**10.8**	**9.1**	**14.0**	**8.7**
CLA	B-420	2.5	4	Stratum a	28.6	68	23	45	
CLA	B-420	5	6.5	Stratum a	29.7	64	22	42	89.7
CLA	B-420	7.5	9	Stratum a	38.3	71	19	52	
CLA	B-401	10.5	12	Stratum a	26.6	66	20	46	85.3
CLA	B-401	13.5	15	Stratum a	34.2	62	20	42	
CLA	B-411	13.5	15	Stratum a	31				
CLA	B-420	13.5	15	Stratum a	42.1	74	31	43	94.2
CLA	B-401	18.5	20	Stratum a	36.9	70	37	33	
CLA	B-420	18.5	20	Stratum a	28.6				
CLA	B-401	23.5	25	Stratum a	27.9	47	28	19	52.1
CLA	B-411	23.5	25.5	Stratum a	37.9	61	19	42	95
CLA	B-407	28.5	30	Stratum a	35.1				
CLA	B-416	28.5	30	Stratum a	33.7	58	17	41	87.7
CLA	B-407	33.5	35	Stratum a	39.4	77	43	34	96
CLA	B-411	33.5	35	Stratum a	24.4				
CLA	B-433	38.5	40.5	Stratum a	33.5	61	14	47	91
CLA	B-423	43.5	45	Stratum a	30.9	55	20	35	73
CLA	B-433	43.5	45	Stratum a	33.5	59	22	37	
CLA	B-421	48.5	50.5	Stratum a	28.8	50	18	32	69.5
CLA	B-423	48.5	50	Stratum a	36.6	61	16	45	
CLA	B-433	48.5	50.5	Stratum a	33.6	64	23	41	94.5
CLA	B-434	48.5	50	Stratum a	38.2	73	24	49	
CLA	B-413	53.5	55	Stratum a	25.7	56	27	29	

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-421	53.5	55	Stratum a	29.6				
CLA	B-423	53.5	55	Stratum a	38.1	80	34	46	81.2
CLA	B-433	53.5	55	Stratum a	21	45	18	27	
CLA	B-434	53.5	55.5	Stratum a	87.8	56	23	33	94.9
CLA	B-425	57	59	Stratum a	31.2	55	25	30	81.8
CLA	B-414	58	60	Stratum a	33.2	58	19	39	84.9
CLA	B-413	58.5	60	Stratum a	27.5	58	29	29	70.5
CLA	B-415	58.5	60	Stratum a	36.6	61	21	40	93.3
CLA	B-421	58.5	60.5	Stratum a	34.2	78	32	46	86.9
CLA	B-423	58.5	60	Stratum a	33.8	78	45	33	
CLA	B-434	58.5	60	Stratum a	36.6	86	22	64	94.7
CLA	B-425	60	61.5	Stratum a	35.1	63	21	42	
CLA	B-428	60	62	Stratum a	37.1	61	17	44	92.6
CLA	B-406	63.5	65.5	Stratum a	36.1	63	19	44	90.1
CLA	B-414	63.5	65	Stratum a	38.3				
CLA	B-421	63.5	65	Stratum a	28.6				
CLA	B-423	63.5	65	Stratum a	21.9	37	27	10	
CLA	B-427	63.5	65.5	Stratum a	32.8	56	18	38	61.3
CLA	B-425	65	67	Stratum a	39.5	69	28	41	89.6
CLA	B-414	68	70	Stratum a	36.7	51	15	36	96.8
CLA	B-425	70	71.5	Stratum a	38.4	77	42	35	
CLA	B-413	73	75	Stratum a	35.5	51	15	36	97.5
CLA	B-414	73.5	75	Stratum a	22.9	39	20	19	52.8
Unit 3	B-789	0	1.5	Stratum a	28.2				77.5
Unit 3	B-789	2.5	4	Stratum a	29.1				
Unit 3	B-313	5	6.5	Stratum a	27.6	67	21	46	
Unit 3	B-314	5	6.5	Stratum a	35	73	25	48	
Unit 3	B-789	5	6.5	Stratum a	26.6				
Unit 3	B-304	7.5	9	Stratum a	34.1	57	23	34	71.8
Unit 3	B-313	7.5	9	Stratum a	15.1	30	17	13	
Unit 3	B-314	7.5	9	Stratum a	41.2	59	21	38	
Unit 3	B-328	7.5	9	Stratum a	30				
Unit 3	B-789	7.5	9	Stratum a	34.3				
Unit 3	B-789	10	11.5	Stratum a	27.3				
Unit 3	B-304	10.5	12	Stratum a	31.4	59	19	40	57.4
Unit 3	B-313	10.5	12	Stratum a	27				
Unit 3	B-314	10.5	12	Stratum a	26.2	73	25	48	
Unit 3	B-328	10.5	12	Stratum a	28.8	59	17	42	
Unit 3	B-789	12.5	14	Stratum a	25.4				
Unit 3	B-304	13.5	15	Stratum a	31.7	63	23	40	
Unit 3	B-313	13.5	15	Stratum a	31.5				
Unit 3	B-304	18.5	20	Stratum a	32.1	62	21	41	96.9
Unit 3	B-328	18.5	20	Stratum a	35.1	64	36	28	
Unit 3	B-331	18.5	20.5	Stratum a	30.8	57	23	34	97.1
Unit 3	B-334	18.5	20	Stratum a	31.3				
Unit 3	B-334	23	25	Stratum a	35.3	51	16	35	79

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-304	23.5	25	Stratum a	25.6	38	20	18	
Unit 3	B-321	23.5	25.5	Stratum a	26.2	45	18	27	99.7
Unit 3	B-328	23.5	25	Stratum a	33	77	28	49	
Unit 3	B-333	23.5	25	Stratum a	32	57	33	24	74.2
Unit 3	B-301	28.5	30	Stratum a	28.9	48	17	31	58.5
Unit 3	B-317	28.5	30.5	Stratum a	31.7	27	19	8	97.8
Unit 3	B-333	28.5	30.5	Stratum a	38.9	52	19	33	85.3
Unit 3	B-334	28.5	30	Stratum a	42.5				
Unit 3	B-336	28.5	30	Stratum a	26.9				
Unit 3	B-339	28.5	30	Stratum a	31.5	55	19	36	
Unit 3	B-791	28.5	30	Stratum a	34.6	59	23	36	78.9
Unit 3	B-334	33	35	Stratum a	32.6	47	13	34	95
Unit 3	B-301	33.5	35.5	Stratum a	31.1	59	17	42	80.5
Unit 3	B-317	33.5	35	Stratum a	30.2				
Unit 3	B-339	33.5	35	Stratum a	27	62	21	41	62.7
Unit 3	B-316	38.5	40	Stratum a	28.5				
Unit 3	B-319	38.5	40	Stratum a	27.9				
Unit 3	B-333	38.5	40.5	Stratum a	39.7	61	23	38	98.8
Unit 3	B-339	38.5	40	Stratum a	28.6	71	17	54	
Unit 3	B-316	43.5	45.5	Stratum a	28.6	44	16	28	71
Unit 3	B-319	43.5	45.2	Stratum a	32.1	58	13	45	87
Unit 3	B-320	43.5	45	Stratum a	30	56	19	37	60.7
Unit 3	B-326	43.5	45.5	Stratum a	33.9	63	22	41	89.3
Unit 3	B-339	43.5	45	Stratum a	31	60	22	38	86.9
Unit 3	B-301	48.5	50	Stratum a	29.6				
Unit 3	B-316	48.5	50	Stratum a	38				69.5
Unit 3	B-319	48.5	50	Stratum a	38.6	79	27	52	
Unit 3	B-320	48.5	50	Stratum a	34.4	59	19	40	81.5
Unit 3	B-323	48.5	50	Stratum a	28.1	50	17	33	51
Unit 3	B-336	48.5	50	Stratum a	25.9				
Unit 3	B-307	53.5	55	Stratum a	28.1				
Unit 3	B-316	53.5	55.5	Stratum a	26.2	33	11	22	50
Unit 3	B-320	53.5	55	Stratum a	34.9	69	24	45	
Unit 3	B-307	58.5	60	Stratum a	33.1	62	20	42	60.5
Unit 3	B-323	58.5	60	Stratum a	35.1	65	22	43	89.1
Unit 3	B-307	63.5	65	Stratum a	35.5	52	18	34	
Unit 3	B-306	68	70	Stratum a	30.7	62	24	38	98.6
Unit 3	B-307	68.5	70	Stratum a	34	66	23	43	98.5
				Minimum	**15.1**	**27.0**	**11.0**	**8.0**	**50.0**
				Maximum	**87.8**	**86.0**	**45.0**	**64.0**	**99.7**
				Average	**32.4**	**59.6**	**22.3**	**37.3**	**81.8**
				Standard Deviation	**7.2**	**11.5**	**6.6**	**9.7**	**14.7**
CLA	B-418	63.5	65	Stratum c	32.1				
CLA	B-418	73.5	75	Stratum c	41.7				
CLA	B-420	83.5	85	Stratum c	47.3	60	39	21	
CLA	B-418	88.5	90	Stratum c	49.8	76	49	27	

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-420	88.5	90	Stratum c	55.3	90	35	55	
CLA	B-411	93.5	95	Stratum c	31.6				
CLA	B-420	93.5	95	Stratum c	39.4				
CLA	B-409	95	96.5	Stratum c	33.1	61	42	19	37.6
CLA	B-401	98.5	99.8	Stratum c	50.5	78	48	30	64.8
CLA	B-418	98.5	100	Stratum c	36.7	46	25	21	
CLA	B-420	98.5	100	Stratum c	34.8	49	30	19	
CLA	B-411	103.5	105	Stratum c	38.2	43	30	13	
CLA	B-420	103.5	105	Stratum c	38.5	57	42	15	38.1
CLA	B-401	108.5	110	Stratum c	35.6				34.2
CLA	B-407	108.5	110	Stratum c	47.8				56.2
CLA	B-418	108.5	110	Stratum c	39.8	55	38	17	
CLA	B-420	108.5	110	Stratum c	46.4	80	51	29	
CLA	B-401	113.5	115	Stratum c	46.1				
CLA	B-411	113.5	115	Stratum c	40.4				
CLA	B-420	113.5	115	Stratum c	64.9	118	38	80	
CLA	B-407	118.5	120	Stratum c	34.2				
CLA	B-420	118.5	120	Stratum c	41.6	65	40	25	
CLA	B-401	123.5	124.8	Stratum c	57.4	85	54	31	82.4
CLA	B-407	123.5	125	Stratum c	42.2				
CLA	B-411	123.5	125	Stratum c	42.7	63	43	20	
CLA	B-418	123.5	125	Stratum c	56.4	106	41	65	
CLA	B-420	123.5	125	Stratum c	47.5	83	29	54	
CLA	B-401	128.5	130	Stratum c	43.8				56.6
CLA	B-420	128.5	130.3	Stratum c	39	59	34	25	50.1
CLA	B-420	133.5	135	Stratum c	73.4	147	75	72	76.6
CLA	B-423	133.5	135	Stratum c	37.1				
CLA	B-401	138.5	140.5	Stratum c	44.1	80	31	49	67.5
CLA	B-407	138.5	140	Stratum c	49.2				43.3
CLA	B-418	138.5	140	Stratum c	64.4	103	63	40	
CLA	B-420	138.5	140	Stratum c	78.8	145	76	69	
CLA	B-421	138.5	140	Stratum c	38.5	53	25	28	
CLA	B-423	138.5	140	Stratum c	45.1				43.2
CLA	B-427	138.5	140	Stratum c	38.5				29.8
CLA	B-401	143.5	145	Stratum c	77.1	142	104	38	
CLA	B-407	143.5	145	Stratum c	56.4	92	63	29	
CLA	B-420	143.5	145	Stratum c	58.9	107	56	51	75.4
CLA	B-421	143.5	145	Stratum c	46.8				
CLA	B-423	143.5	145	Stratum c	38.9				
CLA	B-401	148.5	150	Stratum c	72.7	150	89	61	86.6
CLA	B-407	148.5	150	Stratum c	43.1	81	45	36	
CLA	B-418	148.5	150	Stratum c	52.6	69	27	42	
CLA	B-420	148.5	150	Stratum c	74.2	127	100	27	61.3
CLA	B-421	148.5	150	Stratum c	47.4				
CLA	B-423	148.5	150	Stratum c	32.8				32.9
CLA	B-427	148.5	150	Stratum c	44.3				33.1

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-401	153.5	155	Stratum c	68.8	142	93	49	
CLA	B-423	153.5	155	Stratum c	44.9				
CLA	B-401	158.5	159.3	Stratum c	49.9	81	54	27	59.2
CLA	B-407	158.5	160	Stratum c	78.4				
CLA	B-423	158.5	160	Stratum c	44.9	74	18	56	87.6
CLA	B-407	163.5	165	Stratum c	62.7	120	50	70	
CLA	B-423	163.5	165	Stratum c	59.7				
CLA	B-401	168.5	170	Stratum c	53.9	103	52	51	71.8
CLA	B-407	168.5	170	Stratum c	55.2	104	69	35	
CLA	B-418	168.5	170	Stratum c	57.3	76	49	27	
CLA	B-423	168.5	170	Stratum c	41				
CLA	B-401	173.5	174.4	Stratum c	33.7	57	17	40	98.2
CLA	B-407	173.5	175	Stratum c	53.7	102	37	65	
CLA	B-423	173.5	175	Stratum c	49.7				
CLA	B-407	178.5	180	Stratum c	50.9	102	40	62	
CLA	B-423	178.5	179.5	Stratum c	41.5	64	34	30	46.4
CLA	B-401	183.5	185	Stratum c	31.2				32.2
CLA	B-407	183.5	185	Stratum c	82.2	154	97	57	59.1
CLA	B-418	183.5	185	Stratum c	56.7	100	60	40	
CLA	B-423	183.5	185	Stratum c	73.3				
CLA	B-407	188.5	190	Stratum c	32.6				
CLA	B-423	188.5	180	Stratum c	72.4	111	70	41	90.6
CLA	B-401	193.5	195	Stratum c	49.2				
CLA	B-407	193.5	195	Stratum c	31.6				
CLA	B-423	193.5	195	Stratum c	71				
CLA	B-401	198.5	200.3	Stratum c	48.8	82	55	27	45.3
CLA	B-407	198.5	200	Stratum c	32.7				22.4
CLA	B-418	198.5	200	Stratum c	66.5	109	71	38	
CLA	B-423	200	201.5	Stratum c	45.3				
CLA	B-401	203.5	205	Stratum c	58.4	94	69	25	
CLA	B-401	208.5	210	Stratum c	62.7	113	74	39	64.5
CLA	B-401	218.5	220	Stratum c	77.4				64.6
CLA	B-401	228.5	229.6	Stratum c	58.6	139	88	51	80.4
CLA	B-401	238.5	240	Stratum c	122.5				
CLA	B-401	243.5	244.4	Stratum c	96.2	140	65	75	98.7
CLA	B-401	248.5	250	Stratum c	122.8	218	100	118	
CLA	B-401	258.5	260	Stratum c	130.2				
CLA	B-401	268.5	270	Stratum c	63.5				43
CLA	B-401	284.5	286	Stratum c	30.2	76	42	34	
Unit 3	B-313	83.5	85	Stratum c	37.3				
Unit 3	B-314	83.5	85	Stratum c	41.2	57	36	21	
Unit 3	B-313	88.5	90	Stratum c	55	98	47	51	
Unit 3	B-314	88.5	90	Stratum c	34.3	68	20	48	
Unit 3	B-328	88.5	90	Stratum c	34	47	31	16	
Unit 3	B-313	93.5	94.7	Stratum c	35.6	49	25	24	
Unit 3	B-314	93.5	95	Stratum c	36.4				

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-321	93.5	95	Stratum c	36.9	59	26	33	32.2
Unit 3	B-304	98.5	99.5	Stratum c	42.1	79	29	50	47.3
Unit 3	B-313	98.5	100	Stratum c	32.4	42	28	14	
Unit 3	B-314	98.5	100	Stratum c	31				
Unit 3	B-321	98.5	100	Stratum c	36.1				29.8
Unit 3	B-328	98.5	100	Stratum c	38.2	53	34	19	
Unit 3	B-304	103.5	105	Stratum c	44				35.4
Unit 3	B-313	103.5	105	Stratum c	43.4	70	45	25	
Unit 3	B-321	103.5	105	Stratum c	58.2				
Unit 3	B-328	103.5	105	Stratum c	62.7				36.6
Unit 3	B-304	108.5	110	Stratum c	33.8				28.2
Unit 3	B-313	108.5	110	Stratum c	57.7	106	55	51	
Unit 3	B-321	108.5	110	Stratum c	42.6				
Unit 3	B-304	113.5	115	Stratum c	43.9				36.3
Unit 3	B-313	113.5	115	Stratum c	44.3	72	46	26	
Unit 3	B-321	113.5	115	Stratum c	34.6				36.3
Unit 3	B-327	113.5	115.5	Stratum c	44.3	60	24	36	51.9
Unit 3	B-328	113.5	115	Stratum c	30.5				
Unit 3	B-301	118.5	120	Stratum c	33.1				19.6
Unit 3	B-304	118.5	120	Stratum c	47.9				
Unit 3	B-313	118.5	120	Stratum c	43.5	81	42	39	
Unit 3	B-321	118.5	120	Stratum c	39.8				
Unit 3	B-328	118.5	120	Stratum c	44.7				
Unit 3	B-304	123.5	125	Stratum c	60.2				
Unit 3	B-313	123.5	124.3	Stratum c	33.1	44	26	18	
Unit 3	B-321	123.5	125	Stratum c	43.1				
Unit 3	B-328	123.5	125.5	Stratum c	45.6	77	45	32	82.6
Unit 3	B-301	128.5	130	Stratum c	42.3				32.3
Unit 3	B-304	128.5	130	Stratum c	34.9				42.7
Unit 3	B-313	128.5	130	Stratum c	66	132	60	72	
Unit 3	B-320	128.5	130	Stratum c	34.1	50	30	20	
Unit 3	B-321	128.5	130	Stratum c	49.5				60.8
Unit 3	B-304	133.5	135	Stratum c	45				
Unit 3	B-313	133.5	135	Stratum c	69.1				
Unit 3	B-321	133.5	135	Stratum c	42.3				
Unit 3	B-328	133.5	135	Stratum c	48.2	70	51	19	52.8
Unit 3	B-304	138.5	139.3	Stratum c	36.5	43	26	17	45.7
Unit 3	B-313	138.5	140	Stratum c	62.9	106	51	55	
Unit 3	B-321	138.5	140	Stratum c	39.7				
Unit 3	B-301	143.5	145	Stratum c	45				55.5
Unit 3	B-304	143.5	145	Stratum c	70	134	49	85	91.3
Unit 3	B-307	143.5	145	Stratum c	36.8	59	33	26	
Unit 3	B-313	143.5	145	Stratum c	49.1				
Unit 3	B-321	143.5	145	Stratum c	60.2				84.6
Unit 3	B-323	143.5	145	Stratum c	48.3	73	38	35	52.1
Unit 3	B-328	143.5	145	Stratum c	59.3				

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-301	148.5	150	Stratum c	62.2	114	55	59	
Unit 3	B-304	148.5	150	Stratum c	72.1				
Unit 3	B-307	148.5	150	Stratum c	50.6				
Unit 3	B-313	148.5	150	Stratum c	49.4	103	30	73	
Unit 3	B-320	148.5	150	Stratum c	37				47.7
Unit 3	B-321	148.5	150	Stratum c	66				
Unit 3	B-328	148.5	150	Stratum c	74.8	134	100	34	
Unit 3	B-301	153.5	155	Stratum c	34				45.4
Unit 3	B-304	153.5	155	Stratum c	70.9				
Unit 3	B-307	153.5	155	Stratum c	38.8	58	37	21	24.4
Unit 3	B-323	153.5	155	Stratum c	31.3	39	30	9	
Unit 3	B-301	158.5	159.6	Stratum c	38.7	76	30	46	99.5
Unit 3	B-304	158.5	160	Stratum c	55.1	92	53	39	59.1
Unit 3	B-304	163.5	165	Stratum c	47.2				
Unit 3	B-323	163.5	165	Stratum c	54.2				63.3
Unit 3	B-301	168.5	170.4	Stratum c	65.4	112	39	73	66.2
Unit 3	B-304	168.5	170	Stratum c	62.9				
Unit 3	B-304	173.5	175	Stratum c	84	158	84	74	94
Unit 3	B-323	173.5	175	Stratum c	44	97	31	66	56.9
Unit 3	B-301	178.5	180	Stratum c	60.4	111	47	64	60
Unit 3	B-304	178.5	180	Stratum c	27.5				
Unit 3	B-307	178.5	180.4	Stratum c	33.5	41	25	16	37.7
Unit 3	B-344	181.5	183.5	Stratum c	30.6	44	23	21	29.1
Unit 3	B-304	183.5	185	Stratum c	39.2				43.6
Unit 3	B-323	183.5	185	Stratum c	68.3	124	33	91	94
Unit 3	B-304	188.5	190	Stratum c	42.8				
Unit 3	B-307	188.5	190	Stratum c	43	61	39	22	45.6
Unit 3	B-301	193.5	195	Stratum c	53.2	98	45	53	
Unit 3	B-304	193.5	195	Stratum c	51.1				
Unit 3	B-323	193.5	195	Stratum c	58.1	116	36	80	70.3
Unit 3	B-301A	198	200	Stratum c	64.1	115	25	90	91.3
Unit 3	B-301	198.5	200	Stratum c	82.6	157	71	86	79
Unit 3	B-304	198.5	200	Stratum c	55.8				55.9
Unit 3	B-323	198.5	200	Stratum c	52.9	97	62	35	
Unit 3	B-307	200	201.5	Stratum c	68.7	137	61	76	66.2
Unit 3	B-301	203.5	205	Stratum c	27.5				
Unit 3	B-344	204	206	Stratum c	47.2	81	25	56	51.9
Unit 3	B-301	208.5	210	Stratum c	32.4				
Unit 3	B-301A	218	220	Stratum c	38.8	66	26	40	37.7
Unit 3	B-301	218.5	220	Stratum c	47.9				50.7
Unit 3	B-344	221.5	223.5	Stratum c	65.5	119	31	88	84.3
Unit 3	B-301	228.5	230	Stratum c	54				46.9
Unit 3	B-301A	238	240	Stratum c	49.2	96	26	70	68.7
Unit 3	B-301	238.5	240	Stratum c	56.8				72.9
Unit 3	B-344	241.5	243.5	Stratum c	41.3	176	50	126	95.6
Unit 3	B-301	253.5	255	Stratum c	72.7	137	87	50	64.6

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-301A	258	260	Stratum c	58.6	113	31	82	70.8
Unit 3	B-301	263.5	265	Stratum c	100.9				85.2
Unit 3	B-301A	268	270	Stratum c	85.7	182	49	133	96.3
Unit 3	B-301	273.5	275	Stratum c	102	199	119	80	
Unit 3	B-301A	278	280	Stratum c	109.8	187	54	133	94.8
Unit 3	B-301	283.5	285	Stratum c	91.3				73.5
Unit 3	B-301A	288	290	Stratum c	57.4	115	30	85	69.8
Unit 3	B-301	293.5	295	Stratum c	64.4	117	73	44	73.1
Unit 3	B-301A	298	300	Stratum c	94.2	135	35	100	93.1
				Minimum	**27.5**	**39.0**	**17.0**	**9.0**	**19.6**
				Maximum	**130.2**	**218.0**	**119.0**	**133.0**	**99.5**
				Average	**52.1**	**95.2**	**47.8**	**47.4**	**59.4**
				Standard Deviation	**18.2**	**37.8**	**21.7**	**27.0**	**21.6**
CLA	B-421	0	1.5	Terrace Sand	11.6				
CLA	B-425	0	1.5	Terrace Sand	13.7				
CLA	B-401	2.5	4	Terrace Sand	3.6				
CLA	B-407	2.5	4	Terrace Sand	4.8	NV	NP	NP	
CLA	B-411	2.5	4	Terrace Sand	6.8				
CLA	B-421	2.5	4	Terrace Sand	14.8				
CLA	B-423	2.5	4	Terrace Sand	4.9				12.5
CLA	B-427	2.5	4	Terrace Sand	9.4				30.6
CLA	B-425	3.5	5	Terrace Sand	7.3				7.9
CLA	B-415	5	6.5	Terrace Sand	3.6				5.8
CLA	B-416	5	6.5	Terrace Sand	3.8				
CLA	B-421	5	6.5	Terrace Sand	11.9				
CLA	B-425	5	6.5	Terrace Sand	2.5				
CLA	B-433	5	6.5	Terrace Sand	27				
CLA	B-411	7.5	9	Terrace Sand	27.4				
CLA	B-413	7.5	9	Terrace Sand	9.7				10.2
CLA	B-414	7.5	9	Terrace Sand	4.2				
CLA	B-421	7.5	9	Terrace Sand	7.6				14
CLA	B-427	7.5	9	Terrace Sand	7.9				
CLA	B-434	7.5	9	Terrace Sand	11.8				
CLA	B-436	7.5	9	Terrace Sand	3.3				4.9
CLA	B-425	8.5	10	Terrace Sand	10.8				
CLA	B-425	10	11.5	Terrace Sand	14.2				
CLA	B-407	10.5	12	Terrace Sand	12.3				
CLA	B-421	10.5	12	Terrace Sand	11.8	NV	NP	NP	
CLA	B-433	10.5	12	Terrace Sand	5.8				10.2
CLA	B-415	13.5	15	Terrace Sand	2.5				3.4
CLA	B-416	13.5	15	Terrace Sand	13				
CLA	B-421	13.5	15	Terrace Sand	9.2				
CLA	B-423	13.5	15	Terrace Sand	12.3	NV	NP	NP	
CLA	B-425	13.5	15	Terrace Sand	16.4				6.5
CLA	B-434	13.5	15	Terrace Sand	7				13.9
CLA	B-437	13.5	15.5	Terrace Sand	7.2	NV	NP	NP	5.6

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
CLA	B-407	18.5	20	Terrace Sand	24.9				30.4
CLA	B-413	18.5	20	Terrace Sand	12.9				10.1
CLA	B-414	18.5	20	Terrace Sand	9.2				
CLA	B-421	18.5	20	Terrace Sand	9.4				10.1
CLA	B-423	18.5	20	Terrace Sand	10.4				
CLA	B-427	18.5	20	Terrace Sand	8.2				12.5
CLA	B-434	18.5	20	Terrace Sand	10.6				
CLA	B-425	20	21.5	Terrace Sand	11.1				
CLA	B-421	23.5	25	Terrace Sand	11	NV	NP	NP	
CLA	B-423	23.5	25	Terrace Sand	16.6				11.8
CLA	B-433	23.5	25	Terrace Sand	14.4				
CLA	B-436	23.5	25	Terrace Sand	11.1				8.1
CLA	B-425	25	26.5	Terrace Sand	11.6				
CLA	B-415	28.5	30	Terrace Sand	13.5				10.4
CLA	B-421	28.5	30	Terrace Sand	15.6				11.4
CLA	B-423	28.5	30	Terrace Sand	17.4				
CLA	B-427	28.5	30	Terrace Sand	12.2				8.4
CLA	B-434	28.5	30	Terrace Sand	21.9				27.2
CLA	B-425	30	31.5	Terrace Sand	15.2				11.3
CLA	B-413	33.5	35	Terrace Sand	8.6				8.2
CLA	B-414	33.5	35	Terrace Sand	9.7				
CLA	B-423	33.5	35	Terrace Sand	13.6	NV	NP	NP	
CLA	B-433	33.5	35	Terrace Sand	23.3				
CLA	B-434	33.5	35	Terrace Sand	26.6				
CLA	B-436	33.5	35	Terrace Sand	25.2				26.3
CLA	B-425	35	36.5	Terrace Sand	12				
CLA	B-421	38.5	40	Terrace Sand	17.3				
CLA	B-423	38.5	40	Terrace Sand	43.9	43	15	28	36.9
CLA	B-427	38.5	40	Terrace Sand	13.6				
CLA	B-434	38.5	40	Terrace Sand	27.4	NV	NP	NP	
CLA	B-425	40	41.5	Terrace Sand	14.9				7.4
CLA	B-414	43.5	45	Terrace Sand	20.6	NV	NP	NP	22.1
CLA	B-415	43.5	45	Terrace Sand	28.2	26	22	4	31.1
CLA	B-421	43.5	45	Terrace Sand	31.5				
CLA	B-425	45	46.5	Terrace Sand	13.7				
CLA	B-413	48.5	50	Terrace Sand	26.9	NV	NP	NP	31.5
CLA	B-414	48.5	50	Terrace Sand	27.7	NV	NP	NP	33.5
CLA	B-427	48.5	50	Terrace Sand	18.6				6.3
CLA	B-425	50	51.5	Terrace Sand	12.1	28	17	11	10.1
CLA	B-414	53.5	55	Terrace Sand	28	42	23	19	60.4
CLA	B-425	55	56.5	Terrace Sand	28.2	46	19	27	
Unit 3	B-304	0	1.5	Terrace Sand	17.1				
Unit 3	B-313	0	1.5	Terrace Sand	9.9				
Unit 3	B-334	0	1.5	Terrace Sand	9.6				11.2
Unit 3	B-314	0.4	1.9	Terrace Sand	9.7				
Unit 3	B-301	2.5	4	Terrace Sand	6.6				8.1

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-304	2.5	4	Terrace Sand	25.9				
Unit 3	B-313	2.5	4	Terrace Sand	11.8	19	14	5	
Unit 3	B-314	2.5	4	Terrace Sand	14.1	NV	NP	NP	
Unit 3	B-316	2.5	4	Terrace Sand	19.1	35	16	19	
Unit 3	B-319	2.5	4	Terrace Sand	5.7				8.1
Unit 3	B-320	2.5	4	Terrace Sand	10.4				
Unit 3	B-321	2.5	4	Terrace Sand	9.7				31
Unit 3	B-323	2.5	4	Terrace Sand	5				
Unit 3	B-328	2.5	4	Terrace Sand	4.5	NV	NP	NP	8.7
Unit 3	B-333	2.5	4	Terrace Sand	6.2				6.9
Unit 3	B-304	5	6.5	Terrace Sand	29.4				
Unit 3	B-307	5	6.5	Terrace Sand	11.6				38.4
Unit 3	B-321	5	6.5	Terrace Sand	7.4				
Unit 3	B-326	5	6.5	Terrace Sand	8.2				
Unit 3	B-331	5	6.5	Terrace Sand	20.2	43	15	28	66.9
Unit 3	B-334	5	6.5	Terrace Sand	15.9				21.3
Unit 3	B-339	5	6.5	Terrace Sand	6.9				4.6
Unit 3	B-315	7.5	9	Terrace Sand	5.6				8.3
Unit 3	B-316	7.5	9	Terrace Sand	14.5				55.5
Unit 3	B-319	7.5	9	Terrace Sand	4.7	NV	NP	NP	
Unit 3	B-320	7.5	9	Terrace Sand	6.3				
Unit 3	B-321	7.5	9	Terrace Sand	25.2				
Unit 3	B-323	7.5	9	Terrace Sand	13				8.2
Unit 3	B-333	7.5	9	Terrace Sand	4.8				5.3
Unit 3	B-791	7.5	9	Terrace Sand	4.9	NV	NP	NP	6.6
Unit 3	B-791	10	11.5	Terrace Sand	5.9				10.7
Unit 3	B-301	10.5	12	Terrace Sand	14.3				6.2
Unit 3	B-321	10.5	12	Terrace Sand	36.2	55	20	35	65.9
Unit 3	B-334	10.5	12	Terrace Sand	15.6	NV	NP	NP	
Unit 3	B-791	12.5	14	Terrace Sand	5.4				6.5
Unit 3	B-307	13.5	15	Terrace Sand	7.9	NV	NP	NP	
Unit 3	B-315	13.5	15	Terrace Sand	28.3				14
Unit 3	B-319	13.5	15	Terrace Sand	7.6				8.6
Unit 3	B-321	13.5	15	Terrace Sand	30				
Unit 3	B-323	13.5	15	Terrace Sand	16.2				8.4
Unit 3	B-326	13.5	15	Terrace Sand	12.2				10.5
Unit 3	B-336	13.5	15	Terrace Sand	11.4				
Unit 3	B-339	13.5	15	Terrace Sand	19.9				12.1
Unit 3	B-791	15	16.5	Terrace Sand	15.7				6.8
Unit 3	B-301	18.5	20	Terrace Sand	19				10.9
Unit 3	B-320	18.5	20	Terrace Sand	9.1				
Unit 3	B-321	18.5	20	Terrace Sand	29.7				35.3
Unit 3	B-323	18.5	20	Terrace Sand	11.9	NV	NP	NP	
Unit 3	B-791	20	21.5	Terrace Sand	23.1				32.9
Unit 3	B-307	23.5	25	Terrace Sand	13				11.2
Unit 3	B-316	23.5	25	Terrace Sand	20	NV	NP	NP	8.8

Table A.4. Index Properties - Unit 3 & CLA Combined

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
Unit 3	B-317	23.5	25	Terrace Sand	28.4				
Unit 3	B-319	23.5	25	Terrace Sand	19.8				20
Unit 3	B-326	23.5	25	Terrace Sand	22.7				23.7
Unit 3	B-791	23.5	25	Terrace Sand	14.7				21.5
Unit 3	B-319	28.5	30	Terrace Sand	24.5				
Unit 3	B-323	28.5	30	Terrace Sand	17.6				
Unit 3	B-307	33.5	35	Terrace Sand	14.5	NV	NP	NP	
Unit 3	B-316	33.5	35	Terrace Sand	20.1	43	17	26	11.3
Unit 3	B-319	33.5	35.5	Terrace Sand	29.2	49	12	37	72
Unit 3	B-320	33.5	35	Terrace Sand	26.1	33	18	15	42.5
Unit 3	B-326	33.5	35.5	Terrace Sand	27.6	41	16	25	62
Unit 3	B-320	38.5	40.5	Terrace Sand	29.4	36	16	20	49
Unit 3	B-323	38.5	40	Terrace Sand	20.7				11.4
Unit 3	B-307	43.5	45	Terrace Sand	24.8				
Unit 3	B-307	48.5	50	Terrace Sand	25.1				
				Minimum	**2.5**	**NV**	**NP**	**NP**	**3.4**
				Maximum	**43.9**	**55.0**	**23.0**	**37.0**	**72.0**
				Average	**14.9**	**16.3**	**7.3**	**9.1**	**19.2**
				Standard Deviation	**8.3**	**20.3**	**8.8**	**12.5**	**17.1**

Table A.5. Index Properties - Intake

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
intake	B-775	5	6.5	Layer 1	7.9	-	-	-	16.5
				Minimum	**7.9**	**-**	**-**	**-**	**16.5**
				Maximum	**7.9**	**-**	**-**	**-**	**16.5**
				Average	**7.9**	**-**	**-**	**-**	**16.5**
				Standard Deviation	**-**	**-**	**-**	**-**	
Intake	B-701	7.5	9	Layer 2	15.9				27.9
intake	B-771	7.5	9	Layer 2	18.4				
intake	B-775	7.5	9	Layer 2	17.1				24.9
Intake	B-782	7.5	9	Layer 2	14.1				
Intake	B-821	7.5	9	Layer 2	9.4				7.4
intake	B-771	10	11.5	Layer 2	20.7				
intake	B-773	10	11.5	Layer 2	34.4	NV	NP	NP	
intake	B-775	10	11.5	Layer 2	19.6				
Intake	B-782	10	11.5	Layer 2	17.8				
Intake	B-821	10	11.5	Layer 2	33.9	NV	NP	NP	18
Intake	B-701	10.5	12	Layer 2	12.4				6.3
intake	B-775	12.5	14	Layer 2	19.2				6.7
intake	B-771	13.5	15	Layer 2	29.3				
Intake	B-781	13.5	15	Layer 2	25.1	NV	NP	NP	
Intake	B-782	13.5	15	Layer 2	28				
Intake	B-821	13.5	15	Layer 2	31.3				17.1
intake	B-775	15	16.3	Layer 2	19.9				44.2
intake	B-775	17.5	19	Layer 2	31	27	17	10	16.7
intake	B-771	18.5	20	Layer 2	25.6				
Intake	B-781	18.5	20	Layer 2	26.3				9.6
Intake	B-782	18.5	20	Layer 2	22.1				
intake	B-775	20	21.5	Layer 2	29				
intake	B-775	22.5	24	Layer 2	33.2	NV	NP	NP	
Intake	B-782	23.5	25	Layer 2	34.9				
intake	B-775	25	26.5	Layer 2	29.1				
Intake	B-782	28.5	30	Layer 2	36				29.6
				Minimum	**9.4**	**NV**	**NP**	**NP**	**6.3**
				Maximum	**36.0**	**27.0**	**17.0**	**10.0**	**44.2**
				Average	**24.4**	**5.4**	**3.4**	**2.0**	**18.9**
				Standard Deviation	**7.6**	**12.1**	**7.6**	**4.5**	**11.9**
intake	B-774	11.5	13.1	Layer 3	17.6	22	12	10	34.1
intake	B-773	12.5	14	Layer 3	15.4	NV	NP	NP	
intake	B-774	13.1	13.6	Layer 3	15.6	NV	NP	NP	17.9
intake	B-773	15	16.5	Layer 3	22.4				
intake	B-774	15	16.5	Layer 3	18.7	NV	NP	NP	15.9
intake	B-774	16.5	18.5	Layer 3	22.1	20	19	1	8.4
Intake	B-701	18.5	20	Layer 3	28.2				21.1
intake	B-774	18.5	20	Layer 3	26.7	NV	NP	NP	15.4
Intake	B-821	18.5	20	Layer 3	20.2	NP	NP	NP	
intake	B-773	20	21.5	Layer 3	29.7	NV	NP	NP	35.9
intake	B-774	20	21.5	Layer 3	34.6	28	23	5	

Table A.5. Index Properties - Intake

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
intake	B-774	21.5	23.5	Layer 3	23.3	30	19	11	31.1
intake	B-773A	23	25	Layer 3	31.4	42	20	22	31.4
intake	B-771	23.5	25	Layer 3	37.4				
intake	B-774	23.5	25	Layer 3	22.8	NV	NP	NP	30.1
Intake	B-781	23.5	25	Layer 3	27	NV	NP	NP	25.4
Intake	B-821	23.5	25	Layer 3	29.1				14.6
intake	B-774	25	26.5	Layer 3	34.7	30	23	7	37.9
Intake	B-701	28.5	30	Layer 3	37.3				34.3
intake	B-771	28.5	30	Layer 3	17.6				
Intake	B-781	28.5	29.8	Layer 3	22.7	28	22	6	35.7
				Minimum	**15.4**	**NV**	**NP**	**NP**	**8.4**
				Maximum	**37.4**	**42.0**	**23.0**	**22.0**	**37.9**
				Average	**25.5**	**13.3**	**9.2**	**4.1**	**25.9**
				Standard Deviation	**6.9**	**15.5**	**10.5**	**6.3**	**9.6**
intake	B-773	25	26.5	Stratum c	41				
intake	B-774	27.5	29	Stratum c	44.3	40	22	18	46.5
intake	B-775	27.5	29	Stratum c	36.2	34	23	11	33.8
intake	B-773	30	31.5	Stratum c	37.9	NV	NP	NP	
intake	B-774	30	31.5	Stratum c	34.5	36	21	15	
intake	B-775	30	31.5	Stratum c	24.6				
intake	B-771	31.5	33.5	Stratum c	28.5	36	23	13	
intake	B-774	31.5	33.5	Stratum c	31.2	42	22	20	20.3
intake	B-775	32.5	34	Stratum c	41.4				12.9
intake	B-771	33.5	35	Stratum c	36.7				
intake	B-774	33.5	35	Stratum c	37.4	30	25	5	
Intake	B-782	33.5	35	Stratum c	35.2				36.5
intake	B-773	35	36.5	Stratum c	55.8				
intake	B-774	35	36.5	Stratum c	37.6	37	24	13	
intake	B-775	35	36.5	Stratum c	41.2				
intake	B-774	37.5	39	Stratum c	59.4	82	51	31	59.4
intake	B-775	37.5	39	Stratum c	39.9				26.6
intake	B-771	38.5	40	Stratum c	57.7				
Intake	B-781	38.5	40	Stratum c	58.5	83	36	47	
Intake	B-782	38.5	40	Stratum c	40.3				23.4
intake	B-773	40	41.5	Stratum c	40.8	45	24	21	
intake	B-774	40	41.5	Stratum c	46.4	75	31	44	
intake	B-775	40	41.5	Stratum c	59.9				
intake	B-771	41.5	43.5	Stratum c	33	59	18	41	31.8
intake	B-774	41.5	43.5	Stratum c	38.2	56	19	37	31
intake	B-775	42.5	44	Stratum c	43.9				39.6
Intake	B-701	43.5	44.9	Stratum c	37.3	54	33	21	64.1
intake	B-771	43.5	45	Stratum c	40.1				
intake	B-774	43.5	45	Stratum c	45.7	46	23	23	
Intake	B-781	43.5	45	Stratum c	40.6	46	23	23	
Intake	B-782	43.5	45	Stratum c	43.4				41.5
intake	B-773	45	46.5	Stratum c	35.8				

Table A.5. Index Properties - Intake

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
intake	B-774	45	46.5	Stratum c	47.1	57	22	35	
intake	B-775	45	46.5	Stratum c	39.1				
Intake	B-782	47.3	48.8	Stratum c	51.2	45	23	22	
intake	B-774	47.5	49	Stratum c	31.9	NV	NP	NP	
intake	B-775	47.5	49	Stratum c	42.3				
Intake	B-701	48.5	50	Stratum c	33.1				17.5
intake	B-771	48.5	50	Stratum c	30.3				
Intake	B-781	48.5	50	Stratum c	36.9	NV	NP	NP	
intake	B-773	50	51.5	Stratum c	44.3	65	33	32	
intake	B-774	50	51.5	Stratum c	34.3	NV	NP	NP	15.8
intake	B-775	50	51.5	Stratum c	34.5	42	25	17	23.4
Intake	B-782	50	51.5	Stratum c	41.9	NV	NP	NP	
intake	B-771	51.5	53.5	Stratum c	27.8	52	19	33	35.4
intake	B-774	51.5	53.5	Stratum c	39.2	63	20	43	53
intake	B-775	52.5	54	Stratum c	31				
Intake	B-701	53.5	55	Stratum c	42.5				
intake	B-771	53.5	55	Stratum c	40.6				
intake	B-773	55	56.5	Stratum c	46.4	80	44	36	
intake	B-775	55	56.5	Stratum c	34.8				
intake	B-775	57.5	59	Stratum c	44				
Intake	B-701	58.5	60	Stratum c	55.7				
intake	B-771	58.5	60	Stratum c	62.8				
intake	B-773	60	61.5	Stratum c	47.3	66	37	29	
intake	B-775	60	61.5	Stratum c	46.7	64	28	36	
intake	B-771	61.5	63.5	Stratum c	43.9	64	21	43	57.6
intake	B-775	62.5	64	Stratum c	58.5	84	35	49	
Intake	B-701	63.5	65	Stratum c	40.4				
intake	B-771	63.5	65	Stratum c	40.8				
intake	B-773	65	66.5	Stratum c	41.6	64	27	37	
intake	B-775	65	66.5	Stratum c	44.2	44	25	19	
intake	B-775	67.5	69	Stratum c	39.6				
Intake	B-701	68.5	70	Stratum c	48				
intake	B-771	68.5	70	Stratum c	45.2				
intake	B-773	70	71.5	Stratum c	38.3	58	31	27	45
intake	B-775	70	71.5	Stratum c	40.9				
intake	B-771	71.5	73.5	Stratum c	33.4	55	21	34	38.6
intake	B-775	72.5	74	Stratum c	42.2				
intake	B-771	73.5	75	Stratum c	41	64	26	38	49
intake	B-773	75	76.5	Stratum c	67.5	103	45	58	
intake	B-775	75	76.5	Stratum c	49.8				45
intake	B-775	77.5	79	Stratum c	66.2	90	38	52	
intake	B-771	78.5	80	Stratum c	71.2	122	74	48	79.4
intake	B-773	80	81.5	Stratum c	77.2	132	53	79	
intake	B-775	80	81.5	Stratum c	74				
intake	B-771	81.5	83.5	Stratum c	68.5	136	37	99	98.3
intake	B-774	81.5	83.5	Stratum c	68.9	136	38	98	96.3

Table A.5. Index Properties - Intake

Area	Boring Number	Depth (ft)		Soil Layer	Water content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines Content
		To	From						
intake	B-775	82.5	84	Stratum c	72.8				
intake	B-773A	83	85	Stratum c	70.7	143	33	110	89.9
intake	B-771	83.5	85	Stratum c	73.9	119	65	54	62.9
intake	B-773	85	86.5	Stratum c	69.5	123	57	66	
intake	B-775	85	86.5	Stratum c	75.8	118	48	70	
intake	B-775	87.5	89	Stratum c	66.8				
intake	B-771	88.5	90	Stratum c	63.6	96	54	42	65.4
intake	B-773	90	91.5	Stratum c	84.1	129	50	79	
intake	B-775	90	91.5	Stratum c	63.9				
intake	B-771	91.5	93.5	Stratum c	68.6	140	32	108	78
intake	B-775	92.5	94	Stratum c	67.1	110	50	60	
intake	B-773A	93	95	Stratum c	54	116	26	90	74.4
intake	B-771	93.5	95	Stratum c	67.3	110	71	39	53.9
intake	B-773	95	96.5	Stratum c	41.6	73	32	41	45.6
intake	B-775	95	96.5	Stratum c	76.1				
intake	B-771	98.5	100	Stratum c	48.7	92	52	40	74.7
intake	B-775	98.5	100	Stratum c	41.5	54	24	30	
intake	B-773	100	101.5	Stratum c	54.2	97	58	39	59.3
intake	B-775	101	102.5	Stratum c	66.8				
intake	B-774	101.5	103.5	Stratum c	46	94	24	70	88.4
intake	B-773A	103	105	Stratum c	22.4	110	25	85	79.9
intake	B-773	105	106.5	Stratum c	59.1	109	59	50	
intake	B-773	110	111.5	Stratum c	78.5	128	79	49	
intake	B-774	111.5	113.5	Stratum c	94.5	131	29	102	69.8
intake	B-773A	113	115	Stratum c	32.1	43	22	21	24.3
intake	B-773	115	116.5	Stratum c	35.5	NV	NP	NP	11
intake	B-773	120	121.5	Stratum c	42.4	49	34	15	28.2
intake	B-774	121.5	123.5	Stratum c	33.9	42	25	17	21.5
intake	B-773A	123	125	Stratum c	40	59	26	33	34.4
intake	B-773	125	126.5	Stratum c	45.3	60	35	25	
intake	B-773	130	131.5	Stratum c	46.7	69	36	33	
intake	B-774	131.5	133.5	Stratum c	36.3	70	24	46	41.9
intake	B-773	135	136.5	Stratum c	49.4	73	42	31	
intake	B-773	140	141.5	Stratum c	58.8	91	50	41	
intake	B-774	141.5	143.5	Stratum c	50	90	24	66	52
intake	B-773	145	146.5	Stratum c	56	97	55	42	55.7
intake	B-773	148.5	150	Stratum c	66.8	112	63	49	68.6
				Minimum	**22.4**	**NV**	**NP**	**NP**	**11.0**
				Maximum	**94.5**	**143.0**	**79.0**	**110.0**	**98.3**
				Average	**48.5**	**72.5**	**32.6**	**39.9**	**49.0**
				Standard Deviation	**14.5**	**37.6**	**17.4**	**26.6**	**23.2**