Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-619

Type and Diameter of Boring: Hollow stem / 8 inch	Boring Location: West of Southern Nuclear Island		Total Depth: 66 feet
Drilling Contractor and Rig: MACTEC/Meyerson/209195 / CME 55	Elevation at Boring: 405.1 feet	Ground Water Depth	Depth to Bedrock: 66 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 18	Date Started: 4/10/06
	Borehole Inclination: 0	Logged by: J. Harmon/B. Sharp	Date Completed: 4/11/06

Reviewed by / Date: M. Cooke 4/12/06
Reviewed by / Date: Clay Sams 12/4/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–1		SPT 1	2 4 4	12/18					CL-ML	CLAY silty (CL-ML); dark reddish brown (2.5 Y 3/4); damp; medium stiff; 10% fine grained sand; some roots; low plasticity; RESIDUUM	Residuum
2–3		SPT 2	3 4 7	17/18					ML	SILT sandy (ML); dark red (10 R 3/6); dry to damp; medium stiff; 15 to 25% fine grained sand; low plasticity; RESIDUUM	
4–5		SPT 3	6 9 12	18/18						SAA; dark reddish brown (5 YR 3/4); very stiff	
6–7		SPT 4	5 7 10	17/18					ML	SAA; some weathered quartz fragments from 7.4 to 7.5 ft; some manganese staining	
9–10		SPT 5	5 5 7	10/18						SAND silty (SM); dark reddish brown (5 YR 3/4); grading down to dark olive brown (2.5 Y 3/3); damp; medium dense; micaceous; RESIDUUM	
11									SM	SAA; olive brown (2.5 Y 4/4) 30 to 40% silt	
12		SPT 6	5 5 7	17/18						SAA; olive brown (2.5 Y 4/4); 30 to 40% silt	
14–15		SPT 7	5 8 8	13/18						SAA	
19–20		SPT 8	6 6 10	15/18						SAA; light olive brown (2.5 Y 5/4); damp; loose; 30 to 40% silt; micaceous; some manganese staining; RESIDUUM	End day 4/10/06, no water encountered Begin day 4/11/06, no water encountered
24–25		SPT 9	7 7 10	18/18						SAA; grading down to yellowish brown (10 YR 5/8)	
29–30		SPT 10	6 7 8	13/18						SAA	
34–35		SPT 11	9 9 10	18/18						SAA; brown (7.5 YR 4/4); damp; medium dense; 30 to 40% silt; micaceous; RESIDUUM	
39–40		SPT 12	8 11 14	18/18					SM	SAND silty (SM); pale olive (5 Y 6/4); damp; medium dense; 30 to 40% silt; SAPROLITE	Saprolite at 38.5 ft

Project Name : Job Number
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SOIL LOG - Boring No. B-619

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40–47										SAND silty (SM); pale olive (5 Y 6/4); damp; medium dense; 30 to 40% silt; SAPROLITE *(Continued from previous page)*	
44–45		SPT 13	8 10 14	18/18						SAA	
48–52									ML	SILT clayey (ML); yellowish brown (10 YR 5/6); moist; very stiff; fine grained sand 10% mottled; SAPROLITE	
49–50		SPT 14	7 9 11	18/18							
53–58									SP-SM	SAND silty (SP-SM); dark yellowish brown (10 YR 3/6); moist; medium dense; fine grained sand; 10% silt; micaceous; abundant mafic mineral; faint sub horizontal foliation; SAPROLITE	
54–55		SPT 15	8 12 14	17/18							
59–63		SPT 16	8 14 16	18/18						SAA	
64–65		SPT 17	9 50/1	7/6					SP-SM	SAND (SP-SM); dark olive brown (2.5 Y 3/3); moist; very dense; fine grained sand; some silt; micaceous; relict mafic minerals; faint sub horizontal structure; PARTIALLY WEATHERED ROCK	Partially weathered rock Auger refusal on 4/11/06; no water
66										BORING TERMINATED AT 66.0 ft	

Project Name : Job Number
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SOIL LOG - Boring No. B-620

Type and Diameter of Boring: Hollow stem / 7 inch	Boring Location: North of Northern Nuclear Island		Total Depth: 100 feet
Drilling Contractor and Rig: TRIGON/Toothman/90117 / B 57	Elevation at Boring: 381.7 feet	Ground Water Depth: 31.6 feet	Depth to Bedrock
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 24	Date Started: 4/7/06
	Borehole Inclination: 0	Logged by: C. Gaskins	Date Completed: 4/10/06

Reviewed by / Date: M. Cooke 4/11/06
Reviewed by / Date: Clay Sams 12/4/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–1		SPT 1	1 2 3	14/18					CL-ML	CLAY silty sandy (CL-ML); dark brown (10 YR 3/3); moist; medium stiff; 50% clay, 20% silt, 30% sand; low to medium plasticity; RESIDUUM	Residuum
2–3		SPT 2	2 3 8	16/18					ML	SILTsandy (ML); brown (10 YR 4/3); moist; stiff; 70% silt, 30% sand; low plasticity; contains small roots; SAPROLITE	Saprolite
4–5		SPT 3	13 21 39	18/18					SM	SANDsilty (SM); dark yellowish brown (10 YR 4/6); damp; very dense; 70% sand, 30% silt; slightly micaceous; SAPROLITE	
6–7		SPT 4	7 20 13	18/18						SAA; pale brown (10 YR 6/3); damp; dense; 75% sand, 25% silt; contains quartz angular rock fragments; SAPROLITE	
9–10		SPT 5	5 9 11	18/18						SAA; light brownish gray (10 YR 6/2); damp; medium dense; 60% sand; 40% silt; grades to 50% silt, 50% sand from 8.5 to 9.0 ft and (10 YR 4/3); slightly micaceous; SAPROLITE	
11–12		SPT 6	6 9 13	18/18						SAA; gray (10 YR 6/1); damp; medium dense; 70% sand, 30% silt; slightly micaceous; SAPROLITE	
14–15		SPT 7	7 8 10	14/18						SAA; light brownish gray (10 YR 6/2); damp; medium dense; 70% sand, 30% silt; slightly micaceous; SAPROLITE	
19–20		SPT 8	5 7 10	18/18						SAA; light brownish gray (10 YR 6/2); damp; medium dense; 65% sand, 35% silt; slightly micaceous; SAPROLITE	
22–23									ML	SILT sandy (ML); dark yellowish brown (10 YR 4/4); moist; very stiff; 75% silt, 25% sand; low plasticity; very slightly micaceous; SAPROLITE	
24–25		SPT 9	4 7 9	18/18							
27–28									SM	SAND silty (SM); light yellowish brown (2.5 Y R 6/4); moist; medium dense; 65% sand, 35% silt; slightly micaceous; SAPROLITE	
29–30		SPT 10	6 7 9	18/18					ML	SILT sandy (ML); yellowish brown (10 YR 5/4); moist; very stiff; 75% silt, 25% sand; low plasticity; slightly micaceous; SAPROLITE	
32–33									SM	SAND silty (SM); yellowish brown (10 YR 5/4); moist; dense, 65% sand, 35% silt; slightly micaceous; SAPROLITE	
34–35		SPT 11	13 24 26	18/18							
39–40		SPT 12	6 12 14	18/18						SAA; dark gray (10 YR 4/1); moist; medium dense; 55% sand, 45% silt; SAPROLITE	

Project Name : Job Number

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SOIL LOG - Boring No. B-620

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40–41											End of day 4/7/06 water at 39 ft. Begin day 4/8/06 at 8:00 am water at 34.6 ft.
42–43									ML	SILT sandy (ML); brown (10 YR 5/3); moist; very stiff; 65% silt, 35% sand; no to low plasticity; micaceous; SAPROLITE	
44–45		SPT 13	6 8 13	16/18							
46–47									SM	SAND silty (SM); brown (10 YR 5/3); moist; dense; 60% sand, 40% silt; micaceous; SAPROLITE	
48–49		SPT 14	7 11 24	12/18							
50–53											
54–55		SPT 15	6 11 22	13/18						SAA; dark grayish brown (10 YR 4/2); moist; dense; 60% sand, 40% silt; micaceous; SAPROLITE	
56–57									ML	SILT sandy (ML); brown (10 Y R 4/3); moist; hard; 55% silt, 45% sand; no to low plasticity; micaceous; SAPROLITE	
58–59		SPT 16	9 17 35	14/18							
60–63											
64–65		SPT 17	10 18 27	13/18						SAA; dark grayish brown (10 YR 4/2); moist; hard; 55% silt, 45% sand; no to low plasticity; slightly micaceous; SAPROLITE	
66–67											
68									ML	SILT sandy (ML); grayish brown (10 YR 5/2); moist; hard; 55% silt; 45% sand; no to low plasticity; micaceous; PARTIALLY WEATHERED ROCK	
69		SPT 18	22 50/4	10/10							
70–72											
73									ML	**SILTsandy (ML); grayish brown (10 YR 5/2); moist; hard; 55% silt; 45% sand; no to low plasticity; micaceous; SAPROLITE**	
74–75		SPT 19	12 25 45	13/18							
76–77											Partially weathered rock
78									SM	SAND silty (SM); grayish brown (10 YR 5/2); moist; very dense; 65% sand, 35% silt; micaceous; PARTIALLY WEATHERED ROCK	
79		SPT 20	50/6	6/6							
80											

Project Name : Job Number

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SOIL LOG - Boring No. B-620

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
80										SAND silty (SM); grayish brown (10 YR 5/2); moist; very dense; 65% sand, 35% silt; micaceous; PARTIALLY WEATHERED ROCK *(Continued from previous page)*	
81											
82											
83											
84		SPT 21	50/4	4/4						SAA; except yellowish brown (10 YR 5/4)	
85											
86											
87											
88											
89		SPT 22	50/5.5	5.5/5.5						SAA except dark grayish brown (10 YR 4/2)	
90											
91											
92											
93											
94		SPT 23	50/2.5	2.5/2.5						SAA; light brownish gray (10 YR 6/2); damp to moist; very dense; 70% sand, 30% silt; micaceous; PARTIALLY WEATHERED ROCK	
95											
96											
97											
98											
99		SPT 24	50/1	1/1						**SAND** silty (SM); grayish brown (10 YR 5/2); damp; very dense; 80% sand, 20% silt; PARTIALLY WEATHERED ROCK	
100										BORING TERMINATED AT 100.0 ft.	Boring terminated on 4/10/06 Begin day 4/11/06 at 8:30 am water at 31.6 ft
101											
102											
103											
104											
105											
106											
107											
108											
109											
110											
111											
112											
113											
114											
115											
116											
117											
118											
119											
120											

Project Name : Job Number
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SOIL LOG - Boring No. B-621

Type and Diameter of Boring Mud Rotary / 3 7/8 inch/NQ	Boring Location North of Northern Nuclear Island		Total Depth 101 feet
Drilling Contractor and Rig TRIGON/Toothman/90117 / B 57	Elevation at Boring 421.5 feet	Ground Water Depth 63 feet	Depth to Bedrock 58.5 feet
Sampling Method Standard	Sample Driving Hammer/Drop 140 lbs / 30 inches	No. of Samples 15	Date Started 4/11/06
	Borehole Inclination 0	Logged by J. Liles	Date Completed 4/18/06

Reviewed by / Date M. Cooke 4/24/06

Reviewed by / Date Clay Sams 12/4/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–1	/	SPT 1	3 4 4	15/18					CL-ML	CLAY silty, sandy (CL-ML); yellowish red (5 YR 4/6); damp; medium stiff; 50% clay, 30% silt, 20% sand; low to medium plasticity; RESIDUUM	Residuum
2–3	/	SPT 2	6 8 9	16/18					ML	SILT sandy (ML); red (2.5 YR 5/8); damp; very stiff; 70% silt, 30% sand; no plasticity; RESIDUUM	
4–5	/	SPT 3	6 7 7	15/18						SILT sandy (ML); red (2.5 YR 4/6); stiff; 85% silt, 15% sand; no plasticity; slightly micaceous; RESIDUUM	
6–7	/	SPT 4	3 3 5	14/18						SILT (ML); yellowish brown (10 YR 5/4); medium stiff; 90% silt, 10% sand; no plasticity; RESIDUUM	
9–10	/	SPT 5	5 7 8	15/18						SILT sandy (ML); dark red (2.5 YR 3/6); stiff; 80% silt, 20% sand; no plasticity; slightly micaceous; RESIDUUM	
12–13	/	SPT 6	2 3 4	16/18						SAA; yellowish red (5 YR 4/6); medium stiff; 85% silt, 15% sand; no plasticity; slightly micaceous; RESIDUUM	
14–15	/	SPT 7	2 4 4	16.5/18						SAA; dark red (2.5 YR 3/6); medium stiff; 75% silt, 25% sand; no plasticity; micaceous; RESIDUUM	
19–20	/	SPT 8	2 3 6	18/18						SAA; yellowish red (5 YR 5/8); stiff; 70% silt, 30% sand; no plasticity; slightly micaceous; RESIDUUM	
24–25	/	SPT 9	1 2 3	16/18						SAA; yellowish red (5 YR 4/6); medium stiff; 70% silt, 30% sand; no plasticity; slightly micaceous; RESIDUUM	
29–30	/	SPT 10	3 5 8	20/18						SAA, clayey (ML); yellowish brown (10 YR 5/8); stiff; 70% silt, 30% sand; low to medium plasticity; slightly micaceous; RESIDUUM	
34–35	/	SPT 11	5 9 13	19/18						SAA; dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 25% sand, 5% clay; low to medium plasticity; trace of clay; slightly micaceous; RESIDUUM	
39–40	/	SPT 12	10 11 8	13/18						SAA; dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 30% sand; low plasticity; trace clay;	

Project Name : Job Number

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SOIL LOG - Boring No. B-621

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										slightly micaceous; RESIDUUM	
41										SILT sandy (ML); red (2.5 YR 5/8); damp; very stiff; 70% silt, 30% sand; no plasticity; RESIDUUM *(Continued from previous page)*	
42											
43											
44		SPT 13	10 28 50/4	19/16						SAA; black (10 YR 2/1); hard; 70% silt, 30% sand; no plasticity; slightly micaceous; RESIDUUM	
45											
46											
47											
48											
49		SPT 14	24 36 19	16/18						SAA; black (7.5 YR 2.5/1); hard; 70% silt, 30% sand; no plasticity; contains rock fragments; slightly micaceous; RESIDUUM	End of day 4/11/06 Begin day 4/12/06 at 8:00 am water at 24.0 ft
50											
51											
52									GP	GRAVEL (GP); Amphibolite schist fragments; black; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 58.8 ft	
53											
54		SPT 15	50/4	1/4							
55											
56											
57											
58											
59											
60											
61											
62											
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74											
75											
76											
77											
78											
79											
80											

Project Name : Job Number
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ROCK LOG - Boring No. B-621

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: North of Northern Nuclear Island		Total Depth: 101 feet
Drilling Contractor and Rig: TRIGON/Toothman/90117 / B 57	Elevation at Boring: 421.5 feet	Ground Water Depth: 63 feet	Depth to Bedrock: 58.5 feet
Casing Size and Depth: 3.5 / 58.5 feet	Length of Core Barrel and Bit: 8.5 feet	No. of Core Boxes: 3	Date Started: 4/11/06
	Borehole Inclination: 0	Logged by: J. Liles	Date Completed: 4/18/06

Reviewed by / Date: M. Cooke 4/24/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
59–61	1	1.0/2.5	0	CW to MW	R0 to R3			Completely weathered zone of PARTIALLY WAETHERED ROCK or SAPROLITE containing 1 ft of AMPHIBOLITE SCHIST recovered in core	
61–66	2	0.5/5.0	0	CW to MW	R0 to R3			Completely weathered zone of PARTIALLY WAETHERED ROCK or SAPROLITE containing thin zone of BIOTITE GNEISS recovered in core	
66–71	3	2.8/5.0	1	CW to MW	R0 to R3			Completely weathered zone of PARTIALLY WAETHERED ROCK or SAPROLITE containing 2.8 ft of AMPHIBOLITE SCHIST recovered in core	
71–74	4	3.4/5.0	46	HW	R0 to R3			GRANODIORITE and highly weathered to completely weathered PARTIALLY WEATHERED ROCK or SAPROLITE	
74–76				F	R4			BIOTITE GNEISS; white and gray; fine to medium grained; foliation at 30°	
76–81	5	5.0/5.0	100	F	R4				30% loss of coring water return
81–86	6	5.0/5.0	100	F	R4				End of day 4/13/06 Begin day 4/14/06
86–91	7	4.8/5.0	96	F	R4			MIGMATITE; gneiss with granodiorite and amphibolite schist; black and white to dark gray; fine to coarse grained; pyrite visible	End drilling 4/14/06 Begin drilling 4/17/06 at 12:50 pm water at 63 ft
91–96	8	5.0/5.0	100	F	R4				End drilling 4/17/06 Begin drilling 4/18/06
96–98		5.0							

Project Name : Job Number

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ROCK LOG - Boring No. B-621

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
99	9	5.0	100	F	R4			BIOTITE GNEISS CORING TERMINATED AT 101.0 ft.	Run #6 recovery taken as 5 ft because 0.5 ft of core left in hole
100									
101									Boring terminated at 101.0 ft. on 4/18/06
102									
103									
104									
105									
106									
107									
108									
109									
110									
111									
112									
113									
114									
115									
116									
117									
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122									
123									
124									
125									
126									
127									
128									
129									
130									
131									
132									
133									
134									
135									
136									
137									
138									

Project Name : Job Number
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SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-622

Type and Diameter of Boring: Hollow stem / 7 inch	Boring Location: North of Northern Nuclear Island		Total Depth: 45 feet
Drilling Contractor and Rig: TRIGON/Toothman/90117 / B 57	Elevation at Boring: 437.7 feet	Ground Water Depth: 44 feet	Depth to Bedrock: 45 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 14	Date Started: 4/6/06
	Borehole Inclination: 0	Logged by: C. Gaskins	Date Completed: 4/6/06

Reviewed by / Date: M. Cooke 4/7/06
Reviewed by / Date: Clay Sams 12/4/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–1	/	SPT 1	4 8 8	14/18					ML	SILT sandy (ML); (2.5 YR 5/8); moist; very stiff; 70% silt, 30% sand; low plasticity; RESIDUUM	Residuum
2–3	/	SPT 2	6 7 8	16/18						SAA; stiff	
4–5	/	SPT 3	5 5 7	18/18						SAA; stiff	
6–7	/	SPT 4	5 7 9	18/18					SM	SAND silty (SM); (7.5 YR 6/8); damp to moist; medium dense; 60% sand, 40% silt; poorly graded RESIDUUM	
8–9	/	SPT 5	2 4 5	18/18					ML	SILT sandy (ML); (2.5 YR 5/8); damp to moist; medium stiff; 65% silt; 35% sand; low plasticity; RESIDUUM	
10–11	/	SPT 6	2 5 6	18/18					SM	SAND silty (SM); (7.5 YR 6/8); damp to moist; medium dense; 60% sand, 40% silt; RESIDUUM	
12–13	/	SPT 7	3 5 7	18/18						SAND silty (SM); (10 YR 5/6); damp to moist; medium dense; 55% sand, 45% silt; very micaceous; RESIDUUM	
14–15	/	SPT 8	3 4 5	18/18						SAND silty (SM); (10 YR 6/4); damp to moist; loose; 75% sand; 25% silt; RESIDUUM	
16–17	/	SPT 9	5 7 7	18/18						SAA; except medium dense; RESIDUUM	
18–19											Medium stiff to hard
20–21	/	SPT 10	3 5 5	18/18					SM	SAND silty (SM); (10 YR 7/4 to 10 YR 5/4); moist; loose; 70% sand, 30% silt; micaceous; SAPROLITE	Saprolite
22–23									ML	SILTsandy (ML); 7.5 YR 4/6; moist; medium stiff to hard; 60% silt, 40% sand; low plasticity; SAPROLITE	
24–25	/	SPT 11	4 7 50/5	18/17					ML	SILT sandy (ML); PARTIALLY WEATHERED ROCK	Hard ledges and lenses from 35 to 38.5 ft
26–27											
28–29	/	SPT 12	13 18 32	18/18					SM		

Project Name : Job Number

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SOIL LOG - Boring No. B-622

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										SAND silty (SM); 10 YR 3/1; moist; very dense; 80% sand, 20% silt; contains <1/2 diameter gravel size rock fragments that could not be broken down by SPT; SAPROLITE	
41											
42											Hard drilling from 42 to 45 ft
43										*(Continued from previous page)*	
44		SPT 13	50/1.5	1.5 / 1.5						SAND silty (SM); 10 YR 8/1; moist; 85% sand; 15% silt; PARTIALLY WEATHERED ROCK	Auger refusal at 45 ft. on 4/6/06 water at 44.4 ft 4/7/06 water level at 44 ft
45										BORING TERMINATED AT 45.0 ft.	
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60											
61											
62											
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64											
65											
66											
67											
68											
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70											
71											
72											
73											
74											
75											
76											
77											
78											
79											
80											

Project Name : Job Number
MACTEC
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SOIL LOG - Boring No. B-623

Type and Diameter of Boring: Hollow stem / 6 1/2 inch	Boring Location: Northeast of Nuclear Island		Total Depth: 73.9 feet
Drilling Contractor and Rig: MACTEC/Akins/212393 / CME550	Elevation at Boring: 439.6 feet	Ground Water Depth: 71.6 feet	Depth to Bedrock: 73.9 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 19	Date Started: 4/6/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 4/7/06

Reviewed by / Date: M. Cooke 4/7/06
Reviewed by / Date: Clay Sams 12/4/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–1		SPT 1	2 3 5	8/18					ML	SILT sandy (ML); dark reddish brown (5 YR 3/4); dry; medium stiff; RESIDUUM	Residuum
2–3		SPT 2	5 6 7	12/18						SILT sandy (ML); dark reddish brown (2.5 YR 2.5/3); dry; stiff	
4–5		SPT 3	5 8 16	15/18						SILTsandy (ML); dark reddish brown (2.5 YR 2.5/4); dry; very stiff	
6–7		SPT 4	9 13 17	18/18						SILT (ML); red (10 R 3/6); dry; hard	
9–10		SPT 5	11 17 26	18/18						SILT (ML); red (10 R 3/6); dry; hard	
11–12		SPT 6	11 13 17	18/18						SILT (ML); red (10 R 4/6); dry; hard	
14–15		SPT 7	11 16 18	18/18						SAA; damp	
19–20		SPT 8	4 7 12	18/18						SILT sandy (ML); reddish yellow (5 YR 6/8); damp; very stiff	
24–25		SPT 9	4 7 9	18/18						SILT (ML); red (2.5 YR 4/6); dry; very stiff; trace mica	
29–30		SPT 10	7 9 7	18/18					ML	SILT (ML); yellowish red (5 YR 4/6); very stiff; SAPROLITE contains sand lenses 28.5 to 28.7 ft and 29.5 to 30 ft; SAPROLITE	Saprolite
34–35		SPT 11	3 3 6	18/18						SILT sandy (ML); red (2.5 YR 4/6); dry to damp; stiff; with black veins; micaceous; SAPROLITE	
39–40		SPT 12	5 6 7	18/18						SILT sandy (ML); red and orange with black veins; dry; stiff	

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-623

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (Inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										SILT (ML); yellowish red (5 YR 4/6); very stiff; SAPROLITE contains sand lenses 28.5 to 28.7 ft and 29.5 to 30 ft; SAPROLITE *(Continued from previous page)*	
41											
42											
43											
44		SPT 13	7 7 13	17/18						SILT sandy (ML) with lense of SAND (SM); (10 YR 6/4) 44.5 to 45 ft	
45											
46											
47											
48											
49		SPT 14	17 16 17	18/18						SILT (ML); yellowish brown (10 YR 5/8); dry; hard	
50											
51											
52											
53											
54		SPT 15	7 9 15	18/18						SILT sandy (ML); brown (7.5 YR 5/8); dry; very stiff; vein of very pale olive; micaceous; black veins	
55											
56											
57											
58											
59		SPT 16	7 11 22	18/18						SAA	
60											
61											
62											
63											
64		SPT 17	8 7 10	18/18						SILT sandy (ML); brown (7.5 YR 5/8); micaceous	
65									SM	SAND silty (SM); white; micaceous	
66											Difficult slow drilling progress
67											
68											
69		SPT 18	10 50/5.5	6/11.5					SM	SAND silty (SM); (1.4/N); rock chips encountered; PARTIALLY WEATHERED ROCK Auger refusal at 73.9 ft boring terminated	
70											End drilling 4/6/06 no water Resume 4/7/06 at 8:30 am no water
71									∇		
72											Difficult drilling scraping Water encountered at 71.6 ft
73											
74		SPT 19	50/1	1/1							Auger refusal at 73.9 ft. on 4/7/06; waeter at 71.6 ft
75											
76											
77											
78											
79											
80											

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-624

Type and Diameter of Boring: Hollow stem / 6 1/2 inch	Boring Location: East of Nuclear Island		Total Depth: 31.6 feet
Drilling Contractor and Rig: MACTEC/Akins/212393 / CME550	Elevation at Boring: 359 feet	Ground Water Depth	Depth to Bedrock: 31.6 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 10	Date Started: 4/10/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 4/10/06

Reviewed by / Date: M. Cooke 4/17/06
Reviewed by / Date: Clay Sams 12/4/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–1		SPT 1	1 2 5	12/18					SM	SAND silty (SM); dark yellowish brown (10 YR 4/6); dry; loose; RESIDUUM	Residuum
1–3		SPT 2	4 9 19	13/18						SAND (SM); black and brown (7.5 YR 4/6 and 5 YR 2.5/1); dry; medium dense; trace silt	
3–5		SPT 3	21 30 35	18/18					SM	SAND (SM); yellowish brown (10 YR 4/4); dry; medium dense; well graded with traces of gravel and trace fines	Difficult drilling
5–7		SPT 4	20 50/4	8/10					SM	SAND (SM); very dark gray (2.5 Y 3/1); dry; fine sand; trace silt; some gravel; PARTIALLY WEATHERED ROCK	Difficult drilling Partially weathered rock 5.5 to 8.0 ft
7–9		SPT 5	30 31 45	13/18					SM	SAND (SM); very dark gray (10 YR 3/1); dry; dense; fine sand; gravel	Saprolite 8.0 to 10.5 ft.
9–11		SPT 6	50/5.5	5.5/5.5					SM	SAND (SM); greenish black (10 GY) fine with gravel, coarse sand, rock pieces; PARTIALLY WEATHERED ROCK	Difficult drilling Partially weathered rock at 10.5 ft
11–13		SPT 7	27 50/6	10/12						SAND (SM); dry; dense; brown and greenish black with gravel; fine sand; trace silt; PARTIALLY WEATHERED ROCK	Auger scraping
13–15		SPT 8	50/2.4	2/2.4						SAND silty (SM) brown (10 YR 5/3); dry; very dense; fine to medium sand with gravel; PARTIALLY WEATHERED ROCK	
15–17		SPT 9	50/4	2/4						SAND (SM); greenish black (10 GY); fine to gravel; trace silt; PARTIALLY WEATHERED ROCK	
17–19		SPT 10	50/6	5/6						SAND silty (SM); fine to gravel; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 31.6 ft.	Auger refusal at 31.6 ft on 4/10/06; no water

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-625

Type and Diameter of Boring: Hollow stem / 6 1/2 inch	Boring Location: East of Cooling Tower Area		Total Depth: 110 feet
Drilling Contractor and Rig: MACTEC/Akins/212393 / CME550	Elevation at Boring: 404.2 feet	Ground Water Depth: 98.4 feet	Depth to Bedrock: 110 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 26	Date Started: 4/4/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 4/5/06

Reviewed by / Date M. Cooke 4/7/06
Reviewed by / Date Clay E Sam

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–1	/	SPT 1	1 2 5	10/18					ML	SILT (ML); dusky red (2.5 YR 3/6); dry; medium stiff; RESIDUUM	Residuum
2	/	SPT 2	5 6 10	2/18						SAA; very stiff	
3–4	/	SPT 3	7 9 13	16/18						SAA	
5–6	/	SPT 4	14 24 28	18/18					ML	SILT(ML); dusky red (2.5 YR 3/6); and strong brown (7.5 YR 5/8); dry; hard; mottled	
8–9	/	SPT 5	11 15 19	18/18						SILT (ML); red (2.5 YR 4/8); dry; very stiff	
10–11	/	SPT 6	9 11 11	18/18						SAA; very stiff	
13–14	/	SPT 7	5 8 9	18/18						SAA; very stiff	
19–20	/	SPT 8	4 5 7	18/18						SILT (ML); orange at top of the interval white fine sand at base (10 YR 6/8); brownish yellow from 19.5 to 20 ft; white sand at 20 ft; stiff	Sand interval 19.5 to 20 ft
24–25	/	SPT 9	3 4 5	18/18						SAA; micaceous; trace fine sand	
29–30	/	SPT 10	4 6 7	18/18						SAA; brown (7.5 YR 5/8); medium stiff; micaceous; trace fine sand	
34–35	/	SPT 11	4 6 8	18/18					ML	SAA; tan and brown; damp; stiff; mottled with black banding; ferns or manganese; SAPROLITE	Saprolite
39–40	/	SPT 12	3 4 6	18/18						SAA	

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-625

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40–43										SAA; tan and brown; damp; stiff; mottled with black banding; ferns or manganese; SAPROLITE *(Continued from previous page)*	
44–45	✓	SPT 13	4 7 8	18/18						SILTsandy (ML); pale yellow (2.5 Y 8/2); with black specks damp; medium stiff; with trace gravel; SAPROLITE	
46–47											
48									SP-SM	SAND (SM-SP); white (2.5 Y 8/1); dry; medium dense; fine sand; gravely	Harder drilling 47 ft
49–50	✓	SPT 14	16 11 12	18/18							
51–52											
53									SM	SAND (SM); pale yellow (2.5 Y 8/3); dry; medium dense; micaceous; trace silt	
54–55	✓	SPT 15	4 7 8	18/18							
56–57											
58									ML	SILT sandy (ML); olive (5 Y 5/4); dry; medium dense; micaceous; very stiff	
59–60	✓	SPT 16	6 8 10	18/18							
61–63											
64–65	✓	SPT 17	5 7 10	18/18						SILT (ML); strong brown (7.5 YR 5/8); black vein; dry; stiff; micaceous; SAPROLITE	Sample not as sandy and no gravel 63.5, 68.5 and 73.5 ft
66–68											
69–70	✓	SPT 18	5 8 11	18/18						SAA; grading down to pale brown (10 YR 8/3); damp; very stiff	
71–73											
74–75	✓	SPT 19	6 9 10	18/18						>SILT (ML); strong brown (7.5 YR 5/8); black vein; very stiff;; micaceous; trace fine sand; SAPROLITE	
76–78											
79–80	✓	SPT 20	8 11 15	18						SILT sandy (ML); reddish yellow (7.5 YR 7/8); damp to dry; very stiff; micaceous; SAPROLITE	

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-625

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
80–83										SILT sandy (ML); olive (5 Y 5/4); dry; medium dense; micaceous; very stiff *(Continued from previous page)*	
84–85		SPT 21	4 8 10	18					ML	>SILT (ML); reddish yellow (7.5 YR 6/8); damp; very stiff; micaceous; black veins; SAPROLITE	
87–97									SM	SANDsilty (SM); 7.5 YR 8/1.5); damp; medium dense; very fine; very micaceous; black vein	
89–90		SPT 22	8 10 16	18							
94–95		SPT 23	7 10 14	18/18						SAA; white (7.5 YR 8/1); damp; medium dense; very fine; micaceous	
97–103									ML	SILT (ML); yellowish brown (10 YR 8/6); hard; micaceous; black veins; color change to very pale brown (10 YR 8/2) at 99.6 ft; SAPROLITE	End of day 4/4/06 water level at 88.4 Begin day 4/5/06; water at 86.8 ft
99–100		SPT 24	11 19 24	15/18							
104–108		SPT 25	8 14 19	16/18					ML	SILT sandy (ML); very pale brown (10 YR 8/6); and brown of various shades; medium dense; black vein; micaceous; SAPROLITE	
109–110		SPT 26	47 50/1	7/7					SM	SAND silty (SM); black and white with brown orange staining; damp to dry; dense; fine to medium sand; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 110.0 ft	Auger refusal at 110 ft on 4/5/06; water level at 98.4 ft

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-626

Type and Diameter of Boring: Hollow stem / 7 inch	Boring Location: Existing Access Road		Total Depth: 103.6 feet
Drilling Contractor and Rig: TRIGON/Toothman/90117 / D 57	Elevation at Boring: 417.2 feet	Ground Water Depth: 54.3 feet	Depth to Bedrock: 103.6 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 25	Date Started: 4/4/06
	Borehole Inclination: 0	Logged by: C. Gaskins	Date Completed: 4/5/06

Reviewed by / Date M. Cooke 4/7/06
Reviewed by / Date Clay Sams 12/4/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–5		SPT 1	3 4 6	14/18					CL-ML	CLAY silty (CL-ML); (10 R 4/8); moist; stiff to very stiff; 45% clay; 45% silt; 10% sand; low to medium plasticity; RESIDUUM	Residuum
		SPT 2	3 7 8	18/18							
		SPT 3	4 7 10	16/18							
6–10		SPT 4	3 6 9	18/18					ML	SILT sandy (ML); (10 R 4/8 to 10 R 5/8); moist; stiff; 75% silt, 25% sand; low plasticity; RESIDUUM	
		SPT 5	3 4 7	18/18							
11–18		SPT 6	3 4 6	16/18					ML	SILT sandy (ML); (5 YR 5/8 to 10 YR 6/6); damp to moist; stiff; 55% silt, 45% sand; slightly micaceous; SAPROLITE	Saprolite
		SPT 7	3 4 5	18/18					ML	SAA	
19–20		SPT 8	3 4 6	18/18						SAA	
22–28		SPT 9	3 4 6	18/18					SM	SAND silty (SM); (10 YR 7/8 to 10 YR 5/8 to 10 YR 4/6); moist to wet; loose; 55% sand, 45% silt; slightly to very micaceous; SAPROLITE	
29–33		SPT 10	4 7 7	18/18						SAA; medium dense	Hard zone
34–38		SPT 11	3 5 7	18/18						SAA; medium dense	
39–40		SPT 12	2 3 6	18/18						SAA; medium dense	

Project Name : Job Number
MACTEC
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SOIL LOG - Boring No. B-626

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										SAND silty (SM); (10 YR 7/8 to 10 YR 5/8 to 10 YR 4/6); moist to wet; loose; 55% sand, 45% silt; slightly to very micaceous; SAPROLITE *(Continued from previous page)*	
41											
42											
43											
44		SPT 13	3 6 7	18/18						SAA; medium dense	
45											
46											
47											
48											
49		SPT 14	3 5 7	18/18						SAA; medium dense	
50											
51											
52											
53											
54		SPT 15	4 6 9	18/18					∇	SAA; medium dense; wet	
55											
56											
57											
58											
59		SPT 16	4 7 10	18/18						SAA; medium dense	
60											
61											
62											
63											
64		SPT 17	5 9 14	18/18						SAA except 10 YR 6/4	
65											
66											
67											
68											
69		SPT 18	5 10 14	18/18						SAA 10 YR 6/4	
70											
71											End day 4/4/06; water at 61 ft
72											Begin day 4/5/06; water at 50.4 ft
73											
74		SPT 19	2 11 18	18/18						SAND silty (SM); (10 YR 6/8); moist to wet; medium dense; 65% sand; 35% silt; micaceous; SAPROLITE	
75											
76											
77											
78											
79		SPT 20	15 23 31	18/18						SAND silty (SM); (10 YR 4/1 to 10 YR 7/1); moist; very dense; 65% sand; 35% silt; slightly	
80											

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-626

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
80										micaceous; SAPROLITE	
81										SAND silty (SM); (10 YR 7/8 to 10 YR 5/8 to 10 YR 4/6); moist to wet; loose; 55% sand, 45% silt; slightly to very micaceous; SAPROLITE	
82										*(Continued from previous page)*	
83											
84		SPT 21	6 18 24	18/18						SAND silty (SM); (10 YR 6/6); moist; dense; 75% sand, 25% silt; slightly micaceous; SAPROLITE	
85											
86											
87											
88									SM	SAND silty (SM); (5 YR 5/8); moist; 80% sand, 20% silt; PARTIALLY WEATHERED ROCK	
89		SPT 22	26 50/4.5	10/10.5							
90											
91											
92											
93									SM	SAND silty (SM); (2.5 Y 8/1); moist; very dense; 80% sand; 20% silt; SAPROLITE	
94		SPT 23	11 28 38	9/18							
95											
96											
97											
98									ML	SILT (ML) sandy (5 Y 4/1); moist; 55% silt, 45% sand; non plasticity; very micaceous; PARTIALLY WEATHERED ROCK	
99		SPT 24	33 50/6	10/12							
100											
101											
102									SM	SAND silty (SM); (10 YR 4/1); 75% sand, 25% silt; PARTIALLY WEATHERED ROCK	
103										BORING TERMINATED AT 103.6 ft.	Refusal ta 103.6 ft. on 4/5/06; water at 55.5 ft 4/6/06; water at 54.3 ft
104		SPT 25	50/1.5	1.5/1.5							
105											
106											
107											
108											
109											
110											
111											
112											
113											
114											
115											
116											
117											
118											
119											
120											

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-627

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/HQ	Boring Location: South of Nuclear Island		Total Depth: 101.5 feet
Drilling Contractor and Rig: MACTEC/Gibson/285584 / CME 45	Elevation at Boring: 326.3 feet	Ground Water Depth: 0 feet	Depth to Bedrock: 57.5 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 15	Date Started: 4/11/06
	Borehole Inclination: 0	Logged by: C. Gaskins	Date Completed: 4/25/06

Reviewed by / Date: M. Cooke 4/30/06
Reviewed by / Date: Clay Sams

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–1		SPT 1	4 7 8	12/18					CL	CLAY sandy (CL); red (2.5 YR 4/6); moist; stiff; 70% clay; 30% sand; low to medium plasticity; contains small sized roots; FILL	Fill
2–3		SPT 2	1 1 1	12/18					SC	AND clayey (SC); pinkish gray (7.5 YR 7/2); moist; very loose; 60% sand; 40% clay; ALLUVIUM	Top of alluvium
4–5		SPT 3	1 3 6	12/18						SAA; except loose; ALLUVIUM	
6–7		SPT 4	1 3 7	4/18						SAA; loose	
9–10		SPT 5	14 13 12	18/18						SAA; except medium dense; ALLUVIUM	
11–12		SPT 6	3 7 7	18/18						SAND clayey (SC); gray to brownish yellow (10 YR 5/1 to 10 YR 6/6); moist; medium dense; 70% sand, 30% clay; ALLUVIUM	End of day 4/11/06; water at 0 ft Begin day 4/12/06; water at 0 ft
14–15		SPT 7	4 4 3	12/18						SAA; except light gray (10 YR 7/2); and loose; ALLUVIUM	
17–18									SM	SAND silty (SM); dark yellowish brown (10 YR 3/6); moist; very dense; 70% sand; 30% silt; SAPROLITE	Bottom of alluvium, top of saprolite
19–20		SPT 8	13 28 38	14/18							
22–23									ML	SILT sandy (ML); dark yellowish brown (10 YR 3/6); moist; very stiff; 60% silt, 40% sand; no to low plasticity; SAPROLITE	
24–25		SPT 9	4 8 10	12/18							
29–30		SPT 10	5 5 11	18/18						SAA; except micaceous; SAPROLITE	100% water loss
31									∇		
32–33									SM	SAND silty (SM); yellowish brown (10 YR 5/6); moist; very dense; 65% sand, 35% silt; micaceous; SAPROLITE	
34–35		SPT 11	20 50/4	10/10							Continued to loose 100% circulation from 35 to 38.5 ft
37–38									ML	SILT sandy (ML); strong brown (7.5 YR 4/6); moist; hard; 55% silt, 45% sand; low plasticity; SAPROLITE	
39–40		SPT 12	12 17 38	18/18							

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-627

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40–41											
42–43									SM	SAND silty (SM); yellowish brown (10 YR 5/6); moist; very dense; 60% sand, 40% silt; slightly micaceous; SAPROLITE	
44–45		SPT 13	33 27 50/5	13/17							
46–47–48											Top of Partially weathered rock; very hard drilling from 46 to 47 ft
49–50		SPT 14	50/4	4/4						SAND silty (SM); yellowish brown (10 YR 5/6); moist; very dense; 65% sand, 35% silt;slightly micaceous; PARTIALLY WEATHERED ROCK	End day 4/12/06 water at 0 ft. Begin day 4/13/06 water at 12 ft
51–52–53											End of day on 4/13/06; water at 5 ft
54–55		SPT 15	50/4	4/4						SAND silty (SM); yellowish brown (10 YR 5/4); moist; very dense; 75% sand, 25% silt; micaceous; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 57.5 ft	Begin day on 4/17/06 water at 27.5 ft
56–57											End day 4/17/06 water at 27 ft Begin day 4/18/06 water at 27 ft
58–59–60–61–62–63–64–65–66–67–68–69–70–71–72–73–74–75–76–77–78–79–80											

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-627

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/HQ	Boring Location: South of Nuclear Island		Total Depth: 101.5 feet
Drilling Contractor and Rig: MACTEC/Gibson/285584 / CME 45	Elevation at Boring: 326.3 feet	Ground Water Depth: 0 feet	Depth to Bedrock: 57.5 feet
Casing Size and Depth: 3.5 / 57.5 feet	Length of Core Barrel and Bit: 5 feet / 6 feet	No. of Core Boxes: 3	Date Started: 4/11/06
	Borehole Inclination: 0	Logged by: C. Gaskins	Date Completed: 4/25/06

Reviewed by / Date: M. Cooke 4/30/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
58–59	1	1.0/1.0	0	RS to CW	R0 to R2			GRANODIORITE; white to black (10 YR 8/1 to 2/1); coarse grained; quartz, feldspar, hornblende, biotite	Tricone refusal at 57.5 ft on 4/18/06 see rock log
59–61	2	2.7/2.7	100	SW	R3			GRANODIORITE	Top of sound rock
62–66	3	5.0/5.0	100	F	R3 to R4			GRANODIORITE	End day 4/18/06 water at 0 ft Begin day 4/19/06 water at 12 ft
67–71	4	5.0/5.0	100	F	R3 to R4			SAA; except fine grained from 70.3 to 71.9 ft.	
72–76	5	5.0/5.0	100	F	R3 to R4			GRANODIORITE	
77–78	6	2.1/2.1	100	F	R3 to R4				
79–80	7	1.6/1.6	100	F	R3 to R4				
80–81	8	1.3/1.3	100	F	R3 to R4				
82–86	9	5.0/5.0	100	F	R3 to R4				End day 4/19/06 water at 0 ft Begin day 4/20/06 water at 19 ft
84–86								QUARTZ MONZONITE; light gray (10 YR 7/1); fine grained; quartz, feldspar, hornblende, biotite	
87								GRANODIORITE; light gray (10 R 7/1); fine grained; quartz, feldspar, biotite	
87–91	10	5.0/5.0	87	F	R2 to R3			QUARTZ MONZONITE; light gray (10 YR 7/1); fine grained; quartz, feldspar, hornblende, biotite	End day 4/20/06 water at 0 ft Begin day 4/24/06 water at 34.2 ft
90–91					R3 to R4			GRANODIORITE; white to black (10 YR 8/1 to 2/1); coarse grained; quartz; feldspar; hornblende; biotite	
92–96	11	5.0/5.0	95	F	R3 to R4			CORING TERMINATED AT 101.5 ft.	
97	12	2.0	100	F	R3 to				

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-627

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
98		2.0			R4				
99	13	3.0 / 3.0	100	F	R3 to R4				End day 4/24/06 water at 0 ft Begin day 4/25/06 water at 31.4 ft
100									
101									6 inches cored left in hole counted in run #13 recovery
102									Boring terminated at 101.5 ft water at 0 ft on 4/25/06
103									
104									
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Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. TP-201

Type and Diameter of Boring: Pit / NA	Boring Location: Nuclear Island near boring B-201		Total Depth: 6 feet
Drilling Contractor and Rig: Little Mountain/Caldwell/NA / Backhoe	Elevation at Boring	Ground Water Depth	Depth to Bedrock
Sampling Method: Bulk	Sample Driving Hammer/Drop: NA / NA	No. of Samples: 1	Date Started: 8/17/06
	Borehole Inclination: 0	Logged by: M. Cooke	Date Completed: 8/17/06

Reviewed by / Date C. Sams 8/20/06
Reviewed by / Date Clay Sams 11/30/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–1									GP-GM	Crushed stones with fines	Test pit excavated with rubber-tired backhoe. Obtained bulk sample from 1 to 6 ft. Two 5-gallon buckets were used. A glass jar with a moisture seal lid was also filled and placed in each bucket.
1–6				60	●	●	●		ML	SAND silty (SM); red (10 R 5/8); moist; fine sand; 43% fines; micaceous; RESIDUUM	
6–7										Test pit terminated at 6 ft. Test pit backfilled with excavated material after sampling	

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. TP-227

Type and Diameter of Boring Pit / NA	Boring Location Adjacent to Power Block near boring B-227		Total Depth 5 feet
Drilling Contractor and Rig Little Mountain/Caldwell/NA / Backhoe	Elevation at Boring	Ground Water Depth	Depth to Bedrock
Sampling Method Bulk	Sample Driving Hammer/Drop NA / NA	No. of Samples 1	Date Started 8/17/06
	Borehole Inclination 0	Logged by M. Cooke	Date Completed 8/17/06

Reviewed by / Date C. Sams 8/20/06

Reviewed by / Date Clay Sams 11/30/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–3									ML	SILT sandy (ML); red (10 R 5/8); moist; fine sand; micaceous; RESIDUUM	
3–5				24	●	●	●		ML	SILT sandy (ML); red (2.5 YR 5/8); moist; fine sand; 54% fines; micaceous; relict structure; SAPROLITE	Test pit excavated with rubber-tired backhoe. Obtained bulk sample from 3 to 5 ft. Two 5-gallon buckets were used. A glass jar with a moisture seal lid was also filled and placed in each bucket.
5										Test pit terminated at 5 ft. Test pit backfilled with excavated material after sampling	

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. TP-301

Type and Diameter of Boring: Pit / NA	Boring Location: Nuclear Island near boring B-301		Total Depth: 3 feet
Drilling Contractor and Rig: Little Mountain/Caldwell/NA / Backhoe	Elevation at Boring	Ground Water Depth	Depth to Bedrock
Sampling Method: Bulk	Sample Driving Hammer/Drop: NA / NA	No. of Samples: 1	Date Started: 8/17/06
	Borehole Inclination: 0	Logged by: M. Cooke	Date Completed: 8/17/06

Reviewed by / Date C. Sams 8/20/06

Reviewed by / Date Clay Sams 11/30/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–3				36	●	●	●		SM	SAND silty (SM); yellowish brown (10 YR 5/8); fine sand; 32% fines; micaceous; RESIDUUM	Test pit excavated with rubber-tired backhoe. Obtained bulk sample from 0 to 3 ft. Two 5-gallon buckets were used. A glass jar with a moisture seal lid was also filled and placed in each bucket.
3–40										Test pit terminated at 3 ft. Test pit backfilled with excavated material after sampling	

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. TP-405

Type and Diameter of Boring Pit / NA	Boring Location Cooling Tower near boring B-405		Total Depth 4 feet
Drilling Contractor and Rig Little Mountain/Caldwell/NA / Backhoe	Elevation at Boring	Ground Water Depth	Depth to Bedrock
Sampling Method Bulk	Sample Driving Hammer/Drop NA / NA	No. of Samples 1	Date Started 8/17/06
	Borehole Inclination 0	Logged by M. Cooke	Date Completed 8/17/06

Reviewed by / Date C. Sams 8/20/06

Reviewed by / Date Clay Sams 11/30/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–4				48	●	●	●		SM	SAND silty (SM); dark yellowish brown (10 YR 4/6); moist; fine sand; 32% fines; micaceous; relict structure; SAPROLITE	Test pit excavated with rubber-tired backhoe. Obtained bulk sample from 0 to 4 ft. Two 5-gallon buckets were used. A glass jar with a moisture seal lid was also filled and placed in each bucket.
4										Test pit terminated at 4 ft. Test pit backfilled with excavated material after sampling	