cleaned

34-0157NB B6L

Caltrans EXPLORATION BORING FIELD LOG

Date 5/2/08 | Boring No.

Location Doyle Drive, Lincoln Ave, high Viaduct | Loc No. | EA No. 163701 | Page 1 of 3

Dist. 04 Co. SF Rt. 101 P.M. | Br. No. | Purpose of Work Br. Found

Ft. Rt. Lt. | Line. Sta. | Northings. | Eastings. | Elev.

Ground Water Data: Date/Time | Water Level | Bot. of Boring

Logged By : R Nashed | Drill Crew : Norm, Logan, Jack, Terran

Drill rig : All terrain CS1000 | Hammer Type and Weight : Automatic

Drilling Method : Rotary wash/coring | Casing : N/A

Hole Completion : 5/6/08

Depth	Sample Interval Tool	Blows RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
1							unde presido high Viduct	
2								
3							Sandy clay (CL), firm, yelowish black, little sand 1/10, fine grained, high plasticity, moderate cementation q_c=1.75/1.50	wet drilling
4								
5								
		3						
6		3						
		4					Clayey Sand (SP), medium dense, 15% clay, low plasticity, highly cemented, organic roots [clayey Sand stone, massive, fine grained greenish yellow w/ brown stains, Soft, intensely weathered	
7								
8								
9								
10								
		4						
11	2	6						
		8						
12		33/60		44/60			Sand Stone, massive, fine grained, greenish yellow, v. soft, intensely weathered, moderately fractured	
13								
14								
15							The same as above	
16		45/60		60/60			Shale, thinly bedded, fissile black, fine grained, hard, intensely weathered, intact rock	7 min
17								
18	2							
19								
20								
21		58/60		60/60			Serpentenite, massived, medium grained, greenish gray, v. soft, intensely weathered intact rock	
22								7 min
23								
24							The same as above, no fractures	
25							Shale, thickly bedded, fissile	
26		60/60		60/60			fine grained, black, moderately hard to hard, moderately weathered, moderately fractured	7 min
27								
28	4							
29							The same as above, intact rock no fractures	
30								
31		60/60		60/60				10 min
32							The same as above	
33	5							
34								
35								
36		58/60		60/60			The same as above, but moderately fractured	12 min

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Caltrans EXPLORATION BORING FIELD LOG

Date 5/6/08 | Boring No.

Location Doyle Drive, Lincoln Ave, high viaduct | Loc No. | EA No. 163701 | Page 2 of 3

Dist. 04 Co. SF Rt. 101 P.M. | Br. No. | Purpose of Work Br. Found.

Ft. Rt. Lt. | Line. Sta. | Northings. | Eastings. | Elev.

Ground Water Data: Date/Time | Water Level | Bot. of Boring

Logged By: R Nashed | Drill Crew: Norm, Logan, Jack, Terry

Drill rig: All terrain CS1000 | Hammer Type and Weight: Automatic

Drilling Method: Rotary Wash/Coring | Casing: N/A

Hole Completion: 5/6/08

Depth	Sample Interval	Tool	Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
37										
38	6								shale as above	
39										continue on 5/5/08
40										
41			49/60			60/60			Shale/serpentin contact, thickly bedded, fined grained, black w/ green stains, moderately hard, moderately weathered, jointed @ 60°	
42										15 min
43	7									
44										
45										
46			41/60			40/60			Shale, massive, fissile, fined grained black, moderately soft, intensely weathered, slightly fractured and jointed @ 50°	
47										15 min
48	8									
49										
50										
51			29/60			44/60			Shale, massive, fissile, fined grained, v. soft, intensely weathered intensely fractured	
52										
53	9								Serpentenite, massive, medium grained, greenish gray, moderately soft, intensely weathered, slightly fractured	16 min
54										
55										
56			34/60			49/60				
57										
58	10								Shale, v. thickly bedded, fine to coarse grained, gray with white veinlets, moderately soft, intensely weathered and intensely fractured w/ white calcite veinlets	
59										11 min
60										
61			60/60			60/60				
62										
63	11								Serpentenite, massive, medium grained, greenish gray, moderately soft, intensely weathered, slightly fractured	10 min
64										
65										
66			60/60			60/60				
67									The same as above	11 min
68	12									
69									The same as above, intact rock no fractures	
70										
71			60/60			60/60				13 min
72										
73	13								The same as above	
74										
75										
										Drilling break

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Caltrans EXPLORATION BORING FIELD LOG

Date 5/6/08 | Boring No.

Location Doyle Drive, Lincoln Ave, High Viaduct | Loc No. | EA No. 163701 | Page 3 of 3

Dist. | Co. | Rt. | P.M. | Br. No. | Purpose of Bork: Bm Found

Ft. | Rt. Lt. | Line. | Sta. | Northings. | Eastings. | Elev.

Ground Water Data: Date/Time | Water Level | Bot. of Boring

Logged By: R Nashed | Drill Crew: Norm, Logan, Jack, Fontana

Drill rig: All terrain, CS 1000 | Hammer Type and Weight: Automatic

Drilling Method: Rotary Wash/Coring | Casing: N/A

Hole Completion: 5/6/08

Depth	Sample Interval	Tool. Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
76		57/60			60/60			Serpentenite, massive, fine grained greenish gray, moderately soft, intensely weathered, intact rock no fractures	Continue on 5/7/08
77									
78	14								
79									14 min
80									
81		57/60			60/60			Serpentenite, massive, fine grained, greenish gray, vs/soft, intensely weathered slightly fractured, intact rock	
82									
83	15								14 min
84									
85									
86		54/60			55/60			The same as above	
87									
88									
89	16								
90								The same as above, but moderately fractured	
91		57/60			55/60				
92									
93	17								11 min
94									
95								The same as above, but jointed @ 70°	
96		47/60			60/60				
97									
98	18								14 min
99									
100									

cleaned

34-0157-NB-B6R

Caltrans EXPLORATION BORING FIELD LOG

Date 5/7/08 | Boring No.

Location Doyle Drive, Lincoln Blvd, high Viaduct | Lab No. | EA No. 163701 | Page 1 of 3

Dist. 04 Co. SF Rt. 101 P.M. | Br. No. | Purpose of Work

Ft. Rt. Lt. Line. Sta. | Northings. | Eastings. | Elev.

Ground Water Data: Date/Time | Water Level | Bot. of Boring

Logged By: R Nashed | Drill Crew: Norm, Logan, Jack, Fernando

Drill rig: All terrain CS1000 | Hammer Type and Weight: Automatic

Drilling Method: Rotary Wash / Coring | Casing: N/A

Hole Completion: 5/8/08

Depth	Sample Interval / Tool	Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
1									
2									wet drilling
3								Sand (SP), medium dense, brownish yellow, fine grained, non-plastic, strongly cemented	
4									Bedrock @ depth ~ 3.00 ft
5									
		6						[sandstone, massive, medium grained, brownish yellow, v. soft, intensely weathered	
6		6							5 min
		8							
7		33/6"			53/60				
8	1½							Sandstone as above, slightly fractured	
9									
10									
11		51/60			57/60			The same as above	
12									5 min
13	2½							Serpentenite, massive, fissile, medium grained, greenish gray, moderately soft, intensely weathered,	
14									
15									
16		40/60			58/60			slightly fractured	
17									9 min
18	3½							Shale, thinly bedded, fissile, black, finer grained, moderately hard,	
19									
20								slightly weathered	
21		39/60			55/60			Serpentenite as above	
22								Shale as above	12 min
23	4½								
24								Serpentenite, massive, fine grained, greenish gray to bluish gray,	
25									
26		42/60			60/60			v. soft, intensely weathered,	continue on 5/8/08
27								intensely fractured	5 min
28	5½							The same as above, but moderately fractured	
29									
30								Shale (contact w/serp.), v. thickly bedded, fissile, fine grained, black,	
31		54/60			51/60				
32								moderately soft, moderately weathered	8 min
33	6½							in bottom sheared zone	
34								The same as above	
35								Serpentenite, thickly bedd, fine grained, greenish gray, v. soft, intensely	
36		42/60			60/60			weathered, intensely fractured	6 min
37	7							Shale (sepentenized), massive,	

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Caltrans EXPLORATION BORING FIELD LOG

Date 5/8/08 | Boring No.

Location Doyle Drive, Lincoln Blvd, High Viaduct | Loc No. | EA No. 163701 | Page 2 of 3

Dist. 04 Co. SF Rt. 101 P.M. | Br. No. | Purpose of Work

Rt. Ft.. Lt. | Line. Sta. | Northings. | Eastings. | Elev.

Ground Water Data: Date / Time | Water Level | Bot. of Boring

Logged By: R Nashed | Drill Crew: Norm, Logan, Jack, terrain

Drill rig: All terrain CS/cad | Hammer Type and Weight: Automatic

Drilling Method: Rotary wash/Coring | Casing: N/A

Hole Completion: 5/8/08

Depth	Sample Interval	Total Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
37	7							fissile, fine to moderate grained, gray to bluish gray, moderately soft, contains white calc. veinlets, intensely weathered, intensely fractured	
38									
39									
40									
41		7/60		60/60				Horizontally jointed	
42	8							Shale, massive, fissile, fine and coarse grained of calcite, gray w/ white veinlets, moderately hard, intensely weathered and intensely fractured (as cuttings)	7 min
43									
44									
45									
46									
47		20/60		60/60					
48	9							The same as above, but intensely fractured and jointed	11 min
49									
50									
51		42/60		54/60				Serpentenite, massive, fine to medium grained, bluish to greenish gray, v. soft, intensely weathered slightly fractured	
52	10								10 min
53									
54									
55									
56		45/60		60/60				Shale, as above	
57	11							Serpentenite, massive, medium grained, bluish gray, v. soft, intensely weathered, moderately fractured	14 min
58									
59									
60									
61		58/60		60/60				Shale, thickly bedded, fissile, black, moderately hard, slightly weathered, slightly fractured	14 min
62	12								
63									
64									
65								Serpentenite, as above, but intac rock	
66		44/60		60/60				The same as above	14 min
67	13								
68									
69								The same as above	
70									
71		60/60		60/60					8 min
72									
73	14								
74									
75									

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Caltrans EXPLORATION BORING FIELD LOG

Date 5/8/08 | Boring No.

Location Doyle Drive, Lincoln Blvd, High Viaduct | Proj No. | EA No. 163701 | Page 3 of 3

Dist. 04 Co. SF Rt. 101 P.M. | Br. No. | Purpose of Work

Ft. Rt. Lt. | Line. Sta. | Northings. | Eastings. | Elev.

Ground Water Data: Date/Time | Water Level | Bot. of Boring

Logged By: R Nashed | Drill Crew: Norm, Logan, Jack, Terran

Drill rig: All terrain CS1000 | Hammer Type and Weight: Automatic

Drilling Method: Rotary Wash/Coring | Casing: N/A

Hole Completion: 5/8/08

Depth	Sample Interval / Tool	Blows / RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
76		53/60		60/60			The same as above	
77	15							12 min
78								
79								
80								
81		52/60		60/60			The same as above	
82								12 min
83	16							
84								
85								
86		60/60		60/60			The same as above, but more shaley	
87								10 min
88	13							
89								
90								