34-0157NB-B3R

Caltrans | EXPLORATION BORING FIELD LOG | Date 4/1/08 | Boring No.

Location Lincoln Ave/McDowell (high Viaduct) | Lab No. | EA No. 163701 | Page 1 of 5

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 / D Nesbitt | Drill Crew : Brad, Jarod, Randy

Drill rig : CME-75 | Hammer Type and Weight : Automatic

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

Hole Completion : 4/3/08

Depth	Sample Interval Tool	Blows / RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
1										wet drilling
2										
3							clayey sand (SP), very loose,			
4							medium grained, brownish yellow,			
5							with gray batch, clay < 15%, non-			
	1	Push					plastic			
6										
7										
8										
9										
10										
	2	2	2				No recovery			
11		3								
		2								
12										
13										
14							sand (SP), medium dense,			
15							medium grained, brownish			
	3	4	3				yellow, non-plastic			
16		8								
		13								continue on 4/2/08
17										by D. Nesbitt
18										
19										
20							Sand (SP), medium dense, med. grain, brownish yellow			SPT
	4	9	4	80%			Organic material, stiff, Black,			
21		6					moist,			
		5								
22										
23										
24										
25							Sandy silt			Push SPT Sampler with
	5	Ø					Silty Sand (CH), soft, med. grain			Hammer weight
26							sand, gray,			
										P.P. = 1.0 tsf
27										
28										
29										

34-0157NB-B3R

Caltrans | EXPLORATION BORING FIELD LOG | Date 4/2/08 | Boring No.

Location Lincoln Ave/ Mc Dowell (High Viaduct) | Lab No. | EA No. 163701 | Page 2 of 5

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 : DN. | Drill Crew : Brad Johnson

Drill rig : CME 75 | Hammer Type and Weight : 140 lb. Automatic Hammer

Drilling Method : Rotary Wash | Casing : N/A

Hole Completion :

Depth	Sample Interval Total	Blows RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
31	6	8 16 20	6	100			Silty Sand (SM), dense, medium grain, ~~m~~ gray.	SPT
32								
33								
34								
35								
36	7	4 7 6	7 ~~7~~ ~~6~~	100			Sand (SP), medium dense, medium grain yellowish brown with Orange Staining. At 36ft, changes to silty Sand (SM), medium dense, medium grain, gray.	SPT
37								
38								
39								
40								
41	8	2 4 4	8	100			Sandy silt (~~SM~~ (MH)), soft, gray, medium sand. At 41ft change sand (SP), loose, medium grain, gray.	SPT
42								
43								
44								
45								
46	9	~~0~~ 1 ~~1~~ 15	9 ~~1~~ 15	100			Silt (MH), soft, gray, with medium sand.	No blow counts with SPT Hammer weight only.
47								
48								
49								
50								
51	10	4 11 15	10	100	Silty		Sand (SM), medium dense, medium grain, gray.	SPT
52								
53								
54								
55								
56	11	7 27 31	11	100			Silty Sand (SM), dense, medium grain, gray.	SPT
57								

34-0157NB-B30

Caltrans EXPLORATION BORING FIELD LOG

Date 4/2/00 | Boring No.

Location Doyle Drive High Rise | Job No. | EA No. 113701 | Page 2 of 5

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

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

Ground Water Data

Date / Time	Water Level	Bot. of Boring

Logged By : D Nesbitt | Drill Crew : Johnson

Drill rig : CME 75 | Hammer Type and Weight : 140lb Automatic

Drilling Method : Rotary Wash | Casing : n/a

Hole Completion :

Depth	Sample Interval Tool	Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
59											
60											SPT
		17	12		100			Same as above			SPT
61		22									
		26									
62											
63											
64											
65											
		13	13					Same as above			SPT
66		22									
		23									
67											
68											
69											
70											
		8	14		100%			Clay (CH), stiff, olive-gray mottled			SPT
71		4						with traces of roots and wood.			q_p = 1.5 tsf
		5									
72											
73											
74											
75											
		5	15		90%			Clay (CH) stiff, gray, with roots			SPT
76		4						and wood. At 76ft, changes to ~~stiff~~			
		10						Sand (SP), gray.			
77											
78											
79											
80											
		6	16		90%			Clay (CH) stiff, dark gray, with wood			SPT
81		5						and roots.			
		6									
82											
83											
84											
85											
		5	17		100%			Sandy clay (CL), very stiff, fine sand.			SPT
86		10						Dark gray with roots and burnt wood.			

34-0157NB-B3R

Caltrans EXPLORATION BORING FIELD LOG

Date 4/2/99 | Boring No.

Location Doyle Drive Realignment Project | Lab No. | EA No. 16370 | Page 4 of 5

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

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

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

Logged By : D Nesbitt / R Nashed | Drill Crew : Brad, Jared, Randy

Drill rig : CME 750 | Hammer Type and Weight : Automatic

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

Hole Completion :

Depth	Sample Interval	Tool Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
87									
88									
89									
90								gravelly	
		20	18	80%				~~Silt~~ Sand (SM) with ~~gravel~~ silt, very	SPT
91		36						dense, dark gray, pieces of wood.	
		44							
92									
93									
94									
95									
		7	19	100%				Clay (CH), very stiff greenish Gray	SPT
96		5						with root and white particals	PP = 2.5 tsf
		12							
97									
98									
99									
100									
		3	20	100%				Clay (CL) with ~~sand~~ fine sand, stiff,	SPT
101		7						~~pieces of 1/2" roots and~~	PP = 2.0 tsf
		6							
102									At 101.5 ft, changed to
103			21					Clay (CL) with sand (SP) layers,	punch core, sampler w/
104								Dark greenish Gray, piece of Brown chert	brass tubes.
105								PP = 1.0 tsf	
106	Punch core								105-110 ft punch core
107								Clay (CL) very stiff, Dark greenish	no brass.
108								Gray, ~~trans~~ Crushed to weathered	
109								rock, Greenish Gray.	
110								PP = 4.5 tsf	
111		0/60		39/60				clay stone, massive, thick layer	continue on 4/3/99
112								fine grained, dark gray, v. soft	by R Nashed
113								intensely weathered, intensely fractured	22 min
114								Graywake (Francisca) massive,	
115								medium to coarse grained, yellowish	
116		0/60		31.5/60				gray, very soft, intensely weathered	
117								intensely fractured.	20 min
118									
119								The same as above but fragmental	

34-0153NB-BRP

Gibbs — EXPLORATION BORING FIELD LOG

Date 4/3/98 | Boring No.

Location Lincoln Ave/McDowell, high viaduct | Job No. | EA No. 163704 | Page 5 of 5

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

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

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

Logged By: R Nashed | Drill Crew: Brad, Jarod, Randy

Drill rig: CME 750 | Hammer Type and Weight: Automatic

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

Hole Completion:

Depth	Sample Interval	Tool Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
121		0/60		3/60				Graywacke, (Franciscan), Coarse grained, fragmental, yellowish gray, (Sandstone fragments)			
122											
123	3										24 min
124											
125											
126		0/60		5/60				Graywacke (Francisca), massive coarse grained, yellowish gray, soft to moderately hard, intensely weathered, intensely fractured			
127											
128	4										?
129											
130											
131		44/60		60/60				Sandstone, massive, coarse grained, gray, v. hard, slightly to moderately weathered, slightly fractured			
132											
133	5										
134											12 min
135											
136		51/60		60/60				The same as above			
137											
138											10 min
139	6										
140								Same as above, but jointed with some calcite veinlets			
141		51/60		60/60							
142											
143	7										10 min
144											
145											
146		3/60		58/60							
147											9 min
148	8							Sandstone, massive, coarse grained, gray, v. hard, moderately weathered, intensely fractured and jointed			
149											
150											