Caltrans | EXPLORATION BORING FIELD LOG | Date 4/6/09 | Boring No.

Location Doyle Dr SF Presidio | Lab No. | EA No. 163701 | Page 1 of 5

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

Ft. Rt. Lt. | Line. Sta. | Northings. | Eastings. | Elev. 35 3

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

SPT = 1

Core = 1

Drill method

Logged By: M Gaffney | Drill Crew: Bob E, Rocco, Randy

Drill rig: Acker 7003711 | Hammer Type and Weight: Automatic

Drilling Method: Rotary | Casing:

Hole Completion: Grout to Surface

Depth	Sample Interval / Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Pock Pen		Remarks
1							Sandy Gravel (Fill)			Diamond bit
2										
3										SPLIT Core 2.65 inches
4										
5										
6	1 1		1	12			Sand (SP) Very loose - mostly sand			SPT 1.5 inches
7							Fine brown (7.5YR 4/3)			
8										
9										
10										
1	Push		2	6			Trace Brick			
2										
3										
4										
15										
6	10 14 17		3	13			Dense			
7										
8										
9										
20										
1	11 22 33		4	16			(SP) Colma Very Dense Few Silt			
2							mostly fine sand brown			
3										
4										
25							Peat Dark brown (OL/OH)			
6	3 5 8		5	12			Sand w/ silt (SP) med. Dense Little silt			
7							mostly fine sand Root 1.5 inches in			
8							Diameter red			
9										
30										
1	1 1		6	18			Clay (CH) Stiff Trace fine sand	1.5		
2							mostly Clay High Plasticity			
3							black			
4							@ 31.5 dark greenish Gray			
35										
6	4 5 5		7	7			Sandy Clay (CH) very stiff mostly	3.5		
7							Clay some fine sand yellowish red			
8							(5YR 5/6) & Greenish Gray (Gley 1 6/1)			
9							high Plasticity			
40										

EXPLORATION BORING FIELD LOG

Date | Boring No.

Location Doyle Dr. SF Presidio | Lab No. | EA No. 163701 | Page 2 of 5

Dist. 04 Co. ~~101~~ 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 : | Drill Crew :

Drill rig : | Hammer Type and Weight :

Drilling Method : | Casing :

Hole Completion :

Drill Method

Depth	Sample Interval Tool	Blows RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Pock Pen		Remarks
41		4 6 7	8	18			Silt w/ Sand (ML) Very Stiff	30		
2							mostly Silt Little Sand Low			
3							Plastic			
4										
45										
6		50/3	9	3			Silty Clayey Sand Very Dense			
7							Few clay little silt mostly fine			
8							Sand weak cementation			
9							Dark Greenish Gray (Gley 1 4/1)			
50							Dark reddish brown (2.5YR 3/4)			
1		8 8 8	10	13			@50' only Dark Greenish Gray			
2										
3										
4							Fine → Coarse Sand • borrow Tubes			
55										
6		8 10 19	11	16			med Dense			
7							Grades to			
8							↓			
9										
60										
1		7 11 9	12	18			Sand (SP) med dense mostly			
2							Coarse Sand dark Greenish Gray			
3							Clay (CH) Very Stiff mostly Clay	3.5		
4							high Plasticity black (Gley 2			
65							2.5)			
6		4 7 8	13	18			↓ sand root up to ¼" Diameter	3.5-4.0		
7							Clay w/ Trace Fine sand dark Greenish			
8							Gray (Gley 1 4/1) high Plasticity			
9										
70										
1		4 11 13	14	17			Silty Sand w/ Clay (SW-SM) med dense			
2							little silt little clay mostly Sand			
3							Dark Greenish Gray (Gley 1 4/1)			
4										
75										split core Diameter
6		8 22 23	15	16			same Fine → Coarse sand			
7										
8										
9										
80										

Caltrans | EXPLORATION BORING FIELD LOG | Date | Boring No.

Location Doyle Dr SF Presidio | Lab No. | EA No. 163701 | Page 3 of 5

Dist. 04 Co. ~~101~~ 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: D. Nesbitt | Drill Crew: Bob Enex

Drill rig: Acker (9003711) | Hammer Type and Weight: 140# Automatic

Drilling Method: R. wash | Casing:

Hole Completion:

Depth	Sample Interval Total	Blows RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
81		6 8 12	116	16/18"			Dark greenish gray (Gley2 4/1)			SPT, begin drilling at
2							Clay (CL) w/ some sand,			08:10, 4/7/09
3							very stiff, moist			
4										
85										increasing sand content
6		19 30 30	17	15/18"			Dark greenish gray sand (SP),			piece of chert in punch core
7							w/ trace gravel, Hard, moist			SPT
8							gravel consist of sandstone			
9										8:45 am. light rain
90										
1		18 33 52	18	18/18			Dark greenish gray sand (SP)			SPT
2							Hard, moist			
3										sample washed out
4										of punch core barrel.
95										
6		28 27 26	19	16/18"			Dark greenish gray sand (SP),	SPT		Sample washed out of
7							to 95.5 ft			punch core barrel.
8							95.5 ft to 96.5 ft			
9							Dark greenish gray clay (CL)			
100							w/ some sand, Hard, moist.			At 99.5 ft changes from
1		3 12 14	20	18/18			Dark greenish gray clay (CL),	SPT		clay to sand.
2							sandy clay (CL), stiff, moist, trace of wet roots.			
3							At 101 ft, changes to sand (SP)			
4							Dark greenish gray sand (SP), (fine)			
105										
6		6 10 15	21	16/18			Greenish black (5GY/2.5/1) (CL),			SPT
7							very stiff, moist, w/ shell fragments			
8										
9										
110										
1		5 13 14	22	18/18			Dark greenish gray (CL), very stiff,			SPT
2							Moist, trace shell fragments.			
3										
4										
115										
6		7 8 10	23	18/18			Dark greenish gray clay (CL),			SPT
7							very stiff, moist			
8										
9										
120										

EXPLORATION BORING FIELD LOG

Caltrans

Date | Boring No.

Location Doyle Dr SF Presidio | Job No. | EA No. 163701 | Page 4 of 5

Dist. 04 Co. ~~Lot~~ 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: D. Nesbitt | Drill Crew:

Drill rig: Acker | Hammer Type and Weight: 140# Automatic

Drilling Method: Rotary wash | Casing:

Hole Completion:

Depth	Sample Interval Tool Blows RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Core Time	Remarks
120								
121	15 16 27	24	16/18"			Very Dark Greenish gray clay (CL), w/ some gravel, very stiff, moist		SPT
122								
123								
124								
125								
126	4 9 11	25	13/18"			Same as above		SPT
127								
129								
129								
130								
131	7 11 17	26	17/18"			Very Dark Greenish Gray sandy clay w/ some gravel, very stiff, moist		SPT
132								Begin sampling every 10'
133								
134								
135								
136								
137								
138								
139								
140								(Sample in hole)
141	50/5	27	3			Argillite. slightly weathered mod soft. Very Intensely Fractured (From SPT Sample		SPT
142								4/7/09 Start Rock
143	4/39 (1)	38/60				Shale laminated decomposed very soft	19:07	4/8/09 core
144						Argillite. Fresh. mod soft.		
145	run					Very Intensely Fractured		
146						Greenish black (Gley 2 2.5/1) to blush		
147						gray (Gley 2 5/1)		
148	0/20 (2)	30/60						
149							15:57	
150	run					Fractures healed w/ calcite		
151						@ 150 wood		
152								
153	54/60 (3)	60/60				Intensely Fracture → mod. fractured	22:54	
154								
155	run							
156								
157	0/27 (4)	23/36						
158	run						22:05	
159						Same		

Caltrans

EXPLORATION BORING FIELD LOG

Date 4/8/79 | Boring No.

Location Doyle Dr SF Presidio | Lab No. | EA No. 163701 | Page 5 of 5

Dist. 04 Co. ~~101~~ 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 :

Drill Crew :

Drill rig :

Hammer Type and Weight :

Drilling Method :

Casing :

Hole Completion :

Depth	Sample Interval Tool	Blows RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
160	◇	run	5		6		6" Shale as above Argillite As above		8+4	

Total Depth 160'
27 SPT Sample in 3 canvas bags
1 core box

Caltrans

EXPLORATION BORING FIELD LOG

Date 4/1/09 | Boring No.

Location Doyle Dr. SF Presidio | Job No. | EA No. 163701 | Page 1 of 2

Dist. 04 Co. ~~Lot~~ 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: M Gaffney | Drill Crew: Randy, Ty, Roco

Drill rig: CS 2000 | Hammer Type and Weight:

Drilling Method: Rotary | Casing: 2" PVC

Hole Completion: Piezometer

Drill Method

Depth	Sample Interval	Tool Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
1								No logging of soil			
2								2" PVC Piezometer			
3								Screen			
4								-0 Blank			
5								Sand			
6								bentonite			
7								-0 Grout			
8											
9											
10								Stick pipe cap			
1											
2											
3											
4											
5											
6											
7											
8											
9											
20											
1											
2											
3											
4											
25											
6											
7											
8											
9											
30											
1											
2											
3											
4											
35											
6											
7											
8											
9											
40											

Straight Drill

Blank

Grout

Blank

Caltrans

EXPLORATION BORING FIELD LOG

Date 4/1/09 | Boring No.

Location Doyle Dr SF Presidio | Log No. | EA No. 163701 | Page 2 of 2

Dist. 04 Co. ~~101~~ 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 :

Drill Crew :

Drill rig :

Hammer Type and Weight :

Drilling Method :

Casing :

Hole Completion :

Depth	Sample Interval (ft)	Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
41	Straight Drill					6	Sand Stress				
2						6					
3						6					
4						6					
45						6					
6						6					
7						6					
8						6					
9						6					
50						6					
2						6					
3						6					
4						6					
55						6					
6						6					
7						6					
8						6					