BH# 34 0164 NB R4

Caltrans EXPLORATION BORING FIELD LOG

Date 9/2/08 Boring No.

Location Marshal & Gorgas Lab No. EA No. 163701 Page 1 of 4

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

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

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

Drill Method

Logged By: M. Gaffney Drill Crew: CT, Bob, Corey, Steve

Drill rig: Acker - Model # MPCA Hammer Type and Weight: Automatic

Drilling Method: Rotary Wash Casing: NA

Hole Completion: 124' - Grout to 5' - Bent to 0.5' - Cement 0

Depth	Sample Interval Tool	Blows RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	KP		Remarks
1	Punch Core						6" Asphalt			
2							sandy silt w/ Gravel & ~~Brick~~ Clay pipe 40% fine sand 60% silt	Fill		
3				50			wood. New wood according to Archaeologist			
4										
5							wood in toe			
6		1 3 1	1	100			Sandy silt (ML) Very stiff Gray brown	25-30		Sample 1
7							40% fine sand 60% silt No Plasticity			
8							No cement			
9							Angular Chert Pebbles			
10							sand (SP) Very Loose 100% Sand			
1		Flush	2	100			Sandy Clay (SC) Very Soft. 15% fine Sand	0		Sample 2
2							85% Clay high Plasticity No cement			
3							↓ silty sand (SM) Very loose 15% silt 85%			
4		Corrosion					Coarse Sand No Plasticity No			Corrosion Sample
15				50			Cement			
16		1 4 5	3	100			↓ Clayey sand (SC) Very loose Gray 40%			Sample 3
7							Clay 60% med sand Low Plasticity			
8				50			No Cement			
9							↓ Sand (SP) Loose Gray. 100% med			
20							Sand No cement			
1		1 6 12	4	100			↓ Silty sand (SM) Gray 30% Silt 70% med Sand			Sample 4
2							Sand (SP) med dense Yellow brown			
3							Gray 100% med. Sand No Cement			
4				50			No Plasticity			
25										9/2/08
6		3 4 13	5	100			Sand w/ Silt (SP) med dense Yellow brown			Sample 5
7							10% silt 90% med sand No			9/3/08
8							cement			
9				100			Red & Gray laminations @ 29.5'			
30										
1		13 20 25	6	100			Sand (SP) dense - Yellowish Orange			Sample 6
2							Red laminations 100% med			
3				100			Sand No Cementation			
4							Red mottling w/ Black cemented 1/16" Laminated			
35							layer			
6		12 16 22	7	100			Same No mottling Yellow orange			Sample 7
7							& Gray color			
8										
9							@ 49' 3" Red layer Same Sand			
40										

Armando 650-302-0076 ADAM - 415-946-1647

Brt# 34-0164NB-R4

Caltrans EXPLORATION BORING FIELD LOG

Date 9/3 | Boring No.

Location _____ Lab No. _____ EA No. _____ Page 2 of 4

Dist. ____ Co. ____ Rt. ____ 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:

Drill rig: | Hammer Type and Weight:

Drilling Method: | Casing:

Hole Completion:

Dry Hole

Depth	Sample Interval	Blows 140 lb. Hammer	Sample I.D.	% Rec.	Strength	Graphic Log	Description	KP	RQD	Remarks
41	X	16 13 23	8	100			Sand (SP) Dense Yellow Orange			Sample 8
2							100% med Sand No Cementation			
3							Homogeneous (Colluvia)			
4				100			Yellow orange light Brown Laminations			
45							1/4" thick.			
6	X	19 22 33	9	100			Very Dense			Sample 9
7										
8										
9				100						
50										
1	X	7 16 23	10	100			Same Sand w/ Silt (SP) Dense			Sample 10
2							Yellow orange Reduced 5% Silt			
3				100			95% med sand No Cementation			
4										
55										
6	X	19 26 24	11	100			Grades To			Sample 11
7							Silty Sand (SM) Dense Light Gray			
8				95			Yellow orange 20% Silt 80% med			
9							Sand No Cement			
60										
1	X	7 12 20	12	100						Sample 12
2										
3				75						
4										
65							@ 64.5 Gray Green			
6	X	17 19 17	13	90			30% Silt 70% Sand			Sample 13
7										
8										
9							@ 78' Fine sand Trace angular ~~black~~ To silty Found			
70							Pebble & Charcoal			
1	X	5 8 11	14	80			Clay (CL) Very stiff Green 90% Clay	3-35		Sample 14
2							10% Silt Low Plasticity			
3										
4										
75										
6	X	5 6 7	15				@ 75.5 Shells through 76.5	2.5		Sample 15
7							in Tan Sand w/ Shells			Oysters
8										
9										
80										

BH# 34 0164NB R4

Caltrans

EXPLORATION BORING FIELD LOG

Date | Boring No.

Location | Lab No. | EA No. | Page 3 of 4

Dist. | Co. | Rt. | 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	KP	RQD	Remarks
81		1 1 4	16	100			Clay (CL) medium stiff Green	1.0		Sample 16
2							Gray 10% silt 90% Clay Med			Thick shells ridges
3							Plasticity. shells present			on shells
4							Different from 75'			
85										
6		5 4 5	17	67			1" Layer of Sand (SC) w/ Shells	0.5		Sample 17
7							Clay as above Soft. Shells very			
8				30%			decomposed			
9							Sandy Clay (SC) Green Gray 30% Sand			
90							70% Clay Shells end at 88.5			9/3/08
1		11 20 30	18	70			& a 1" Layer of Broken Argillite @ 88.5	2.5		Sample 18
2							Sandstone in Toe	4.0		(Casing in hole 9/4/08
3				100			@ 90.25 Clay (CL) Very Stiff Yellow Orange Red			Overnight No flowing
4							Mottle 100% Clay med - High Plasticity			water)
95							Sandy Clay Very stiff Yellow orange Red			
6		8 12 13	19	80			Mottle 80% Clay 20% med sand			Sample 19
7							Med Plasticity No Cement			
8							@ 93			Artesian**
9							Sand (SP) Red 100% Sand No cement			Hole Producing H_2O
100							@ 94.5 Sandy Clay again			At Approximately 97'
1		30 50/1"	20	80			& Clay (CL) Hard Gray 100% Clay			Sample 20
2							Trace ¼" High demcorose ~~[illegible]~~ Well	4.5		
3							rounded Pebbles High Plasticity			
4							No Cement			
105							@ 99.5 Sand (SP) Very dense Red w/ black & Tan			
6		7 13 19	21	80			lenses ¼" Thick 100% med sand			Sample 21
7							Some cementation			
8							Clayey Sand (SW-SC) Dense Yellow-orange red			
9							mottle - Sand inclusion ¼" 30% Clay			
110							70% Fine sand No Plasticity No			
1		20 32 44	22	100			cement			Sample 22
2							Sand (SP) Very dense 100% med →			
3							Coarse sand No Cementation			@ 110' Drillers mix
4							& Coarsen downward			mud w/ Quick Gel
115										High Yield bentonite
6							(Change Sample depth due to			Fast mixing High Viscosity
7							Artesian & Time constraint)			bentonite
8										
9										
120							Same Slight Cementation			

BH#34-0164NB-RCK

Caltrans EXPLORATION BORING FIELD LOG

Date 9/4/08 | Boring No.

Location | Lab No. | EA No. | Page 4 of 4

Dist. | Co. | Rt. | 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
121	X	32 42 50/3	23	100			Same No cement			
2										
3							@ 122 Drill got hard 1500psi	Down pressure from		
4							Drill rig (above 200psi)			
125	X	50/4"					To 124' bgs. Stop Sample SPT			
6										
7										
8							Bedrock argillite in Sample #			
9							24 decomposed Argillite			
130										
1							Bottom hole @ 124'			
2							Grouted to 124.5' w/ Tremmie Pipe			
3							Bent to 5'-0.5'			
4							Cement 0.5-0'			
135										
6							2 bags of sample 23 Total Samples			
7							No core boxes			
8										
9										
140										
1										
2										
3										
4										
145										
6										
7										
8										
9										
150										