

LOGGED BY S. McLandrich	BEGIN DATE 12-3-07	COMPLETION DATE 12-3-07	BOREHOLE LOCATION (Lat/Long or North/East and Datum) N2120688.783 / E5996547.94 (NAD83)	HOLE ID MPTSB-R2
DRILLING CONTRACTOR Gregg Drilling and Testing, Inc.		BOREHOLE LOCATION (Offset, Station, Line) Offset 50ft L Sta 60+8 SB Alignment		SURFACE ELEVATION 13.326 ft (NAVD88)
DRILLING METHOD Mud Rotary		DRILL RIG Failing 1500		BOREHOLE DIAMETER 5 in.
SAMPLER TYPE(S) AND SIZE(S) (ID) MC (2.4"), SPT (1.4"), Grab, Shelby (2.87"), Pitcher (2.87")		SPT HAMMER TYPE Automatic, 140 lbs., 30-inch drop		HAMMER EFFICIENCY, ERI 72.8%
BOREHOLE BACKFILL AND COMPLETION Neat Cement Grout backfill		GROUNDWATER DURING DRILLING AFTER DRILLING (DATE) READINGS		TOTAL DEPTH OF BORING 59 ft

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
	0		CLAYEY GRAVEL with SAND (GC), poorly compacted, dark gray, moist, fine to coarse, subangular. [FILL]		S1										
11.33	2		CLAYEY SAND with GRAVEL (SC), dark gray, moist, SAND is fine to medium, GRAVEL is subangular.												
	3		Grades with dark brown wood pieces and bone.		S2	6 8 9	17	100		8.8	118.3			PA	
9.33	4		Poorly graded SAND with GRAVEL (SP), poorly compacted, yellowish brown, moist, fine, GRAVEL is subrounded.		S3	1 2 3	5	100							
	5		SANDY lean CLAY with GRAVEL (CL), dark brown, moist, SAND is fine, GRAVEL is coarse, subrounded to round, mixed with greenish gray and very dark gray SANDY CLAY.												
7.33	6														
	7		Organic SOIL (OH), soft, dark brown, moist, trace fine SAND, with frequent fine roots (up to 1/16" diameter) and decayed vegetation. [BAY MUD]		S4	0 1 3	4	100		98.9 63.2 69.1	78.3 96.6	UU = 0.27		PI, LL, OC OC C	
5.33	8		Grades brown with wood pieces up to 1/2" diameter												
	9		Grades to Organic SOIL with SAND (OH), soft, bluish gray to greenish gray, moist, sand is fine to medium.		U5		100 psi	88						PA	
3.33	10									27	123	UU = 0.41			
	11														
1.33	12														
	13														
-0.67	14		Poorly graded SAND with CLAY (SP-SC), loose, bluish gray, wet, fine to medium, with lenses of SANDY CLAY. [MARINE SAND]		U6		100 psi	63							
	15														
-2.67	16														
	17		CLAYEY SAND (SC), loose, yellowish brown, moist, fine to medium, with reddish brown mottling.		S7	4 6 7	13	100							
-4.67	18														
	19		Poorly graded SAND (SP), very loose, yellowish brown, wet, fine.		S8	1 0 3	3	6		21.7	130.5			PA	
-6.67	20														
	21		Poorly graded SAND (SP), dense, yellowish brown, wet, fine, trace clay. [COLMA SAND]												
-8.67	22														
	23				S9	19 35 47	82	100							
-10.67	24				S10		52	100							
	25														

(continued)

CALTRANS FORMAT DOYLEDRIVE ARUPLOGS 11-2-08.GPJ ARUP LIBRARY CALTRANS FORMAT GLB 11/3/08



Department of Transportation
Division of Engineering Services
Geotechnical Services

REPORT TITLE BORING RECORD				HOLE ID MPTSB-R2	
DIST. 4	COUNTY S.F.	ROUTE 101	POSTMILE 8.3/9.4	EA 163701	
PROJECT OR BRIDGE NAME Doyle Drive Replacement Project					
BRIDGE NUMBER 34-0163L		PREPARED BY T. Carroll		DATE 11-3-08	SHEET 1 of 3

Figure

CALTRANS FORMAT DOYLEDRIVE ARUPLUGS 11-2-08.GPJ ARUP LIBRARY CALTRANS FORMAT GLB 11/3/08

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 in	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
-12.67	25	[Dotted pattern]	24.5' - 24.7', grades to very dense, vertical stains of reddish brown oxidation. Poorly graded SAND (SP), dense, yellowish brown, wet, fine, trace clay. [COLMA SAND]	X	11 23 29										
-14.67	28	[Dotted pattern]	Grades to dark yellowish brown.	X	S11	30	50/	100							
						5.5"	5.5"	44							
-16.67	29	[Dotted pattern]	Grades dense; heavy horizontal oxidation stains throughout sample (photo available).	X	S12	18									
						16	28								
-18.67	32	[Dotted pattern]	Grades very dense.	X	S13	37	50/5"	100							
						50/5"									
-20.67	34	[Dotted pattern]		X	S14	20	59	100							
						25	34								
-24.67	38	[Dotted pattern]		X	S15	37	89/11"	71							
						39	50/5"								
-26.67	40	[Dotted pattern]		X	S16	15	68	100							
						33	35								
-28.67	42	[Diagonal lines]	CLAYEY SAND (SC), very dense, grayish brown, moist, fine.		U17			19							
-32.67	45	[Dotted pattern]	Poorly graded SAND (SP), very dense, dark yellowish brown, moist, fine, weak to moderate cementation.		U18			75							
-36.67	49	[Dotted pattern]	SILTY SAND (SM), very dense, dark yellowish brown, moist, SAND is fine, weak to moderate cementation with iron-oxide staining.		S19	12	71	100							
						32									
						39									
-38.67	52	[Dotted pattern]	Grades with weak cementation.	X	S20	13	78/	100							
						28	11.5"								
-40.67	53	[Dotted pattern]	53.4' - 53.5', heavily oxidized zone.	X	S21	5.5"	69	100							
										21.6	25.2	DS =			
										22.4	128.4	2.058			PA

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BRIDGE NUMBER 34-0163L		PREPARED BY T. Carroll		DATE 11-3-08	SHEET 2 of 3

Figure

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
55	55		SILTY SAND (SM), very dense, dark yellowish brown, moist, SAND is fine, weak to moderate cementation with iron-oxide staining.	X		25				23.2	128.3	DS = 3.114 DS = 3.582	[Symbol]		
-42.67	56	32													
	57	37													
-44.67	58			X	S22	20	73	100				[Symbol]			
	59		Borehole terminated at a depth of 59 feet on 12/3/2007.												
-46.67	60		See Boring Record Legend for soil classification chart and key to test data and sampler type.												
	61														
-48.67	62														
	63														
-50.67	64														
	65														
-52.67	66														
	67														
-54.67	68														
	69														
-56.67	70														
	71														
-58.67	72														
	73														
-60.67	74														
	75														
-62.67	76														
	77														
-64.67	78														
	79														
-66.67	80														
	81														
-68.67	82														
	83														
-70.67	84														
	85														



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Figure