

LOGGED BY S. McLandrich	BEGIN DATE 12-14-07	COMPLETION DATE 12-14-07	BOREHOLE LOCATION (Lat/Long or North/East and Datum) N2120705.245 / E5997286.355 (NAD83)	HOLE ID DOR-A1
DRILLING CONTRACTOR Gregg Drilling and Testing, Inc.		BOREHOLE LOCATION (Offset, Station, Line) Offset 91ft L Sta 52+65 SB Alignment		SURFACE ELEVATION 11.415 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")		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 5.2		TOTAL DEPTH OF BORING 39 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	0		SANDY SILT (ML), soft, dark brown, dry at surface, grades moist at 1.0', sand is fine, trace fine GRAVEL. [FILL]												
9.42	2		2.5' - 3.0', pieces of wood.		S1										
7.42	4		4.0', sweet odor detected, VOC possible.		S2	1 2 3	5	22							
5.42	5		SILT (ML), dark greenish gray, with roots and plant material, organic smell, with fat CLAY lenses. [BAY MUD]		U3		25 psi	91				PP = 0.75, 0.3			
3.42	8		Poorly graded SAND (SP), dark greenish gray, wet, fine, trace fines, with brown plant material, slight iron-oxide staining. [MARINE SAND]		U4		50 psi	81							
1.42	10						200 psi								
-0.59	12		Poorly graded SAND (SP), dense, olive brown, wet, fine to medium with trace fines, with horizontal seams of oxidation. [COLMA SAND]		S5	12 22 32	54	100							
-2.59	14		Grades with increase in oxidation.		S6	8 19 22	41	100							
-6.59	18		18.2' - 19.2', zone of SANDY lean CLAY seams.		S7	7 8 12	20	100							
-8.59	20		19.0' - 20.0', layers of very dark gray fat CLAY, soft (up to 1/2" thick).		S8	10 28 30	58	100							
	21		20.0' - 20.5', grades reddish brown, cemented.												
-10.59	22				S9	12 35 42	77	100							
-12.59	24		23.5', grades with trace fines, slightly cemented.												
	25		Poorly graded SAND with SILT (SP-SM), dense, yellowish brown, wet, very fine, with iron-oxide mottling		S10		43	100							PID= 1.5 ppm PID=1.5 ppm

(continued)

CALTRANS FORMAT DOYLEDRIIVE 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 DOR-A1	
DIST. 4	COUNTY S.F.	ROUTE 101	POSTMILE 8.3/9.4	EA 163701	
PROJECT OR BRIDGE NAME Doyle Drive Replacement Project					
BRIDGE NUMBER 34-168		PREPARED BY T. Carroll		DATE 11-3-08	SHEET 1 of 2

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
-14.59	25		Poorly graded SAND with SILT (SP-SM), dense, yellowish brown, wet, very fine, with iron-oxide mottling.	X		12									
	20														
	23														
-16.59	27		Poorly graded SAND (SP), very dense, yellowish brown, wet, fine, with iron-oxide mottling. 27.9' - 28.0', lean CLAY lense.	X	S11	17	50/6"	100							
	28					8	58	100							
	29					23									
	30					35									
-18.59	31		30.0', grades with SANDY CLAY lenses.	X	S13	28	50/6"	100							
	32					20	54	100							
	33					26									
	34					28									
	35														
-22.59	36		Grades without SANDY CLAY lenses.	X	S15	18	66	100							
	37					28									
	38					38									
-26.59	39	Borehole terminated at a depth of 39 feet on 12/14/2007.													
-28.59	40	See Boring Record Legend for soil classification chart and key to test data and sampler type.													
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