

LOGGED BY T. Carroll	BEGIN DATE 4-1-08	COMPLETION DATE 4-1-08	BOREHOLE LOCATION (Lat/Long or North/East and Datum) N2120461.975 / E5994829.468 (NAD83)	HOLE ID BTNB-R7A-PZ-S
DRILLING CONTRACTOR Gregg Drilling and Testing, Inc.		BOREHOLE LOCATION (Offset, Station, Line) Offset 190ft R Sta 78+13 NB Alignment		SURFACE ELEVATION 78.961 ft (NAVD88)
DRILLING METHOD Mud Rotary		DRILL RIG Fraste Multi-drill (track)		BOREHOLE DIAMETER 5 in.
SAMPLER TYPE(S) AND SIZE(S) (ID) MC (2.4"), SPT (1.4")		SPT HAMMER TYPE Automatic, 140 lbs., 30-inch drop		HAMMER EFFICIENCY, ERI 72.9%
BOREHOLE BACKFILL AND COMPLETION 2" standpipe Piezo from 28.5' to 43.5'		GROUNDWATER DURING DRILLING AFTER DRILLING (DATE) READINGS		TOTAL DEPTH OF BORING 45 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		Poorly graded SAND (SP), poorly compacted, dark yellowish to reddish brown, moist, fine, with fine roots in upper 3" (root mat). [FILL]												
76.96	2														
	3		Grades with occasional angular coarse GRAVEL and pocket of yellowish brown SANDY CLAY.		S1	6	25	94							
	4		Grades yellowish brown.			9									
74.96	4		Grades with occasional clumps of dark brown SANDY CLAY.		S2	4	7	94							
	5					3									
	6					4									
72.96	6														
	7														
	8		SILTY SAND (SM), poorly compacted, dark brown, wet, fine to very fine, SAND is fine.		S3	2	4	67							
70.96	8		SILT with SAND (ML), soft, dark brown, wet, with yellowish brown mottling, with crushable iron-oxide nodules. [BURIED SOIL HORIZON]			2									
	9		Lean CLAY (CL), soft, dark brown, moist, trace fine SAND.		S4	2	11	67		20.4					PI, LL
	10					4									
	11					7									
66.96	12		SILT with SAND (ML), medium stiff, yellowish brown, moist, SAND is fine, with vertical vein of black organic filling and black mottling. [COLMA FORMATION]		S5	8	32	83							
	13					13									
	14		Grades to SANDY SILT without organic vein.		S6	4	12	100							
	15					5									
	16					7									
62.96	16														
	17		SILTY SAND (SM), yellowish brown, moist, fine. [COLMA SAND]												
	18				S7	6	15	83		20.8	107.7	UU = 0.62			PA
60.96	18		SANDY lean CLAY (CL), medium stiff, yellowish brown, moist, SAND is fine, with veins of black CLAY. [COLMA FORMATION]			7									
	19				S8	3	7	83		23.6					PI, LL
	20					3									
	21					4									
56.96	22		Poorly graded SAND with SILT (SP-SM), dark yellowish brown to dark reddish brown, moist, fine to very fine.		S9	15	44	83		19.9	111.4				PA
	23					20									
	24		Grades dense, with iron-oxide staining.		S10	24	38	83							
54.96	24														
	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 BTNB-R7A-PZ-S	
DIST. 4	COUNTY S.F.	ROUTE 101	POSTMILE 8.3/9.4	EA 163701	
PROJECT OR BRIDGE NAME Doyle Drive Replacement Project					
BRIDGE NUMBER 34-0161R		PREPARED BY T. Carroll		DATE 11-3-08	SHEET 1 of 2

Figure

CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_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
52.96	25		Poorly graded SAND with SILT (SP-SM), dark yellowish brown to dark reddish brown, moist, fine to very fine.			18 18 20									
50.96	28		Grades yellowish brown, medium dense, fine, with iron-oxide mottling, with pockets of iron-oxide nodules (up to 1/2" diameter).		S11	13 19 22	41	83							
48.96	30				S12	9 10 13	23	89							
46.96	32		SILTY SAND (SM), dense, yellowish brown, moist, very fine to fine, with dark gray mottling.		S13	20 28 32	60	100		20.9	109.3				
44.96	34		Grades very dense, with iron-oxide mottling.		S14	16 23 29	52	89							
40.96	38		Grades without iron-oxide mottling, SAND grades fine to medium.		S15	28 32 50/5.5"	82/11.5	84							Indication of water flow in S15 at 37.5'
38.96	40		Poorly graded SAND with CLAY (SP-SC), dense, yellowish brown, moist, fine, with angular rock fragments up to 3/4" diameter.		S16	13 15 19	34	89							
36.96	42		METAMORPHIC ROCK (GREENSTONE), yellowish brown and green, decomposed, very soft, very intensely fractured (poorly graded SAND with SILT (SP-SM), moist). [BEDROCK]												Rig chatter at 41.5'
34.96	44				S17	24 33 31	64	89							
	45		Borehole terminated at a depth of 45 feet on 4/1/2008.												
	46		See Boring Record Legend for soil classification chart and key to test data and sampler type.												



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Figure