



SEE SITE PLAN

ALISTO PROJECT NO: 10-320-09 DATE DRILLED: 04/25-27/99
 CLIENT: Pacific Gas and Electric Co.
 LOCATION: Topock Compressor Station
 DRILLING METHOD: Roto Sonic, Continuous Coring
 DRILLING COMPANY: Boart Longyear CASING ELEVATION:
 LOGGED BY: Dan Hidalgo & Chris Reinheimer APPROVED BY: Dan Hidalgo

BORING DIAGRAM	DEPTH feet	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	
<p>4" Sch. 80 PVC Casing</p> <p>Cement/Bent Gravel</p>	0		GP	sandy GRAVEL: moderate yellowish-brown; ~60-70% gravel, subrounded, ~90 mm; ~30-40% sand.	
	10		SP	SAND: pale yellowish-brown; very fine- to fine-grained; ~5% gravel.	
	20		GP	sandy GRAVEL: light brownish-gray; cobbles at 21 to 24 feet. At 24 feet color change to moderate yellowish-brown; ~60-70% gravel, subrounded, ~90 mm.	
	30		SP	gravelly SAND: light gray; ~80% sand, very fine- to fine-grained; ~10% gravel, subrounded, ~50 mm. gravelly SAND continued.	
	40		SP	SAND: reddish-brown; very fine- to fine-grained; ~5% fines; damp.	
	50		GP	sandy GRAVEL: reddish-brown; ~55% gravel, subrounded, ~90 mm; ~45% sand.	
	60		SP	gravelly SAND: brown to reddish-brown; 70% sand, fine- to coarse-grained; gravel, subrounded to subangular, 4 to 10 mm; wet.	
				SC	gravelly clayey SAND: reddish-brown; 70% sand, fine- to coarse-grained; gravel, 4 to 8 mm; ~15% fines, plastic; wet.



BORING DIAGRAM	DEPTH feet	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
<p>4" Sch. 80 PVC Casing</p> <p>Cement/Bent Grout</p> <p>#3 Lonestar Sand Bentonite</p>			SC	gravelly clayey SAND continued.
	80		SP	SAND: reddish-brown; fine- to coarse-grained; minor gravel, fine-grained; wet.
			SC	gravelly clayey SAND: reddish-brown; 70% sand, fine- to coarse-grained; gravel, 4 to 8 mm; ~15% fines, plastic; wet.
			SP	SAND: reddish-brown; fine- to coarse-grained; minor gravel, fine-grained; wet.
			SC	No recovery.
			SP	gravelly clayey SAND: reddish-brown; 70% sand, fine- to coarse-grained; gravel, 4 to 8 mm; ~15% fines, plastic; wet.
	90		SC	gravelly SAND: reddish-brown; 85% sand, very fine- to coarse-grained; gravel, ~4 to 20 mm; wet.
			SC	gravelly clayey SAND: reddish-brown; 70% sand, fine- to coarse-grained; gravel, 4 to 8 mm; ~15% fines, plastic; wet.
			SP	gravelly SAND: reddish-brown; ~85% sand, very fine- to coarse-grained; gravel, ~4 to 20 mm; wet.
	100		ML	At 98 feet color change to moderate yellowish-brown; 80% sand, medium- to coarse-grained.
			ML	At 98 feet color change to brown; 85% sand, very fine- to coarse-grained.
			ML	gravelly sandy SILT: medium reddish-brown with less than 2% greenish-gray stain; ~80% fines, non-plastic; ~20% gravel to 2", coarse-grained; moist to wet.
			ML	gravelly sandy SILT continued.
	110		SP	silty SAND: medium reddish-brown; ~80% sand, medium- to coarse-grained; ~10% gravel; ~10% fines, non-plastic; wet.
			ML	At 114 feet change to ~30% gravel.
		ML	gravelly sandy SILT: medium reddish-brown with less than 2% greenish-gray stain; ~80% fines, non-plastic; ~20% gravel to 2", coarse-grained; moist to wet.	
120		SC	clayey SAND: medium-orange; 80% sand, medium- to coarse-grained; ~30% fines, medium plasticity; ~10% gravel to 2"; wet to saturated.	
		GM	silty GRAVEL: medium reddish-brown; ~70% gravel to 3"; ~30% fines, non-slight plasticity; moist.	
130			At 128.5 feet changes to ~80% gravel to 3"; ~15% fines, non plastic; angular clast to 2"; damp.	
			RED FANGLOMERATE cemented dry, drill refusal at 132 feet.	
			Total depth of borehole at 132 feet.	
	140			
	150			