

Brown and Caldwell

Carson City, Nevada

BORING LOG

Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds

Project Number: 136742

Soil Boring: Monitoring Well: Piezometer:

Boring/Well Name: OU4-FEP-12

Sheet 1 of 2

Boring Location: OU4 Finger Evaporation Ponds		Northing: 1553560.78	Easting: 322378.92
Drilling Contractor: WDC		Top of PVC Elevation: Ground Surface Elevation: 4370.38 feet amsl	
Drilling Equipment: Geoprobe		Date Started: 10-13-08	Date Finished: 10-13-08
Drilling Method: Direct-Push		Completed Depth: 55 ft bgs	Water Depth: 45 ft bgs
Sampling Method: Continuous Core		WELL CONSTRUCTION	
Driller: Rick Smedley		Type and Diameter of Well Casing: N/A	
Well Seal: N/A		Slot Size: N/A	Filter Material: Cement grout
Borehole Diameter: 2"			
Logged By: C. Haley		Drilling Fluid: N/A	

Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
5	4370	GW	GRAVEL with sand and silt (VLT CAP) (0 - 2) Capping material.						<p>Description of drilled cuttings based on ASTM Method D-2488 (the visual-manual procedure), grain-size determinations and nomenclature based on the Unified Soil Classification System.</p> <p>Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet.</p> <p>Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line.</p> <p>All depths are below land surface unless stated otherwise.</p> <p>Type 1 Samples are representative of geochemical and geotechnical soil samples as well as groundwater samples.</p> <p>Type 2 Samples are representative of meteoric water mobility soil samples.</p>
		ML	SILT (Pond Sediments) (2 - 10) Red, slight moisture, homogenous. (Calcine tails).						
	4365	SM	Silty Sand (Native Soil) (10 - 15) Sample: <u>OU4-FEP-12A-SC</u> from 11-15 feet.						
	4360	SM	Silty SAND with some gravel (15 - 24)						
20	4350	SW	SAND (24 - 25)						

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Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
30	4345	SM	Silty SAND with some gravel (25 - 30)						
	4340	SM	Silty SAND (30 - 35)						
	4335	SM	Silty SAND with some gravel (35 - 40)						
	4330	SM	<p>Silty SAND (40 - 55) Static water at 45 feet. Drilling becomes harder at 46 feet. Sediments moist (possibly saturated) at 48 feet.</p> <p>Sample: <u>OU4-FEP-12B-SC</u> from 41-45 feet.</p> <p>Sample: <u>OU4-FEP-12-GW</u> from 48-52 feet.</p>						
46	4325			OU4-FEP-12B-SC					
50	4320			OU4-FEP-12-GW					
55	4315		Bottom of Borehole at 55 feet below ground surface.						