

Date 11/2/04
 Driller Air Rotary
 Drilling Method ARCH
 Sampler Continuous Core
 Hammer Weight NA Drop NA
 Logged by Datum
 Surface Elevation 463.82 Hole Dia. 6.5 in.
 Northing 505264.528 Easting 1237307.728

Well Construction Details

Top of PVC Casing
 Elev. **465.87 ft.**

GROUND SURFACE

6.5" DIA. BOREHOLE: 0 to 51 ft.

2" DIA. SCHED. 40 PVC CASING: +2.0 to 30 ft.

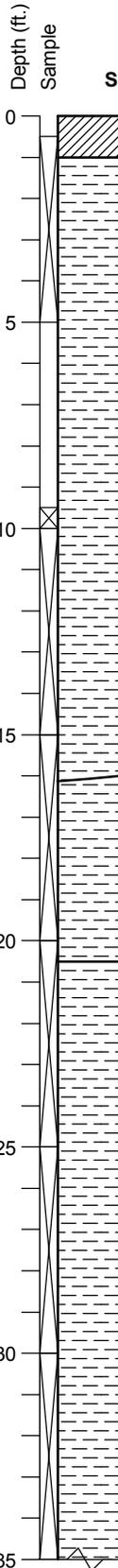
BENTONITE-CEMENT SEAL: 0 to 24 ft.

BENTONITE-PELLET SEAL: 24 to 27 ft.

Medium Aquarium SANDACK: 27 to 51 ft.

Recovery (inches)
 PID Reading (ppm)

0	0
54	
6	0
60	0
0	
54	
4	
60	
0	
60	
0	
60	



Brown Sandy Lean Clay (CL) (10YR 5/3) Very firm, moist, 70% clay, 20% sand, 10% fine mudstone gravel (Topsoil)

Light Olive Brown Weathered Mudstone (2.5Y 5/3) with variations in color to Light Yellowish Brown (2.5Y 6/3) and Light Orange Brown (2.5Y 5/4) Moderately consolidated, platy bedding, moderately strong, weak, intensely fractured, deeply weathered

@ 10.8 ft.: Gypsum in-filling of subhorizontal fractures from 10.8 to 13.4 ft.

Olive Brown Weathered/Unweathered Transition Zone Mudstone (2.5Y 4/3) Moderately consolidated, some platy bedding, closely fractured, low hardness, weak, deep to moderate weathering
 Video log shows fractures at 45° to vertical, iron oxide coated, more competent at 18 ft.

Dark Gray Unweathered Claystone (5Y 4/1) Moderately consolidated, massive, occasionally fractured, low to moderate hardness, weak to moderately strong, little to no weathering, yellowish oxides

@ 25.7 ft.: Small low angle fractures with no oxides from 25.7 to 26.5 ft.

@ 30 ft.: Video log shows very high angle fracture
 @ 31 ft.: Very solid, dry

BORING_WELL2_CASMALIA.RIFSGPJ_GEOLOG.DTD 12/13/10

Well Construction Details and Log of Boring RIPZ-06

Final Remedial Investigation Report
 Casmalia Resources Superfund Site
 Casmalia, California

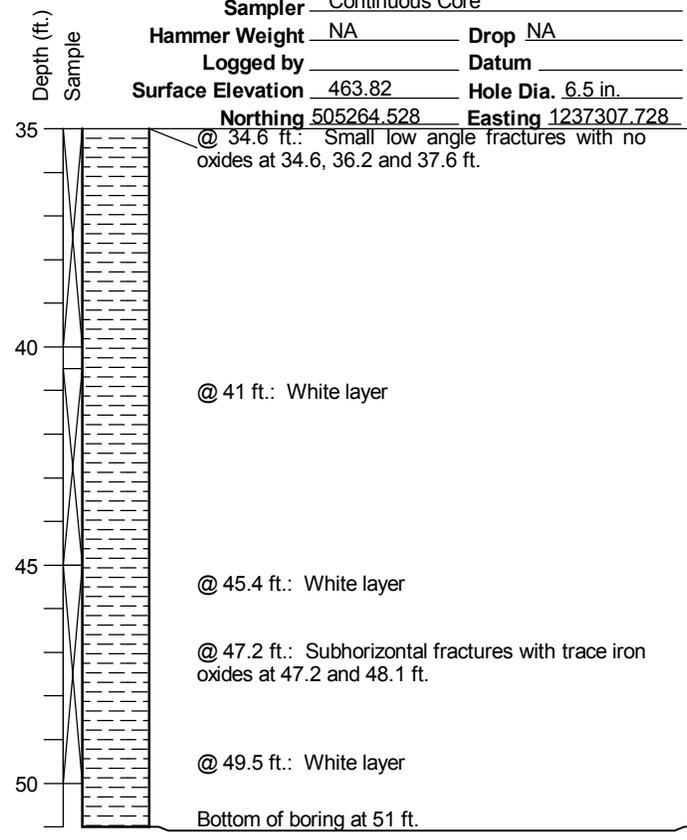
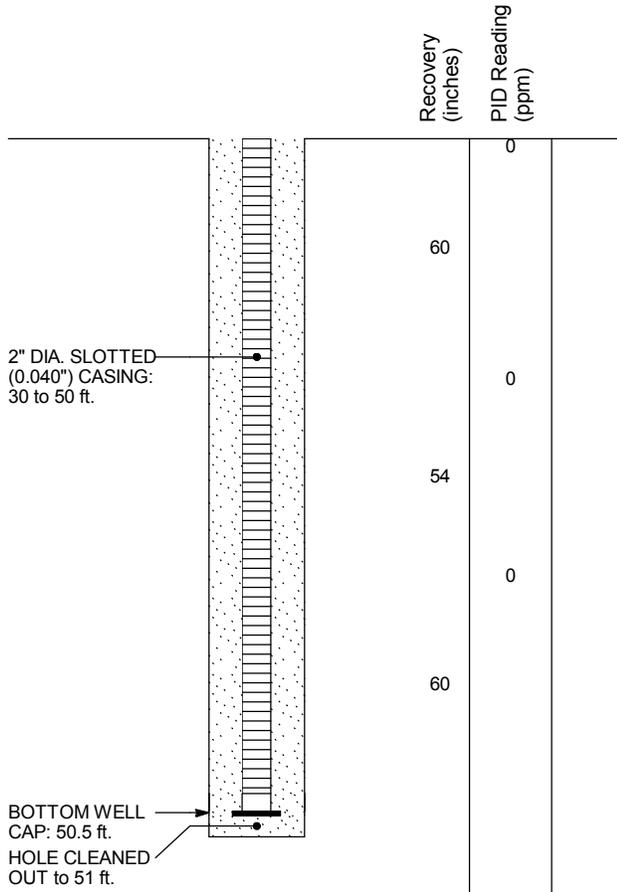
PLATE

E9-15

DRAWN	JOB NUMBER	CHECKED	CHK'D DATE	APPROVED	APPR'D DATE
CN	4088097619	WJF	1/11	WBC	1/11

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