

EXPLORATION LOG SA104-A2

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 2

EXPLORATION DATE: 8-20-2009

EXPLORATION SIZE (dia.): 3" CORE BARREL

EQUIPMENT: SDC550-24 SONIC CORE RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: SEARS/GAREY

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
		SW	SAND, dark brown (7.5YR 3/2), 95% fine to coarse sub-angular to sub-rounded sand, 5% volcanic gravel, dense, dry, no plasticity, calichified zones						
		SW	...color to reddish brown (5YR 4/4)						
		SW	Collect SA104-10B, SA104009-10B, PID readings: 10.6 eV = 0.4 ppmV, 11.7 eV = 0.6 ppmV SAND, reddish brown (5YR 5/3), 65% fine to medium sand, 30% coarse sand, 5% fine volcanic gravel, dense, dry, low plasticity, strong HCl reaction						
		SP	SAND, reddish brown (5YR 5/4), 90% fine to medium sand, 10% coarse sand, trace fine sub-angular gravel, dense, dry, low plasticity, strong HCl reaction						

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ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
20									
22.5		SP	...gravel to 1" diameter						
25									
27.5									
30		SP	...moderate calcite cementation with caliche nodules						
30	50/5	SP	Collect SA104-30B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 0.0 ppmV SAND, reddish brown (5YR 4/3), 85% fine to medium sand, 15% coarse sand, trace fine sub-angular volcanic gravel, dense, dry, low plasticity, moderate cemented zones, small calcite crystals visible, caliche nodules less than 0.5" diameter present, strong HCl reaction END OF BORING AT 31.5 FEET						
32.5									
35									

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