

EXPLORATION LOG SA110-A4

PROJECT: TRONOX PHASE B
EXPLORATION LOCATION: TRONOX AREA 4
EXPLORATION SIZE (dia.): 3" CORE BARREL
ELEVATION: EXISTING GROUND SURFACE

PROJECT NO.: 20092518V1
EXPLORATION DATE: 9-29-2009
EQUIPMENT: SDC550-24 SONIC CORE RIG
LOGGED BY: SEARS/GAREY

INITIAL DEPTH TO WATER: NOT ENCOUNTERED
FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: N/A
DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
0			FILL						
			FILL: SW, sand with gravel						
			PAVE						
			ASPHALT approximately 4" thick						
2.5	16 23 32		FILL						
			Collect SA110-0.5B, PID readings: 10.6 eV = 3.4 ppmV, 11.7 eV = 2.3 ppmV FILL: SW, sand with gravel, asphalt fragments present						
5			FILL						
			FILL: 3.5' to 9.5' below ground surface (BGS) concrete present						
7.5									
10	40 49 37		SW						
			SAND with gravel, reddish brown (5YR 4/ 4), 90% fine to coarse sand, 10% fine to medium gravel, very dense, dry, no plasticity, strong HCl reaction Collect SA110-10B, PID readings: 10.6 eV = 2.4 ppmV, 11.7 eV = 0.0 ppmV						
12.5			SW						
			...calichified zones present 12.5' to 23' BGS						
15									

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		SP	SAND, light reddish yellow (5YR 7/8), 100% very fine to fine sand, dense, dry, no plasticity, moderate gypsum cementation						
	10 15 18	SP	Collect SA110-25B, PID readings: 10.6 eV = 1.1 ppmV, 11.7 eV = 0.1 ppmV						
		SP	...trace silt						
		SP	...silt to 5%, very damp						

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		SP	SAND: yellowish red (5YR 5/8), 5% silt, 95% very fine to fine sand, loose, moist, medium plasticity, trace zones of gypsum and calcite cementation Collect SA110-37B, SA110-37BMS, SA110- 37BMSD, PID readings: 10.6 eV = 0.2 ppmV 11.7 eV = 0.0 ppmV END OF BORING AT 38.5 FEET						
		SP							

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