

EXPLORATION LOG SA213-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: 9-28-2009
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	■		PAVE ASPHALT approximately 4" thick						
0.8 0.9 0.6	■		FILL Collect SA213-0.5B, PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 0.0 ppmV FILL: SAND with gravel, SW, dark reddish brown (5YR 3/4), 90% fine to coarse sub-angular to sub-rounded sand, 10% fine to medium gravel, trace caliche fragments, loose, damp, low plasticity, strong HCl reaction						
2.5	■								
5	■								
7.5	■		SW ...color to reddish brown (5YR 4/4), medium dense, dry, caliche fragments no longer present						
10	■								
12.5	■		SW ...weak calcite cementation						
15	■		SW Collect SA213-14B, SA213-14BMS, SA213-14BMSD, PID readings: 10.6 eV = 0.5 ppmV, 11.7 eV = ERROR						

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		SW	Gravelly SAND, 85% fine to coarse sand, 15% fine to medium sub-angular to sub-rounded gravel, medium loose to dense, damp, no plasticity						
		SW	...rounded gravel up to 3" diameter						
		SW	SAND, 100% fine to medium sand, medium loose, damp, no plasticity, weak HCl reaction						
		SW	...heavy gypsum cementation, light grey (5YR 7/1), very dense, dry						
		SP	Collect SA213-30B, PID readings: 10.6 eV = 0.4 ppmV, 11.7 eV = 0.0 ppmV SAND, dark greyish brown (10YR 4/2), 100% well rounded medium sand, loose SAND, yellowish red (5YR 5/8), 100% very fine to fine sub-angular to sub-rounded sand						
		SP							
		SP							

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35		SP	...trace silt						
37.5									
40		SP	...5% silt, color to yellowish red (5YR 4/6)						
42.5									
45		SP	SAND, yellowish red (5YR 4/6), 2% silt, 98% very fine to fine sand, trace caliche nodules, no HCl reaction						
45		SP	Collect SA213-44B, PID readings: 10.6 eV = 0.5 ppmV, 11.7 eV = 0.0 ppmV						
			END OF BORING AT 45.5 FEET						
47.5									
50									

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