EXPLORATION LOG
RSAR3-A4

PROJECT: TRONOX PHASE B
PROJECT NO.: 20092518V1
EXPLORATION LOCATION: TRONOX AREA 4
EXPLORATION DATE: 10-1-2009
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
0		FILL	FILL: SAND, SW, dark reddish brown, caliche fragments						
	18 17 15	SW	Collect RSAR3-0.5B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV SAND, reddish brown (5YR 4/4), 95% fine to coarse sub-angular to sub-rounded sand, 5% fine sub-angular to sub-rounded volcanic gravel, trace caliche fragments, medium loose, dry, no plasticity, strong HCl reaction						
2.5									
5									
7.5									
10	14 11 10	SW	Collect RSAR3-10B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 2.1 ppmV ...weak calcite cement						
12.5		SW	SAND, reddish brown (5YR 5/4), 95% fine to coarse sand, 5% fine gravel, medium dense, dry to damp, no plasticity, strong HCl reaction						
15									

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GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No.

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RSAR3-A4

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17.5									
20									
22.5		SW	...frequent zones of calcite cementation						
25	16 21 31	SW	Collect RSAR3-25B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV						
27.5		SP	SAND, reddish yellow (7.5YR 6/6), trace silt, 99% very fine to fine sand, loose, moist, no plasticity, some cementation, no HCl reaction						
30									
32.5									

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DATE MEASURED: N/A
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ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
35	7 9 31	SP	Collect RSAR3-35B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 9.4 ppmV (possible error) SAND, strong brown (7.5YR 5/6), trace silt, 98% very fine to fine sub-angular to sub-rounded sand, trace gypsum crystals, loose to dense, moist, low plasticity, occasional weak gypsum cementation, weak HCl reaction						
37.5	11 12 13	SP	Collect RSAR3-38B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 9.7 ppmV (possible error)						
			END OF BORING AT 39.5 FEET						
40									
42.5									
45									
47.5									
50									

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Figure No.