

# EXPLORATION LOG SA102-A2

**PROJECT:** TRONOX PHASE B

**PROJECT NO.:** 20092518V1

**EXPLORATION LOCATION:** TRONOX AREA 2

**EXPLORATION DATE:** 9-10-2009

**EXPLORATION SIZE (dia.):** 3" CORE BARREL

**EQUIPMENT:** SDC550-24 SONIC CORE RIG

**ELEVATION:** EXISTING GROUND SURFACE

**LOGGED BY:** SEARS/BRINKERHOFF

**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
		SP-SM	Silty SAND, yellowish brown (10YR 5/4), 40% silt, 60% fine to medium sand, trace fine gravel, medium dense, dry, strong HCl reaction						
		SP-SM	...weakly cemented						
		SP-SM	...increase gravel content to 5%, mostly fine to medium, some coarse gravel up to 2" diameter						
		SP-SM	Collect SA102-10B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 0.0 ppmV						
		SP-SM	...weak to moderate cementation						
		SP-SM	...4" diameter cobble present						

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ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
20		SP	SAND with silt, yellowish brown (10YR 5/4), 20% silt, 70% fine to medium sand, 10% fine to medium sub-angular to sub-rounded gravel, medium dense, moist, strong HCl reaction						
22.5									
25		SP	...5" diameter sub-angular cobble present						
27.5		SP	...color to pale brown (10YR 6/3), moderate to strong cementation, white (10YR 8/1) caliche gravel present						
30		SP	Collect SA102-30B, PID readings: 10.6 eV = 2.0 ppmV, 11.7 eV = 1.6 ppmV SAND, yellowish brown (10YR 5/4), 10% lean clay, 75% fine to medium sand, 15% fine to medium gravel, medium dense, moist, low plasticity, strong HCl reaction						
32.5			<b>END OF BORING AT 31.5 FEET</b>						
35									

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