## EXPLORATION LOG SA121-A4

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	⊡	11	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
- - - 2.5 - - - - - - -	14 17 16	FILL	Collect SA121-0.5B, PID readings: 10.6 eV = 0.4 ppmV, 11.7 eV = 0.0 ppmV FILL: SAND with gravel, SW, brown (7.5YR 5/4), 90% fine to coarse sub-angular to sub-rounded sand, 10% fine to medium angular to sub-rounded volcanic gravel, medium loose, dry, no plasticity, strong HCI reaction						
- - - - - - -	-	SW	SAND with gravel, reddish brown (5YR 4/4), 90% fine to coarse sand, 10% fine to medium sub-angular to sub-rounded volcanic gravel, medium loose, damp, 1" thick interbedded caliche layers present						
- 10 - - - - 12.5 - -	24 12 13	SW	Collect SA121-10B, PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 0.9 ppmV						
- 15 -	-	SW	14.5' to 21' below ground surface (BGS) frequent calichified zones, strong HCI reaction						
17.5		SW	gravel up to 3" diameter						

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made.

It is not intended to be representative of subsurface conditions at other locations or times.

**GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.** 

Figure No.

## EXPLORATION LOG SA121-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: 9-25-2009
EQUIPMENT: SDC550-24 SONIC CORE RIG
LOGGED BY: SEARS/GAREY

INITIAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: N/A

FINAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: N/A

FINAL DEPTH TO W	—		COUNTERED DATE MEASURED	IN/	•				
	SAMPLE BOLS	USCS	DESCRIPTION	₫	1	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
- 20 - 20 - 22.5 - 25 - 27.5 - 30	36 50/5	SP	Collect SA121-25B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 0.0 ppmV SAND, reddish yellow (5YR 6/6), 100% very fine to fine sand, very dense, dry to damp trace silt, very low plasticity, color to yellowish red (5YR 5/8)						
— 32.5 - - -									

**GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.** 

Figure No.

## EXPLORATION LOG SA121-A4

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

PROJECT NO.: 20092518V1
EXPLORATION DATE: 9-25-2009
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

FINAL DEF	TH TO WATER:	INOT LIN	COUNTERED DATE MEASURED:	IN/	٦				
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	Ы	1	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
- 35 - - - - - 37.5 - - - - 40 - - - - 42.5		SP	SAND with silt, yellowish red (5YR 5/8), 5% silt, 95% very fine to fine sand, medium plasticity, no HCl reaction						
- 45 	13 25 26	SP	Collect SA121-44B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 0.0 ppmV SAND with silt, yellowish red (5YR 5/8), 5% silt, 95% very fine to fine sand, medium loose, damp  END OF BORING AT 45.5 FEET						

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**GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.** 

Figure No.