EXPLORATION LOG SA178-A3

PROJECT: TRONOX PHASE B **PROJECT NO.:** 20092518V1 **EXPLORATION LOCATION:** TRONOX AREA 3 **EXPLORATION DATE:** 10-14-2009 **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 CONSTRUCTION MOISTURE CONTENT (%) DRY DENSITY (pcf) Pocket Penetrometer (tsf) WELL **ELEVATION/** SOIL & SAMPLE \exists USCS **DESCRIPTION DEPTH** SYMBOLS PAVE ASPHALT approximately 3" thick 25 22 19 **FILL** Collect SA178-0.5B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.3 ppmVFILL: SAND, SW, reddish brown (5YR 4/3), SW 85% sand, 15% fine to medium gravel SAND, reddish brown (5YR 4/4), 95% fine to coarse sub-angular to sub-rounded sand, 5% fine to medium sub-angular to sub-rounded volcanic gravel, trace caliche fragments, medium loose, damp, no plasticity 7.5 SW ...calcite cementation, strong HCl reaction SW Collect SA178-10B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.0 ppmV12.5 SW ...calichified zone 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. Figure No.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

EXPLORATION LOG SA178-A3

PROJECT: TRONOX PHASE B PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 3 **EXPLORATION DATE:** 10-14-2009

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

FINAL DEPTH TO WATER:		NOT EN	COUNTERED DATE MEASURED	: <u>N/</u>	<u>N/A</u>					
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	۵	1	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL	
— 17.5 -	30 39 44	sw	Collect SA178-17B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.3 ppmV	:						
- - 20 - - - - 22.5 -		SW	no gravel, calcite concretions up to 3" diameter							
- 25 - - - - 27.5 - - - -	32 31 27	SW	Collect SA178-25B SAND with gravel, reddish brown (5YR 4/4), 90% fine to coarse sand, 10% fine to medium sub-angular to rounded gravel, medium dense, damp, no plasticity, strong HCI reactions,	n						
- - - - - 32.5		SW	sand sub-rounded to rounded							

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PROJECT: TRONOX PHASE B **PROJECT NO.:** 20092518V1 **EXPLORATION LOCATION: TRONOX AREA 3 EXPLORATION DATE**: 10-14-2009 **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 WELL CONSTRUCTION MOISTURE CONTENT (%) DRY DENSITY (pcf) Pocket Penetrometer (tsf) **ELEVATION/** SOIL & SAMPLE \exists USCS **DESCRIPTION DEPTH SYMBOLS** SP SAND, yellowish red (5YR 5/8), trace silt, 37.5 98% very fine to fine sand, trace calcite concretions, dense, dry, low plasticity, weak **HCI** reaction 42.5 17 19 15 SP Collect SA178-43B, PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 0.3 ppmV**END OF BORING AT 44.5 FEET** 47.5 50

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Figure No.