

# EXPLORATION LOG SA178-A3

**PROJECT:** TRONOX PHASE B  
**EXPLORATION LOCATION:** TRONOX AREA 3  
**EXPLORATION SIZE (dia.):** 3" CORE BARREL  
**ELEVATION:** EXISTING GROUND SURFACE

**PROJECT NO.:** 20092518V1  
**EXPLORATION DATE:** 10-14-2009  
**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	25 22 19	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 ppmV						
2.5		SW	FILL: SAND, SW, reddish brown (5YR 4/3), 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						
5									
7.5									
10	14 16 9	SW	...calcite cementation, strong HCl reaction						
12.5		SW	Collect SA178-10B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.0 ppmV						
15		SW	...calichified zone						

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	<p>30 39 44</p>	SW	Collect SA178-17B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.3 ppmV						
		SW	...no gravel, calcite concretions up to 3" diameter						
	<p>32 31 27</p>	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 HCl reactions,						
		SW	...sand sub-rounded to rounded						

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