

# EXPLORATION LOG SA34-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:** 10-26-2009  
**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			PAVE CONCRETE approximately 4" thick						
10 11 19		SW	Collect SA34-0.5B, 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 to medium gravel, loose to medium loose, dry, no plasticity, strong HCl reaction						
2.5									
5									
7.5									
10		SW	...gravel content to 10%						
25 22 29		SW	Collect SA34-10B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.0 ppmV						
12.5		SW	...dark reddish brown (5YR 3/4), moist						
15		SW	SAND with gravel, dark reddish brown (5YR 3/4), 90% fine to coarse sand, 10% fine to medium volcanic gravel, trace caliche fragments, dense, damp, no plasticity, strong HCl reaction						

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17.5									
20	32 26 26	SW	Collect SA34-20B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV						
22.5									
25									
		SW	...heavy gypsum cementation						
		SP	SAND, dark reddish brown (5YR 3/4), 100% very fine to fine sub-angular to sub-rounded sand, medium dense, dry, no plasticity, no HCl reaction						
27.5									
		SP	...cementation increasing, calcareous concretions up to 2" diameter present						
30									
		SP	Collect SA34-31B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.0 ppmV ...trace silt, low plasticity, weak HCl reaction						
32.5	13 17 17								

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<div style="display: flex; align-items: center;"> <div style="margin-left: 10px;"> <p>35</p> <p>37.5</p> <p>40</p> <p>42.5</p> <p>45</p> <p>47.5</p> <p>50</p> </div> </div>		SP	<p>Collect SA34-34B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.0 ppmV                      ...yellowish red (5YR 5/8), 5% silt, loose to medium loose, damp</p> <p style="text-align: center;"><b>END OF BORING AT 35.5 FEET</b></p>						

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