

EXPLORATION LOG SA187-A2

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 2

EXPLORATION DATE: 9-9-2009

EXPLORATION SIZE (dia.): 6.25" 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

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
		SW	SAND, reddish brown (5YR 6/4), 90% fine to coarse sub-angular to sub-rounded sand, 10% fine to coarse sub-angular to sub-rounded volcanic gravel, trace calichified zones, loose to medium dense, dry, no plasticity, moderate HCl reaction						
		SW	Collect SA187-10B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 5.2 ppmV ...gravel content to 5%						
		SP	...100% fine to medium sand, trace gravel						
		SW	SAND with gravel, dark reddish brown (5YR 3/3), 90% fine to coarse sand, 10% fine to coarse						

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<p style="font-size: small; margin-top: 10px;">The diagram shows a vertical soil profile from 19' to 35' depth. The top 19' is gravel with caliche. From 19' to 22.5', it's 100% fine to medium sand with trace gravel. From 22.5' to 25', it's reddish brown sand with volcanic gravel and caliche nodules. At 25', a sample is collected. From 25' to 30', it's pink sand with silt and cementation. From 30' to 35', it's very fine to fine sand with cementation.</p>			gravel, significant caliche zones to 19' below ground surface (BGS), medium dense, damp							
		SP	...100% fine to medium sand with trace gravel							
	20									
	22.5		SW	SAND with gravel, reddish brown (5YR 4/ 4), 90% fine to coarse sub-angular to sub-rounded sand, 10% fine to coarse volcanic gravel, trace caliche nodules, dense, damp, no plasticity, strong HCl reaction						
	25		SW	Collect SA187-25B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 3.3 ppmV						
27.5										
30		SP	SAND, pink (5YR 7/4), approximately 5% silt, 95% very fine to fine sand, dense, dry, low plasticity, weakly cemented zones (calcite and gypsum cement)							
32.5										
35										

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		SP	...color to reddish brown (5YR 4/4)						
		SP	Collect SA187-39B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV						
		END OF BORING AT 40.5 FEET							

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