

EXPLORATION LOG SA55-A1

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 1

EXPLORATION DATE: 7-14-2009

EXPLORATION SIZE (dia.): 3" CORE BARREL

EQUIPMENT: SDC550-24 SONIC CORE RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: SEARS/DAVIS

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
		FILL	FILL from site grading						
		SW-SM	SAND with silt, dark reddish brown (5YR 3/4), 5%-10% silt, 90%-95% fine to medium sand, dry, no plasticity						
		SW-SM	Collect SA55-10B, PID readings: 10.6 eV = 0.4 ppmV, 11.7 eV = 0.0 ppmV ...medium dense, dry						
		SW-SM	Silty SAND, reddish brown (5YR 4/4), 10%-15% silt, 85%-90% fine to medium sand, dry						
		SM	Silty SAND, reddish brown (5YR 4/3), trace clay, 20%-30% silt, 70%-80% fine sand, dry, low plasticity						

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20									
		SM	...21' to 22' below ground surface (BGS) caliche nodules up to 2" in diameter present, approximately 5%-8% of total content						
22.5		SM	... 22' to 24' BGS weak to moderate calcite cementation present, fine crystalline calcite disseminated throughout, approximately 15%-20% of total content						
25		ML	Collect SA%%-25B, SA55-25BMS, SA55-25BMSD, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 0.0 ppmV MUDDY CREEK FORMATION: SILT with sand, reddish brown (2.5YR 4/4), trace clay, 80%-90% silt, 10%-20% fine sand, very stiff, dry, low plasticity						
27.5									
30		ML	...moist						
32.5									
35		ML	Collect SA55-35B						

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			<p>END OF BORING AT 36.5 FEET</p>						

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