

EXPLORATION LOG SA71

PROJECT: TRONOX PHASE B
 EXPLORATION LOCATION: TRONOX AREA 1
 EXPLORATION SIZE (dia.): 3" CORE BARREL
 ELEVATION: EXISTING GROUND SURFACE

PROJECT NO.: 20092518V1
 EXPLORATION DATE: 7/23/2009
 EQUIPMENT: SDC550-24 SONIC CORE RIG
 LOGGED BY: SEARS/BRINKERHOFF

INITIAL DEPTH TO WATER: NOT ENCOUNTERED
 FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: NA
 DATE MEASURED: NA

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL CONSTRUCTION
		Fill	Yellowish brown (10YR 5/4) silty SAND with gravel. 55% sand (80% fs, 20% cs), 30% silt, 15% gravel (subangular-subrounded, volcanic), dry, strong reaction to HCl, black coating (Gley 1 2.5N) on surface.						
		SP-SM	Alluvium. Yellowish brown (10YR 5/4) silty SAND. 60% sand (80% fs, 20% cs), 40% silt, trace gravel, moist, strong reaction to HCl, dense. Collect sample SA71-10B. PID readings: 10.6 eV=1.6 ppmV, 11.7 eV=3.0 ppmV.						
		ML	Reddish brown (5YR 5/3) SILT with sand. 65% silt, 35% sand (85% fs, 15% cs), trace subangular gravel, moist, strong reaction with HCl, stiff.						
		GP-GM	Reddish brown (5YR 5/3) poorly graded GRAVEL with silt. 70% gravel, (90% fg, 10% mg, subangular-subrounded), 20% silt, 10% sand (100% fs), dry, strong reation with HCl, dense.						
		SP-SM	Yellowish brown (10YR 5/4), silty SAND. 60%						

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ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL CONSTRUCTION
17.5			sand (80% fs, 20% ms), 30% silt, 10% gravel (80% fg, 20% mg), moist, dense, strong reaction with HCl.						
20									
22.5									
25		SP	Brown (7.5YR 4/4), poorly graded SAND with silt. 80% sand, (75% fs, 15% ms, 10% cs), 15% silt, 15% gravel (100% fg), moist, strong reaction with HCl, medium dense. Collect sample SA71-25B. PID readings: 10.6 eV=0.8 ppmV, 11.7 eV=2.3 ppmV.						
27.5									
30		SP-SM	Yellowish brown (10YR 5/4), silty SAND. 65% sand (80% fs, 20% cs), 35% silt, trace gravel, moist, strong reaction with HCl, dense.						
32.5		SC	Muddy Creek Formation. Reddish brown (5YR 5/4) clayey SAND. 65% sand (85% fs, 15% ms), 35% lean clay, trace gravel, moist, laminated, weak reaction with HCl, medium dense.						

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