EXPLORATION LOG SA145

PROJECT: TRONOX PHASE B PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 1 EXPLORATION DATE: 7/23/2009

EXPLORATION SIZE (dia.): 3" CORE BARREL EQUIPMENT: SDC550-24 SONIC CORE RIG

ELEVATION: EXISTING GROUND SURFACE LOGGED BY: SEARS/BRINKERHOFF

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: NA

DATE MEASURED: NA

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ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	۵		MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL CONSTRUCTION
		Fill	Reddish brown (5YR 4/4) SILT with sand. 70% silt, 30% sand (90% fs, 10% ms), trace gravel. Dry, strong reaction with HCl, loose, black (5YR 2.5/1) coating at surface.	TOTAL					
- - - - - - - - - - - -		SP-SM	Yellowish red (5YR 4/6) silty SAND. 55% sand (70% fs, 20% ms, 10% cs), 45% silt, trace gravel, trace lean clay, moist, moderately cemented, strong reaction with HCl, low plasticity. Driller reports hard drilling. non plastic, weak to moderate cementation, very dense. Driller reports easier drilling.		THE PROPERTY OF THE PROPERTY O			Account of the second of the s	
- 10 - - - - - 12.5	31 40 50		Collect sample SA145-10B, SA145-10BMS, SA145-10BMSD. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV						
- - - 15 -		ML SP-SM	Reddish brown (5YR 4/4) SILT with sand. 70% silt, 25% sand (90% fs, 10% ms), 5% gravel (subangular-subrounded, 1005 fg), dry, strong reaction with HCI, stiff. Yellowish brown (10YR 5/4) silty SAND with	. THE PARTY AND	7734411				
-			gravel. 65% sand (75% fs, 15% ms, 10% cs),						

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It is not intended to be representative of subsurface conditions at other locations or times.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No.

EXPLORATION LOG SA145

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 1

EXPLORATION DATE: 7/23/2009

EXPLORATION SIZE (dia.): 3" CORE BARREL

EQUIPMENT: SDC550-24 SONIC CORE RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: SEARS/BRINKERHOFF

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: NA

FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: NA

BLEVATION DEFTH SYMBOLS USCS DESCRIPTION T I BANGER 20% silt, 15% gravel (subangular-subrounded, 80% fg, 20% mg), dry, dense, strong readion with HCI, weak to moderate cementation. SP Reddish brown (SYR 4/3) poorly graded SAND with gravel, 80% sand (80% fg, 20% mg), trace cs), 20% gravel (subangular-subrounded, 80% fg, 20% mg), moist, dense, strong reaction to HCI. Collect sample SA145-24B. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV. END OF BORING AT 25.5 FEET BANGER A 11 BANGER A 20% mg), moist, dense, strong reaction to HCI.			····	DATE MEAGURED.	11/4					
20% silt, 15% gravel (subangular-subrounded, 80% fg, 20% mg), dry, dense, strong reaction with HCl, weak to moderate cementation. SP Reddish brown (5YR 4/3) poorly graded SAND with gravel, 80% sand (80% fs, 20% ms, trace cs), 20% gravel (subangular-subrounded, 80% fg, 20% mg), moist, dense, strong reaction to HCl. Collect sample SA145-24B. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV. END OF BORING AT 25.5 FEET			uscs	DESCRIPTION	Pl		MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL CONSTRUCTION
with gravel. 80% sand (80% fs, 20% ms, trace os), 20% gravel (subangular-subrounded, 80% fg, 20% mg), moist, dense, strong reaction to HCl. Collect sample SA145-24B. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV. END OF BORING AT 25.5 FEET	- 17.5			80% fg, 20% mg), dry, dense, strong reaction with HCl, weak to moderate cementation.						
eV=0.0 ppmV, 11.7 eV=0.0 ppmV. END OF BORING AT 25.5 FEET - 27.5	 - - -		SP	with gravel. 80% sand (80% fs, 20% ms, trace cs), 20% gravel (subangular-subrounded, 80% fg, 20% mg), moist, dense, strong reaction to						
- 27.5 	- - - 25	40		eV=0.0 ppmV, 11.7 eV=0.0 ppmV.				·		
- 30	-			END OF BORING AT 25.5 FEET						
	- 27.5						THE SAME			
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- 32.5	- 30									
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- 32.5	-						, J	NAME OF THE PROPERTY OF THE PR		
	— 32.5 -								полични	
						Year				

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Figure No.