EXPLORATION LOG SA71

PROJECT: TRONOX PHASE B	PROJECT NO.: 20092518V1									
EXPLORATION LOCATION: TRONOX AREA 1	EXPLORATION DATE: 7/23/2009									
EXPLORATION SIZE (dia.): <u>3" CORE BARREL</u>	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									
	RE (%) SITY									

LEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	uscs	DESCRIPTION	đ		MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL
- - - - - - - - - - - - - - - - - - -		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 HCI, black coating (Gley 1 2.5N) on surface.						
- 5 - - - 7.5 -		SP-SM	Alluvium. Yellowish brown (10YR 5/4) silty SAND. 60% sand (80% fs, 20% cs), 40% silt, trace gravel, moist, strong reaction to HCI, dense.						
- 	34 27 34		Collect sample SA71-10B. PID readings: 10.6 eV=1.6 ppmV, 11.7 eV=3.0 ppmV.		,				
- 12.5 - -		ML	Reddish brown (5YR 5/3) SILT with sand. 65% silt, 35% sand (85% fs, 15% cs), trace subangular gravel, moist, strong reaction with HCI, stiff.						
- 15 		GP-GM SP-SM	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 HCI, dense. Yellowish brown (10YR 5/4), silty SAND. 60%						

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No.

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

		Т						
LEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	uscs	DESCRIPTION	đ	 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 HCI.					
- 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.			•		
- 30		SP-SM	Yellowish brown (10YR 5/4), silty SAND. 65% sand (80% fs, 20% cs), 35% silt, trace gravel, moist, strong reaction with HCI, 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.					

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No.

EXPLORATION LOG SA71

PROJECT: TRONOX PHAS	
EXPLORATION LOCATION:	TRONOX AREA 1
EXPLORATION SIZE (dia.):	3" CORE BARREL
ELEVATION: EXISTING GR	OUND SURFACE
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INITIAL DEPTH TO WATER: NOT ENCOUNTERED FINAL DEPTH TO WATER: NOT ENCOUNTERED

PROJECT NO.: 20092518V1

EXPLORATIO	N DATE: <u>7/23/2009</u>
EQUIPMENT:	SDC550-24 SONIC CORE RIG
LOGGED BY:	SEARS/BRINKERHOFF

DATE MEASURED: NA DATE MEASURED: NA

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ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	Id		MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL CONSTRUCTION
- 35									
-	13 22 25		Collect sample SA71-36B. PID readings: 10.6 eV=5.3 ppmV, 11.7 eV=3.1 ppmV.						
- 37.5	<u></u>		END OF BORING AT 37.5 FEET						
-									
- 40									
-									
42.5									
-									
-									
- 45				,					
*									
-									
- 47.5							*****		
					-				
- 50									
•	The descriptions contained the descriptions contained the lit i	within this e	xploration log apply only at the specific exploration location and at the ti ed to be representative of subsurface conditions at other locations or tir	me th mes.	e explo	ration was	made.	[	·]

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Figure No.