EXPLORATION LOG SA169-A4

PROJECT	TRONOX PHASE	B		PROJECT NO · 200	1925	18\/1						
EXPLORATION LOCATION: TRONOX AREA 4				PROJECT NO.: <u>20092518V1</u> EXPLORATION DATE: 10-2-2009								
EXPLORATION SIZE (dia.): 3" CORE BARREL				EQUIPMENT: SDC550-24 SONIC CORE RIG								
ELEVATIO	EXISTING GRO	LOGGED BY: THOMPSON/GAREY										
INITIAL DEPTH TO WATER: NOT ENCOUNTERED FINAL DEPTH TO WATER: NOT ENCOUNTERED				DATE MEASURED: N/A								
	III IO WATER.		DOUNTERED	DATE MEASURED.								
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	DESCRIP	TION	₫	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION			
- - - 2.5 - - - - 5	24 22 19	FILL	Collect SA169-0.5B, PIE 3.4 ppmV, 11.7 eV = 0.2 FILL: Gravelly SAND, bro fine to coarse sand, 20% angular to rounded grave no plasticity, strong HCI dust suppressant on sur	2 ppmV own (10YR 4/3), 80% 6 fine to medium sub- el, medium dense, dry, reaction, spray on								
- - - - - 7.5		FILL	FILL: concrete and asph below ground surface (B	GS)								
-		FILL	FILL: continuation of FILI concrete and asphalt de	bris								
10		SW	SAND, reddish brown (5 coarse sub-angular to su fine to medium gravel, lo plasticity, strong HCI rea	b-rounded sand, 5% ose to dense, dry, no								
- - - - - - - - - -		SW	Collect SA169-10B, PID 3.1 ppmV, 11.7 eV = 0.2	readings: 10.6 eV =								
- - - - 15 - -		SW	cementation increasin	g								
- _ 17.5 _ T			xploration log apply only at the speci ed to be representative of subsurfac				exploratio	n was mac	de.			

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No.

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EXPLORAT EXPLORAT	TRONOX PHASE TON LOCATION: TION SIZE (dia.): N: EXISTING GRO									
INITIAL DE	PTH TO WATER: TH TO WATER:	DATE MEASURED: DATE MEASURED:	N/. N/.	A						
ELEVATION/ SOIL & SAMPLE DEPTH SYMBOLS		USCS	DESCRIP	TION	ā	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
- - - - 20 -	-	SW	gravel content increasi	ng to 10%						
- - 22.5 - - -	-	SW	gypsum crystals prese	ent						
- 25 - - - - - - 27.5 - -	22 50/5	SW	Collect SA169-25B, PID 0.2 ppmV, 11.7 eV = 4.8 SAND with gravel, reddis 90% fine to coarse sub-a rounded sand, 10% fine to 2" diameter, dense, d zones, strong HCI reacti	3 ppmV sh brown (5YR 5/ 4), angular to sub- to medium gravel up ry, weakly cemented						
- - 30 - - -		SW	gravel content to 5%							
- 32.5 - - - - - -	he descriptions contained	SW within this e	color to light reddish b xploration log apply only at the speci ed to be representative of subsurfac	· · ·	the tin	ne the e	exploration	n was mad	e.	
			ECHNICAL & ENVIRONM			es.	Fi	gure No	D .	

EXPLORATION LOG SA169-A4

	TRONOX PHASE	PROJECT NO.: 20092518V1 EXPLORATION DATE: 10-2-2009										
	ION SIZE (dia.):	EQUIPMENT: SDC550-24 SONIC CORE RIG										
ELEVATION: EXISTING GROUND SURFACE LOGGED BY: THOMPSON/GAREY												
	PTH TO WATER:		DATE MEASURED: N/A									
FINAL DEP	TH TO WATER:	NOT ENC		DATE MEASURED:		N/A						
LEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIP	TION	₫	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION		
- 35 - - - - 37.5 - - - - - - - - - - - - - - - - - - -		SP	SAND, strong brown (7.1 100% very fine to fine sa damp to moist, low to m zones of heavy cementa reaction in cemented are	and, medium loose, ledium plasticity, ltion, strong HCI eas								
- - 42.5 -	19 41 50/4	SP	Collect SA169-42B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 5.1 ppmV									
F		1	END OF BORING	AT 43.5 FEET								
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- 47.5												
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- 50												
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т	he descriptions contained	within this ex	xploration log apply only at the speci ed to be representative of subsurfac	fic exploration location and at	the tin	ne the o	exploratio	n was mac	le.			

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