District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Risk defined extent of plume

Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Meridian Oil, Inc. 30-039-09	SYS Telephone:	01112137475
Address:	▶ ' F	DEC 2002
Facility Or: Lindrith Unit #41, Meter 7304 Well Name	OIL.	COMS. DIV.
Location: Unit or Qtr/Qtr Sec_K_Sec_	15 T 24 R 3 County	Rio Artiba
Pit Type: Separator Dehydrator	Other <u>Drip</u>	
Land Type: BLM, State, I	Fee X Other	
Pit Location: Pit dimensions: length 17'	, width <u>16'</u> , depth <u>3'</u>	
(Attach diagram) Reference: wellhead X	, other	
Footage from reference:	75'	
Direction from reference:3	305 Degrees X East North	<u> </u>
	Of West	South
Depth To Ground Water (Vertical distance from	Less than 50 feet 50 feet to 99 feet	(20 points)
contaminants to seasonal	Greater than 100 feet	(10 points) (0 points) <u>10</u>
high water elevation of	333333	(o points) <u>ro</u>
ground water.)		
Wellhead Protection Area:		Yes (20 points)
(Less than 200 feet from a private		No (0 points) <u>0</u>
domestic water source, or; less than 1000 feet from all other water sources.)		
1000 leet from an other water sources.)	•	
Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet	(10 points)
•		· - /

Remediation Method: Excavation Approx. cubic yards
A
(Check all appropriate sections.) Landfarmed Insitu Bioremediation
Other Backfill Pit without Excavation
Remediation Location: Onsite N/A Offsite N/A (i.e. landfarmed onsite, name and location of offsite facility)
General Description of Remedial Action: 10 yds. Fill
Ground Water Encountered: No X Yes Depth
Final Pit: Sample location <u>Four walls and center of pit composite</u> Closure Sampling: (if multiple samples,
attach sample results and diagram of sample Sample depth 12'
locations and depths) Sample Date 10/04/94 Sample time 12:15
Sample Results
Benzene(ppm) Not reported
Total BTEX(ppm) Not reported
Field headspace(ppm) _261
TPH <u>17800</u>
Ground Water Sample: Yes No X (If yes, attach sample results)
I hereby certify that the information above is true and complete to the best of my knowledge and belief.
Date 1/8/03 Printed Name Scott T. Pope and Title Senior Env. Scientist



Lindrith Unit #41 Meter/Line ID 73049

SITE DETAILS

Legals - Twn: 24N

NMOCD Hazard Ranking: 10 Operator: Meridian Oil Inc.

Rng: 3W

Sec: 15

Unit: K

Land Type: Fee

Pit Closure Date: 10/04/94



RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A test pit was excavated to 12 feet (ft) below ground surface (bgs) where a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 261 ppm; laboratory analysis indicated a TPH concentration of 17,800 mg/kg. The field headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 10.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms as well as 10 cubic yards of imported clean fill, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to refusal at 45.5 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 45-45.5 ft bgs. Headspace analysis indicated an organic vapor content of 2 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of <20 mg/kg. The benzene, TPH and BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

El Paso Field Services requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for over eight years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms in combination with the imported clean fill placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring at 45 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.



PIT CLOSURE REQUEST

- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 45 ft bgs were non-detect.
- Residual hydrocarbons in the soil will likely degrade by natural attenuation with minimal risk to the environment.

ATTACHMENTS

Field Pit Assessment Form Revised Field Pit Assessment Form Field Pit Remediation/Closure Form Phase II Soil Boring Log Laboratory Analytical Results

REVISEDFIELD PIT SITE ASSESSMENT FORM

GENERA	Meter: 73049 Location: Lindrith Operator #: Operator Name: Coordinates: Letter: K Section 15 Or Latitude Longit Pit Type: Dehydrator Location Drip Site Assessment Date: 4/8/98	P/L District: Township: 24 Range: 3 ude Line Drip: Other:
	NMOCD Zone: (From NMOCD Maps) Inside Outside	Land Type: BLM □ (1) State □ (2) □ (1) Fee ⋈ (3) ⋈ (2) Indian
	Depth to Groundwater Less Than 50 Feet (20 points)	☐ (1) ☐ (2) ☐ (3)
SME	Wellhead Protection Area Is it less than 1000 ft from wells, springs or extraction?, or; Is it less than 200 ft from a process of the second	
SITE ASSESSME	(1) YES Horizontal Distance to Surface Water Bod Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points) Greater Than 1000 Ft (0 points) Name of Surface Water Body	(20 points)
	(Surface Water Body: Perennial Rivers, Stream Ditches, Lakes, Ponds)	
	Distance to Nearest Ephemeral Stream TOTAL HAZARD RANKING SCORE:	
REKKS	Remarks: Site has been re-assessed, due as a Surface Water Body. No well sho	to initial assessment including washes which tech contect vertical from contect

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 73049 Location: Lindrith Unit #4/ Operator #: 2999 Operator Name: MDI P/L District: DTITO Coordinates: Letter: K Section 15 Township: 24 Range: 3 Or Latitude Longitude
	Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 8/2/44 Area: Run: 83
	NMOCD Zone: (From NMOCD Maps) Inside (1) State (2) Fee (3) Outside Depth to Groundwater
	Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2) Greater Than 100 Ft (0 points) (3)
ASSESSMENT	Wellhead Protection Area: Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; Is it less than 200 ft from a private domestic water source? (1) YES (20 points) (2) NO (0 points)
SITE ASS	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body
·	(Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) (2) > 100'
	TOTAL HAZARD RANKING SCORE: POINTS
REMARE	Remarks: Redline Book - Outside Vulnerable Zone Tope - Outside
EE.	PI)(H-TN

FIELD PIT REMEDIATION/CLOSURE FORM

CENEBAL	Meter: 73049 Location: Lindrith Vait #4/ Coordinates: Letter: K Section 15 Township: 24 Range: 3 Or Latitude Longitude Date Started: 10-4-94 Run: 08 83
FIELD OBSERVATIONS	Sample Number(s): \(\frac{\sqrt{371}}{\sqrt{371}} \) Sample Depth: \(\frac{12^{\sqrt{12}}}{\sqrt{12}} \) Feet Final PID Reading Depth \(\frac{12^{\sqrt{12}}}{\sqrt{12}} \) Feet Yes No Groundwater Encountered \(\sqrt{12} \) Approximate Depth \(\frac{12^{\sqrt{12}}}{\sqrt{12}} \) Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks:
	Signature of Specialist: Wallburg (SP3191) 03/16/84



CHAIN OF CUSTODY RECORD

PROJECT NUMBER	UMBER	PROJECT NAME	AME			-	"	SECURETED ANALYSIS	NAI VOIS		CONTRACT LABORATORY P. O. NUMBER
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CANTIER CO	ợ.										P. O. BOX 4990 FARMINGTON NEW MEXICO 87499
BRLL NO:				CHARGE CODE					20	505-599-2144	-

WANTE - Testing Ledonatory Canary - EPING Lab Pink - Field Symples

FIM-08-0565A (Rev. 03-94)



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

·	Field ID	Lab ID
SAMPLE NUMBER:	VW 371	946325
MTR CODE SITE NAME:	73049	N/A
SAMPLE DATE TIME (Hrs):	10-4-94	1215
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	10-6-94	
ATE OF BTEX EXT. ANAL.:	بهرا د	MIN
TYPE DESCRIPTION:	V6	Porown Sand & Chan
· · · · · · · · · · · · · · · · · · ·		<u> </u>

REMARKS:	R	E١	VI.	٩F	łK	S:	
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RESULTS

PARAMETER	RESULT	UNITS		QUALIFII		
TPH (418.1)	17800	MG/KG	DF	Q He	0.47	V(ml) 28
HEADSPACE PID	261_	PPM				
PERCENT SOLIDS	88.7	%				

-- TPH is by EPA Method 418.1 --

Narrative:	•			
DE = Dilution Factor Used		· · · · · · · · · · · · · · · · · · ·		

ノト	=	טווט	tion	ractor	USEQ

Approved By:	78	Date:	10-13-94
,			

Place I Drilling

El Les Company

CHAIN OF CUSINOY RECORD

8.20.98 Axel.



# 24324 F	PROJECT NAME PIT CLOSIITA Project	ilro F	roject		R:			REQUESTED ANALYSIS	TED AN	LYSIS		CONTRACT LABORATORY P. O. NUMBER
atrue)			23/21	DATE	MBE		\vdash	\perp	L		3:	
3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	}		7/14/98	ATNO:	GMAS GYT				di.		
UBID (DATE 1	TIME	MATRIX	FIELD ID	TOT 0 40		TT A93	T8 A93 8AJ		1585 100 1580 1500	SEQU	REMARKS
1.0227 2618941 GESSE	1/26/4/	255	Soil	CMCHOH	_	9/		<u> </u>	<u> </u>	٦,		Linkinh Unit #41 73049 45-45.5
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REQUESTED TURNAROUND TIME: CAPAIGE CO.	ND TIME:			SAMPLE RECEIPT REMARKS CO OL W IN	REMARKS F L	MACT	CY	04	40 °F	RESU	LTS & IN	RESULTS & INVOICES TO: FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY
BILL NO.:				CHARGE CODE						305.	505-599-2144	F. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC404	980530
MTR CODE SITE NAME:	73049	Lindrith Unit #41
SAMPLE DATE TIME (Hrs):	7/14/98	1255
PROJECT:	Phase II	Drilling
DATE OF TPH EXT. ANAL.:	7/24/98	36000.00
DATE OF BTEX EXT. ANAL.:	7/22/98	7/27/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 45-45.5'

RESULTS

PARAMETER	RESULT	UNITS		QUAUFI	i S.	
			DF	(ê)	Migh	V(mi)
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG				
TOTAL BTEX	<3	MG/KG		·		
TPH (MOD.8015)	<20	MG/KG				
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	92.2	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at	94.8	% for this sample	All QA/QC was acceptable.
Namive:		_	

OF = Dilution Factor (Jsed
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Approved By: Starfalling

Date: 8/11/98

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

Monroe Road ington, New Mexico 87401 (505) 326-2262 FAX (505) 326-2388

Borehole #	вн- /
Well#	NA
Page 1	of

Project Number	19643	Phase	1001.77
Project Name	EPFS PITS	>10	

Project Location Froject Location Project Location Project Location Project Location Project Location Project Name EPFS PITS > 10

Elevation

Borehole Location LTR: K S: 15 T: 24 R:3

GWL Depth
Drilled By
Well Logged By
Date Started
Date Completed

K. PADILLA
C. CHANCE
7/11/98

Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		Monitor Inits: PF BH	-	Drilling Conditions & Blow Counts
0						, con				BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
 _ _ _ _ 10			:	Excarntion Sample (BID) BGS						1
15	ı	15-17	20	OK Grysilty CLAY, med st: FF, mod plastic, dry			٥	8	88 767	-1125h,
20 		4 049		OK gry silty CLAY, StiFF, lowplastic, dry			٥	2	169 1584	-11374
25 25	- 1			Box OK gry silty CLAY, stiff Low plastic, dry			٥	У	377	-1150 hr
30	4	.χ-οc	8	L+ Br/L+ 5rg silty CLAY, stiff nonplastic, dry	·4-		٦.	75	(4(-eing harder -1204 ha
35	5	r -36		Redish Br/G-7 silty CLAY, V. ST nonplastic, day	77		٥	Ja	29 188	-13/8 L-
40	6	404as	- Ь	Gry Weathered SANDSTONE, mod concerted hard			٥	1	239	- 1236K~ 50B(~4"

Comments:

Excavation cample collected Q 12'. CM (404 (45-455') sent to late for BTEX. TOH. No GW encountered. Refusi Q 45'. Off growted to

Geologist Signature

Con Charu

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

, 00	0 Monroe Road	
	ington, New Mexic	o 8 7401
A. S.	5) 326-2262 FAX (5	05) 326-238

Borehole # BH- / Well # of 2

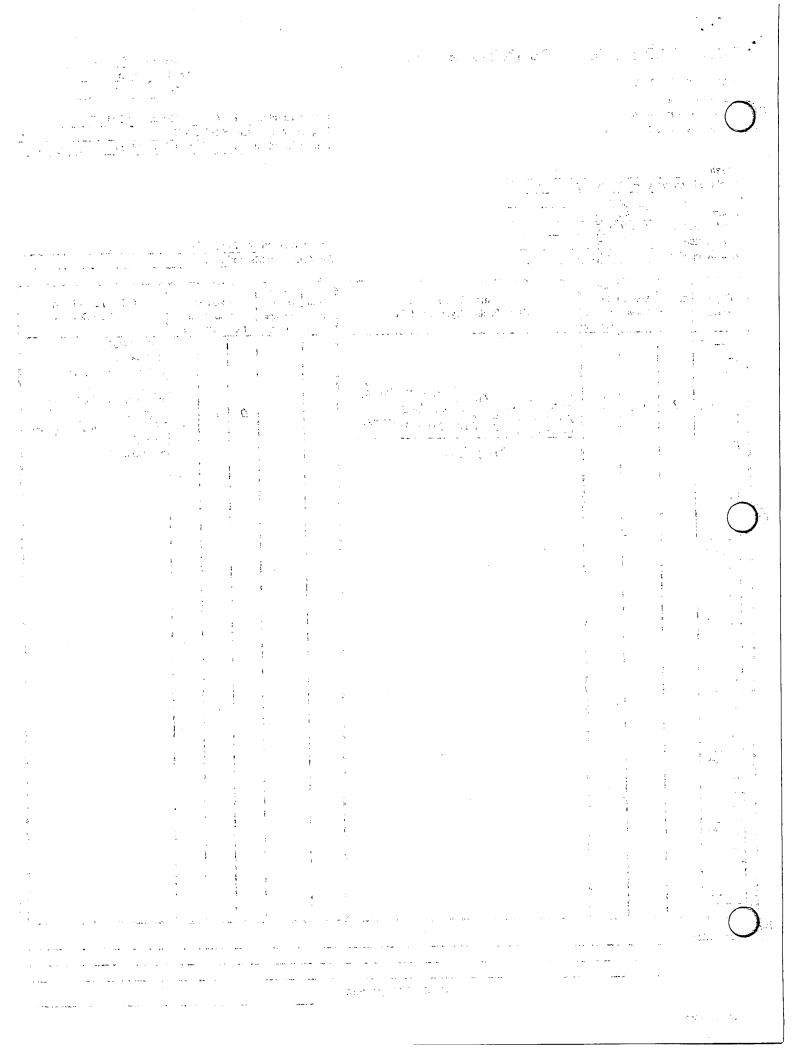
Project Number	19643	Phase	1001.7	7
Project Name				
Project Location	Lindrith	Dairs	44/	73049

Elevation	
Borehole Location	LTR: K S: 15 T: 24 R;3
GWL Depth	NA
Drilled By	K. PADILLA
Well Logged By	C. CHANCE
Date Started	7/14/98
Date Completed	7/14/98

Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	1	ir Monit Jnits: F BH	PPM	
	7	43- 4 5	Ь	Grysilty SAND, UF-FSand, Vdense, dry Interbolded Vdense, dry Interbolded Ny mod comented SANDSTONE TDB45.5		·	o	Lţ	37.3	BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace V. hard dr(nq -Refusal w/augers - (255 hr

Geologist Signature



GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

AEN I.D.: 807368

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

FINOSEC	I IAVIAIT						
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980530	-	NON-AQ	7/14/98	7/24/98	7/24/98	1
02	980531		NON-AQ	7/14/98	7/24/98	7/24/98	1
PARAMETER		DET. LIMIT	UN	IITS	01	02	
FUEL HY	DROCARBONS, C6-C10	10	MG	S/KG	< 10	< 10	
FUEL HY	DROCARBONS, C10-C22	5.0	MG	s/KG	< 5.0	< 5.0	•
FUEL HY	DROCARBONS, C22-C36	5.0	MG	s/KG	< 5.0	< 5.0	•
CALCULA	ATED SUM:	•			•		•
	ATE:						
	IENIVI /0/.\				98	88	

O-TERPHENYL (%)

SURROGATE LIMITS

(66 - 151)

CHEMIST NOTES:

N/A

Amerid Environmental Network (NM), In

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Target Analyte List Metals (23)	
Priority Pollutant Metals (13)	
	+ 1
General Chemistry:	+-1
Polynuclear Aromatics (610/8310)	+-1
	╂┦╿
Base/Neutal/Acid Compounds GC/MS (625/8270)	-
Herbicides (615/8151)	4-41
Pesticides /PCB (608/8081)	44)
8260 (Landfill) Volatile Organics	41
8260 (CUST) Volatile Organics	<u> </u>
8260 (Full) Volatile Organics	
8260 (TCL) Volatile Organics	
204.1 EDB□/DBCP□	\Box
80S1 (CN2L)	\Box
80S1 (HALO)	\Box
80S1 (EDX)	†
8021 (TCL)	
8021 (BTEX) MTBE TMB PCE	† †
80S1 (BTEX)/8015 (Gasoline)	
dest & series & Trap	┼╢
(MOD.8015) Diesel/Direct Inject	+
Petroleum Hydrocarbons (418.1) TRPH (MACO 8016) Discol/Discol	H
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				Telefological parameter	Signature:		Printed Name: Date:	Company:	REEGENTEORS (INABIA)	The state of the s			DISTRIBUTION: White - AEN, Canary
				A STATE OF THE STA	Signature: 0 Time:	11/all May 1250	MACIAD Honey /25/46	Company:	ું કુલામાં કું કું કું છે. જે	Signature: Time:	Printed Name: Date:	Company:	344-3777 • Fax (505) 344-4413
				e and the contract of the cont	(RUSH) [124hr [148hr [172hr []1 WEEK (NORMAL)	ED: CINM (I)SDWA CIOTHER	□ No	COMMENTS: FIXED FEE				instande Blue Ice~8°Ci.H°C	k (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413
- ATI	113	74	WC	CONTRACTOR OF THE PROPERTY OF	PROJ. NO.:	PROJ. NAME: Phase IL Orilling CENTIFICATION REQUIRE		SHIPPED VIA: Fed EX	SAMPLE RECEIPT		M RECEIVED HATKOT AND THE VIEW OF THE VIEW	Action to the second se	1/5/98 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan

BTEX SOIL SAMPLE WORKSHEET

File		:	980530	Date Printed :	7/29/98	
Soil Mass	(g)	:	5.09	Multiplier (L/g) :	0.00098	
Extraction vol.	(mL)	:	10	CAL FACTOR (Analytical):	200	
Shot Volume	(uL)	. :	50	CAL FACTOR (Report):	0.19646	
			•	DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	: <0	.5	Benzene (mg/Kg):	#VALUE!	0.491
Talana A			_			0.404

Toluene (ug/L): <0.5

Ethylbenzene (ug/L): <0.5

p & m-xylene (ug/L): <0.5

o-xylene (ug/L): <0.5

Toluene (mg/Kg): #VALUE! 0.491

p & m-xylene (mg/Kg): #VALUE! 0.491

p & m-xylene (mg/Kg): #VALUE! 0.982

o-xylene (ug/L): <0.5

Total xylenes (mg/Kg): #VALUE! 0.491

Total xylenes (mg/Kg): #VALUE! 1.473

Total BTEX (mg/Kg): #VALUE!