State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

^{\$} JUN 22 2009

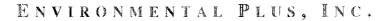
Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

1220 S. St. Fran	icis Dr., Santa	a Fe, NM 87503	5	S	anta F	Fe, NM 875	505				side of form	
30-0	15-0:	2672	Rele	ease Notifi	catio	on and Co	orrective A	ction		** **		
U						OPERA '	ГOR	🗌 Ini	tial Report	\boxtimes	Final Report	
Name of Co	ompany: S	Sandlot Ener	gy			Contact: Ja	ckie Brewer				· <u> </u>	
	Address: PO Box 711; Lovington, NM 88260						No. 575-631-4	592				
Facility Nat	Facility Name THOMAS STATE #1						e ACTIVE PR	ODUCTION W	ELLHEAD	/TAN	K	
Surface Ow	ner NMS	10		Mineral (Owner			Lease	No. 30-015	5-0267		
Junice on		<u></u>				ON OF RE	LEASE		110. 20 01.			
Unit Letter A	Section 9	Township 18S	Range 28E	Feet from the 990		h/South Line	Feet from the 330	East/West Line EAST	County EDDY			
L		L	L	titude		Longitud	l	L		<u></u>		
			1.74			E OF REL						
Type of Rele	ase HISTO	RICAL		14231			Release N/A	Volume	Recovered		N/A	
			RELEAS	E FROM ACTIV	E WH		Hour of Occurrence		d Hour of Dis	scovery		
Was Immedi	ate Notice (] Yes 🗌] No 🛛 Not R	equired	If YES, To	Whom?	<u> </u>				
By Whom?	<u> </u>					Date and Hour						
Was a Water	course Read			_		If YES, Volume Impacting the Watercourse.						
		L] Yes 🛛] No								
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*								
N/A												
Describe Cau	use of Probl	em and Reme	dial Actio	n Taken.*				· · · · · · · · · · · · · · · · · · ·	·			
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Describe Are	a Affected	and Cleanup	Action Tal	(en.*			<u> </u>				<u> </u>	
		-										
AREA ARO	UND WEL	LHEAD AND) BATTEI	RY - REMEDIAT	TED							
I hereby certi	ify that the i	information g	iven above	is true and comp	olete to	the best of my	knowledge and u	nderstand that pu	rsuant to NM	OCD r	ules and	
							nd perform correct arked as "Final R					
should their of	operations h	ave failed to	adequately	investigate and i	remedia	ate contaminati	ion that pose a thr	eat to ground wat	er, surface wa	ater, hu	man health	
or the enviro	nment. In a	ddition, NMC	OCD accept				e the operator of					
federal, state	, or local lav	ws and/or regu	ulations.									
		(A)				OIL CONSERVATION DIVISION						
Signature: Signature: Signature:												
Printed Nam	e: JACKIE	BREWER				Approved by Biggien Super the Lemmin						
Title: OPER			<u> </u>			Approval Da	te.SEP 292	009 Expiration	Date: NC	r		
		ER212@AOL	COM			Conditions of	1			_		
						Conditions of		*	Attached			
Date:		ate If Nacore		575-631-4592			٠					

Attach Additional Sheets If Necessary

PMLB 0927234787



CONSULTING AND ENVIRONMENTAL REMEDIATION

May 11, 2009

Mr. Mike Bratcher Environmental Field Technician New Mexico Oil Conservation Division 1301 W. Grand Ave Artesia, New Mexico 88210

JUN 22 2009

RE: Remediation Plan Letter

Operator:	Sandlot Energy/Cantera
Lease:	Thomas State #1
API:	30-015-02672
Legal:	UL-A (NE ¼ of the NE ¼) of Section 9, T18S, R28E
	Eddy County, New Mexico
Coordinates	Latitude: N32° 46' 00.53"; Longitude: W104° 10' 24.39"
EPI Ref No.:	455008

Dear Mr. Bratcher:

On behalf of Sandlot Energy/Cantera, Environmental Plus, Inc. (EPI) submits the following *Remediation Plan Letter* to address remediation of the aforementioned location. Soil impacts are historical in nature with no data indicating release date(s), volume and nature of release fluid(s) or efforts to remediate the release area(s).

Remediation Proposal – Sandlot Energy/Cantera proposes to delineate and collect samples from location. Submit samples to an independent laboratory for analysis. Contact the NMOCD in regards to the analytical results and remediate per NMOCD guidelines and instruction.

Official communications should be directed to Mr. Jackie Brewer at (575) 631-4592 (mobile) with correspondence addressed to:

Mr. Jackie Brewer Sandlot Energy/Cantera P.O. Box 711 Lovington, New Mexico 88260

Sincerely,

Shelly J Tucker

Environmental Consultant

Cc: Jackie Brewer, Sandlot Energy Al Nasser, Cantera

Encl: none



CONSULTING AND ENVIRONMENTAL REMEDIATION

May 11, 2009

Mr. Mike Bratcher Environmental Field Technician New Mexico Oil Conservation Division 1301 W. Grand Ave Artesia, New Mexico 88210

RE: Closure Report

Sandlot Energy/Cantera
Thomas State #1
30-015-02672
UL-A (NE ¼ of the NE ¼) of Section 9, T18S, R28E
Eddy County, New Mexico
Latitude: N32° 46' 00.53"; Longitude: W104° 10' 24.39"
455008

Dear Mr. Bratcher:

On behalf of Sandlot Energy/Cantera, Environmental Plus, Inc. (EPI) submits the following *Closure Report Letter* to address remediation of the aforementioned location. Soil impacts are historical in nature with no data indicating release date(s), volume and nature of release fluid(s) or efforts to remediate the release area(s). For clarity and cross reference elimination purposes, the *Closure Report Letter* offers Site Background history, Site Delineation, Remedial Activities, Analytical Data and Conclusion.

A. Site Background - The Site is located in UL-A (NE ¼ of the NE ¼) of Section 9, T18S, R28E at an elevation of approximately 3,646 feet above mean sea level (amsl). A search for water wells was completed utilizing the <u>New Mexico Office of the State Engineers</u> website and a database maintained by the United States Geological Survey (USGS). No water wells exist within a 1,000 foot radius of the release site. No surface water exists within a 1,000-foot radius of the release area (reference *Figure 2*). Groundwater data taken from domestic and USGS water wells within a one (1) mile radius indicates an average water depth of approximately 107 feet below ground surface (bgs). Utilizing this information, New Mexico Oil Conservation Division (NMOCD) Remedial Goals for this Site were determined as follows:

Parameter	Remedial Goal
Benzene	10 parts per million
BTEX	50 parts per million
TPH	5000 parts per million

* Chloride residuals may not be capable of impacting local groundwater above NMWQCC Ground Water Standards of 250 mg/L

CONSULTING AND ENVIRONMENTAL REMEDIATION

B. Site Delineation – In July of 2008, Sandlot Energy/Cantera mobilized at the well head to excavate an area of three (3) feet by six (6) feet by three (3) feet below ground surface (bgs). In addition, Sandlot Energy/Cantera mobilized at the battery to excavate an area of six (6) feet by ten (10) feet by two (2) feet deep below ground surface (bgs). During the excavation, soil samples were collected at a depth of one (1) foot bgs at the well head and two (2) feet bgs at the tank battery. Samples were submitted to an independent laboratory for analysis (reference *Table 2* for *Summary of Soil Boring Soil Sample Analytical Results*).

On April 17, 2009 EPI mobilized at the well head to direct the location and depth of four (4) soil borings. The soil borings were advanced around the well head and tank battery area. Due to rock encounter during the boring, soil samples were only collected at the well head at a depth of four (4) foot bgs and at the tank battery at a depth of five (5) foot bgs, total depth (TD) of the soil boring (reference *Table 2* for *Summary of Soil Boring Soil Sample Analytical Results*).

C. **Remedial Activities** – In July 2008, Sandlot Energy/Cantera excavated the area around the well head and tank battery, transported the excavated material to CRI and backfilled the hole with on site material. No soil samples were collected during backfilling activities.

A review of *Table 2 Summary of Soil Boring Soil Sample Analytical Results* indicates impacted soil exceeding NMOCD Chloride remedial threshold goals of 250mg/Kg in the bottom of excavation. However, with average depth between known contaminants and ground water greater than one-hundred two (102) feet (reference *Table 1* for *Well Data*) and contaminants confined within an area of dense rock, additional vertical excavation is not practical nor performance or cost effective. In addition, contaminants are limited to a small confined area and potential contamination of groundwater diminishes as natural attenuation should greatly reduce concentrations during migration.

The entire area was contoured to allow natural drainage and vehicular traffic.

D. **Conclusion** - According to recent laboratory analytical results (reference *Attachment 2*), soils within the excavation area are moderately hydrocarbon and chloride impacted. With hydrocarbon and chloride impacts confined in dense rock and a small area, natural attenuation should deplete concentrations significantly during migration to groundwater. No additional excavation is necessary.

In view of extensive efforts exerted to remediate the release area, EPI requests NMOCD require no additional remedial activity of the site and issue Sandlot Energy/Canterra a *Site Closure Letter*.



Please address questions, concerns and/or needs for additional technical information to Shelly J. Tucker at (575) 394-3481 (office), (575) 706-9121 (cellular) or via e-mail at <u>stucker@envplus.net</u>. Official communications should be directed to Mr. Jackie Brewer at (575) 631-4592 (mobile) with correspondence addressed to:

Mr. Jackie Brewer Sandlot Energy/Cantera P.O. Box 711 Lovington, New Mexico 88260

Sincerely,

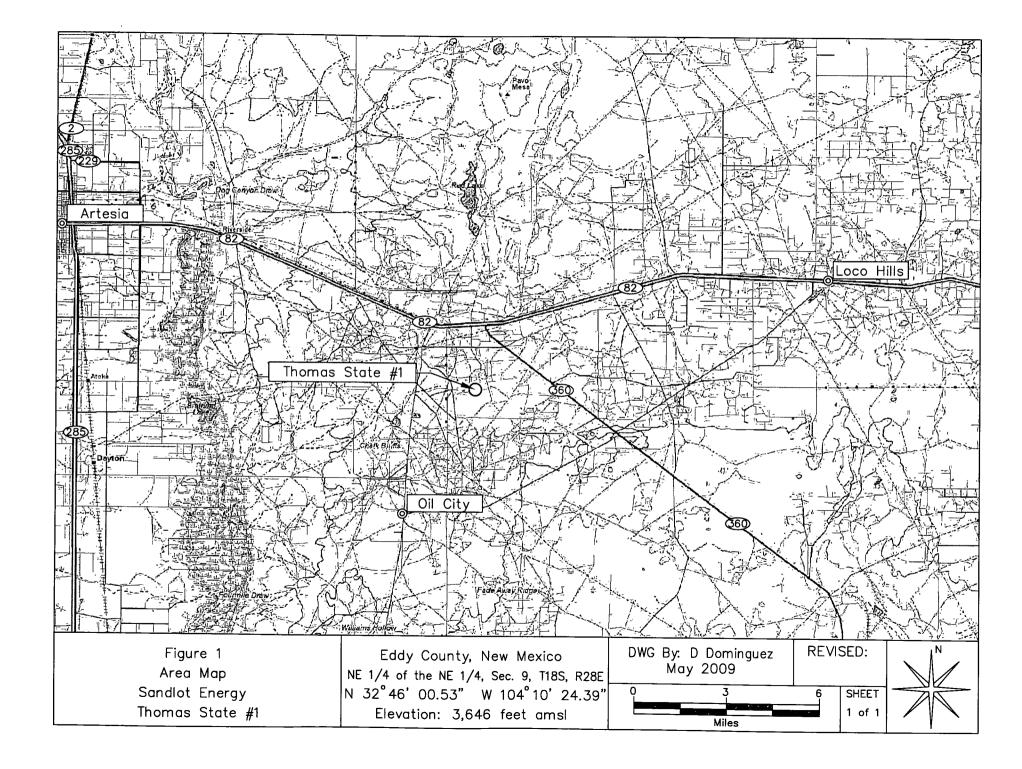
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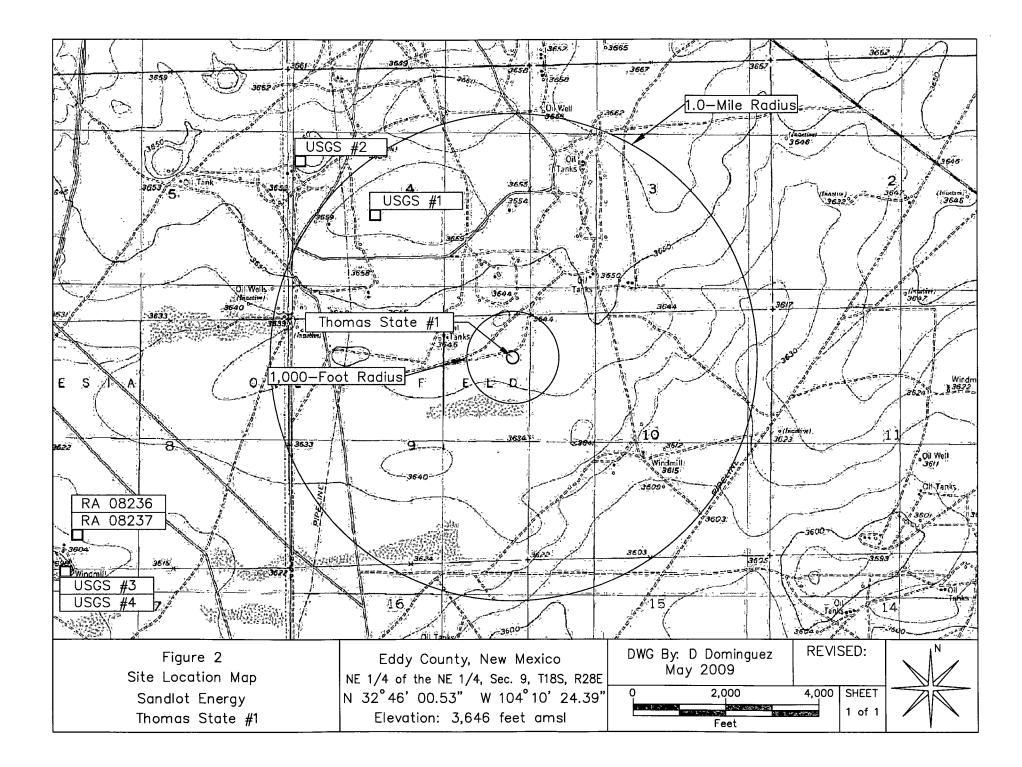
Shelly J Tucker Environmental Consultant

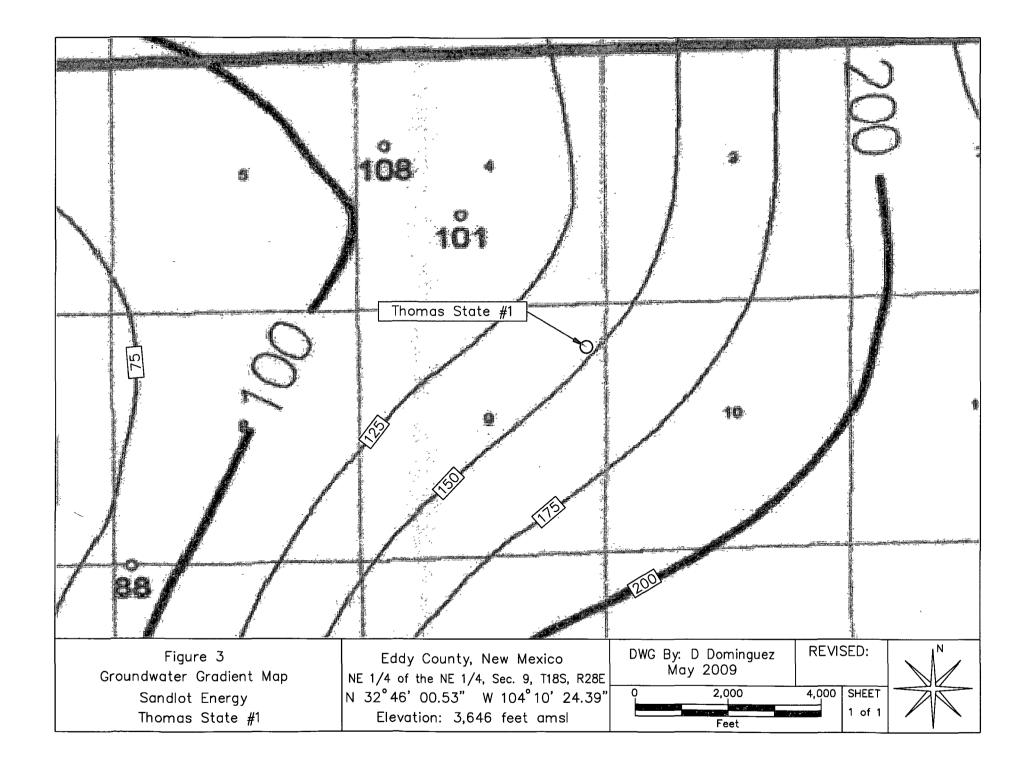
Cc: Jackie Brewer, Sandlot Energy Al Nasser, Cantera David Duncan, Civil Engineer File

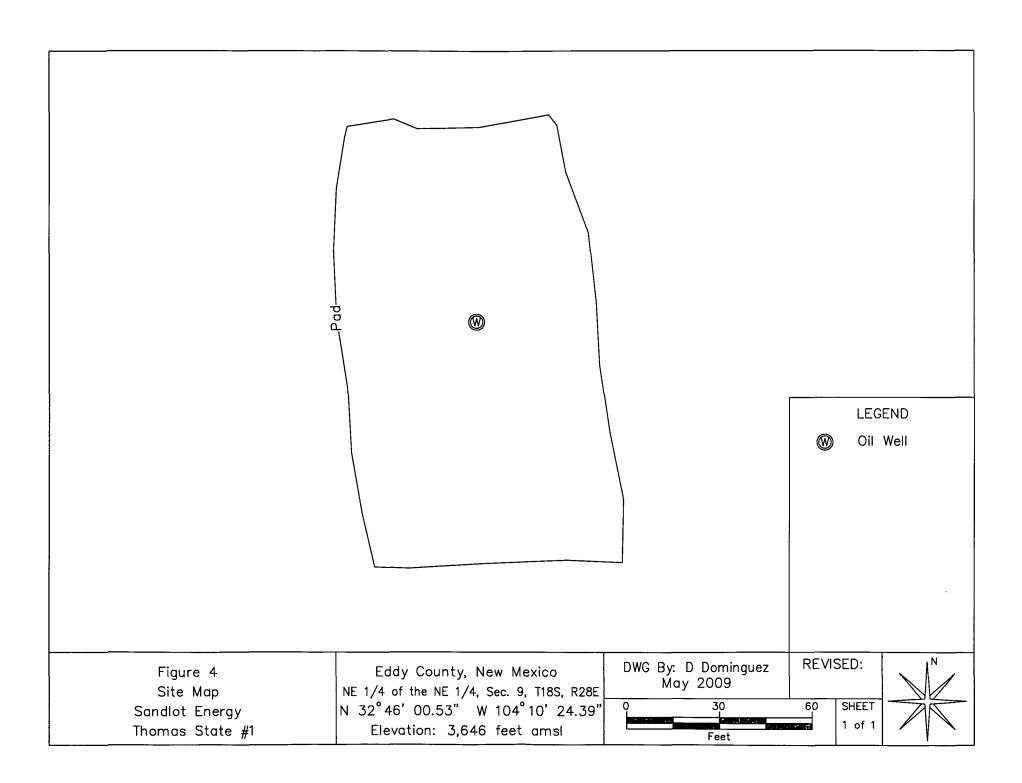
Encl: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Groundwater Gradient Map
Figure 4 – Site Map
Figure 5 – Excavation and Sample Location Map
Table 1 – Well Data
Table 2 – Summary of Excavation Soil Sample Laboratory Analytical Results
Attachment I – Site Photographs
Attachment II – Laboratory Analytical Results and Chain-of-Custody Forms
Attachment III – Initial NMOCD Form C-141
Final NMOCD Form C-141

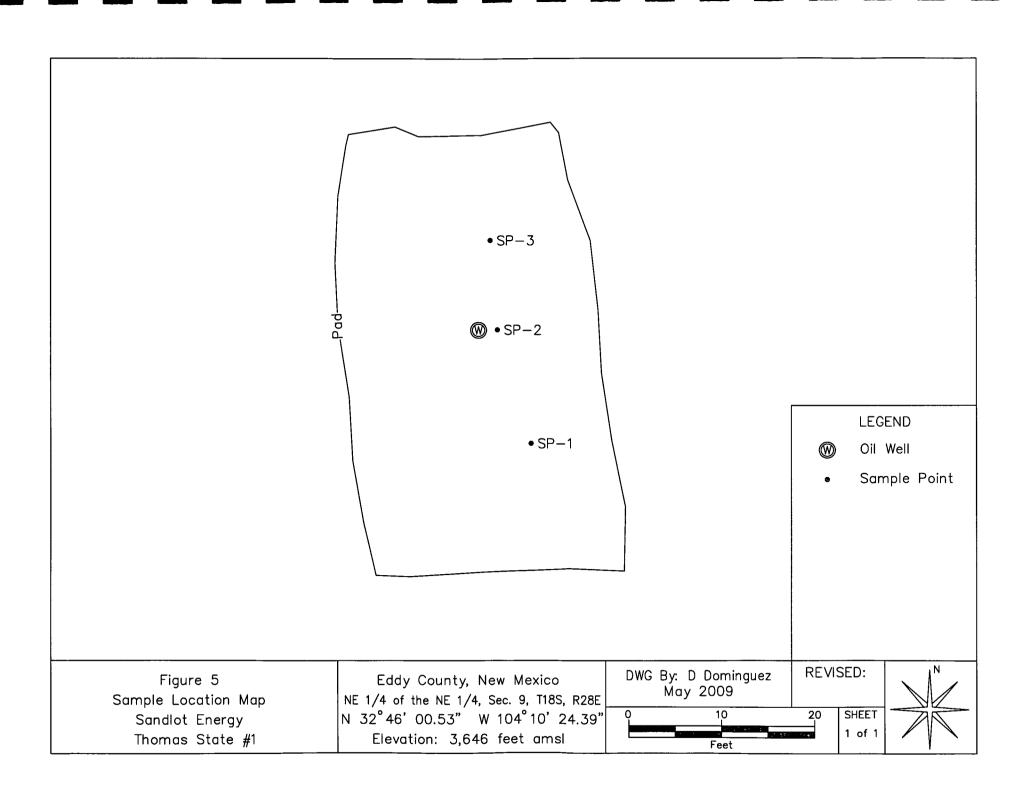
FIGURES











TABLES

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TABLE 1

<u>Well Data</u>

Sandlot Energy - Thomas State # (Ref. #455008)

Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
RA 08236	1	BOGLE FARMS	STK	18S	28E	833	N32° 45' 23.07"	W104° 12' 14.66"		3,612	
RA 08237	1.47	BOGLE FARMS	STK	18S	28E	833	N32° 45' 23.07"	W104° 12' 14.66"		3,612	
USGS #1				18S	28E	4324			09-Mar-94	3,665	100.78
USGS #2				18S	28E	4 1 3 1			09-Mar-94	3,645	107.65
USGS #3				18S	28E	17 1 1 1			09-Mar-94	3,599	88.21
USGS #4				18S	28E	17 1 1 1			02-Dec-48	3,599	81.55

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1) and USGS Database.

 A = In acre feet per annum

 B = Elevation interpolated from USGS topographical map based on referenced location.

STK = 72-12-1 Livestock watering

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

Shaded area indicates wells not shown in Figure 2

TABLE 2

Summary of Soil Boring Soil Sample Analytical Results

Sandlot Energy/Cantera

Thomas State #1

API # 30-015-02672; EPI Ref. #455008

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Chioride		Toluene (mg/Kg)	Ethylbenzen e (mg/Kg)	Total Xylenes (mg/Kg)		TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
T 1	1	In-Situ	16-Jul-08								<10	3,770		2,220
TTB 2	2	In-Situ	16-Jul-08				-				23	628		3,200
		In-Situ												
		In-Situ												
WH	4	In-Situ	17-Apr-09											752
ТВ	5	In-Situ	17-Apr-09								<10	<10		5,200
		In-Situ												
		In-Situ												
NMOC	D Remed	lial Thresho	old Goals	100		10				50			5,000	250 ¹

Bolded values are in excess of NMOCD Remediation Thresholds

¹ Chloride residuals may not be capable of impacting groundwater above NMWQCC Ground Water Standards of 250 mg/L

J = Detected, but below Reporting Limits. Therefore, result ia an estimated concentration (CLP J-

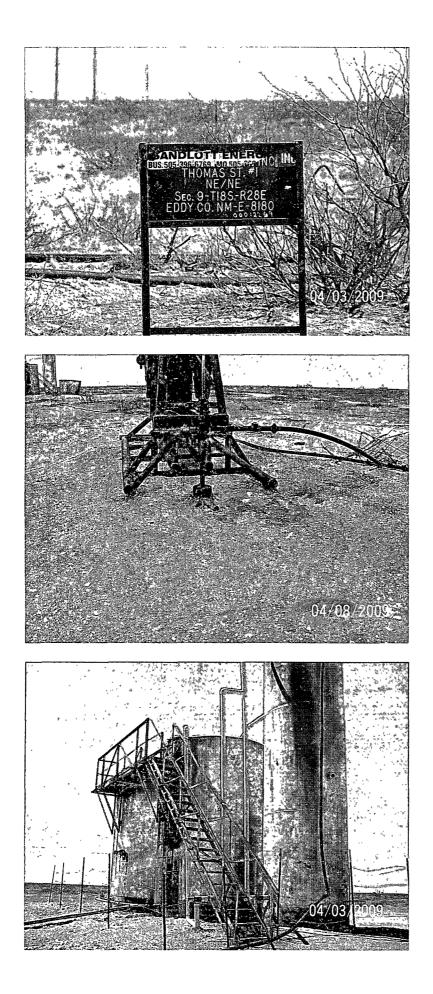
-- = Not Analyzed

ND = Not Detected

SB = Soil Boring Hole

ATTACHMENTS

ATTACHMENT I SITE PHOTOGRAPHS



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والمراجعة المراجعة

ATTACHMENT II LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORM



LUNE (U.S. 199-1988 - INTE NUT CAN DE TRADE UNIT

ANALYTICAL RESULTS FOR PPI (Canterra) ATTN: AL NASSER 800 GESSNER HOUSTON, TX 77024 FAX TO: (575) 396-0063

erl # 832-326-4119

Receiving Date: 07/16/08 Reporting Date: 07/18/08 Project Owner: Canterra Project Name: OCUPOOPER Project Location: SEC 32 Sandlott Oper Sampling Date: 07/16/08 Sample Type: SOIL Sample Condition: COOL-INTACT Sample Received By: ML Analyzed By: ZL/AB/KS

	GRO	DRO	
	(C ₆ -C ₁₀)	(≻C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS D	ATE	07/17/08	07/17/08	07/17/08
H15176-1	367-1'	<10.0	14,9	624
H15176-2	381-1	467	25,400	3,440
H15176-3	381 TB	<10.0	1,090	1,630
H15176-4	D-1'	<10.0	1,100	208
H15176-5	DTB 2'	<10.0	57.4	336
H15176-6	T#1	<10.0	672	- 2,220
H15176-7	TTB 2'	23.2	3,770	3,200
H15176-8	LEVERTB 2'	<10.0	628	14,400
H15176-9	L-A21'	<10.0	94.2	9120
H15176-10	L-A2 3'	41.6	<10.0	7,440
H15176-11	LATB 1'	<10.0	1,530	11,900
H15176-12	317-3'	<10.0	138	1,520
H15176-13	317-1'	19.6	296	640
H15176-14	322-1'	<10.0	<10.0	1,330
H15176-15	322-3'	<10.0	117	4,000
H15176-16	WD 18 3'	<10.0	1,220	2,600
H15176-17	WD 18 1'	54.1	193	2,640
H15176-18	370-3'	186	- 3,140	496
H15176-19	370-1'	41.9	2,530	528
H15176-20	367-3'	<10.0	56.8	832
H15176-21	367 Flowline	131	5,510	5,720
Quality Contro	>}	550	555	500
True Value Q	0	500	500	500
% Recovery		110	111	100
Relative Perce	ent Difference	9.6	10.4	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 Std. Methods 4500-CFB *Analyses performed on 1:4 w:v aqueous extracts.

Chemist

H15176TCL PPI

ASE NOTE Liability and Damages. Cardinal's liability and client clacousive remady for any claim arising, whisther based in contract criticity, shall be limited to the amount date by mant for characteris larms, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within mithy (30) doys after completion to the abult avia In no event shall Cardinal be liable for indicental or consequential damaged, including, without limitation, business internations loss or last or trades or the cardinal match of the cardinal match avia to no event shall Cardinal be liable for indicental or consequential damaged, including, without limitation, business internations loss or last or cardine not reduce the cardinal or consequential damaged, including, without limitation, business internations loss or last or cardine not reduce to the cardinal or consequential damaged, including, without limitation, business internations loss or last or cardine not reduce to the cardinal net or the cardinal regardless or whether such claim is based under any or the attore attore the claim for the attore attore to the tract or formation. To write the cardinal within the cardinal damaged is considered or cardinal vectors and under any or the attore stated reacons or claim is to end or write attore attore the claim is based under any or the attore attore to chard is the cardinal within and light to be reacted in the tracter approval of Cardinal Laborationes.

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290 Giessner	Company: PPT	
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1. 8323264719 Fax #: 575-39	6-0063 Address; 800 Ges	sher
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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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state: TX ZID: 79024	Attn: Simolotto	
5323264719 Fax # 575-396,000	53 Address: 8006ESSMEr	
Project Owner: (Quiterrade)	- City: Etocston	
Manne OCUPEOPER "	State: 7X Zip: 77024	
mousion 32 SEC - (Similait OPer) Phone #: 713-464-1200	
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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: SHELLY TUCKER P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (575) 394-2601

Receiving Date: 04/30/09 Reporting Date: 04/30/09 Project Owner: PPI (SANDLOT ENERGY/CANTERA) (EPI 45501-455013) Project Name: SANDLOT WELLS - SEC 32 Project Location: NOT GIVEN Analysis Date: 04/30/09 Sampling Date: 04/14/09, 04/17/09 & 04/21/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AB Analyzed By: HM

· · · · · · · · · · · · · · · · · · ·		CI_	,s . *
LAB NUMBER	SAMPLE ID	(mg/kg)	
H17330-1	RESLER YATES ST 317 - 4' WH	1,600	
H17330-2	RESLER YATES ST 317 - 4' LOC	320	
H17330-3	RESLER YATES ST 322 - 4' WH	560	
H17330-4	RESLER YATES ST 367 - 4' WH	848	
H17330-5	RESLER YATES ST 367 - 3' FL	112	
H17330-6	RESLER YATES ST 370 - 4' WH	704	
H17330-7	RESLER YATES ST 381 - 3' WH	1,150	
H17330-8	RESLER YATES ST 381 - 5' TB	2,040	
H17330-9	LEVERS A2 - 5' WH	2,120	
H17330-10	LEVERS A2 - 5' LOC	2,200	
H17330-11	LEVERS A STATE 2 - 3' TB	4,880	
H17330-12	LEVERS A STATE - 4' TB	1,120	
H17330-13	THOMAS ST 1 - 4' WH	752	
H17330-14	THOMAS ST 1 - 5' TB	5,200	ROCK
H17330-15	WELCH DUKE ST 18 - 10' WH	768	
Quality Control		500	
True Value QC		500	
% Recovery		100	
Relative Percent Different	ence	< 0.1	

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist H17330 EPI

0.5/01/09 Date

PLEASE NOTE Liability and Damages. Cardinal's tability and client s exclusive remedy for any claim ansing, whether based in contract or torn, shall be immed to the amount paid by client for analyses. All claims indicting those for negligence and any other cause whatboever shall be deemed warked unless made in writing and received by Cardinal within theiry (30) rays site, completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without immation, cusiness interruptions, loss of use, or ices of profits incurred by client, its subsidiaries, affiliates or successories ransing out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Eaboratories.

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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: SHELLY TUCKER P.O. BOX 1558 **EUNICE, NM 88231** FAX TO: (575) 394-2601

Receiving Date: 04/30/09 Reporting Date: 05/04/09 Project Owner: PPI (SANDLOT ENERGY/CANTERA) Project Name: SANDLOT WELLS - SEC 32 Project Location: NOT GIVEN

Sampling Date: 04/17/09 & 04/21/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

	GRO	DRO	
7	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	جر `
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	

ANALYSIS D	ATE	05/02/09	05/02/09		
H17330-8	RESLER YATES ST 381-5' TB	<10.0	<10.0		
H17330-11	LEVERS A STATE 2 - 3' TB	<10.0	<10.0		
H17330-12	LEVERS A STATE - 4' TB	<10.0	19.2		
H17330-14	THOMAS ST 1 - 5' TB	<10.0	<10.0		
·····			**		
Quality Contr	ol	485	530		
True Value C	A DESCRIPTION OF A DESC	500	500		
% Recovery	na ann an Anna an Anna an Anna. Ann an Anna an	97.0	106		
Relative Perce	cent Difference	9.1	6.3		

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Chemist

15/05/09

H17330 T EPI

PLEASE NOTE Liability and Damages Cardinal's bability and dientis exclusive remedy for any claim ansing whether cased in contract or lord, shall be bruited to the emount part by blent for any yar All claims, including those for negligence and any other cause whatspever shall be deemed waived unless made in writing and received by Cardinal within multy (30) days after completion of the applicat service in no event shall Cardinal op liable for incidental or consequential damages including without limitation business interruptions, loss of use or loss of profits incurred by client, its subsidiariy affiliates or successors ansing out of or related to the performance of services nereunder by Cardinal, regardless of whether such claim is based upon any of the accessions or otherwise. Resu relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories

Environ	Invironmental Plus, Inc.														Chain of Custody Form																	
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EPI Phone#/Fax# 575-394-3481 / 575-394-2601										ΑΠ				ts Payable																		
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ATTACHMENT III INITIAL NMOCD FORM C-141 FINAL NMOCD FORM C-141

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1625 N French District II						f New Mex s and Natura		irces		Form C-14 Revised October 10, 200
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I hereby certi	fy that the i	information gi	iven abov	e is true and comp	lete to	the best of my	knowled	ge and ur	derstand that purs	suant to NMOCD rules and
regulations al public health	l operators or the envir	are required t ronment. The	o report a	nd/or file certain i ce of a C-141 rep	elease	notifications and he NMOCD m	nd perfor arked as	m correct "Final Re	ive actions for rele port" does not reli	eases which may endanger eve the operator of liability
should their o	perations h	ave failed to a	adequately	investigate and r	emedia	te contaminati	on that p	ose a thre	at to ground water	, surface water, human health ompliance with any other
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Signature: (A.	BOS NOU	ver	· · · · · · · · · · · · · · · · · · ·						
Printed Name	: JACKIE I	BREWER				Approved by	District S	Superviso	r:	
Title: OPERA	TOR				_'	Approval Dat	e:		Expiration 1	Date:
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