By OCD; Dr. Oberding at 10:55 am, Mar 06, 2015

By OCD; Dr. Oberding at 10:55 am, Mar 06, 2015

March 5, 2015

APPROVED

Oil Conservation Division District 1 – Hobbs 1625 N. French Drive Hobbs, New Mexico 88240

Re: Dos Abuelos Fee #2H

30-025-41537

Sec. 20, T18S-R34E Lea County, NM

Dr. Tomas Oberding,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated November 14, 2014.

Background

The release was caused when a snap action dump on the oil side of a FWKO froze, not allowing the dump to open. The knockout filled with fluid and overflowed to the flare. 100 bbls of oil was sent through the flare, impacting the pasture to the north of the location. Vacuum trucks were dispatched and 70 bbls were able to be recovered. An impacted area outside the berm measures approximately 7.84 acres. This area was addressed with an initial application of Microblaze.

Groundwater

Based on information from the NM Office of State Engineer, the release area would be classified at a site ranking of Zero due to the depth of groundwater at approximately 110'.

Soil Assessment and Analytical Results

According to the NRCS soil report, this area is classified as a Kimbrough-Lea Complex which characterizes a typical profile by 0-6 inches of gravelly loam and 6-16 inches of cemented material. A restrictive feature of petrocalcic material can be found at a depth of 4-20 inches.

Initial surface soil samples were taken on 12-01-2014 at a 4" depth. Samples indicate TPH and BTEX exceed RRALs for a site ranking of zero for 3 of the 5 sampling points taken. Additional samples were taken on 2-04-2015 to further delineate the extent of the impact (see attached site diagram).

Work Plan

COG proposes the excavation of the 3.21 acres (see diagram) at a depth of 6". The area will be backfilled with like material.

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact me with any questions or concerns at (575) 748-6940.

Sincerely,

Amanda Trujillo

Senior Environmental Scientist

Enclosed

- (1) C-141 Initial Copy
- (2) Site Diagram and Summary Table
- (3) Laboratory Analysis

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., 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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fa NIM 97505

Attached

Form C-141

Revised August 8, 2011

Account to the second s				38	шиа ге	e, INIVI 6/3	003				
			Rele	ease Notific	eation	and Co	rrective A	ction			
			172			OPERA	ΓOR	☑ Ini	ial Report		Final Repor
Name of Co	mpany: C	OG Operati	ng LLC			Contact: Ro	bert McNeill				
Address: 60	0 West Illi	inois Avenue	e, Midlan	d TX 79701		Telephone 1	No. 432-230-007	77	Markette .		
Facility Na	ne: Dos A	buelos Fee #	1H			Facility Typ	e: Battery				
Surface Ow	ner: Fee			Mineral C)wner: l	Fee		APIN	o. 30-025-4	1346	
				LOCA	TION	OF REI	LEASE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line		Coun	ntv
С	20	185	34E	190'	1	North	2310	West		Edd	•
			Latit	tude 32.739955	218009	9 Longitud	e -103.5836541	22109			
		2				OF RELI					
Type of Rele	ase:			IIAI	ORE	Volume of		Volume	Recovered:		
Oil						100 bbls		70 bbls			
Source of Re				•		1	lour of Occurrenc		Hour of Dis		' :
Was Immedia		d a release thr	ough the i	ilare		11/14/2014 If YES, To		11/14/2	014 10:00 an	l	
was illilicula	ite Notice C		Yes	No 🔲 Not Re	quired		erding – NMOCD	Hobbs			
By Whom?	Amanda T				•		lour:11/14/2014 2				
Was a Water							lume Impacting t				
			Yes 🛚	No							
If a Watercou	rse was Imp	oacted, Descri	be Fully.*			100 m (0)			1-300		
Describe Cau											
This release v	vas caused v	when a snap a	ction dum	p on oil side of FV e inlet valve to sh	WKO fro	oze not allow	ing dump to open	The knockout f	illed with flui	d and	overflowed
dispatched to			iciivate uii	e lillet valve to sil	ut it off :	so the well co	minued to produc	ce. vacuum truc	es and a rousi	about 0	crew were
		•••									
Describe Are	A ffootod o	and Cloonum A	ation Tak	on #						- 22.0	
Describe Area	a Affected a	ind Cleanup A	iction Tak	en. T							
The impacted	area can be	found to the	north of th	ne battery in the p	asture. C	Concho will h	ave the spill site s	sampled to deline	ate any possit	le con	tamination
from the relea	ise and we v	vill present a	remediatio	on work plan to th	e NMO	CD for appro	val prior to any si	gnificant remedia	tion work.		
I hereby certi	fy that the in	nformation giv	ven above	is true and compl	ete to th	e best of my	knowledge and ur	nderstand that pur	suant to NM	OCD n	ules and
regulations al	operators a	are required to	report an	d/or file certain re	elease no	tifications an	nd perform correct	tive actions for re	leases which	may er	ndanger
public health	or the envir	onment. The	acceptanc	e of a C-141 repo	rt by the	NMOCD ma	arked as "Final Re	port" does not re	lieve the oper	ator of	liability
				investigate and re tance of a C-141 r							
federal, state,				tance of a C-141 f	eport ad	ies not reneve	e the operator of r	esponsibility for	compliance w	iin any	otner
· · · · · ·							OIL CONS	SERVATION	DIVISIO	N	
Cianatura	=1	- Zu	كأرز	le							
Signature:						Ammaggad heet	Environmental C.	anialist.			
Printed Name	: Amanda	Frujillo			F	approved by	Environmental Sp	occialist:			
Title: Senior I	Invironmen	tal Coordinate	or.			Approval Date	p. ·	Expiration	Date:		
THE SCHOOL	PHALLOHILICH	iai Coordinati	U I		F	zhhiovai nan	U	Lapitation	Date.		

Conditions of Approval:

Phone: 575-748-6940

Date: December 1, 2014

E-mail Address: atrujillo a concho.com

^{*} Attach Additional Sheets If Necessary



Site Ra Depth	er er	ĬŽ.		
S1	DRO	GRO	ТРН	BTEX
4"	14200	2210	16410	18
S2	DRO	GRO	ТРН	BTEX
4"	16900	3220	20120	34
S3	DRO	GRO	ТРН	BTEX
4"	7410	375	7785	1
S4	DRO	GRO	HAT	BTEX
4"	296	<10.0	296	<0.300
S5	DRO	GRO	TPH	BTEX
4"	237	< 10.0	237	<0.300
\$1(2)	DRO	GRO	TPH	BTEX
16"	140	13.6	153.6	<0.300
18"	1440	15.7	1455.7	<0.300
\$2 (2)	DRO	GRO	HdT	ВТЕХ
16"	1830	<50.0	1830	<0.300
20"	346	< 10.0	346	<0.300
53(2)	DRO	GRO	ТРН	BTEX
15"	220	< 10.0	220	<0.300
.92	254	< 10.0	254	<0.300
\$4(2)	DRO	GRO	ТРН	BTEX
17"	75	< 10.0	75	<0.300
S5 (2)	DRO	GRO	TPH	BTEX
19"	21.4	< 10.0	21.4	<0.300
20"	<10.0	< 10.0	<10.0	<0.300
B	Bold values e	exceed RRALs per NMOCD	ALs per NN	10CD





February 09, 2015

GARRETT MERKET

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: DOS ABUELOS

Enclosed are the results of analyses for samples received by the laboratory on 02/04/15 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/04/2015

Reported:

02/09/2015

Project Name:

DOS ABUELOS

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/04/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S1- 16" (H500316-01)

BTEX 8021B	mg,	'kg	Analyze	d By: ms				T	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2015	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	02/06/2015	ND	1.66	83.2	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/06/2015	ND	1.59	79.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	02/06/2015	ND	4.74	79.0	6.00	12.6	
Total BTEX	<0.300	0.300	02/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-15+		100000000000000000000000000000000000000		31;			
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.6	10.0	02/04/2015	ND	206	103	200	8.01	
DRO >C10-C28	140	10.0	02/04/2015	ND	222	111	200	14.3	
Surrogate: 1-Chlorooctane	103 9	% 47.2-15	7			====			
Surrogate: 1-Chlorooctadecane	95.8	52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg Z. Kuna





COG OPERATING
GARRETT MERKET
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

02/04/2015

Reported:

BTEX 8021B

DRO >C10-C28

02/09/2015 DOS ABUELOS

mg/kg

Project Name: Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

02/04/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: S1- 18" (H500316-02)

		_		-					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2015	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	02/06/2015	ND	1.66	83.2	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/06/2015	ND	1.59	79.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	02/06/2015	ND	4.74	79.0	6.00	12.6	
Total BTEX	<0.300	0.300	02/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 61-154							
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15.7	10.0	02/04/2015	ND	206	103	200	8.01	

ND

222

111

200

14.3

02/04/2015

Analyzed By: ms

Surrogate: 1-Chlorooctane	108 %	47.2-157
Surrogate: 1-Chlorooctadecane	109 %	52.1-176

1440

10.0

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/04/2015

Reported:

02/09/2015

Project Name:

DOS ABUELOS

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/04/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2- 16" (H500316-03)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2015	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	02/06/2015	ND	1.66	83.2	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/06/2015	ND	1.59	79.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	02/06/2015	ND	4.74	79.0	6.00	12.6	
Total BTEX	<0.300	0.300	02/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 61-15-	ł						
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/05/2015	ND	182	91.2	200	12.8	
DRO >C10-C28	1830	50.0	02/05/2015	ND	179	89.7	200	0.285	
Surrogate: 1-Chlorooctane	108	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	116	% 52.1-17	6						
		A							

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Celeg & treena





COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/04/2015

Reported:

02/09/2015

Project Name: Project Number: DOS ABUELOS

Project Location:

NONE GIVEN

Sampling Date:

02/04/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2- 20" (H500316-04)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2015	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	02/06/2015	ND	1.66	83.2	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/06/2015	ND	1.59	79.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	02/06/2015	ND	4.74	79.0	6.00	12.6	
Total BTEX	<0.300	0.300	02/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 61-154							
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2015	ND	182	91.2	200	12.8	
DRO >C10-C28	346	10.0	02/05/2015	ND	179	89.7	200	0.285	
Surrogate: 1-Chlorooctane	103 9	26 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.7	% 52.1-17	б						

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Celey D. Keine





COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/04/2015

Reported:

02/09/2015

Project Name:

DOS ABUELOS

Project Number: Project Location:

NONE GIVEN

Sampling Date:

02/04/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3- 15" (H500316-05)

BTEX 8021B	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2015	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	02/06/2015	ND	1.66	83.2	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/06/2015	ND	1.59	79.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	02/06/2015	ND	4.74	79.0	6.00	12.6	
Total BTEX	<0.300	0.300	02/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 61-154	1						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2015	ND	182	91.2	200	12.8	
DRO >C10-C28	220	10.0	02/05/2015	ND	179	89.7	200	0.285	
Surrogate: 1-Chlorooctane	113 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	103 9	% 52.1-17	6						

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*=Accredited Analyte

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Celegit . Kreine





COG OPERATING **GARRETT MERKET** P. O. BOX 1630 ARTESIA NM, 88210 NONE Fax To:

Received:

02/04/2015

Reported:

BTEX 8021B

02/09/2015

Project Name:

DOS ABUELOS

mg/kg

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

02/04/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S3- 26" (H500316-06)

and the same of th									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2015	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	02/06/2015	ND	1.66	83.2	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/06/2015	ND	1.59	79.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	02/06/2015	ND	4.74	79.0	6.00	12.6	
Total BTEX	< 0.300	0.300	02/06/2015	ND					

Analyzed By: ms

Surrogate: 4-Bromofluorobenzene (PID

102%

61-154

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2015	ND	182	91.2	200	12.8	
DRO >C10-C28	254	10.0	02/05/2015	ND	179	89.7	200	0.285	

Surrogate: 1-Chlorooctane

107%

47.2-157

Surrogate: 1-Chlorooctadecane

98.4%

52.1-176

Cardinal Laboratories *=Accredited Analyte

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Celeg T. Keena





COG OPERATING **GARRETT MERKET** P. O. BOX 1630 ARTESIA NM, 88210 NONE Fax To:

Received:

02/04/2015

Reported:

02/09/2015

Project Name: Project Number: DOS ABUELOS NONE GIVEN

103 %

52.1-176

Project Location:

NOT GIVEN

Sampling Date:

02/04/2015

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S4- 17" (H500316-07)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2015	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	02/06/2015	ND	1.66	83.2	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/06/2015	ND	1.59	79.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	02/06/2015	ND	4.74	79.0	6.00	12.6	
Total BTEX	<0.300	0.300	02/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 61-154							
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Resuit	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2015	ND	182	91.2	200	12.8	
DRO >C10-C28	75.0	10.0	02/05/2015	ND	179	89.7	200	0.285	
Surrogate: 1-Chlorooctane	102 5	% 47.2-15	7						1.5

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg D. Kuna





COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/04/2015

Reported:

02/09/2015 DOS ABUELOS

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/04/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S5- 19" (H500316-08)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2015	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	02/06/2015	ND	1.66	83.2	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/06/2015	ND	1.59	79.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	02/06/2015	ND	4.74	79.0	6.00	12.6	
Total BTEX	<0.300	0.300	02/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 61-154				/			
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2015	ND	195	97.3	200	2.01	
DRO >C10-C28	21.4	10.0	02/06/2015	ND	193	96.3	200	9.21	
Surrogate: 1-Chlorooctane	103 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	83.7	% 52.1-17	6						

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*=Accredited Analyte

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Celeg Z. Kuna





COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/04/2015

Reported: Project Name: 02/09/2015 DOS ABUELOS

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/04/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S5- 20" (H500316-09)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2015	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	02/06/2015	ND	1.66	83.2	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/06/2015	ND	1.59	79.6	2,00	11.4	
Total Xylenes*	<0.150	0.150	02/06/2015	ND	4.74	79.0	6.00	12.6	
Total BTEX	<0.300	0.300	02/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 61-15+	!						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2015	ND	195	97.3	200	2.01	
DRO >C10-C28	<10.0	10.0	02/06/2015	ND	193	96.3	200	9.21	
Surrogate: 1-Chlorooctane	107	% 47.2-15	7				-		
Surrogate: 1-Chlorooctadecane	109 9	% 52.1-17	6						

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Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(010) 000-100	20 1 22 (0:0) 000 000						
Company Name:			BILL TO		,	ANALTOIO NEGOTO	
Project Manager:	Ment	,o	P.O. #:				
Address:		Co	Company:				
City:	State: Zip:	Attn:	tn:				
Phone #:	Fax #:	A	Address:				
Project #:	Project Owner:	0	City:				
Project Name: Das Abueles	2	St	State: Zip:				
		P	Phone #:				
Came #	Market	The	1				
		MATRIX	PRESERV SAMPLING	ត			
		IERS VATER					
Lab I.D. Sai	Sample I.D. G)RAB OR	CONTAIN GROUNDW WASTEWA SOIL OIL SLUDGE OTHER	ACID/BASE ICE / COOL OTHER	TIME			
1 51-01	4	~	S.M.K. K.	>			
2 51-18"	9	7	SULL X	עי	-		
3 52-16"	6	*	SIMIK X	, >			
4 52-20"	6	24	X XWis	× ×	-		
53-8	6	3	x 2/4/8	*	7		
_	4	3	X NAIS	×	+		
7 54-17"	6		NWK X	×	×		
S SE-19"	6	×	x 24/15	×	×		
9 58-20"	0	>	2 Walk	×	×		
PLEASE NOTE: Liability and Comages. Cardinat's liabelity and cherit is exchance remotely for any claim around whether based in content of the strided to the amount paid by the chard for the shalpes. All claims including those for registerize and any other cause whatsoever shall be deemed waived unlose in winding and received by Latitural within 30 days after completion of the applicable standards. All claims included waived in the standard content of the content as subsociatives, service in no event shall content be table for receiverable and content of the content of t	is labelity and chem's exclusive remedy for any or any or and any other cause whatsoever shall be deed codental or consequental damages including with the preferences of senters between the force of the conformation of senters between the conformation of senters between the card	lam arang whether based in contract or mad warved unless made in witing and it hous limitation business interruptions lost nel requiriless of whether such claim is t	tor! shall be invited to the amount paid by the clent for scewed by Castural within 30 days after completion of the s of use or loss of profits incurred by clent. Its subsidian mand upon any of the above stated reasons or otherwise	by the chent for the r completion of the applicable sent, as subsidiaries sens or otherwise.			
effection or successions washing out of an ealined to the performance of services herewise by Cardian Square Report Repor	the performance of services her our dear by Caro. Date: Time:	Regelved By:	MARK	7	□ Yes □ No	Add'I Phone #: Add'I Fax #:	
Refinquished By:	Date:	Received By:					
4		•					

Sample Condition
Cool Intact
Tyes La Yes
No No

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Time:



December 05, 2014

GARRETT MERKET

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: DOS ABRELOS

Enclosed are the results of analyses for samples received by the laboratory on 12/01/14 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: -

12/01/2014

Reported:
Project Name:

BTEX 8021B

12/05/2014

Project Number:

DOS ABRELOS NONE GIVEN

ma/ka

Project Location:

NOT GIVEN

Sampling Date:

12/01/2014

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Amanda Ponce

Sample ID: S1-6" (H403665-01)

BIEX 8021B	mg/	Kg	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	12/02/2014	ND	1.85	92.4	2.00	3.28	
Toluene*	21.9	2.00	12/02/2014	ND	1.82	91.1	2.00	2.76	
Ethylbenzene*	68.1	2.00	12/02/2014	ND	1.72	85.8	2.00	4.19	
Total Xylenes*	91.4	6.00	12/02/2014	ND	5.23	87.2	6.00	4.56	
Total BTEX	181	12.0	12/02/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	61-154							
TPH 8015M	mg/	kg	Analyze	ed By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2210	100	12/01/2014	ND	194	97.1	200	3.40	
DRO >C10-C28	14200	100	12/01/2014	ND	193	96.6	200	4.16	
Surrogate: 1-Chlorooctane	220 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	358 %	52.1-176	6						

Analyzed By: CK

Cardinal Laboratories

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/01/2014

Reported:

12/05/2014 DOS ABRELOS

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

12/01/2014

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Amanda Ponce

Sample ID: S2-6" (H403665-02)

BTEX 8021B	mg,	/kg	Anaiyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	12/02/2014	ND	1.85	92.4	2.00	3.28	
Toluene*	70.7	2.00	12/02/2014	ND	1.82	91.1	2.00	2.76	
Ethylbenzene*	122	2.00	12/02/2014	ND	1.72	85.8	2.00	4.19	
Total Xylenes*	155	6.00	12/02/2014	ND	5.23	87.2	6.00	4.56	
Total BTEX	348	12.0	12/02/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 61-154	!						
TPH 8015M	mg/	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3220	100	12/01/2014	ND	194	97.1	200	3.40	
DRO >C10-C28	16900	100	12/01/2014	ND	193	96.6	200	4.16	
Surrogate: 1-Chlorooctane	215 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	420 9	52.1-170	5						

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/01/2014

Reported: Project Name: 12/05/2014 DOS ABRELOS

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

12/01/2014

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Amanda Ponce

Sample ID: S3-6" (H403665-03)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/02/2014	ND	1.85	92.4	2.00	3.28	
Toluene*	0.218	0.200	12/02/2014	ND	1.82	91.1	2.00	2.76	
Ethylbenzene*	3.55	0,200	12/02/2014	ND	1,72	85.8	2.00	4.19	
Total Xylenes*	8.22	0.600	12/02/2014	ND	5.23	87.2	6.00	4.56	
Total BTEX	12.0	1,20	12/02/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 9	% 61-154							
TPH 8015M	mg/	'kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	375	50.0	12/01/2014	ND	194	97.1	200	3.40	
DRO >C10-C28	7410	50.0	12/01/2014	ND	193	96.6	200	4.16	
Surrogate: 1-Chlorooctane	213 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	237 9	% 52.1-170	5						

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COG OPERATING **GARRETT MERKET** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/01/2014

Reported:

12/05/2014

Project Name:

DOS ABRELOS NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

12/01/2014

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Amanda Ponce

Sample ID: S4-6" (H403665-04)

BTEX 8021B	mg,	kg	Anaiyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 61-154	ı			-			
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/01/2014	ND	194	97.1	200	3.40	
DRO >C10-C28	967	10.0	12/01/2014	ND	193	96.6	200	4.16	
Surrogate: 1-Chlorooctane	126 9	% 47.2-15	7			i en			13
Surrogate: 1-Chlorooctadecane	162 9	6 52.1-17	6						

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*=Accredited Analyte

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Celeg D. Kreene-





COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/01/2014

Reported:

12/05/2014

Project Name: Project Number: Project Location: DOS ABRELOS NONE GIVEN NOT GIVEN

Sampling Condition:

Sampling Date:

Sampling Type:

12/01/2014

2011

** (See Notes)

Sali

Sample Received By: Amanda Ponce

Sample ID: S5-6" (H403665-05)

BTEX 8021B

mg/kg

Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID

99.5 %

61-154

TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/01/2014	ND	194	97.1	200	3.40	
DRO >C10-C28	237	10.0	12/01/2014	ND	193	96.6	200	4.16	

Surrogate: 1-Chlorooctane

114%

47.2-157

Surrogate: 1-Chlorooctadecane

141%

52.1-176

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kuna





Notes and Definitions

S-06
The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: /Zexamos		BILL TO	ANALYSIS REQUEST
Project Manager: Land Maket	P.O. #:		
Address:	Company:	any:	
City: Addis State: NM	Zip: 88210 Attn:		
Phone #: 432-234-0590 Fax #:	Address:	SS	
Project #: Project Owner:	er: City:		
Project Name: Des Abreles	State:	Zip:	
	Phone #:	**	
Sampler Name:	Fax #:		
	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE:	OTHER: DATE TIME	TO Frank
12-6"	×	x 12/1/11:20	X
2 52-61"	9	X IN/W I Jo	X X
2 22 - 28	7	12/M 1:26 ×	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
4 34-611	4	X 121/14 1:20 >	×
\$ 58-6"	×	V 12/1/41 V	× ×
PLEASE NOTE: Liability and Demages. Cardmat's labelity and clere's exclusive remedy for any clean greatly wrether based in contract or lot, shall be limited to the amount paid by the clean for the analyses. All during orbitating those for negligence and any other cause whatopever shall be deemed we'ved unless made in writing and received by Cardmal within 30 days after completion of the applicable service, in no event shall Cardmal be liable for incoderual or consequental damages, including without innotion business interruptions loss of use or loss of profess incurred by clerif, its subsidiaries.	y far any claim arising wwether based in contract or fort. In all the deemed waived unities made in writing and sociewed such as when a measure business interruptions loss of use	rall be immed to the amount pard by the clien toy Cardinal within 30 days after completion e or loss of profes incurred by others, as each	for the applicable dates.
Relinquished By: Date: Received By:	Received By:	Phone Result:	Result:
Medet		REMARKS	KS: you dot a combo.com
prelinquished by:	Mercelyed by.	のちにきん	5

Sample Condition
Cool Intact
Over Yes
No No

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Refinquished By:

Time:

a trijille condre. com

geams and concho.com

[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326