

# HOBBS OCD

JUN 20 2012

District I  
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

RECEIVED Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit a copy to appropriate District Office in accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	GeoSurveys, Inc.	Contact	Calvin Donaghey
Address	218 South Leggett, Abilene TX 79605	Telephone No.	325-676-8063
Facility Name	Mesa 26 State #1	Facility Type	Well location
Surface Owner	State	Mineral Owner	State
		APINo.	30-041-20924

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	26	2N	29E	1400	South	1100	West	Roosevelt

Latitude  $34^{\circ} 21.948'N$  Longitude  $103^{\circ} 52.508'W$

### NATURE OF RELEASE

Type of Release	Drilling Fluid	Volume of Release	2Bbl est	Volume Recovered	-
Source of Release	Pit	Date and Hour of Occurrence ?		Date and Hour of Discovery	6-12-12
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mr. Leking		12:50pm
By Whom?	Steve Castille	Date and Hour	6-12-12 1:00pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

GW@90'

Describe Cause of Problem and Remedial Action Taken.\*

Pit liner leaked. Dug down 5' and 7' as directed, found clean dirt.  
Delivered samples to Cardinal Labs. Samples passed, delivered same to OCD.

Describe Area Affected and Cleanup Action Taken.\*

Area under pit liner. Preparing to set in 40 mil liner as directed to begin filling in.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Calvin Donaghey</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Calvin Donaghey	Approved by Environmental Specialist: <i>Jeff Leking</i>	
Title: President	Approval Date: 6/20/12	Expiration Date: 8/20/12
E-mail Address: gsurveys@bitstreet.com	Conditions of Approval: SUBMIT FINAL C-141 UPON COMPLETION OF CLOSURE	
Date: 6-20-2012 Phone: 325-669-2793	Attached <input type="checkbox"/> IRR-6-12-2826	

\* Attach Additional Sheets If Necessary

ALTWITHS.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 20, 2012

STEVE CASTILLE

GEO SURVEYS, INC.

218 SOUTH LEGGETT

ABILENE, TX 79605

**HOBBS OCD**

**JUN 21 2012**

**RECEIVED**

**HOBBS OCD**

**JUN 21 2012**

**RECEIVED**

**HOBBS OCD**

**JUN 21 2012**

**RECEIVED**

RE: MESA 26 STATE #1 PIT CLOSURE

Enclosed are the results of analyses for samples received by the laboratory on 06/19/12 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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.

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



**Analytical Results For:**

GEO SURVEYS, INC.  
STEVE CASTILLE  
218 SOUTH LEGGETT  
ABILENE TX, 79605  
Fax To: (325) 676-9426

Received: 06/19/2012  
Reported: 06/20/2012  
Project Name: MESA 26 STATE #1 PIT CLOSURE  
Project Number: NONE GIVEN  
Project Location: MESA 26 STATE #1

Sampling Date: 06/19/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: E-1 (H201393-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/20/2012	ND	368	92.0	400	4.26	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2012	ND	180	90.1	200	2.33	
DRO >C10-C28	<10.0	10.0	06/19/2012	ND	185	92.7	200	2.72	
Surrogate: 1-Chlorooctane		81.0 %	65.2-140						
Surrogate: 1-Chlorooctadecane		93.4 %	63.6-154						

**Sample ID: W-1 (H201393-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/20/2012	ND	368	92.0	400	4.26	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2012	ND	180	90.1	200	2.33	
DRO >C10-C28	<10.0	10.0	06/19/2012	ND	185	92.7	200	2.72	
Surrogate: 1-Chlorooctane	96.5 %	65.2-140							
Surrogate: 1-Chlorooctadecane	113 %	63.6-154							

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the 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 Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

GEO SURVEYS, INC.  
STEVE CASTILLE  
218 SOUTH LEGGETT  
ABILENE TX, 79605  
Fax To: (325) 676-9426

Received: 06/19/2012  
Reported: 06/20/2012  
Project Name: MESA 26 STATE #1 PIT CLOSURE  
Project Number: NONE GIVEN  
Project Location: MESA 26 STATE #1

Sampling Date: 06/19/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: C-1 (H201393-03)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	06/20/2012	ND	368	92.0	400	4.26	

**TPH 8015M****mg/kg****Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2012	ND	180	90.1	200	2.33	
DRO >C10-C28	<10.0	10.0	06/19/2012	ND	185	92.7	200	2.72	

Surrogate: 1-Chlorooctane 94.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

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

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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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<b>Relinquished By:</b> <i>Stop. White</i>		<b>Date:</b> <i>6-19-12</i>		<b>Received By:</b> <i>Jodi Benson</i>		<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> _____	
<b>Relinquished By:</b>		<b>Time:</b> <i>2:55</i>		<b>Received By:</b>		<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> _____	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Date:</b>		<b>Time:</b>		<b>REMARKS:</b> <div style="font-size: 1.2em; text-align: center;"> <i>RUSH!!</i>  <i>+ email</i> </div>	
		<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>		<b>CHECKED BY:</b> (Initials) <i>GR</i>		<i>325-668-2638 Verbaals</i>	



District I  
1625 N. French Dr., Hobbs, NM 88240  
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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

HOBBS OCD

AUG 10 2012

RECEIVED

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company	GeoSurveys, Inc.	Contact	Calvin Donaghey
Address	218 South Leggett, Abilene, TX 79605	Telephone No.	325-676-8063
Facility Name	Mesa 26 State #1	Facility Type	Well Location
Surface Owner	State	Mineral Owner	State
		API No.	30-041-20924

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	26	2N	29E	1400	South	1100	West	Roosevelt

Latitude 34° 21.948' N Longitude 103° 52.508' W

**NATURE OF RELEASE**

Type of Release	Drilling Fluid	Volume of Release	2 Bbls est	Volume Recovered	-
Source of Release	Pit	Date and Hour of Occurrence ?		Date and Hour of Discovery	6-12-12
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	12:50pm		
By Whom?	Steve Castille	Date and Hour	1:00pm 6-12-12		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Pit Liner leaked - See attached sheet.

Describe Area Affected and Cleanup Action Taken.\*

Area under liner - see attached sheet.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

**OIL CONSERVATION DIVISION**

Signature: <i>Calvin Donaghey</i>	Approved by Environmental Specialist:		
Printed Name: Calvin Donaghey	Approval Date:	Expiration Date:	
Title: President	Conditions of Approval:		Attached <input type="checkbox"/>
E-mail Address: gsurveys@bitstreet.com			
Date: 8-6-2012	Phone: 325-676-8063		

\* Attach Additional Sheets If Necessary



FORM C-141

Cause of Problem and Remedial Action Taken:

Pit Liner leaked. Dug down 5' and 7' as directed by Mr. Leking and found clean soil at 7' level. Samples passed at Cardinal Labs.

Area Affected and Cleanup Action Taken:

Area under liner was affected.

Set in 2' of sand across bottom of pit. Laid in 40 mil liner across pit and up onto sides as directed. Covered liner with 2' of sand across entire liner. Cleaned location of caliche and place into pit up to a level 2.5' below grade. Place 3' of topsoil above caliche to .5' above grade. Spread remaining topsoil across location as directed.

7-24-2012 Parkhill Construction seeded location with 74.67 lbs of seed mix recommended by Eric Nelson of Clovis. A standard tiller was used to seed the area, which covered slightly less than 3 acres.



HOBBS OCD

AUG 10 2012

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

RECEIVED

June 15, 2012

STEVE CASTILLE

GEO SURVEYS, INC.

218 SOUTH LEGGETT

ABILENE, TX 79605

RE: MESA 26 STATE #1 PIT CLOSURE

Enclosed are the results of analyses for samples received by the laboratory on 06/13/12 17:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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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.

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,

Caley D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 GEO SURVEYS, INC.  
 STEVE CASTILLE  
 218 SOUTH LEGGETT  
 ABILENE TX, 79605  
 Fax To: (325) 676-9426

 Received: 06/13/2012  
 Reported: 06/15/2012  
 Project Name: MESA 26 STATE #1 PIT CLOSURE  
 Project Number: NONE GIVEN  
 Project Location: MESA 26 STATE #1

 Sampling Date: 06/13/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BACKGROUND 1 (H201337-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/14/2012	ND	416	104	400	3.77		

**Sample ID: NE 2 (5') (H201337-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	06/14/2012	ND	416	104	400	3.77		

**Sample ID: NE 2 (7') (H201337-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/15/2012	ND	416	104	400	3.77		


**Sample ID: SW 5 (5') (H201337-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/14/2012	ND	416	104	400	3.77		

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: GEO SURVEYS INC.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: STEVE CASTILLE		P.O. #:		<div style="writing-mode: vertical-rl; transform: rotate(180deg);">             DPH 4180 CL-           </div>																							
Address: 218 SOUTH LOGGITT		Company: GEO SURVEYS INC.																									
City: ABILENE TX State: TX Zip: 79605		Attn: CALVIN DOMAGARY																									
Phone #: 325-676-8063 Fax #:		Address: 218 5TH LOGGITT																									
Project #:		City: ABILENE TX																									
Project Owner:		State: TX Zip: 79605																									
Project Name: MESA 26 STATE 1 PIT CLOSURE		Phone #: 325-676-8063																									
Project Location: MESA 26 STATE 1 ROOSEVELT CTRY NM		Fax #: 325-676-8426																									
Sampler Name: STEVE CASTILLE																											
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING																	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME													
H201337	-1 Background 1	6	1										6/13/12	11:45	✓												
	2 Background 2	1	1											11:50													
	3 NE 2 (5')	1	1											11:20	✓												
	4 NE 2 (7')	1	1											11:50													
	5 SW 5 (5')	1	1											11:55	✓												
	6 SW 5 (7')	1	1											11:57													

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Relinquished By:	Date: 6/13/12	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Steve Castille</i>	Time: 3:20	<i>Jodi Henson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		325-668-2638	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	<i>medicinesbow2@yahoo.com</i> <i>PLUSH!!</i>	
Sampler - UPS - Bus - Other:	Cool / Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials)		

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



June 12, 2012

STEVE CASTILLE  
GEO SURVEYS, INC.  
218 SOUTH LEGGETT  
ABILENE, TX 79605

RE: MESA 26 STATE #1 PIT CLOSURE

Enclosed are the results of analyses for samples received by the laboratory on 06/07/12 15:00.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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Sincerely,



Celey D. Keene  
Lab Director/Quality Manager



**Analytical Results For:**

 GEO SURVEYS, INC.  
 STEVE CASTILLE  
 218 SOUTH LEGGETT  
 ABILENE TX, 79605  
 Fax To: (325) 676-9426

 Received: 06/07/2012  
 Reported: 06/12/2012  
 Project Name: MESA 26 STATE #1 PIT CLOSURE  
 Project Number: NONE GIVEN  
 Project Location: MESA 26 STATE #1

 Sampling Date: 06/07/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SE 1 (H201288-01)**

BTEX 8021B		mg/kg	Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	<0.050	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	<0.150	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	06/08/2012	ND	400	100	400	0.00	
TPH 418.1		mg/kg	Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	118	100	06/11/2012	ND	2620	105	2500	7.34	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2012	ND	179	89.5	200	2.34	
DRO >C10-C28	<10.0	10.0	06/08/2012	ND	184	91.8	200	9.04	

Surrogate: 1-Chlorooctane 96.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 GEO SURVEYS, INC.  
 STEVE CASTILLE  
 218 SOUTH LEGGETT  
 ABILENE TX, 79605  
 Fax To: (325) 676-9426

 Received: 06/07/2012  
 Reported: 06/12/2012  
 Project Name: MESA 26 STATE #1 PIT CLOSURE  
 Project Number: NONE GIVEN  
 Project Location: MESA 26 STATE #1

 Sampling Date: 06/07/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NE 2 (H201288-02)**

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84		
Toluene*	<0.050	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10		
Total Xylenes*	<0.150	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57		

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11600	16.0	06/08/2012	ND	400	100	400	0.00		
TPH 418.1	mg/kg		Analyzed By: AM							

TPH 418.1		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	115	100	06/11/2012	ND	2620	105	2500	7.34	
TPH 8015M		mg/kg		Analyzed By: MS					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2012	ND	179	89.5	200	2.34	
DRO >C10-C28	<10.0	10.0	06/08/2012	ND	184	91.8	200	9.04	

Surrogate: 1-Chlorooctane 93.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

GEO SURVEYS, INC.  
STEVE CASTILLE  
218 SOUTH LEGGETT  
ABILENE TX, 79605  
Fax To: (325) 676-9426

Received: 06/07/2012  
Reported: 06/12/2012  
Project Name: MESA 26 STATE #1 PIT CLOSURE  
Project Number: NONE GIVEN  
Project Location: MESA 26 STATE #1

Sampling Date: 06/07/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: C 3 (H201288-03)**

BTX 80218		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	<0.050	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	<0.150	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	06/08/2012	ND	400	100	400	0.00	
TPH 418.1	mg/kg Analyzed By: AM								
TPH 418.1	102	100	06/11/2012	ND	2620	105	2500	7.34	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2012	ND	179	89.5	200	2.34	
DRO >C10-C28	<10.0	10.0	06/08/2012	ND	184	91.8	200	9.04	

Surrogate: 1-Chlorooctane 98.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

GEO SURVEYS, INC.  
STEVE CASTILLE  
218 SOUTH LEGGETT  
ABILENE TX, 79605  
Fax To: (325) 676-9426

Received: 06/07/2012  
Reported: 06/12/2012  
Project Name: MESA 26 STATE #1 PIT CLOSURE  
Project Number: NONE GIVEN  
Project Location: MESA 26 STATE #1

Sampling Date: 06/07/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: NW 4 (H201288-04)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84		
Toluene*	<0.050	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10		
Total Xylenes*	<0.150	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57		

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	06/08/2012	ND	400	100	400	0.00		
TPH 418.1		mg/kg		Analyzed By: AM						

Surrogate: 1-Chlorooctane 89.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

GEO SURVEYS, INC.  
STEVE CASTILLE  
218 SOUTH LEGGETT  
ABILENE TX, 79605  
Fax To: (325) 676-9426

Received:	06/07/2012	Sampling Date:	06/07/2012
Reported:	06/12/2012	Sampling Type:	Soil
Project Name:	MESA 26 STATE #1 PIT CLOSURE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MESA 26 STATE #1		

**Sample ID: SW 5 (H201288-05)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84		
Toluene*	<0.050	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65		
Ethylbenzene*	<0.050	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10		
Total Xylenes*	<0.150	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57		

Surrogate: 4-Bromofluorobenzene (PIB) 99.0 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13800	16.0	06/08/2012	ND	400	100	400	0.00		
TPH 418.1		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	194	100	06/11/2012	ND	2620	105	2500	7.34		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/08/2012	ND	179	89.5	200	2.34		
DRO >C10-C28	<10.0	10.0	06/08/2012	ND	184	91.8	200	9.04		

Surrogate: 1-Chlorooctane 88.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: GEO SURVEYS, INC.		Project Manager:		Address: 218 SOUTH LEGGETT		City: ABILENE		State: TX Zip: 79605		Phone #: 325-676-8063		Fax #: 325-676-9426		Project #:		Project Owner:		Project Name: MCSA 26 STATE #1 PIT CLOSURE		Project Location: MCSA 26 STATE #1		Sampler Name: STEVE CASTILLE																	
BILL TO		P.O. #:		Company: GEO SURVEYS, INC.		Attn: CALVIN DONAGHEY		Address: 218 S. LEGGETT		City: ABILENE		State: TX Zip: 79605		Phone #: 325-676-8063		Fax #: 325-676-9426		ANALYSIS REQUEST																					
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		GRAB OR (COMPI)		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE/COOL		OTHER:		DATE		TIME		TPH 418.1		TPH 8015		BTEX		CL-	
H201288		1 SE 1		1		1		1		1		1		1		1		1		1		1		1		1		6/7/12		10:30		✓		✓		✓		✓	
		2 NE 2		2		1		1		1		1		1		1		1		1		1		1		1		10:35		✓		✓		✓		✓			
		3 C 3		3		1		1		1		1		1		1		1		1		1		1		1		10:40		✓		✓		✓		✓			
		4 NW 4		4		1		1		1		1		1		1		1		1		1		1		1		10:45		✓		✓		✓		✓			
		5 SW 5		5		1		1		1		1		1		1		1		1		1		1		1		10:55		✓		✓		✓		✓			

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Relinquished By: <i>[Signature]</i> Relinquished By: _____ Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____				Date: <i>6/7/12</i> Time: <i>3:00</i> Date: _____ Time: _____		Received By: <i>Jodi Henson</i> Received By: _____ Sample Condition Cool <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: <i>[Signature]</i> (Initials)	
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: <i>medicinebow2@yahoo.com</i> <i>325-668-2638</i> <i>Steve</i>				Add'l Phone #: _____ Add'l Fax #: _____					



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 20, 2012

STEVE CASTILLE  
GEO SURVEYS, INC.  
218 SOUTH LEGGETT  
ABILENE, TX 79605

RE: MESA 26 STATE #1 PIT CLOSURE

Enclosed are the results of analyses for samples received by the laboratory on 06/19/12 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



**Analytical Results For:**

 GEO SURVEYS, INC.  
 STEVE CASTILLE  
 218 SOUTH LEGGETT  
 ABILENE TX, 79605  
 Fax To: (325) 676-9426

 Received: 06/19/2012  
 Reported: 06/20/2012  
 Project Name: MESA 26 STATE #1 PIT CLOSURE  
 Project Number: NONE GIVEN  
 Project Location: MESA 26 STATE #1

 Sampling Date: 06/19/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: E-1 (H201393-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/20/2012	ND	368	92.0	400	4.26	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2012	ND	180	90.1	200	2.33	
DRO >C10-C28	<10.0	10.0	06/19/2012	ND	185	92.7	200	2.72	
Surrogate: 1-Chlorooctane		81.0 %	65.2-140						
Surrogate: 1-Chlorooctadecane		93.4 %	63.6-154						

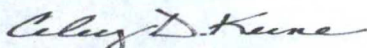
**Sample ID: W-1 (H201393-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/20/2012	ND	368	92.0	400	4.26	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2012	ND	180	90.1	200	2.33	
DRO >C10-C28	<10.0	10.0	06/19/2012	ND	185	92.7	200	2.72	
Surrogate: 1-Chlorooctane		96.5 %	65.2-140						
Surrogate: 1-Chlorooctadecane		113 %	63.6-154						

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

GEO SURVEYS, INC.  
STEVE CASTILLE  
218 SOUTH LEGGETT  
ABILENE TX, 79605  
Fax To: (325) 676-9426

Received: 06/19/2012  
Reported: 06/20/2012  
Project Name: MESA 26 STATE #1 PIT CLOSURE  
Project Number: NONE GIVEN  
Project Location: MESA 26 STATE #1

Sampling Date: 06/19/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

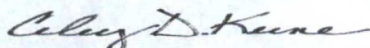
**Sample ID: C-1 (H201393-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/20/2012	ND	368	92.0	400	4.26	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2012	ND	180	90.1	200	2.33	
DRO >C10-C28	<10.0	10.0	06/19/2012	ND	185	92.7	200	2.72	
Surrogate: 1-Chlorooctane		94.0 %	65.2-140						
Surrogate: 1-Chlorooctadecane		109 %	63.6-154						

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

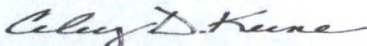
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>GEO SURVEYS</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: <b>STEVE CASTILLE</b>		P.O. #:													
Address: <b>218 SOUTH LEGGETT</b>		Company: <b>GEO SURVEYS</b>													
City: <b>ALBUQUERQUE</b>		Attn:													
Phone #: <b>325-676-8063</b>		Address: <b>218 SOUTH LEGGETT</b>													
State: <b>NM</b>		City: <b>ALBUQUERQUE</b>													
Zip: <b>87106</b>		State: <b>NM</b>													
Project #: <b>218</b>		Phone #: <b>325-676-8063</b>													
Project Name: <b>MESA 26 STATE #1 PIT CLOSURE</b>		Fax #: <b>325-676-8063</b>													
Project Location: <b>STEVE CASTILLE</b>		Project Owner: <b>STEVE CASTILLE</b>													
Sampler Name: <b>STEVE CASTILLE</b>		Fax #: <b>325-676-8063</b>													
FOR LAB USE ONLY															
Lab I.D.		Sample I.D.													
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Relinquished By: <b>Steve Castille</b>	Date: <b>6-19-12</b>	Received By: <b>Debbie Benson</b>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <b>325-668-2638</b>
Relinquished By: <b>Steve Castille</b>	Time: <b>2:55</b>	Received By: <b>Debbie Benson</b>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: <b>325-668-2638</b>
Delivered By: (Circle One)	Date: <b>6-19-12</b>	Time: <b>2:55</b>	REMARKS: <b>WASH! &amp; email</b>	
Sampler - UPS - Bus - Other:	Date: <b>6-19-12</b>	Time: <b>2:55</b>	REMARKS: <b>325-668-2638</b>	
Sample Condition	Date: <b>6-19-12</b>	Time: <b>2:55</b>	REMARKS: <b>325-668-2638</b>	
Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Date: <b>6-19-12</b>	Time: <b>2:55</b>	REMARKS: <b>325-668-2638</b>	
Yes <input type="checkbox"/> No <input type="checkbox"/>	Date: <b>6-19-12</b>	Time: <b>2:55</b>	REMARKS: <b>325-668-2638</b>	
Checked By: <b>Debbie Benson</b>	Date: <b>6-19-12</b>	Time: <b>2:55</b>	REMARKS: <b>325-668-2638</b>	
Initials: <b>DB</b>	Date: <b>6-19-12</b>	Time: <b>2:55</b>	REMARKS: <b>325-668-2638</b>	
Sample Condition	Date: <b>6-19-12</b>	Time: <b>2:55</b>	REMARKS: <b>325-668-2638</b>	
Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Date: <b>6-19-12</b>	Time: <b>2:55</b>	REMARKS: <b>325-668-2638</b>	
Yes <input type="checkbox"/> No <input type="checkbox"/>	Date: <b>6-19-12</b>	Time: <b>2:55</b>	REMARKS: <b>325-668-2638</b>	



**Calvin W. Donaghey**

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**From:** Steve Castille <medicinebow2@yahoo.com>  
**Sent:** Tuesday, August 07, 2012 10:51 AM  
**To:** calvin  
**Subject:** Fw: MESA 26 STATE #1 6-7-12

HOBBS OCD  
AUG 10 2012  
RECEIVED

----- Forwarded Message -----

**From:** Steve Castille <[medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)>  
**To:** calvin <[gsurveys@bitstreet.com](mailto:gsurveys@bitstreet.com)>  
**Cc:** [medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)  
**Sent:** Friday, June 8, 2012 9:17 AM  
**Subject:** MESA 26 STATE #1 6-7-12

MESA 26 STATE #1 6-7-12

GANDY OPERATOR ON LOCATION @ 8:30. PULLED UP WELL ANCHORS AND DID TOUCHUP WORK ON PAD. ENVIRO SPECIALIST GEOFFREY LEKING ON LOCATION @ 10AM. ADVISED TO TAKE 5 SOIL SAMPLES FROM PIT FLOOR IN 5 POINT PATTERN. MR LEKING WITNESSED AND PHOTOGRAPHED THE SAMPLING PROCESS. SAMPLES GATHERED LABELED AND PACKED IN ICE BY GEO SURVEYS REP STEVE CASTILLE. FILLED OUT THE CHAIN OF CUSTODY FORM AND DELIVERED THE SAMPLES TO CARDINAL LAB IN HOBBS NM. THE SAMPLES WILL BE TESTED FOR BTEX, CL AND FOR TPH USING METHODS 418.1 AND 8015 FOR GRO AND DRO. RESULTS WILL BE E MAILED ON MONDAY OR TUESDAY. CALLED GANDY FOR SCHEDULING. ADVISED THAT THEIR OPERATOR WILL NOT BE AVAILABLE FOR WORK MONDAY SO WE ARE TENTATIVE FOR TUESDAY AT THIS TIME DEPENDANT ON LAB RESULTS.

## Calvin W. Donaghey

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**From:** Steve Castille <medicinebow2@yahoo.com>  
**Sent:** Tuesday, August 07, 2012 10:54 AM  
**To:** calvin  
**Subject:** Fw: MESA 26 STATE #1 6-12-12

----- Forwarded Message -----

**From:** Steve Castille <[medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)>  
**To:** calvin <[gsurveys@bitstreet.com](mailto:gsurveys@bitstreet.com)>  
**Cc:** [medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)  
**Sent:** Thursday, June 14, 2012 8:26 AM  
**Subject:** MESA 26 STATE #1 6-12-12

MESA 26 STATE #1 6-12-12

RECIEVED RESULTS FROM CARDINAL LABS. SAMPLES FAILED ON HIGH CHOLORIDES. CALLED CALVIN TO DISCUSS RESULTS AND PLANS. CALLED GEOFF LEKING TO DISCUSS PROCEDURE. ADVISED TO DIG TEST TRENCHES IN PIT FLOOR AND TAKE NEXT SAMPLES @ 5' BELOW FLOOR LEVEL. AFTER DISCUSSION WITH CALVIN DONAGHEY WE WILL ALSO TAKE BACKGROUND SAMPLE. EMAILED RESULTS TO GEOSURVEYS,GEOFFREY LEKING AND SCOTT DAWSON. ADVISED BY LEKING THAT WE WILL HAVE 15 DAYS TO SUBMIT OCD FORM 141. CALLED GANDY PUSHER TO SEE IF HE COULD SEND A TEST KIT WITH HIS OPERATOR TO SAVE SOME TIME AND MILES. WILL RESUME FIELD OPERATIONS IN AM.



**Calvin W. Donaghey**

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**From:** Steve Castille <medicinebow2@yahoo.com>  
**Sent:** Tuesday, August 07, 2012 10:56 AM  
**To:** calvin  
**Subject:** Fw: MESA 26 STATE #1 6-13-12

----- Forwarded Message -----

**From:** Steve Castille <[medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)>  
**To:** calvin <[gsurveys@bitstreet.com](mailto:gsurveys@bitstreet.com)>  
**Cc:** [medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)  
**Sent:** Thursday, June 14, 2012 8:43 AM  
**Subject:** MESA 26 STATE #1 6-13-12

MESA 26 STATE #1 6-13-12

GANDY OPERATOR ON LOCATION 10 AM. DUG TRENCH EAST OF PAD. TOOK SIDWALL SAMPLES FROM 9' FS AND 11' FS. COVERED TRENCH. DUG TRENCH IN NE QUADRANT OF PIT. TOOK SAMPLES FROM 5' AND 7' BELOW FLOOR LEVEL. BUILT BERM AROUND TRENCH IN CASE OF RAIN. DUG ANOTHER TEST TRENCH IN SW QUADRANT. TOOK SAMPLES FROM 5' AND 7' BELOW FLOOR LEVEL. FILLED OUT CHAIN OF CUSTODY FORM TOOK PICTURES AND PACKED SAMPLES IN ICE. ADVISED GANDY OPERATOR TO START ROLLING UP CALICHE PAD. DELIVERED SAMPLES TO CARDINAL LABS IN HOBBS. WILL HAVE RESULTS SOME TIME TOMORROW. NOTE THIS TEST WILL BE FOR CHLORIDES ONLY.

**Calvin W. Donaghey**

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**From:** Steve Castille <medicinebow2@yahoo.com>  
**Sent:** Tuesday, August 07, 2012 10:57 AM  
**To:** calvin  
**Subject:** Fw: MESA 26 STATE 1 6-14-12

----- Forwarded Message -----

**From:** Steve Castille <[medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)>  
**To:** calvin <[gsurveys@bitstreet.com](mailto:gsurveys@bitstreet.com)>  
**Cc:** [medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)  
**Sent:** Friday, June 15, 2012 8:35 AM  
**Subject:** MESA 26 STATE 1 6-14-12

MESA 26 STATE 1 6-14-12

CHECKED WITH LAB IN HOBBS ABOUT SAMPLE RESULTS. THEY WILL UPDATE US WHEN THEY HAVE THEM READY. MET GANDY PUSHER KYLE BECKNELL IN LOVINGTON. DISCUSSED SCHEDULE WITH HIM. OPERATOR ON STANDBY AT THIS TIME. TRAVEL BACK TO CLOVIS TO AWAIT LAB REPORT. RECIEVED RESULTS. CHLORIDES OK ON BACKGROUND AND SW SIDE. NE 2 (5') @1840PPM. ADVISED LAB TO RUN SAMPLE ON NE 2 (7'). THEY WILL HAVE RESULTS IN AM. CALLED CALVIN TO DISCUSS RESULTS.



**Calvin W. Donaghey**

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**From:** Steve Castille <medicinebow2@yahoo.com>  
**Sent:** Tuesday, August 07, 2012 10:58 AM  
**To:** calvin  
**Subject:** Fw: MESA 26 STATE 1 6-15-12

----- Forwarded Message -----

**From:** Steve Castille <[medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)>  
**To:** calvin <[gsurveys@bitstreet.com](mailto:gsurveys@bitstreet.com)>  
**Cc:** [medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)  
**Sent:** Monday, June 18, 2012 8:57 AM  
**Subject:** MESA 26 STATE 1 6-15-12

MESA 26 STATE 1 6-15-12

ROAD TO LOCATION. STANDBY TO AWAIT RESULTS FROM LAB AND TO TAKE ADDITIONAL SAMPLES IF NEEDED. RESULTS CAME IN OK. SHUT DOWN. CALL GEOFF LEKING TO DISCUSS PROCEDURE. LEFT MESSAGE. EMAIL RESULTS TO OCD AND GEOSURVEYS.

**Calvin W. Donaghey**

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**From:** Steve Castille <medicinebow2@yahoo.com>  
**Sent:** Tuesday, August 07, 2012 11:00 AM  
**To:** calvin  
**Subject:** Fw: MESA 26 STATE 1 6-18-12

----- Forwarded Message -----

**From:** Steve Castille <[medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)>  
**To:** calvin <[gsurveys@bitstreet.com](mailto:gsurveys@bitstreet.com)>  
**Cc:** [medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)  
**Sent:** Wednesday, June 20, 2012 8:53 AM  
**Subject:** MESA 26 STATE 1 6-18-12

MESA 26 STATE 1 6-18-12

SPOKE WITH GEOFF LEKING ABOUT TEST RESULTS ON SOIL SAMPLES. ADVISED TO INSTALL 40 MIL LINER IN PIT AND START BACKFILL. MUST TEST SAMPLES FROM CALICHE PAD FOR TPH AND CHLORIDES. MET CALVIN AND TONY AT GEO SURVEYS OFFICE TO DISCUSS JOB PLAN. CALLED GANDY AND AKOME TO LINE UP JOB FOR AM. CALVIN STARTED PROCESSING FORM C141.



**Calvin W. Donaghey**

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**From:** medicinebow2@yahoo.com  
**Sent:** Tuesday, August 07, 2012 4:57 PM  
**To:** Calvin Donaghey  
**Subject:** Fwd: EXPLANATION OF SAMPLE ANALYSIS MESA 26 STATE FORM C-144

Sent from my iPhone

Begin forwarded message:

**From:** Steve Castille <[medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)>  
**Date:** August 7, 2012 11:34:53 AM CDT  
**To:** calvin <[gsurveys@bitstreet.com](mailto:gsurveys@bitstreet.com)>  
**Cc:** "[medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)" <[medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)>  
**Subject:** EXPLANATION OF SAMPLE ANALYSIS MESA 26 STATE FORM C-144  
**Reply-To:** Steve Castille <[medicinebow2@yahoo.com](mailto:medicinebow2@yahoo.com)>

WE ARE ENCLOSING LAB RESULTS AND A DAILY REPORT ON THE SAMPLING PROCESS SO YOU WILL HAVE THE INFORMATION ON HOW AND WHERE THE SAMPLES WERE TAKEN. ON 6-18-12 THE PROCESS WAS COMPLETE AND WE WERE ADVISED BY ENVIRONMENTAL SPECIALIST GEOFF LEKING TO INSTALL A 40 MIL LINER AND START THE BACKFILL PROCESS.

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