



DELINEATION WORKPLAN

OXY – GETTY 24 FEDERAL #11 CTB (Leak Date: 1/8/17)

**RP # 2rp-4093
API # 30-015-31162**

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4093.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 will be excavated to a depth of 5 feet. The leak area near SP2 will be excavated to a depth of 3.5 feet.









The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Oxy, Getty 24 Federal #11 CTB

Leak Date: 01/08/2017, 2RP-4093, API # 30-015-31162

Legend

-  East Sample
-  Sample points, Hand auger
-  Leak Point
-  North Sample
-  South Sample
-  Spill Area, 3.5' Excavation
-  Spill Area, 5' Excavation
-  West Sample

North Sample
East Sample
West Sample
SP2
Leak Point
SP1
South Sample

Google Earth

© 2016 Google

80 ft



Oxy, Getty 24 Federal #11 CTB

Sample points, Hand auger

SP1, GPS POINT: N 32.37570 W-103.72615

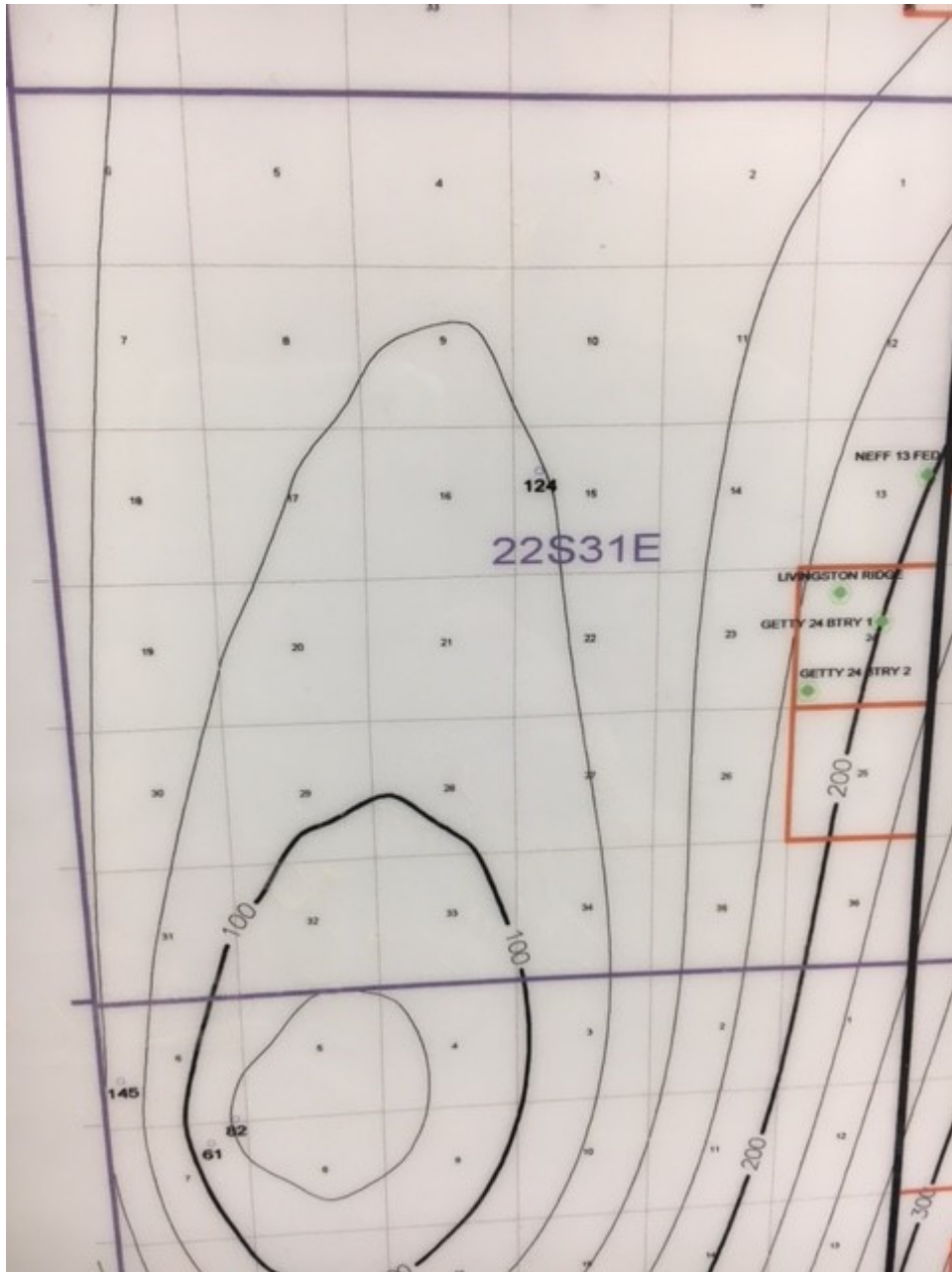
SP2, GPS POINT: N 32.37575 W-103.72615

NORTH SAMPLE, GPS POINT: N 32.37577 W-103.72615

SOUTH SAMPLE, GPS POINT: N 32.37569 W-103.72614

EAST SAMPLE, GPS POINT: N 32.37575 W-103.72613

WEST SAMPLE, GPS POINT: N 32.37573 W-103.72617





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02939		C	LE	3	3	1	19	22S	32E	620234	3583042*	<input type="text"/>	425	280	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 619937

Northing (Y): 3582737

Radius: 1700

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/9/17 11:12 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS)

Q64:Q16: NEQ4: SESec: 24Tws: 22SRng: 31E

State Plane Coordinate System - NAD27

X:ftY:ftZone:

State Plane Coordinate System - NAD83

X:ftY:ftZone:

Degrees/Minutes/Seconds

Longitude (X):Degrees: °Minutes: 'Seconds: "

Latitude (Y):Degrees: °Minutes: 'Seconds: "

UTM - NAD27

Easting (X):mtrs Northing (Y):mtrs Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X):619937.0mtrsNorthing (Y):3582737.0mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~



Groundwater Plot

Oxy Getty 24 Federal #11 CTB

County
Eddy

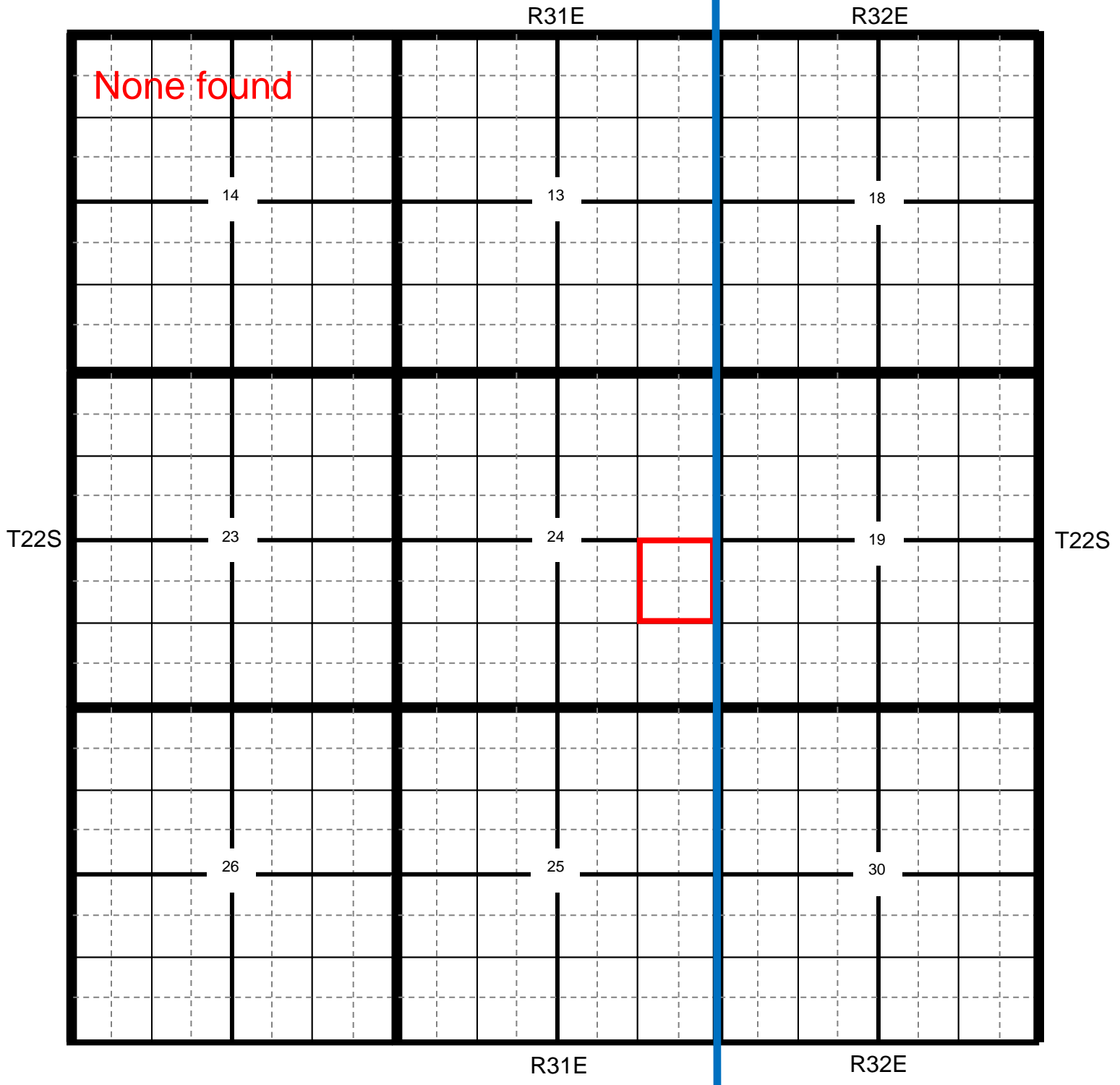
Unit Letter
I

Section
24

Township
22S

Range
31E

Trend Map 200'



★ Location

● OCD

● USGS

● SEO

● All Databases

Oxy Getty 24 Federal #11 CTB

County	Unit Letter	Section	Township	Range
Eddy	I	24	22S	31E

Trend Map 200'

1

2

NW/NW None found Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE Unit Letter P

3

4

**Laboratory Analytical Results Summary
Getty 24 Federal #11 CTB**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 8'
Analyte	Method	Date	1/26/17	1/26/17	1/26/17	1/26/17	1/26/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		13200	13200	2480	272	32

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'	SP2 @ 8'
Analyte	Method	Date	1/26/17	1/26/17	1/26/17	1/26/17	1/26/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		12800	7730	848	272	48

		Sample	NORTH @ SURFACE
Analyte	Method	Date	1/26/17
			mg/Kg
Chloride	SM4500Cl-B		16

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	1/26/17
			mg/Kg
Chloride	SM4500Cl-B		<16.0

		Sample	EAST @ SURFACE
Analyte	Method	Date	1/26/17
			mg/Kg
Chloride	SM4500Cl-B		<16.0

		Sample	WEST @ SURFACE
Analyte	Method	Date	1/26/17
			mg/Kg
Chloride	SM4500Cl-B		<16.0

February 09, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GETTY 24 FED #11

Enclosed are the results of analyses for samples received by the laboratory on 02/02/17 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 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:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 02/02/2017
Reported: 02/09/2017
Project Name: GETTY 24 FED #11
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brittany Feller

Sample ID: SP1 @ 1' (H700254-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13200	16.0	02/04/2017	ND	432	108	400	0.00	QM-07	

Sample ID: SP1 @ 3' (H700254-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13200	16.0	02/04/2017	ND	432	108	400	0.00		

Sample ID: SP1 @ 5' (H700254-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	02/04/2017	ND	432	108	400	0.00		

Sample ID: SP1 @ 7' (H700254-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/04/2017	ND	432	108	400	0.00		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 02/02/2017
Reported: 02/09/2017
Project Name: GETTY 24 FED #11
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/27/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brittany Feller

Sample ID: SP1 @ 8' (H700254-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/04/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 1' (H700254-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	02/04/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 3' (H700254-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	02/04/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 5' (H700254-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	02/04/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 7' (H700254-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/04/2017	ND	432	108	400	0.00	

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 02/02/2017
Reported: 02/09/2017
Project Name: GETTY 24 FED #11
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/27/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brittany Feller

Sample ID: SP2 @ 8' (H700254-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/04/2017	ND	432	108	400	0.00	

Sample ID: NORTH SAMPLE @ SURFACE (H700254-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/04/2017	ND	432	108	400	0.00	

Sample ID: SOUTH SAMPLE @ SURFACE (H700254-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/04/2017	ND	432	108	400	0.00	

Sample ID: EAST SAMPLE @ SURFACE (H700254-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2017	ND	432	108	400	0.00		

Sample ID: WEST SAMPLE @ SURFACE (H700254-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/04/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

BILL TO

ANALYSIS REQUEST

Project Manager: Cliff Brunson

P.O. #:

Address: P.O. Box 805

Company: Oxy

City: Hobbs

State: NM Zip: 88241

Attn: Casey Summers

Phone #: 575-397-6388

Fax #: 575-397-0397

Address:

Project #:

Project Owner: Oxy

City:

Project Name: GETTY 24 FEDERAL 11 CTB

State: Zip:

Project Location: Eddy County, NM

Phone #:

Sampler Name: ROGER HERNANDEZ

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H-100294

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

DATE

TIME

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TIME

DATE

TIME

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Relinquished By:

Date: 1/27/15

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date: 1/27/15

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Date: 1/27/15

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Sampler - UPS - Bus - Other:

Date: 1/27/15

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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

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

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	Oxy Permian Ltd.	Contact	Casey Summers
Address	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Getty 24 Federal #11 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-31162

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	24	22S	31E					Eddy County, NM

Latitude N 32.37579° Longitude W 103.72620°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	9 bbls	Volume Recovered	33 bbls, including addition tank water from picking the tank
Source of Release	Tank spill	Date and Hour of Occurrence	01/08/2017	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Crystal Weaver-NMOCD, Shelly Tucker-BLM		
By Whom?	Kathy Purvis @ BBC International Inc.	Date and Hour	01/10/2017 @ 4:47pm		
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.*

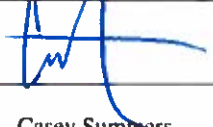
Describe Cause of Problem and Remedial Action Taken.*

A tank spill caused 9 bbls of produced water to leak out. A vacuum truck recovered 33 bbls of water including additional water from picking the tank.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 20' x 9' on location inside the berm. Remediation will be completed according to a remediation plan approved by NMOCD and the BLM

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:				<u>OIL CONSERVATION DIVISION</u>	
Printed Name:	Casey Summers	Approved by Environmental Specialist:			
Title:	NM Environmental Advisor	Approval Date:	Expiration Date:		
E-mail Address:	casey_summers@oxy.com	Conditions of Approval:			Attached <input type="checkbox"/>
Date:	1-24-17	Phone:	(575) 513-8289		

* Attach Additional Sheets If Necessary