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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company - OXY USA	Contact - Kelton Beaird
Address - 1502 W. Commerce	Telephone No. - (O) 575-628-4121 C) 575-390-1903
Facility Name - Bluitt 19 Fed #2	Facility Type - Tank Battery

Surface Owner BLM	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	19	8S	37E					Roosevelt

Latitude 33° 36.721' N Longitude 103° 05.180' W

NATURE OF RELEASE

Type of Release - Produced Water	Volume of Release – 30 bbls	Volume Recovered - 4 bbls
Source of Release - Tank Connection	Date and Hour of Occurrence	Date and Hour of Discovery 7-19-09 @ 11:00am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson (Left Message)	
By Whom? Rick Kerby (HES Specialist - Oxy)	Date and Hour See above	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* 2" connection on back of tank on the bottom was leaking causing PW to leak. Area affected was inside the dike and all standing fluid was picked up with a vac-truck. The site was delineated with a backhoe. The ranking criteria for this site is as follows: Surface Body of Water – 0 points; Wellhead Protection Area – 0 points; Groundwater Depth – 10 points (GW = 92'). The total ranking for the site is 10 points. RAL's for the site are Chloride – 250 ppm, TPH – 1,000 ppm and BTEX – 100 ppm (using field vapor headspace measurement). Attached are a plat map, field analytical and lab confirmations.

Describe Area Affected and Cleanup Action Taken.* Oxy USA proposes to leave all soil in place and remediate site when battery is abandoned because the impacted soils are minimal levels, groundwater is over 90' from bottom of impacted soil and the battery is an active site.

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:	OIL CONSERVATION DIVISION
Printed Name: Kelton Beaird	Approved by ~~District Supervisor~~: ENV. ENGINEER
Title: HES Specialist	Approval Date: 10/28/09 Expiration Date: 12/28/09
E-mail Address: kelton_beaird@oxy.com	Conditions of Approval: EXCAVATE A FOOT OF COVER MATERIAL AND EMPLACE A LINER OF 20 MIL PLASTIC OR 6" OF CLAY - THEN BACKFILL W/ ORIGINAL MATERIAL. EMPLACE LINER OVER WHOLE DIKED AREA OR OVER SOUTHERN 1/2 OF DIKED AREA FROM SOUTH WALL TO TANKS INCLUSIVE OF SAMPLE POINTS TP-3,4&5. Attached ☐
Date: 10-23-09	IRP-09-11-2314

* Attach Additional Sheets If Necessary

fGRL0930642476

Remediation Plan

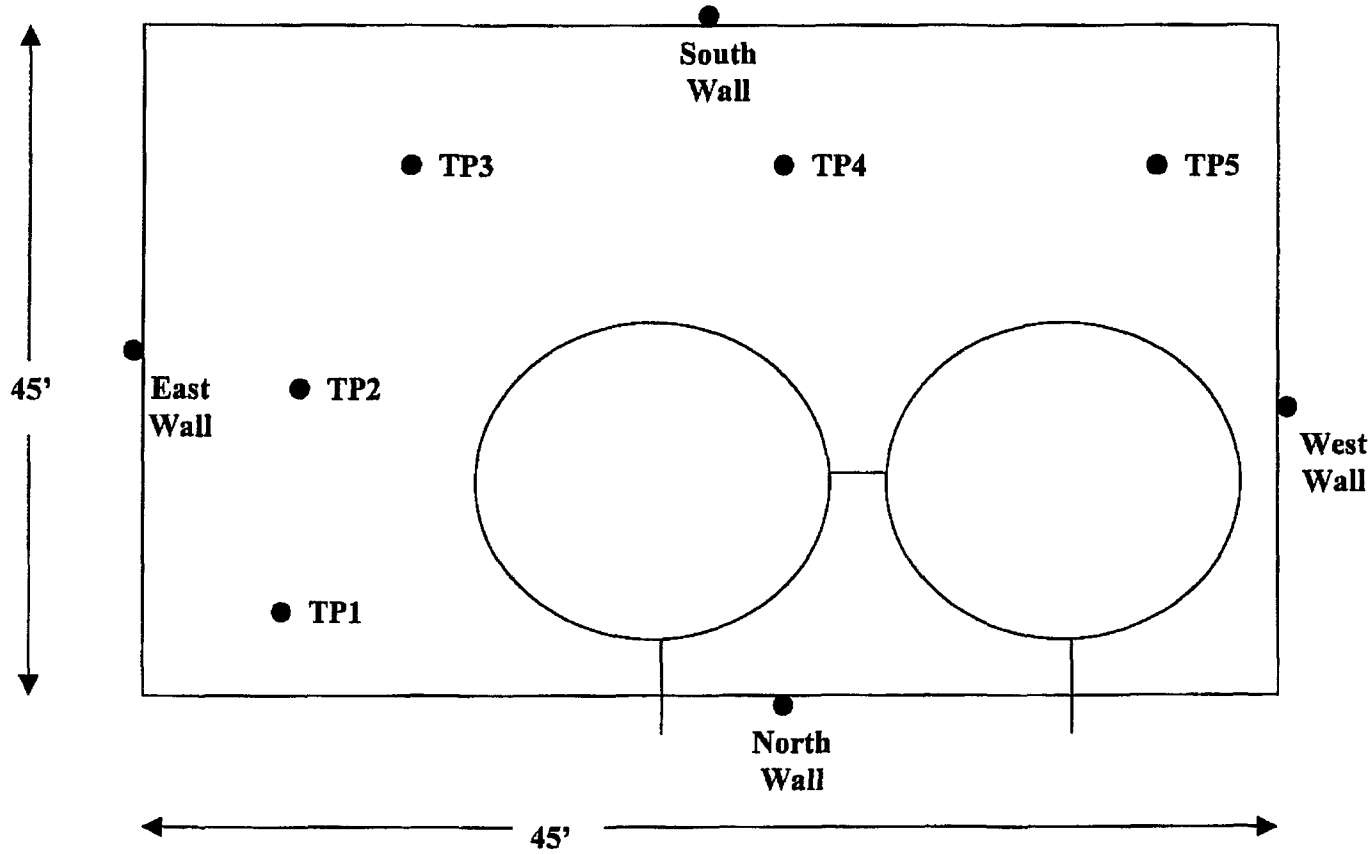
Prepared for
Oxy USA

Bluitt 19 Federal #2 Battery
Roosevelt County, NM

Prepared by
Elke Environmental, Inc.
P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

Oxy USA
Bluitt 19 Fed #2 Battery

Plat Map



Elke Environmental, Inc.
P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA **Analyst** Bobby Steadham

Site Bluitt 19 Fed #2 Battery

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP1	8-31-09	Surface		1,835	57	33° 36.721' N 103° 05.180' W
TP1	8-31-09	1'		207	4.6	33° 36.721' N 103° 05.180' W
TP1	8-31-09	2'	16	149	4.8	33° 36.721' N 103° 05.180' W
TP2	8-31-09	Surface		823	66.3	33° 36.719' N 103° 05.180' W
TP2	8-31-09	1'		151	20.8	33° 36.719' N 103° 05.180' W
TP2	8-31-09	2'	21	119	18.7	33° 36.719' N 103° 05.180' W
TP3	8-31-09	Surface		491	27.5	33° 36.718' N 103° 05.180' W
TP3	8-31-09	1'		692	71.3	33° 36.718' N 103° 05.180' W
TP3	8-31-09	2'		144	42.9	33° 36.718' N 103° 05.180' W
TP3	8-31-09	3'	29	204	40.0	33° 36.718' N 103° 05.180' W
TP4	8-31-09	Surface		692	31.1	33° 36.719' N 103° 05.183' W
TP4	8-31-09	1'		571	48.7	33° 36.719' N 103° 05.183' W
TP4	8-31-09	2'		451	51.5	33° 36.719' N 103° 05.183' W
TP4	8-31-09	3'		532	94.9	33° 36.719' N 103° 05.183' W
TP4	8-31-09	4'		1,374	41.0	33° 36.719' N 103° 05.183' W
TP4	8-31-09	6'		3,898	40.8	33° 36.719' N 103° 05.183' W
TP4	8-31-09	8'		845	43.9	33° 36.719' N 103° 05.183' W

Analyst Notes

Elke Environmental, Inc.
P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA **Analyst** Bobby Steadham

Site Bluitt 19 Fed #2 Battery

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP4	8-31-09	10'		1,560	28.8	33° 36.719' N 103° 05.183' W
TP4	8-31-09	12'		634	28.4	33° 36.719' N 103° 05.183' W
TP4	8-31-09	14'		299	37.0	33° 36.719' N 103° 05.183' W
TP4	9-1-09	15'	37	180	24.3	33° 36.719' N 103° 05.183' W
TP5	9-1-09	Surface		812	49.5	33° 36.719' N 103° 05.185' W
TP5	9-1-09	2'		629	108	33° 36.719' N 103° 05.185' W
TP5	9-1-09	4'		270	43.5	33° 36.719' N 103° 05.185' W
TP5	9-1-09	6'	31	242	37.4	33° 36.719' N 103° 05.185' W
South Wall	9-1-09	7'	23	198	35.4	33° 36.716' N 103° 05.184' W
East Wall	9-1-09	1'	18	144	30.3	33° 36.720' N 103° 05.176' W
West Wall	9-1-09	3'	28	198	49.9	33° 36.720' N 103° 05.189' W
North Wall	9-1-09	1'	38	204	42.6	33° 36.725' N 103° 05.183' W
Background	9-1-09			179		33° 36.722' N 103° 05.194' W

Analyst Notes

Analytical Report 343029

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy USA

Billuit 19 Fed # 2

08-SEP-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

08-SEP-09

Project Manager: **Logan Anderson**
Elke Environmental, Inc.
4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: **343029**
Oxy USA
Project Address:

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 343029. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 343029 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 343029

Elke Environmental, Inc., Odessa, TX

Oxy USA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP 1 @ 2'	S	Aug-31-09 11:15	2 ft	343029-001
TP 2 @ 2'	S	Aug-31-09 10:30	2 ft	343029-002
TP 3 @ 3'	S	Aug-31-09 13:00	3 ft	343029-003
TP 5 @ 6'	S	Aug-31-09 15:00	6 ft	343029-004
TP 4 @ 15'	S	Sep-01-09 09:15	15 ft	343029-005

CASE NARRATIVE

Client Name: Elke Environmental, Inc.
Project Name: Oxy USA

Project ID: *Billuit 19 Fed # 2* | *Report Date:* *08-SEP-09*
Work Order Number: *343029* | *Date Received:* *09/02/2009*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-770806 Inorganic Anions by EPA 300
None

Batch: LBA-770813 Percent Moisture
AD2216A
Batch 770813, Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity.
Samples affected are: 343029-005, -002, -001, -003, -004.

Batch: LBA-771196 TPH by SW8015 Mod
None

Certificate of Analysis Summary 343029

Elke Environmental, Inc., Odessa, TX

Project Name: Oxy USA

Project Id: Billuit 19 Fed # 2
Contact: Logan Anderson
Project Location:

Date Received in Lab: Wed Sep-02-09 08:20 am
Report Date: 08-SEP-09
Project Manager: Brent Barron, II

Analysis Requested												
	Lab Id:	343029-001		343029-002		343029-003		343029-004		343029-005		
	Field Id:	TP 1 @ 2'		TP 2 @ 2'		TP 3 @ 3'		TP 5 @ 6'		TP 4 @ 15'		
	Depth:	2 ft		2 ft		3 ft		6 ft		15 ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Aug-31-09 11:15		Aug-31-09 10:30		Aug-31-09 13:00		Aug-31-09 15:00		Sep-01-09 09:15		
Anions by EPA 300	*Extracted:*											
	Analyzed:	Sep-02-09 17:25		Sep-02-09 17:25		Sep-02-09 17:25		Sep-02-09 17:25		Sep-02-09 17:25		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		143	5.09	26.9	5.05	100	5.10	212	5.12	51.8	5.44	
Percent Moisture	*Extracted:*											
	Analyzed:	Sep-03-09 09:41		Sep-03-09 09:41		Sep-03-09 09:41		Sep-03-09 09:41		Sep-03-09 09:41		
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		1.74	1.00	ND	1.00	2.04	1.00	2.39	1.00	8.14	1.00	
TPH By SW8015 Mod	*Extracted:*	Sep-07-09 13:04		Sep-07-09 13:04		Sep-07-09 13:04		Sep-07-09 13:04		Sep-07-09 13:04		
	Analyzed:	Sep-07-09 14:54		Sep-07-09 15:19		Sep-07-09 15:44		Sep-07-09 16:09		Sep-07-09 16:34		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
C6-C12 Gasoline Range Hydrocarbons		ND	15.2	ND	15.1	ND	15.3	ND	15.4	ND	16.3	
C12-C28 Diesel Range Hydrocarbons		ND	15.2	ND	15.1	ND	15.3	ND	15.4	ND	16.3	
C28-C35 Oil Range Hydrocarbons		ND	15.2	ND	15.1	ND	15.3	ND	15.4	ND	16.3	
Total TPH		ND	15.2	ND	15.1	ND	15.3	ND	15.4	ND	16.3	

Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 343029, **Project ID:** Billuit 19 Fed # 2

Lab Batch #: 771196 **Sample:** 537096-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/07/09 13:39

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.8	100	96	70-135	
o-Terphenyl	37.9	50.0	76	70-135	

Lab Batch #: 771196 **Sample:** 537096-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/07/09 14:04

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.7	99.9	98	70-135	
o-Terphenyl	38.8	50.0	78	70-135	

Lab Batch #: 771196 **Sample:** 537096-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/07/09 14:29

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.0	100	84	70-135	
o-Terphenyl	42.4	50.0	85	70-135	

Lab Batch #: 771196 **Sample:** 343029-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/07/09 14:54

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.8	99.6	82	70-135	
o-Terphenyl	40.4	49.8	81	70-135	

Lab Batch #: 771196 **Sample:** 343029-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/07/09 15:19

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.8	102	70-135	
o-Terphenyl	49.9	49.9	100	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 343029,

Project ID: Billuit 19 Fed # 2

Lab Batch #: 771196 **Sample:** 343029-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/07/09 15:44

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.1	100	99	70-135	
o-Terphenyl	47.3	50.0	95	70-135	

Lab Batch #: 771196 **Sample:** 343029-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/07/09 16:09

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.2	99.9	82	70-135	
o-Terphenyl	40.8	50.0	82	70-135	

Lab Batch #: 771196 **Sample:** 343029-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/07/09 16:34

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.0	99.8	82	70-135	
o-Terphenyl	41.8	49.9	84	70-135	

Lab Batch #: 771196 **Sample:** 343029-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/07/09 23:34

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.0	99.7	98	70-135	
o-Terphenyl	40.0	49.9	80	70-135	

Lab Batch #: 771196 **Sample:** 343029-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/07/09 23:58

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.8	101	70-135	
o-Terphenyl	40.2	49.9	81	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Oxy USA

Work Order #: 343029 **Project ID:** Billuit 19 Fed # 2

Lab Batch #: 770806 **Sample:** 770806-1-BKS **Matrix:** Solid

Date Analyzed: 09/02/2009 **Date Prepared:** 09/02/2009 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

Anions by EPA 300 Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	9.41	94	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Oxy USA

Work Order #: 343029 **Project ID:** Billuit 19 Fed # 2

Analyst: BHW **Date Prepared:** 09/07/2009 **Date Analyzed:** 09/07/2009

Lab Batch ID: 771196 **Sample:** 537096-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW8015 Mod **Analytes**	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	869	87	999	886	89	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	965	97	999	979	98	1	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: Oxy USA

Work Order #: 343029

Lab Batch #: 770806

Project ID: Billuit 19 Fed # 2

Date Analyzed: 09/02/2009

Date Prepared: 09/02/2009

Analyst: LATCOR

QC- Sample ID: 343029-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	143	102	250	105	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Oxy USA

Work Order # : 343029 **Project ID:** Billuit 19 Fed # 2

Lab Batch ID: 771196 **QC- Sample ID:** 343029-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/07/2009 **Date Prepared:** 09/07/2009 **Analyst:** BHW

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1010	912	90	1020	937	92	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1010	1030	102	1020	1070	105	4	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Oxy USA

Work Order #: 343029

Lab Batch #: 770806 **Project ID:** Billuit 19 Fed # 2

Date Analyzed: 09/02/2009 **Date Prepared:** 09/02/2009 **Analyst:** LATCOR

QC- Sample ID: 343029-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	143	127	12	20	

Lab Batch #: 770813

Date Analyzed: 09/03/2009 **Date Prepared:** 09/03/2009 **Analyst:** BEV

QC- Sample ID: 343029-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.74	3.28	61	20	F

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Logan Anderson
Company Name: Elke Environmental
Company Address: P O Box 14167
City/State/Zip: Odessa, TX 79768
Telephone No: 432-366-0943
Fax No: 432-366-0884
Sampler Signature: [signature]
e-mail: la_elkeenv@yahoo.com

Project Name: Oxy USA
Project #: Billit 19 Fed #2
Project Loc:
PO #:
Report Format: ☑ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 343029

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix	TPH: 418.1 8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	TP 1 @ 2'		2'	8/31/09	11:15A		1	V								S	X			X									X
02	TP 2 @ 2'		2'	8/31/09	10:30A		1	V								S	X			V									X
03	TP 3 @ 3'		3'	8/31/09	13:00		1	X								S	X			X									X
04	TP 5 @ 6'		6'	8/31/09	15:00		1	X								S	X			N									X
05	TP 4 @ 15'		15'	9/1/09	9:15		1	X								S	X			X									X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/2/09	8:20A			
Relinquished by:			Received by:		
Relinquished by:			Received by ELOT: gnustvalos	09/02/09	8:20

Laboratory Comments: 4.0 g.c.
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s) (Y) N
Custody seals on container(s) Y (N)
Custody seals on cooler(s) Y (N)
Sample Hand Delivered (Y) N
by Sampler/Client Rep.? (Y) N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 1.1 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Elke Env.

Date/ Time 09/02/09 8:20

Lab ID #: 343029

Initials: AM

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	1.1 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event