Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

January 14, 2009

New Mexico Oil Conservation Division
Mrs. Sherry Bohnam
1301 West Grand Ave.
Artesia, New Mexico 88210

Re: Remediation Plan for Leak
Oxy USA – Roaring Springs 14 Fed #1 Battery
UL 'E' Sec. 14 T21S R23E Eddy County
2RP-263

Mrs. Sherry Bohnam,

Elke Environmental was contracted by Oxy USA to complete the remediation of the leak at the Roaring Springs 14 Fed #1 Battery. A delineation of the site was completed using an air rotary rig. A borehole was drilled at the Roaring Springs 13 Fed #4 Battery in UL 'C' Sec. 13 T21S R23E. The borehole was drilled to 96' deep and encountered a rock formation that was impenetrable by the drill rig at the site. No water bearing formations were encountered within the 96' borehole. Attached is a plat map, field analytical, lab confirmation and a driller's log for the site.

Oxy USA proposes to excavate 1' of impacted soil around the tanks and 5' at SB3. With no elevated chloride levels the soil will be remediated on-site to below the RAL's of 1,000 ppm TPH, 100 ppm BTEX using a field head vapor space measurement and 250 ppm Chlorides. The remediated soil will be backfilled into the excavation. If the soil can not be remediated onsite to below the RAL's the soil will be hauled to Lea Land Disposal. A final report will be submitted at the completion of the remediation. If you have any questions about the enclosed report please contact me at the office.

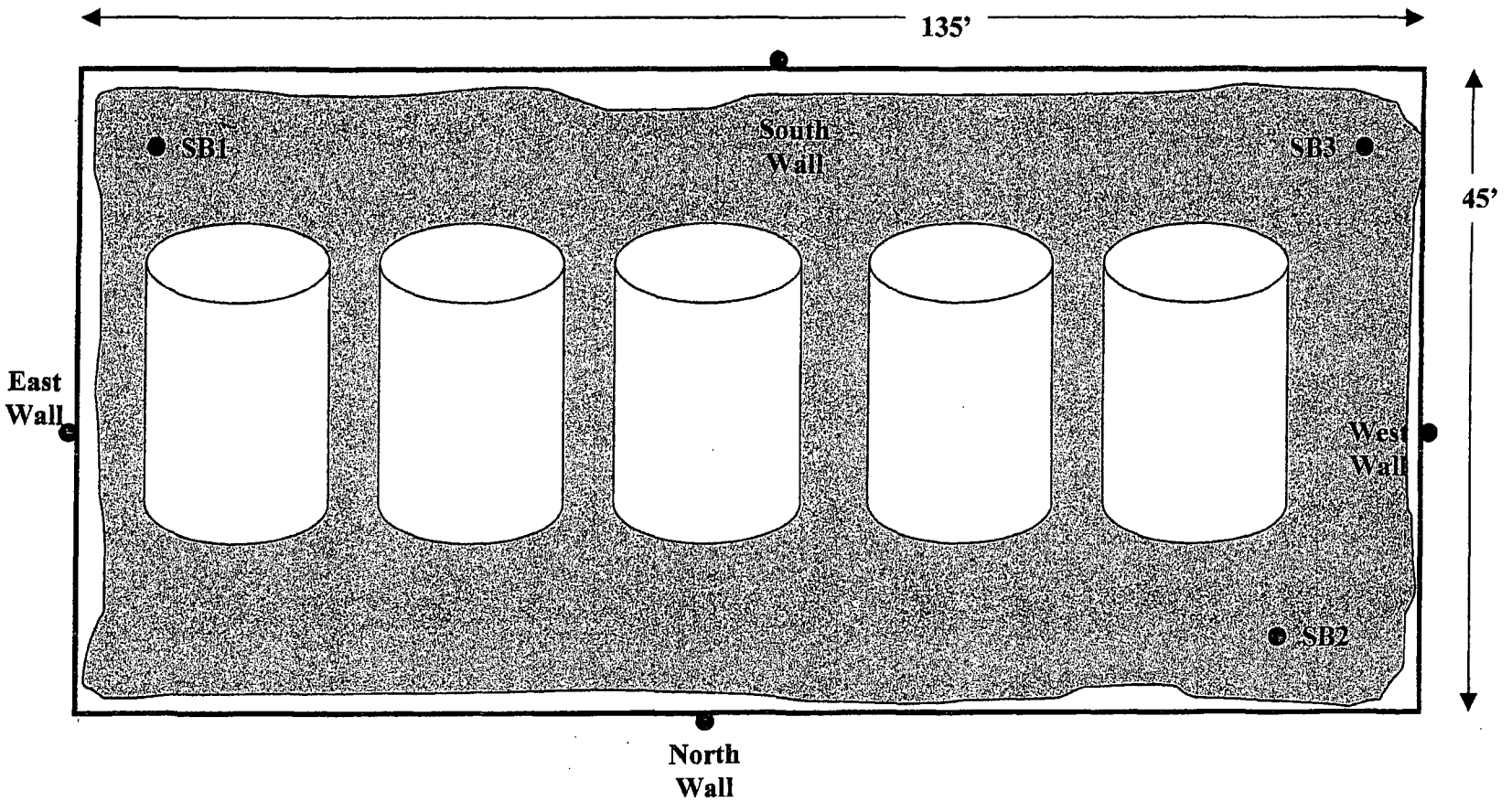
Sincerely,

Logan Anderson

Oxy USA
Roaring Springs 14 Fed Com #1 Battery
UL 'E' Sec. 14 T21S R23E
Eddy County, NM

N

Plat Map



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

Field Analytical Report Form

Client Oxy USA **Analyst** Logan Anderson

Site Roaring Springs 14 Fed #1 Battery

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
SB1	1-7-09	Surface	7,285	700	19.8	32° 28.865' N 104° 34.705' W
SB1	1-7-09	5'	443	176	27.6	32° 28.865' N 104° 34.705' W
SB1	1-7-09	10'	121	122	20.6	32° 28.865' N 104° 34.705' W
SB2	1-7-09	Surface	1,318	299	639	32° 28.868' N 104° 34.729' W
SB2	1-7-09	5'	1,000	134	96.0	32° 28.868' N 104° 34.729' W
SB2	1-7-09	10'	357	94	32.5	32° 28.868' N 104° 34.729' W
SB2	1-7-09	15'	154	121	1.0	32° 28.868' N 104° 34.729' W
SB3	1-7-09	Surface	4,144	277	124	32° 28.865' N 104° 34.730' W
SB3	1-7-09	5'	4,607	134	102	32° 28.865' N 104° 34.730' W
SB3	1-7-09	10'	500	121	87.3	32° 28.865' N 104° 34.730' W
SB3	1-7-09	15'	128	105	3.0	32° 28.865' N 104° 34.730' W
North Wall	1-7-09	Surface	77	171	0.0	32° 28.868' N 104° 34.718' W
South Wall	1-7-09	Surface	64	184	0.0	32° 28.864' N 104° 34.720' W
East Wall	1-7-09	Surface	53	99	0.0	32° 28.866' N 104° 34.704' W
West Wall	1-7-09	Surface	69	121	0.0	32° 28.866' N 104° 34.732' W

Analyst Notes

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
ROARING SPRINGS 13 FED #4 - SB-1	
WELL OWNER NAME(S)	PHONE (OPTIONAL)
OXY USA	
WELL OWNER MAILING ADDRESS	CITY / STATE / ZIP
PO BOX 1988	CARLSBAD / NM / 88221

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	29	2.00	N
	LONGITUDE	104	33	31.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS
UL "C" EDDY COUNTY, NEW MEXICO

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(160 ACRE)	(640 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼	13	215 ☐ NORTH ☐ SOUTH	25 ☑ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
1/6/09	1/6/09		96	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0	96	6"	N/A	N/A	N/A	N/A	N/A

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☒ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	2	2	TAN FINE SAND/CALICHE	☐ YES ☑ NO
2	5	3	TAN FINE SAND/SANDSTONE	☐ YES ☑ NO
5	11	6	TAN FINE SAND/DARK GRAY CLAY	☐ YES ☑ NO
11	12	1	DARK GRAY CLAY	☐ YES ☑ NO
12	17	5	TAN SILTY CLAY/SILTY SAND	☐ YES ☑ NO
17	20	3	GRAY LIMESTONE	☐ YES ☑ NO
20	31	11	DARK GRAY SILTY CLAY	☐ YES ☑ NO
31	39	8	GRAY LIMESTONE/GRAY CLAY LAYERS	☐ YES ☑ NO
39	41	2	GRAY LIMESTONE	☐ YES ☑ NO
41	43	2	TAN SANDY CLAY	☐ YES ☑ NO
43	47	4	TAN VERY FINE SAND	☐ YES ☑ NO
47	51	4	GRAY SANDY CLAY	☐ YES ☑ NO
51	64	13	TAN FINE SAND/SANDSTONE	☐ YES ☑ NO
64	65	1	TAN FINE SAND/SANDSTONE/CALICHE	☐ YES ☑ NO
65	87	22	TAN FINE SAND/SANDSTONE	☐ YES ☑ NO
87	90	3	TAN VERY FIND SAND/DARK BROWN SANDY CLAY	☐ YES ☑ NO
90	93	3	GRAY FINE SAND/GRAY SANDSTONE	☐ YES ☑ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST: METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD

ADDITIONAL STATEMENTS OR EXPLANATIONS:

SOIL BORING ONLY. PLUGGED WITH PELLETIZED BENTONITE UPON COMPLETION OF SAMPLING.

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING

SIGNATURE OF DRILLER

1/12/09
DATE

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☒ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
93	96	3	DENSE SUPER HARD SANDSTONE	☐ YES ☒ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO.

WELL TEST: METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS – ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

SOIL BORING ONLY. PLUGGED WITH PELLETIZED BENTONITE UPON COMPLETION OF SAMPLING.

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

[signature] — SIGNATURE OF DRILLER

1/12/09 — DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

Analytical Report 322203

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy USA

13-JAN-09

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

13-JAN-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: **322203**
Oxy USA
Project Address: Roaring Springs 14 # 1 Batt

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 322203. 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. 322203 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 322203

Elke Environmental, Inc., Odessa, TX

Oxy USA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 @ 10'	S	Jan-07-09 11:47	10 ft	322203-001
SB-2 @ 15'	S	Jan-07-09 12:23	15 ft	322203-002
SB-3 @ 15'	S	Jan-07-09 12:42	15 ft	322203-003

Certificate of Analysis Summary 322203

Elke Environmental, Inc., Odessa, TX

Project Name: Oxy USA

Project Id:

Contact: Logan Anderson

Project Location: Roaring Springs 14 # 1 Batt

Date Received in Lab: Fri Jan-09-09 05:02 pm

Report Date: 13-JAN-09

Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	322203-001		322203-002		322203-003					
	Field Id:	SB-1 @ 10'		SB-2 @ 15'		SB-3 @ 15'					
	Depth:	10 ft		15 ft		15 ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Jan-07-09 11:47		Jan-07-09 12:23		Jan-07-09 12:42					
Anions by EPA 300	*Extracted:*										
	Analyzed:	Jan-12-09 16:19		Jan-12-09 16:19		Jan-12-09 16:19					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		ND	22.8	ND	22.5	ND	26.2				
Percent Moisture	*Extracted:*										
	Analyzed:	Jan-12-09 11:30		Jan-12-09 11:30		Jan-12-09 11:30					
	Units/RL:	%	RL	%	RL	%	RL				
Percent Moisture		12.26	1.00	10.99	1.00	23.75	1.00				
TPH By SW8015 Mod	*Extracted:*	Jan-12-09 13:00		Jan-12-09 13:00		Jan-12-09 13:00					
	Analyzed:	Jan-13-09 09:57		Jan-13-09 10:20		Jan-13-09 10:44					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	17.1	ND	16.9	ND	19.7				
C12-C28 Diesel Range Hydrocarbons		103	17.1	137	16.9	103	19.7				
C28-C35 Oil Range Hydrocarbons		ND	17.1	ND	16.9	37.8	19.7				
Total TPH		103	17.1	137	16.9	140.8	19.7				

Brent Barron
Odessa Laboratory Director

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.

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 322203,

Project ID:

Lab Batch #: 746298 **Sample:** 322199-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	56.5	50.0	113	70-135	

Lab Batch #: 746298 **Sample:** 322199-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	100	122	70-135	
o-Terphenyl	58.6	50.0	117	70-135	

Lab Batch #: 746298 **Sample:** 322203-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.0	100	96	70-135	
o-Terphenyl	47.8	50.0	96	70-135	

Lab Batch #: 746298 **Sample:** 322203-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	100	94	70-135	
o-Terphenyl	46.6	50.0	93	70-135	

Lab Batch #: 746298 **Sample:** 322203-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	50.9	50.0	102	70-135	

** 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 : 322203, **Project ID:**

Lab Batch #: 746298 **Sample:** 522806-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	62.2	50.0	124	70-135	

Lab Batch #: 746298 **Sample:** 522806-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	51.7	50.0	103	70-135	

Lab Batch #: 746298 **Sample:** 522806-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	55.8	50.0	112	70-135	

** 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.

Project Name: Oxy USA

Work Order #: 322203 **Project ID:**

Lab Batch #: 746220 **Sample:** 746220-1-BKS **Matrix:** Solid

Date Analyzed: 01/12/2009 **Date Prepared:** 01/12/2009 **Analyst:** LATCOR

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

	BLANK /BLANK SPIKE RECOVERY STUDY					
Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	9.99	100	90-110	

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

BS / BSD Recoveries

Project Name: Oxy USA

Work Order #: 322203
Analyst: BHW
Lab Batch ID: 746298 **Sample:** 522806-1-BKS
Units: mg/kg

Date Prepared: 01/12/2009 **Batch #:** 1

Project ID:
Date Analyzed: 01/12/2009
Matrix: Solid

TPH By SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
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	971	97	1000	950	95	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1020	102	1000	997	100	2	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 #: 322203
Lab Batch #: 746220
Project ID:
Date Analyzed: 01/12/2009 **Date Prepared:** 01/12/2009 **Analyst:** LATCOR
QC- Sample ID: 322199-001 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	341	205	529	92	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

Form 3 - MS / MSD Recoveries

Project Name: Oxy USA

Work Order # : 322203 **Project ID:**

Lab Batch ID: 746298 **QC- Sample ID:** 322199-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/13/2009 **Date Prepared:** 01/12/2009 **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	1030	954	93	1030	974	95	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1030	1020	99	1030	1040	101	2	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 #: 322203

Lab Batch #: 746220 **Project ID:**

Date Analyzed: 01/12/2009 **Date Prepared:** 01/12/2009 **Analyst:** LATCOR

QC- Sample ID: 322199-001 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	341	343	1	20	

Lab Batch #: 746179

Date Analyzed: 01/12/2009 **Date Prepared:** 01/12/2009 **Analyst:** WRU

QC- Sample ID: 322201-001 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	3.45	3.35	3	20	

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

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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: 432-366-0043

Fax No: 432-366-0884

Sampler Signature: [signature]

e-mail: la_elkeenv@yahoo.com

Project Name: Oxy USA

Project #:

Project Loc: Roaring Springs 14 #1 Batt

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 322203

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) 8015B	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	SB-1 @ 10'		10'	1-7-09	11:47A		1	X								S	X			X									X
02	SB-2 @ 15'		15'	1-7-09	12:23P		1	X								S	X			X									X
03	SB-3 @ 15'		15'	1-7-09	12:42P		1	X								S	X			X									X

Preservation & # of Containers: Ice, HNO_3, HCl, H_2SO_4, NaOH, $Na_2S_2O_3$, None, Other (Specify)
Matrix: DW=Drinking Water SL=Sludge, GW = Groundwater S=Soil/Solid, NP=Non-Potable Specify Other
Analyze For: TCLP: / TOTAL:

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	1-9-09	2:05p	Jason Jessup	1-9-09	2:05p
Jason Jessup	1-9-09	6:02			
			Received by ELOT: Andrea Por...	1-9-09	17:02

Laboratory Comments:

Sample Containers Intact?	(Y)	N
VOCs Free of Headspace?	Y	(N/A)
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:	5.5	°C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

lient: Elke Env.

ate/ Time. 1.9.09 17:02

ab ID # : 322203

itials CL

Sample Receipt Checklist

					Client Initials
1	Temperature of container/ cooler?	(Yes)	No	5.5 °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