

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

RECEIVED

FEB 03 2010

HOBBSOCD

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 Beard
Address 1502 W. Commerce Carlsbad, NM 88220	Telephone No. (O) 575-628-4100
Facility Name State DW #1	Facility Type Tank Battery

Surface Owner State	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	12	18S	33E					LEA

Latitude 32° 45.697' N Longitude 103° 36.948' W

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 15bbls	Volume Recovered 14
Source of Release Test Heater	Date and Hour of Occurrence	Date and Hour of Discovery 9-17-09 @ 9am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson (Left Message)	
By Whom? Kelton Beard	Date and Hour See above	
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.*
WATER @ 143'

Describe Cause of Problem and Remedial Action Taken.*
The State DW 10 was on test. Due to lack of gas pressure to operate the dump valves, the heater failed to keep up with the dumping of the fluid causing the Heater to overflow. The area affected was around the heater, the oil then ran south off the location onto the lease road. The site was delineated using a backhoe and an air rotary rig. Site ranking is Surface Body of Water - 0 points. Wellhead Protection - 0 points and Groundwater (>100') - 0 points. The total ranking for the site is 0 points.

Describe Area Affected and Cleanup Action Taken.* Oxy USA proposes to excavate 2' of impacted soil from TP1, TP2 and TP3 and excavate 5' of impacted soil from TP4 and TP5 and haul the impacted soil to Lea Land Disposal. A 20 mil poly liner will be installed at 2' at TP1, TP2 and TP3. The excavated area will be backfilled with clean native soil. The site will not be re-seeded since the site is a caliche location for a tank battery. A final report will be submitted at the completion of the project.

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 Beard		ENV. ENGINEER : Approved by District Supervisor: <i>Jeffrey Lehman</i>	
Title: HES Specialist		Approval Date: 02/03/10	Expiration Date: 04/05/10
E-mail Address: kelton.beard@oxy.com		Conditions of Approval: SUBMIT FINAL C-141 BY 04/05/10	
Date: 12-9-09		Attached <input type="checkbox"/> IRP-09-10-2301	

* Attach Additional Sheets If Necessary

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OCT 19 2009

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Remediation Plan

Prepared for
Oxy USA

State DW #1 Spill
Lea County, NM

1RP-09-10-2301

Prepared by

Elke Environmental, Inc.

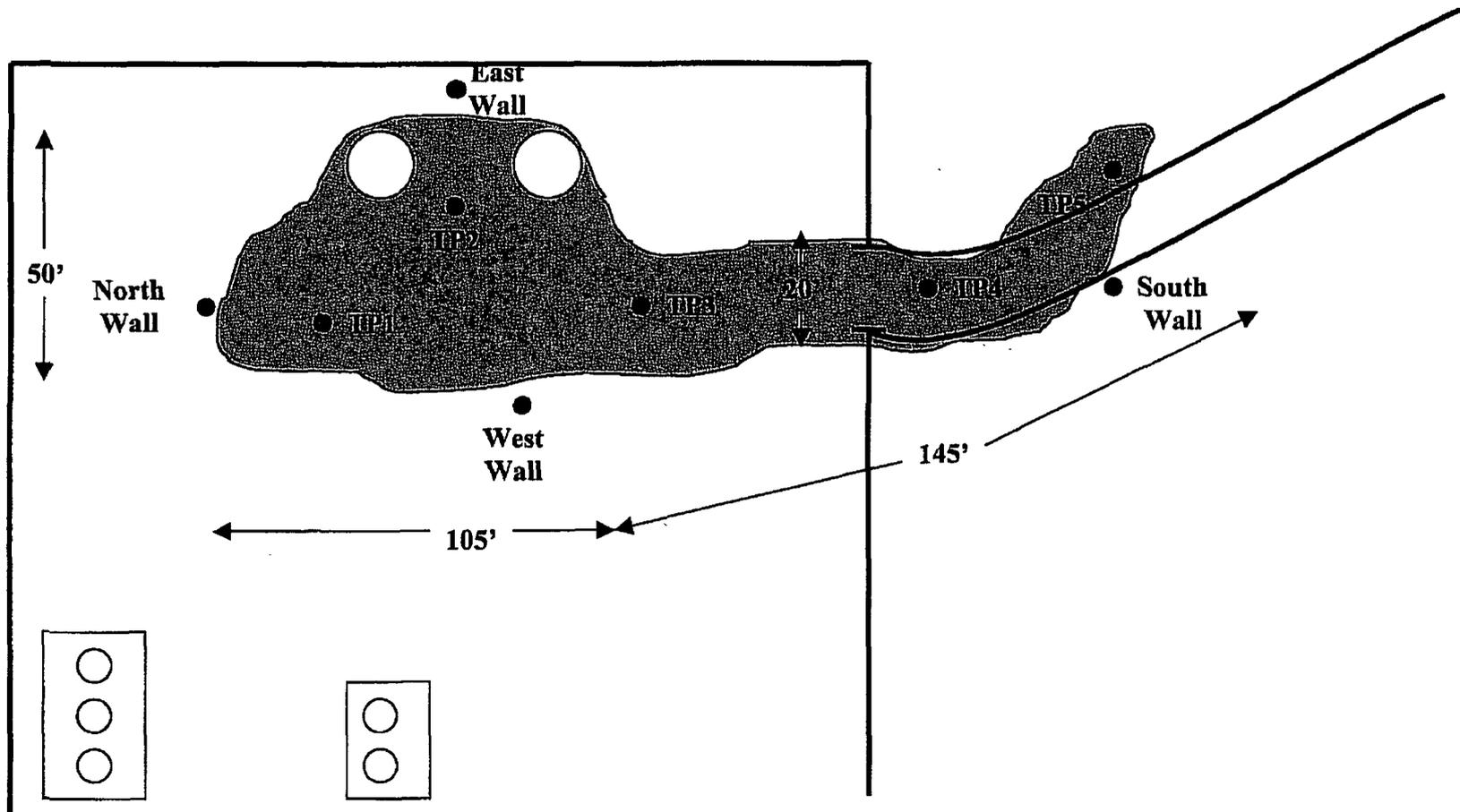
P.O. Box 14167 Odessa, TX 79768

Phone (432) 366-0043 Fax (432) 366-0884

Oxy USA
State DW #1 Battery



Plat Map



Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

10
50
5000
1000

Field Analytical Report Form

Client Oxy USA **Analyst** Curtis Elam

Site State DW #1 Battery

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP1	9-28-09	Surface	28,310	1,028	31.1	32° 45.697' N 103° 36.948' W
TP1	9-28-09	2'	27,300	1,538	45.7	32° 45.697' N 103° 36.948' W
TP1	9-28-09	4'	18	912	8.5	32° 45.697' N 103° 36.948' W
TP1	9-28-09	6'	20	1,073	7.1	32° 45.697' N 103° 36.948' W
TP1	9-28-09	8'	13	624	10.3	32° 45.697' N 103° 36.948' W
TP1	9-28-09	10'	16	650	13.2	32° 45.697' N 103° 36.948' W
TP1	9-28-09	12'	11	583	7.1	32° 45.697' N 103° 36.948' W
TP1	9-28-09	14'	7	422	3.8	32° 45.697' N 103° 36.948' W
TP1	9-30-09	16'	16	521	1.9	32° 45.697' N 103° 36.948' W
TP1	9-30-09	18'	8	350	2.1	32° 45.697' N 103° 36.948' W
TP1	9-30-09	20'	6	190	1.7	32° 45.697' N 103° 36.948' W
TP2	9-28-09	Surface	22,310	6,105	65.7	32° 45.696' N 103° 36.943' W
TP2	9-28-09	2'	4,650	3,650	31.5	32° 45.696' N 103° 36.943' W
TP2	9-30-09	10'	1,300	1,560	12.1	32° 45.696' N 103° 36.943' W
TP2	9-30-09	15'	180	1,119	13.2	32° 45.696' N 103° 36.943' W
TP2	9-30-09	20'	20	732	4.1	32° 45.696' N 103° 36.943' W
TP2	9-30-09	25'	16	987	3.0	32° 45.696' N 103° 36.943' W

Analyst Notes _____

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA Analyst Curtis Elam

Site State DW #1 Battery

Sample ID	Date	Depth	TPH / PPM	CI / PPM	PID / PPM	GPS
TP2	9-30-09	30'	10	1,182	6.9	32° 45.696' N 103° 36.943' W
TP2	9-30-09	35'	13	1,009	4.6	32° 45.696' N 103° 36.943' W
TP2	9-30-09	40'	18	664	8.5	32° 45.696' N 103° 36.943' W
TP2	9-30-09	45'	9	545	7.4	32° 45.696' N 103° 36.943' W
TP2	9-30-09	50'	13	225	1.1	32° 45.696' N 103° 36.943' W
TP3	9-29-09	Surface	8,613	1,563	33.1	32° 45.692' N 103° 36.943' W
TP3	9-29-09	2'	2,580	1,067	15.7	32° 45.692' N 103° 36.943' W
TP3	9-29-09	8'	500	686	9.6	32° 45.692' N 103° 36.943' W
TP3	9-30-09	15'	13	380	3.5	32° 45.692' N 103° 36.943' W
TP3	9-30-09	20'	8	200	2.1	32° 45.692' N 103° 36.943' W
TP4	9-29-09	Surface	31,350	1,921	71.3	32° 45.681' N 103° 36.950' W
TP4	9-29-09	2'	24,460	1,060	34.5	32° 45.681' N 103° 36.950' W
TP4	9-29-09	5'	230	740	18.7	32° 45.681' N 103° 36.950' W
TP4	9-29-09	10'	7	925	2.9	32° 45.681' N 103° 36.950' W
TP4	9-30-09	15'	13	250	3.1	32° 45.681' N 103° 36.950' W
TP5	9-29-09	Surface	14,320	7,315	27.5	32° 45.672' N 103° 36.940' W
TP5	9-29-09	2'	12,940	3,638	33.4	32° 45.672' N 103° 36.940' W

Analyst Notes _____

Analytical Report 347080

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy State DW # 1

Oxy State DW # 1

12-OCT-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)



12-OCT-09

Project Manager: Logan Anderson
Elke Environmental, Inc.
P.O. Box 14167
Odessa, TX 79768

Reference: XENCO Report No: **347080**
Oxy State DW # 1
Project Address: Oxy State DW # 1

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 347080. 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. 347080 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

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Sample Cross Reference 347080



Elke Environmental, Inc., Odessa, TX

Oxy State DW # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP 1 @ 20'	S	Sep-30-09 12:45	20 ft	347080-001
TP 2 @ 50'	S	Sep-30-09 15:00	50 ft	347080-002
TP 3 @ 20'	S	Sep-30-09 15:45	20 ft	347080-003
TP 4 @ 15'	S	Sep-30-09 16:00	15 ft	347080-004
TP 5 @ 10'	S	Sep-30-09 16:30	10 ft	347080-005

CASE NARRATIVE



Client Name: Elke Environmental, Inc.

Project Name: Oxy State DW # 1

Project ID: Oxy State DW # 1

Work Order Number: 347080

Report Date: 12-OCT-09

Date Received: 10/03/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-775692 Inorganic Anions by EPA 300

None

Batch: LBA-775738 Percent Moisture

None

Batch: LBA-775956 BTEX-MTBE EPA 8021B

SW8021BM

Batch 775956, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 347080-003, -005, -002, -004, -001.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits



CASE NARRATIVE

Client Name: Elke Environmental, Inc.

Project Name: Oxy State DW # 1

Project ID: Oxy State DW # 1

Work Order Number: 347080

Report Date: 12-OCT-09

Date Received: 10/03/2009

Batch: LBA-776370 TX1005

SW8015MOD_NM

Batch 776370, C6-C12 Gasoline Range Hydrocarbons recovered above QC limits in the Matrix Spike Duplicate.

Samples affected are: 347080-003, -005, -002, -004, -001.

The Laboratory Control Sample for C6-C12 Gasoline Range Hydrocarbons is within laboratory Control Limits

SW8015MOD_NM

Batch 776370, 1-Chlorooctane, o-Terphenyl recovered below QC limits . Matrix interferences is suspected; QC data is not confirmed by re-analysis

Samples affected are: 347437-001 S,347437-001 SD.

Batch 776370, 1-Chlorooctane, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; QC data is not confirmed by re-analysis

Samples affected are: 347080-002



Certificate of Analysis Summary 347080

Elke Environmental, Inc., Odessa, TX

Project Name: Oxy State DW # 1



Project Id: Oxy State DW # 1

Contact: Logan Anderson

Project Location: Oxy State DW # 1

Date Received in Lab: Sat Oct-03-09 10:57 am

Report Date: 12-OCT-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	347080-001	347080-002	347080-003	347080-004	347080-005	
	<i>Field Id:</i>	TP 1 @ 20'	TP 2 @ 50'	TP 3 @ 20'	TP 4 @ 15'	TP 5 @ 10'	
	<i>Depth:</i>	20 ft	50 ft	20 ft	15 ft	10 ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Sep-30-09 12:45	Sep-30-09 15:00	Sep-30-09 15:45	Sep-30-09 16:00	Sep-30-09 16:30	
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-05-09 13:38					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		207 4.38	95.3 4.39	218 8.64	348 8.67	90.0 8.58	
BTEX by EPA 8021B	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-06-09 10:00					
	<i>Units/RL:</i>	mg/kg RL					
Benzene		ND 0.0010					
Toluene		ND 0.0021	ND 0.0021	ND 0.0021	ND 0.0021	ND 0.0020	
Ethylbenzene		ND 0.0010					
m,p-Xylenes		ND 0.0021	ND 0.0021	ND 0.0021	ND 0.0021	ND 0.0020	
o-Xylene		ND 0.0010					
Total Xylenes		ND 0.0010					
Total BTEX		ND 0.0010					
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-06-09 10:38					
	<i>Units/RL:</i>	% RL					
Percent Moisture		4.17 1.00	4.25 1.00	2.80 1.00	3.15 1.00	2.07 1.00	
TPH By SW8015 Mod	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-08-09 10:00					
	<i>Units/RL:</i>	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		ND 15.7	17.8 15.7	18.4 15.4	20.8 15.5	ND 15.3	
C12-C28 Diesel Range Hydrocarbons		26.4 15.7	93.8 15.7	31.8 15.4	27.8 15.5	31.9 15.3	
C28-C35 Oil Range Hydrocarbons		21.5 15.7	17.4 15.7	24.9 15.4	19.5 15.5	22.4 15.3	
Total TPH		47.9 15.7	129.0 15.7	75.1 15.4	68.1 15.5	54.3 15.3	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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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.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Oxy State DW # 1

Work Orders : 347080,

Project ID: Oxy State DW # 1

Lab Batch #: 775956

Sample: 539827-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/06/09 12:31

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 775956

Sample: 539827-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/06/09 12:51

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 775956

Sample: 539827-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/06/09 13:34

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 775956

Sample: 347080-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/06/09 17:08

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 775956

Sample: 347080-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/06/09 17:29

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

* 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 State DW # 1

Work Orders : 347080,

Project ID: Oxy State DW # 1

Lab Batch #: 775956

Sample: 347080-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/06/09 17:50

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 775956

Sample: 347080-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/06/09 18:11

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 775956

Sample: 347080-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/06/09 18:32

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 775956

Sample: 347080-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/06/09 19:14

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0335	0.0300	112	80-120	

Lab Batch #: 775956

Sample: 347080-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/06/09 19:35

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

* 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 State DW # 1

Work Orders : 347080,

Project ID: Oxy State DW # 1

Lab Batch #: 776370

Sample: 540098-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/08/09 22:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	135	100	135	70-135	
o-Terphenyl	47.9	50.0	96	70-135	

Lab Batch #: 776370

Sample: 540098-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/08/09 23:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	42.2	50.0	84	70-135	

Lab Batch #: 776370

Sample: 540098-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/08/09 23:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	52.3	50.0	105	70-135	

Lab Batch #: 776370

Sample: 347080-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/09/09 07:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.9	100	97	70-135	
o-Terphenyl	48.9	50.0	98	70-135	

Lab Batch #: 776370

Sample: 347080-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/09/09 08:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	152	100	152	70-135	*
o-Terphenyl	77.2	50.0	154	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 State DW # 1

Work Orders : 347080,

Project ID: Oxy State DW # 1

Lab Batch #: 776370

Sample: 347080-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/09/09 08:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	54.7	50.0	109	70-135	

Lab Batch #: 776370

Sample: 347080-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/09/09 09:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.8	100	93	70-135	
o-Terphenyl	47.6	50.0	95	70-135	

Lab Batch #: 776370

Sample: 347080-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/09/09 09:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.1	100	89	70-135	
o-Terphenyl	45.3	50.0	91	70-135	

Lab Batch #: 776370

Sample: 347437-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/09/09 15:49

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	25.2	100	25	70-135	*
o-Terphenyl	3.22	50.0	6	70-135	*

Lab Batch #: 776370

Sample: 347437-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/09/09 16:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	31.6	100	32	70-135	*
o-Terphenyl	13.7	50.0	27	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 State DW # 1

Work Order #: 347080

Project ID:

Oxy State DW # 1

Lab Batch #: 775692

Sample: 775692-1-BKS

Matrix: Solid

Date Analyzed: 10/05/2009

Date Prepared: 10/05/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	9.84	98	75-125	

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 State DW # 1

Work Order #: 347080

Analyst: ASA

Date Prepared: 10/06/2009

Project ID: Oxy State DW # 1

Date Analyzed: 10/06/2009

Lab Batch ID: 775956

Sample: 539827-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	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
Analytes											
Benzene	ND	0.1000	0.0915	92	0.1	0.0898	90	2	70-130	35	
Toluene	ND	0.1000	0.0906	91	0.1	0.0888	89	2	70-130	35	
Ethylbenzene	ND	0.1000	0.0929	93	0.1	0.0899	90	3	71-129	35	
m,p-Xylenes	ND	0.2000	0.2037	102	0.2	0.1968	98	3	70-135	35	
o-Xylene	ND	0.1000	0.0983	98	0.1	0.0952	95	3	71-133	35	

Analyst: BHW

Date Prepared: 10/08/2009

Date Analyzed: 10/08/2009

Lab Batch ID: 776370

Sample: 540098-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1100	110	1000	1080	108	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	22.0	1000	923	92	1000	886	89	4	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 State DW # 1

Work Order #: 347080

Lab Batch #: 775692

Project ID: Oxy State DW # 1

Date Analyzed: 10/05/2009

Date Prepared: 10/05/2009

Analyst: LATCOR

QC- Sample ID: 347080-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	207	104	304	93	75-125	

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 State DW # 1

Work Order #: 347080

Project ID: Oxy State DW # 1

Lab Batch ID: 775956

QC- Sample ID: 347080-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 10/06/2009

Date Prepared: 10/06/2009

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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
	Benzene	ND	0.1044	0.0623	60	0.1044	0.0632	61	1	70-130	35
Toluene	ND	0.1044	0.0616	59	0.1044	0.0624	60	1	70-130	35	X
Ethylbenzene	ND	0.1044	0.0593	57	0.1044	0.0605	58	2	71-129	35	X
m,p-Xylenes	ND	0.2089	0.1287	62	0.2089	0.1309	63	2	70-135	35	X
o-Xylene	ND	0.1044	0.0622	60	0.1044	0.0634	61	2	71-133	35	X

Lab Batch ID: 776370

QC- Sample ID: 347437-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 10/09/2009

Date Prepared: 10/08/2009

Analyst: BEV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	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	1040	1200	115	1040	1480	142	21	70-135	35
C12-C28 Diesel Range Hydrocarbons	23.1	1040	1080	102	1040	1250	118	15	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 Applicable, N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Oxy State DW # 1

Work Order #: 347080

Lab Batch #: 775692
Date Analyzed: 10/05/2009
QC- Sample ID: 347080-001 D
Reporting Units: mg/kg

Date Prepared: 10/05/2009
Batch #: 1

Project ID: Oxy State DW # 1
Analyst: LATCOR
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	207	208	0	20	

Lab Batch #: 775738
Date Analyzed: 10/06/2009
QC- Sample ID: 346046-001 D
Reporting Units: %

Date Prepared: 10/06/2009
Batch #: 1

Analyst: BEV
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	27.2	29.8	9	20	

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
Variance/ Corrective Action Report- Sample Log-In

Client: Elite Environmental
 Date/ Time: 10/3/09 10:57
 Lab ID #: 347080
 Initials: JG

Sample Receipt Checklist

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