

Elke Environmental, Inc.

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

January 12, 2009

NMOCD
Attn: Mike Bratcher
1301 W. Grand Ave
Artesia, NM 88210

Re: Closure Plan for OXY USA – Cypress 33 Federal #1H

Mr. Bratcher,

Oxy USA has completed the delineation of the pit bottoms. Attached is a plat map, field analytical and lab confirmation of the site. All clean samples have been sent to the lab for third party confirmation for the levels on the pit closure plan. A C-141 has been attached for the leak below the pit liner. Oxy USA proposes the following remediation plan for the leak below the drilling pit.

The pit bottom is 8' below ground surface. All chloride impacted soil above 1,000 ppm will be excavated and hauled to CRI Disposal. The pit will be backfilled using the approved process in the original pit closure plan which is backfilling the site with clean native soil and a minimum of 1' of topsoil over the site to promote revegetation. The site will be reseeded with BLM Seed Mixture #3. A final report will be attached to the Final C-144 once closure is commenced.

Thanks,



Logan Anderson

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 – P O Box 1988 Carlsbad, NM 88221	Telephone No. – 575-887-8337
Facility Name – Cypress 33 Fed #1H	Facility Type – Drilling Pit

Surface Owner – Federal	Mineral Owner – Federal	Lease No.
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LOCATION OF RELEASE

Unit Letter P	Section 33	Township 23S	Range 29E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude 32° 15.333' N Longitude 103° 58.948' W

NATURE OF RELEASE

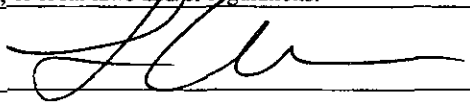
Type of Release – Drilling Fluids	Volume of Release – N/A	Volume Recovered – N/A
Source of Release – Drilling Pit	Date and Hour of Occurrence NA	Date and Hour of Discovery 1-8-09
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Drilling pit leaked into underlying soil.

Describe Area Affected and Cleanup Action Taken.* Pit bottoms were tested and delineated to the standards in the pit closure plan. Confirmation samples were sent to a third party lab. Remediation plan is to excavate all chloride impacted soil above 1,000 ppm and haul to CRI Disposal. The site will be backfilled and seeded per the original pit closure plan. A final report will be sent with the Final C-144 once the pit closure is complete.

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.

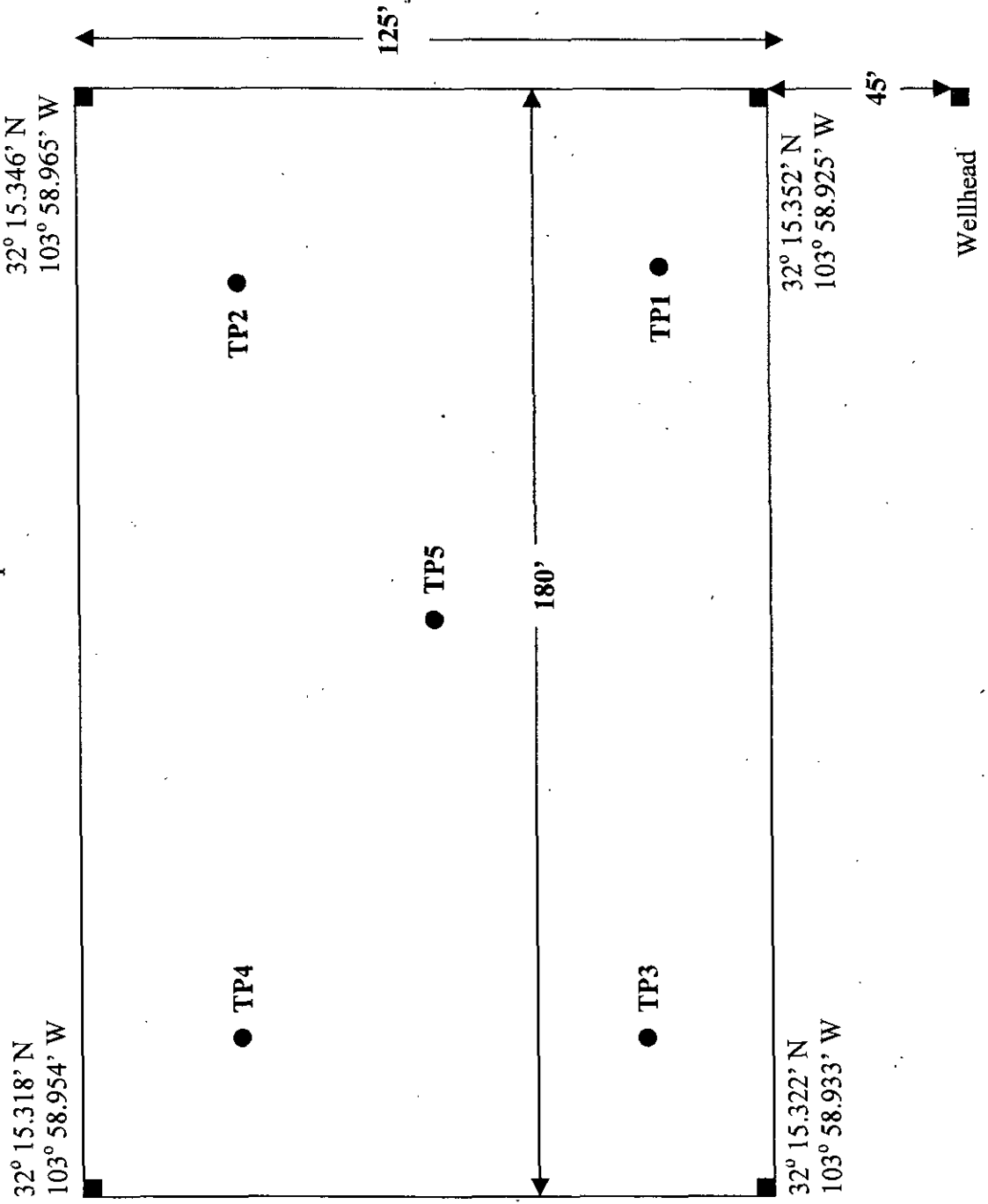
Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Logan Anderson	Approved by District Supervisor:		
Title: Consultant	Approval Date:	Expiration Date:	
E-mail Address: la_elkeenv@yahoo.com	Conditions of Approval:		Attached ☐
Date: 1-12-09	Phone: 432-366-0043		

* Attach Additional Sheets If Necessary



OXY USA – Cypress 33 Federal #1H
UL 'P' Sec.33 T23S R29E Eddy County

Initial Plat Map



Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report FormClient Oxy USA Analyst Jason JessupSite Cypress 33 Federal #1H

Sample ID	Date	Depth	TPH / PPM	CI / PPM	PID / PPM	GPS
TP1	1-7-09	8'		365		32° 15.348' N 103° 58.941' W
TP2	1-7-09	8'		406		32° 15.345' N 103° 58.960' W
TP3	1-7-09	8'		2,900		32° 15.324' N 103° 58.939' W
TP3	1-7-09	10'		1,323		32° 15.324' N 103° 58.939' W
TP3	1-7-09	12'		1,474		32° 15.324' N 103° 58.939' W
TP3	1-8-09	14'		1,676		32° 15.324' N 103° 58.939' W
TP3	1-8-09	16'		3,748		32° 15.324' N 103° 58.939' W
TP3	1-8-09	18'		801		32° 15.324' N 103° 58.939' W
TP3	1-9-09	20'		1,913		32° 15.324' N 103° 58.939' W
TP3	1-9-09	22'		1,453		32° 15.324' N 103° 58.939' W
TP3	1-9-09	24'		1,035		32° 15.324' N 103° 58.939' W
TP3	1-9-09	26'		441		32° 15.324' N 103° 58.939' W
TP4	1-7-09	8'		4,558		32° 15.321' N 103° 58.952' W
TP4	1-7-09	10'		2,168		32° 15.321' N 103° 58.952' W
TP4	1-7-09	12'		878		32° 15.321' N 103° 58.952' W
TP4	1-9-09	14'		411		32° 15.321' N 103° 58.952' W
TP5	1-7-09	8'		13,646		32° 15.333' N 103° 58.948' W

Analyst Notes _____

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA **Analyst** Jason Jessup

Site Cypress 33 Federal #1H

Sample ID	Date	Depth	TPH / PPM	CI / PPM	PID / PPM	GPS
TP5	1-7-09	10'		16,135		32° 15.333' N 103° 58.948' W
TP5	1-7-09	12'		21,080		32° 15.333' N 103° 58.948' W
TP5	1-8-09	14'		937		32° 15.333' N 103° 58.948' W
TP5	1-9-09	16'		822		32° 15.333' N 103° 58.948' W
TP5	1-9-09	18'		1,699		32° 15.333' N 103° 58.948' W
TP5	1-9-09	20'		1,483		32° 15.333' N 103° 58.948' W
TP5	1-9-09	22'		2,415		32° 15.333' N 103° 58.948' W
TP5	1-9-09	24'		2,667		32° 15.333' N 103° 58.948' W
TP5	1-9-09	26'		483		32° 15.333' N 103° 58.948' W
Background	1-9-09	Surface		241		
Background	1-9-09	15'		293		
Background	1-9-09	20'		448		

Analyst Notes _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) GOODNIGHT 27 FEDERAL #2H SB-1				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) OXY USA				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS PO BOX 1988				CITY CARLSBAD		STATE NM	ZIP 88221
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 16	SECONDS 41.00 N	* ACCURACY REQUIRED ONE TENTH OF A SECOND * DATUM REQUIRED WGS 84			
LONGITUDE 103		58		39.00 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS UL "L", EDDY COUNTY, NEW MEXICO								
2. OPTIONAL	1/4 ACRE	1/2 ACRE	3/4 ACRE	1 ACRE	SECTION 27	TOWNSHIP 235	RANGE 29	
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT	
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER	
3. DRILLING INFORMATION	LICENSE NUMBER		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 1/8/09		DRILLING ENDED 1/8/09		DEPTH OF COMPLETED WELL (FT) 98		BORE HOLE DEPTH (FT) 87	
	COMPLETED WELL IS:		☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)			DEPTH WATER FIRST ENCOUNTERED (FT) 87		
	DRILLING FLUID		☒ AIR ☐ MUD ☐ ADDITIVES - SPECIFY			STATIC WATER LEVEL IN COMPLETED WELL (FT)		
	DRILLING METHOD		☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY					
	DEPTH (FT)		BORE HOLE DIA (IN)		CASING MATERIAL		CONNECTION TYPE (CASING)	
	FROM	TO	DIA (IN)		MATERIAL		TYPE (CASING)	
	0	98	6"		N/A		N/A	
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)		FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)			YIELD (GPM)
	FROM	TO	THICKNESS (FT)					
	87	90	3		RED SILTY SAND/SILTY CLAY/GRAY CLAY			
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)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
	FROM	TO			
	0	4	4	TAN FINE SAND/CALICHE	☐ YES ☒ NO
	4	37	33	TAN FINE SAND/SANDSTONE/CALICHE	☐ YES ☒ NO
	37	39	2	TAN SILTY SAND WITH CLAY	☐ YES ☒ NO
	39	43	4	RED SILTY CLAY	☐ YES ☒ NO
	43	46	3	TAN FINE VERY FINE SAND/SANDSTONE	☐ YES ☒ NO
	46	58	12	TAN SILTY SAND/CALICHE	☐ YES ☒ NO
	58	64	6	RED SANDY CLAY	☐ YES ☒ NO
	64	90	26	RED SILTY SAND/SILTY CLAY/GRAY CLAY	☐ YES ☒ NO
	90	98	8	GRAY SANDY CLAY	☐ 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 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 322199

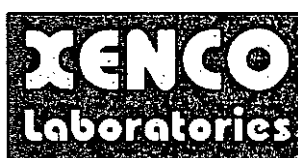
for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oyx USA

20-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**



20-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: **322199**
Oyx USA
Project Address: Cypress 33 Federal # 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 322199. 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. 322199 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Sample Cross Reference 322199



Elke Environmental, Inc., Odessa, TX

Oyx USA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP # 1 @ 8'	S	Jan-09-09 10:40	8 ft	322199-001
TP # 2 @ 8'	S	Jan-09-09 11:00	8 ft	322199-002
TP # 3 @ 26'	S	Jan-09-09 11:15	26 ft	322199-003
TP # 4 @ 14'	S	Jan-09-09 11:20	14 ft	322199-004
TP # 5 @ 26'	S	Jan-09-09 11:50	26 ft	322199-005



Certificate of Analysis Summary 322199

Elke Environmental, Inc., Odessa, TX



Project Name: Oyx USA

Project Id:

Contact: Logan Anderson

Project Location: Cypress 33 Federal # 1

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

Report Date: 20-JAN-09

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	322199-001	322199-002	322199-003	322199-004	322199-005
	Field Id:	TP # 1 @ 8'	TP # 2 @ 8'	TP # 3 @ 26'	TP # 4 @ 14'	TP # 5 @ 26'
	Depth:	8 ft	8 ft	26 ft	14 ft	26 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
Anions by EPA 300	Sampled:	Jan-09-09 10:40	Jan-09-09 11:00	Jan-09-09 11:15	Jan-09-09 11:20	Jan-09-09 11:50
	Extracted:					
	Analyzed:	Jan-12-09 16:19	Jan-12-09 16:19	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	mg/kg RL	mg/kg RL
BTX by EPA 8021B	Chloride	341 10.3	207 22.1	176 11.0	173 10.9	245 10.4
	Extracted:	Jan-12-09 08:00	Jan-12-09 08:00	Jan-12-09 08:00	Jan-12-09 08:00	Jan-12-09 08:00
	Analyzed:	Jan-12-09 13:46	Jan-12-09 14:07	Jan-12-09 14:28	Jan-12-09 14:49	Jan-12-09 15:11
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Percent Moisture	Benzene	ND 0.0010	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0010
	Toluene	ND 0.0021	ND 0.0022	ND 0.0022	ND 0.0022	ND 0.0021
	Ethylbenzene	ND 0.0010	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0010
	m,p-Xylenes	ND 0.0021	ND 0.0022	ND 0.0022	ND 0.0022	ND 0.0021
TPH By SW8015 Mod	o-Xylene	ND 0.0010	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0010
	Total Xylenes	ND 0.0021	ND 0.0022	ND 0.0022	ND 0.0022	ND 0.0021
	Total BTX	ND 0.0010	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0010
	Percent Moisture	2.58 1.00	9.52 1.00	8.73 1.00	8.52 1.00	3.48 1.00
C6-C12 Gasoline Range Hydrocarbons	Extracted:	Jan-12-09 11:30	Jan-12-09 11:30	Jan-12-09 11:30	Jan-12-09 11:30	Jan-12-09 11:30
	Analyzed:	Jan-12-09 13:00	Jan-12-09 13:00	Jan-12-09 13:00	Jan-12-09 13:00	Jan-12-09 13:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	C12-C28 Diesel Range Hydrocarbons	ND 15.4	ND 16.6	ND 16.4	ND 16.4	ND 15.5
C28-C35 Oil Range Hydrocarbons	Extracted:	Jan-12-09 15:28	Jan-12-09 15:51	Jan-12-09 16:13	Jan-12-09 16:36	Jan-12-09 16:59
	Analyzed:	Jan-12-09 16:00	Jan-12-09 16:00	Jan-12-09 16:00	Jan-12-09 16:00	Jan-12-09 16:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Total TPH	ND 15.4	ND 16.6	ND 16.4	ND 16.4	ND 15.5

This analytical report, and the online 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
Odessa Laboratory Director



Certificate of Analysis Summary 322199

Elke Environmental, Inc., Odessa, TX

Project Name: Oyx USA



Project Id:
Contact: Logan Anderson
Project Location: Cypress 33 Federal # 1

Date Received in Lab: Fri Jan-09-09 05:02 pm
Report Date: 20-JAN-09

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	322199-001	322199-002	322199-003	322199-004	322199-005
	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	TP # 1 @ 8'	TP # 2 @ 8'	TP # 3 @ 26'	TP # 4 @ 14'	TP # 5 @ 26'
TPH by EPA 418.1						8 ft	8 ft	26 ft	14 ft	26 ft
						SOIL	SOIL	SOIL	SOIL	SOIL
TPH, Total Petroleum Hydrocarbons						Jan-09-09 10:40	Jan-09-09 11:00	Jan-09-09 11:15	Jan-09-09 11:20	Jan-09-09 11:50
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						ND	ND	ND	61.8	11.5
						10.3	11.1	11.0	10.9	10.4
						RL	RL	RL	RL	RL

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
Odessa Laboratory Director

- 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.

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4143 Greenbriar Dr, Stafford, Tx 77477
 9701 Harry Hines Blvd , Dallas, TX 75220
 5332 Blackberry Drive, San Antonio TX 78238
 2505 North Falkenburg Rd, Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014
 12600 West I-20 East, Odessa, TX 79765
 842 Cantwell Lane, Corpus Christi, TX 78408

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Oyx USA

Work Orders : 322199,

Project ID:

Lab Batch #: 746243

Sample: 322199-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 746243

Sample: 322199-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0267	0.0300	89	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 746243

Sample: 322199-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

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	0.0289	0.0300	96	80-120	

Lab Batch #: 746243

Sample: 322199-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0350	0.0300	117	80-120	

Lab Batch #: 746243

Sample: 322199-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0346	0.0300	115	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 \times A / B$

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



Form 2 - Surrogate Recoveries

Project Name: Oyx USA

Work Orders : 322199,

Project ID:

Lab Batch #: 746243

Sample: 322199-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0349	0.0300	116	80-120	

Lab Batch #: 746243

Sample: 322199-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0345	0.0300	115	80-120	

Lab Batch #: 746243

Sample: 522765-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 746243

Sample: 522765-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0322	0.0300	107	80-120	
4-Bromofluorobenzene	0.0339	0.0300	113	80-120	

Lab Batch #: 746243

Sample: 522765-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

** 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: Oyx USA

Work Orders : 322199,

Project ID:

Lab Batch #: 746298

Sample: 322199-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	50.5	50.0	101	70-135	

Lab Batch #: 746298

Sample: 322199-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	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

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	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: 322199-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

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	50.7	50.0	101	70-135	

Lab Batch #: 746298

Sample: 322199-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	50.4	50.0	101	70-135	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 \times A / B$

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



Form 2 - Surrogate Recoveries

Project Name: Oyx USA

Work Orders : 322199,

Project ID:

Lab Batch #: 746298

Sample: 322199-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.1	100	99	70-135	
o-Terphenyl	50.1	50.0	100	70-135	

Lab Batch #: 746298

Sample: 322199-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.3	100	99	70-135	
o-Terphenyl	49.8	50.0	100	70-135	

Lab Batch #: 746298

Sample: 522806-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	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

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	51.7	50.0	103	70-135	

Lab Batch #: 746298

Sample: 522806-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	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] = $100 \times A / B$

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



Blank Spike Recovery



Project Name: Oyx USA

Work Order #: 322199

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: Oyx USA

Work Order #: 322199

Analyst: ASA

Lab Batch ID: 746243

Units: mg/kg

Date Prepared: 01/12/2009

Batch #: 1

Sample: 522765-1-BKS

Project ID:
Date Analyzed: 01/12/2009

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/kg											
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 %RPD	Flag
Analytes											
Benzene		ND	0.1000	0.1033	103	0.1	0.1081	108	5	70-130	35
Toluene		ND	0.1000	0.0990	99	0.1	0.1036	104	5	70-130	35
Ethylbenzene		ND	0.1000	0.0990	99	0.1	0.1066	107	7	71-129	35
m,p-Xylenes		ND	0.2000	0.1974	99	0.2	0.2101	105	6	70-135	35
o-Xylene		ND	0.1000	0.0948	95	0.1	0.1003	100	6	71-133	35

Analyst: ASA

Lab Batch ID: 746881

Units: mg/kg

Date Prepared: 01/19/2009

Batch #: 1

Sample: 746881-1-BKS

Date Analyzed: 01/19/2009

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg	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
	TPH by EPA 418.1											
	TPH, Total Petroleum Hydrocarbons	ND	2500	2500	100	2500	2420	97	3	65-135	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



BS / BSD Recoveries



Project Name: Oyx USA

Work Order #: 322199

Analyst: ASA

Lab Batch ID: 746981

Sample: 746981-1-BKS

Units: mg/kg

Project ID:

Date Analyzed: 01/20/2009

Batch #: 1

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
TPH by EPA 418.1		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												
TPH, Total Petroleum Hydrocarbons		ND	2500	2480	99	2500	2510	100	1	65-135	35	

Analyst: BHW

Lab Batch ID: 746298

Sample: 522806-1-BKS

Units: mg/kg

Date Prepared: 01/12/2009

Batch #: 1

Date Analyzed: 01/12/2009

Matrix: Solid

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	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: Oyx USA



Work Order #: 322199

Lab Batch #: 746220

Date Analyzed: 01/12/2009

QC- Sample ID: 322199-001 S

Reporting Units: mg/kg

Date Prepared: 01/12/2009

Batch #: 1

Project ID:

Analyst: LATCOR

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 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] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Oyx USA

Work Order #: 322199

Lab Batch ID: 746243

Date Analyzed: 01/12/2009

Reporting Units: mg/kg

Project ID:

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

Date Prepared: 01/12/2009 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	0.1026	0.0862	84	0.1026	0.0814	79	6	70-130	35
	Toluene	ND	0.1026	0.0840	82	0.1026	0.0791	77	6	70-130	35
	Ethylbenzene	ND	0.1026	0.0873	85	0.1026	0.0835	81	5	71-129	35
	m,p-Xylenes	ND	0.2053	0.1773	86	0.2053	0.1662	81	6	70-135	35
	o-Xylene	ND	0.1026	0.0832	81	0.1026	0.0784	76	6	71-133	35

Lab Batch ID: 746881

Date Analyzed: 01/19/2009

Reporting Units: mg/kg

QC- Sample ID: 321733-023 S Batch #: 1 Matrix: Soil

Date Prepared: 01/19/2009 Analyst: ASA

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Reporting Units: mg/kg											
	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
TPH by EPA 418.1											
TPH, Total Petroleum Hydrocarbons	ND	2680	2750	103	2680	2720	101	2	65-135	35	

Lab Batch ID: 746981

Date Analyzed: 01/20/2009

Reporting Units: mg/kg

QC- Sample ID: 322764-005 S Batch #: 1 Matrix: Soil

Date Prepared: 01/20/2009 Analyst: ASA

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
TPH by EPA 418.1											
Analytes											
TPH, Total Petroleum Hydrocarbons	ND	2680	2540	95	2680	2560	96	1	65-135	35	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$

Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

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

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



Form 3 - MS / MSD Recoveries



Project Name: Oyx USA

Work Order #: 322199

Lab Batch ID: 746298

Date Analyzed: 01/13/2009

Reporting Units: mg/kg

Project ID:

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

Date Prepared: 01/12/2009 Analyst: BHW

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	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)|

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

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



Sample Duplicate Recovery



Project Name: Oyx USA

Work Order #: 322199

Lab Batch #: 746220

Date Analyzed: 01/12/2009

QC- Sample ID: 322199-001 D

Reporting Units: mg/kg

Project ID:

Analyst: LATCOR

Date Prepared: 01/12/2009

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	341	343	1	20	

Lab Batch #: 746179

Date Analyzed: 01/12/2009

QC- Sample ID: 322201-001 D

Reporting Units: %

Date Prepared: 01/12/2009

Batch #: 1

Analyst: WRU

Matrix: Soil

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

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: EKE LHO
Date/ Time: 19-09-1702
Lab ID #: 322177
Initials: CL

Sample Receipt Checklist

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