

RECEIVED

By OCD District 1 at 1:52 pm, Jul 13, 2015



Environmental & Safety Solutions, Inc.

APPROVED ; Conditional

By OCD District 1 at 1:52 pm, Jul 13, 2015

1. Pending BLM approval/concurrence.

Electronic Correspondence

July 2, 2015

Kellie Jones
State of New Mexico
Oil Conservation Division
1625 N. French Dr.
Hobbs, New Mexico 88240
kellie.jones@state.nm.us

Re: **Remediation and Closure Report**
SOGO III, LLC, Wimberly 5,6,7 Battery – RP No.: 3666
API No.: 30-025-24482
Legal: Unit G – Sec 12 – T24S – R32E – 660 FSL, 660 FEL - Lea Co., NM
GPS: 32.2376546, -103.6389687
Depth to Groundwater: 525 ft bgs
Release Type: Crude Oil

Contaminants of Concern (COC's)	Threshold Limits
Total Petroleum Hydrocarbons (TPH)	1000 mg/kg
Benzene	10 mg/kg
BTEX	10 mg/kg

Dear Kellie:

Etech Environmental & Safety Solutions, Inc. (Etech) is pleased to submit the following remediation and closure report on the aforementioned site for your review and approval.

Background

The release occurred due to a tank overflow. The release migrated northeast on the production pad, then migrated northeast off site and followed a lease road for approximately 600 feet, and impacting a pasture area 30 feet long by 8 feet wide. The impacted area of the production pad, caliche road and the pasture appeared to be surficial and limited to 6 inches. An immediate response was made in an effort to remove the standing fluids and minimize the depth of the impacted area. A copy of the C-141 is provided in Attachment A. An annotated aerial photograph showing the release area and TPH levels is provided in Attachment B. Photographs of the release area are provided in Attachment C. Analytical data is provided in Attachment D.

Remediation Activity Summary

The impacted soils above regulatory threshold levels were excavated from the spill area utilizing a backhoe. Impacted soils were transported off site for disposal. Once the impacted soils were removed to acceptable levels, the production pad, caliche road, and pasture areas were backfilled with like materials. The site was restored to "as near as possible" to its original state. Seeding will take place when the seasonal conditions are conducive to maximizing the potential for seed germination. The site will be seeded with a range mix approved by the land owner.

Actual seeding will be accomplished by broadcast or drilling, whichever is the most practical for the site. A review of the analytical data indicated the sample is within the Oil Conservation Division (OCD) regulatory threshold limits. Based upon this information, it has been determined that remediation of the site is complete.

Analytical Summary

Wimberly 5,6,7 Battery Analytical Results July 2, 2015													
Sample Information			TPH Results (mg/kg)				BTEX Results (mg/L)						
Date	Sample I.D.	Depth (ft)	C6-C12	C12-C24	C24-C38	Total TPH	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylenes	Total Xylenes	Total BTEX
04/16/15	SP1	6"	47.7	59.6	30.4	138.0	ND	0.056	0.0794	0.194	0.111	0.305	0.400

Thank you for your assistance on this matter. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact Mr. Bill Priebe at (432) 640-0040 (Office) or via email at BPriebe@stanolind.com or myself at (432) 563-2200 (office) or via email at Kit@etechenv.com.

Respectfully:

*Kit Prichard – Project Manager
Etech Environmental & Safety Solutions, Inc.*

Attachment A
Final C-141

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 August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report


Name of Company: SOGO III LLC	Contact: Bill Priebe	
Address: PO Box 210 Midland, Tx 79702	Telephone No.: 432-640-0040	
Facility Name: Wimberly 5, 6, 7	Facility Type: Tank Battery	
Surface Owner: State	Mineral Owner: State	API No.: 30-025-24482

LOCATION OF RELEASE

Unit Letter G	Section 12	Township 24	Range 32	Feet from the 660	North/South Line NL	Feet from the 660	East/West Line EL	County Lea County
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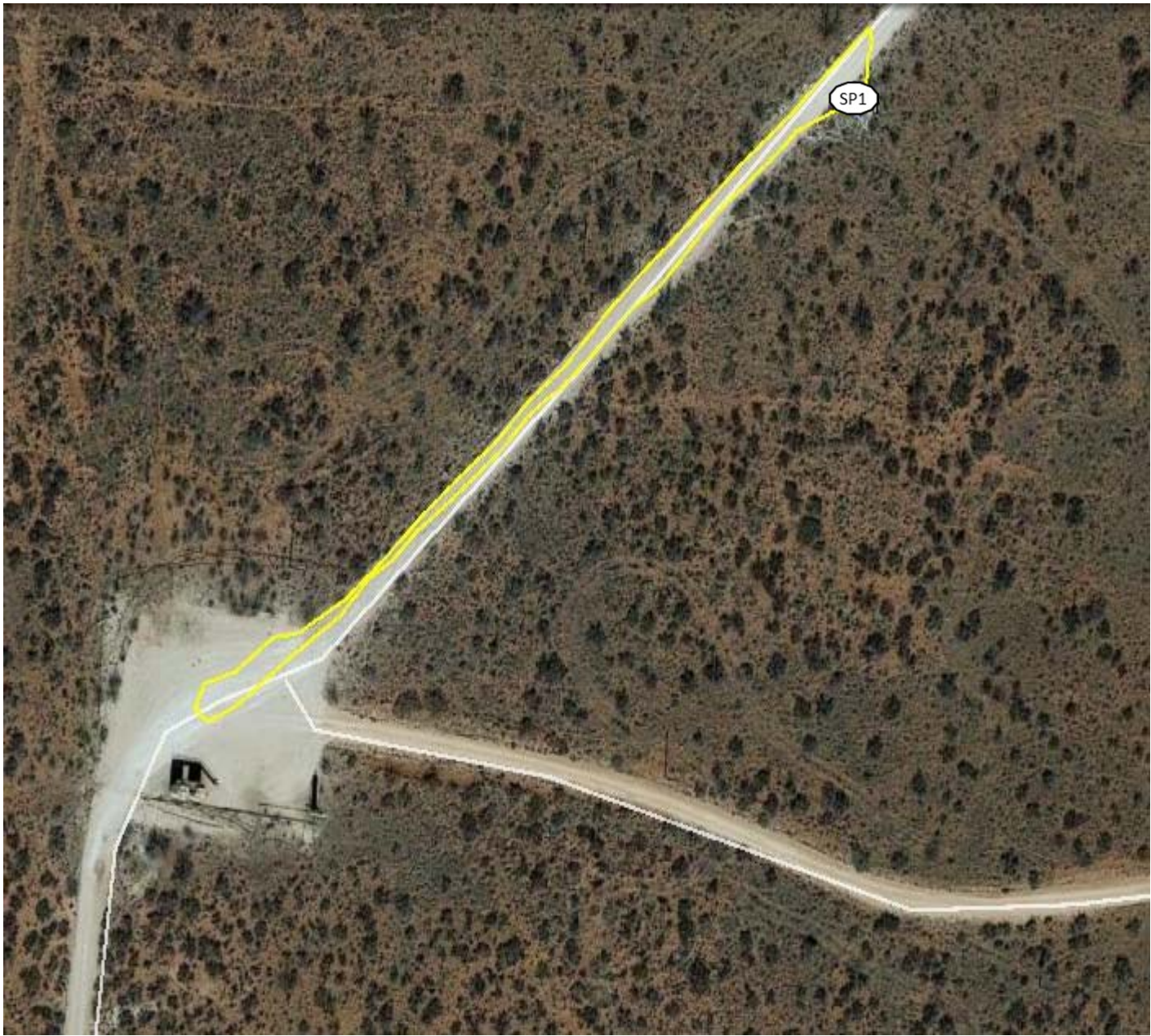
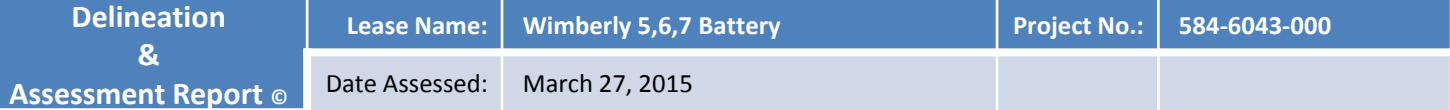
Latitude: 32.2376546 Longitude: -103.6389687

NATURE OF RELEASE

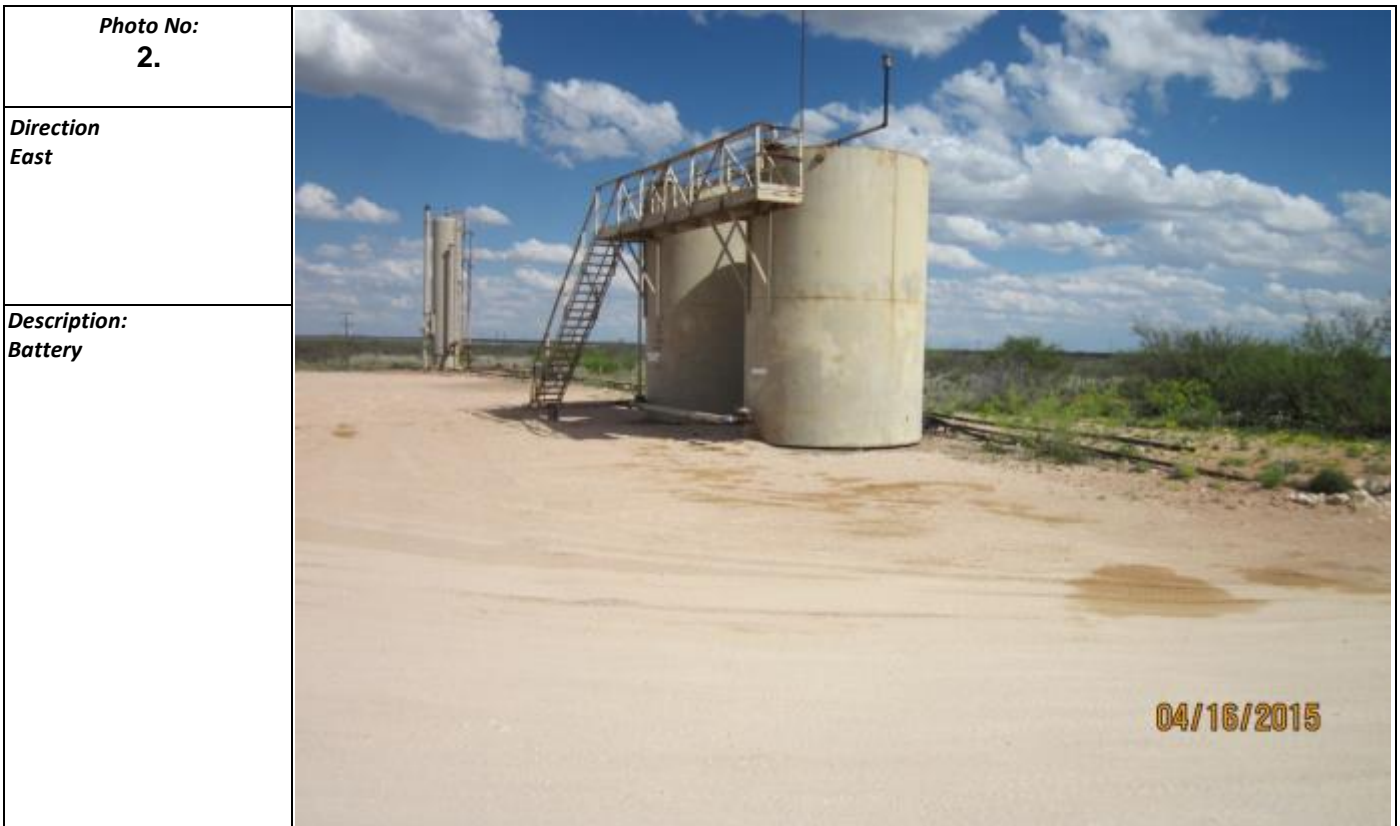
Type of Release: Oil	Volume of Release: 78	Volume Recovered: 5
Source of Release: Tank Overflow	Date and Hour of Occurrence: 03/26/2015	Date and Hour of Discovery: 03/26/2015
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jeff Robertson	
By Whom?	Date and Hour: 03/26/15 - 1600 hrs.	
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.*: Hole in tank from corrosion. Initial response was to remove free standing fluid from the surface to prevent further vertical migration. Impacted soils were stored on location for disposal.		
Describe Cause of Problem and Remedial Action Taken.*: Hole in tank from corrosion. Initial response was to remove free standing fluid from the surface to prevent further vertical migration. Impacted soils were stored on location for disposal.		
Describe Area Affected and Cleanup Action Taken.* : Release impacted 740' of caliche road approximately 6' wide, and impacting the pasture area 12'X10'. Excavated soils were transported off-site for disposal. Sampling confirmed clearance for pasture area at less than 500 mg/kg and less than 1,000 for road area.		
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: Billy M. Priebe	Approved by District Supervisor:	
Title: Ex. VP - Operations	Approval Date:	Expiration Date:
E-mail Address: bpriebe@stanolind.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5/15/15	Phone: 432-690-0040	

* Attach Additional Sheets If Necessary

Attachment B
Annotated Aerial Imagery

[illegible]

Attachment C
Photograph Log







Attachment D
Analytical Results

Analytical Report 506690
for
Etech Environmental & Safety Solution, Inc

Project Manager: Kit Prichard

Wimbery 5,6,7 Battery

584-6043-000

01-MAY-15

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



01-MAY-15

Project Manager: **Kit Prichard**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **506690**
Wimbery 5,6,7 Battery
Project Address: TX

Kit Prichard:

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(s) 506690. 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. The uncertainty of measurement associated with the results of analysis reported is available upon request. 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. 506690 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,

Julian Martinez

Project Manager

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Certified and approved by numerous States and Agencies.

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 506690



Etech Environmental & Safety Solution, Inc, Midland, TX

Wimbery 5,6,7 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample Point 1	S	04-16-15 15:00	0 - 6 In	506690-001



CASE NARRATIVE



Client Name: *Etech Environmental & Safety Solution, Inc*

Project Name: *Wimbery 5,6,7 Battery*

Project ID: 584-6043-000

Work Order Number(s): 506690

Report Date: 01-MAY-15

Date Received: 04/24/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 506690

Etech Environmental & Safety Solution, Inc, Midland, TX



Project Id: 584-6043-000

Contact: Kit Prichard

Project Location: TX

Project Name: Wimbery 5,6,7 Battery

Date Received in Lab: Fri Apr-24-15 11:18 am

Report Date: 01-MAY-15

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id: 506690-001 Field Id: Sample Point 1 Depth: 0-6 In Matrix: SOIL Sampled: Apr-16-15 15:00					
BTEX by EPA 8021B	Extracted: Apr-28-15 15:00 Analyzed: Apr-28-15 21:32 Units/RL: mg/kg RL					
Benzene	ND 0.00101					
Toluene	0.0156 0.00201					
Ethylbenzene	0.0794 0.00101					
m,p-Xylenes	0.194 0.00201					
o-Xylene	0.111 0.00101					
Total Xylenes	0.305 0.00101					
Total BTEX	0.400 0.00101					
Percent Moisture	Extracted: Analyzed: Apr-30-15 17:00 Units/RL: % RL					
Percent Moisture	ND 1.00					
TPH By SW8015 Mod	Extracted: Apr-24-15 13:00 Analyzed: Apr-24-15 17:27 Units/RL: mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons	47.7 14.9					
C12-C28 Diesel Range Hydrocarbons	59.6 14.9					
C28-C35 Oil Range Hydrocarbons	30.4 14.9					
Total TPH	138 14.9					

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi



Julian Martinez
Project Manager

- 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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- 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.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Sample Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 9701 Harry Hines Blvd, Dallas, TX 75220
 5332 Blackberry Drive, San Antonio TX 78238
 2505 North Falkenburg Rd, Tampa, FL 33619
 12600 West I-20 East, Odessa, TX 79765
 6017 Financial Drive, Norcross, GA 30071
 3725 E. Atlanta Ave, Phoenix, AZ 85040

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
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Wimbery 5,6,7 Battery

Work Orders : 506690,

Project ID: 584-6043-000

Lab Batch #: 966750

Sample: 506690-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/15 17:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.0	99.6	92	70-135	
o-Terphenyl	42.8	49.8	86	70-135	

Lab Batch #: 967064

Sample: 506690-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/28/15 21:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 966750

Sample: 691704-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/24/15 09:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.6	100	100	70-135	
o-Terphenyl	51.0	50.0	102	70-135	

Lab Batch #: 967064

Sample: 691704-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/28/15 17:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 966750

Sample: 691704-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/24/15 10:04

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	50.9	50.0	102	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: Wimbery 5,6,7 Battery

Work Orders : 506690,

Project ID: 584-6043-000

Lab Batch #: 967064

Sample: 691904-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/28/15 18:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 966750

Sample: 691704-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/24/15 10:26

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	51.3	50.0	103	70-135	

Lab Batch #: 967064

Sample: 691904-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/28/15 18:31

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 966750

Sample: 506633-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/15 11:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.8	119	70-135	
o-Terphenyl	51.3	49.9	103	70-135	

Lab Batch #: 967064

Sample: 506834-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/28/15 18:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0315	0.0300	105	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: Wimbery 5,6,7 Battery

Work Orders : 506690,

Project ID: 584-6043-000

Lab Batch #: 966750

Sample: 506633-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/15 11:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.9	113	70-135	
o-Terphenyl	48.5	50.0	97	70-135	

Lab Batch #: 967064

Sample: 506834-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/28/15 19:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	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.

Project Name: Wimbery 5,6,7 Battery

Work Order #: 506690

Project ID: 584-6043-000

Analyst: ARM

Date Prepared: 04/28/2015

Date Analyzed: 04/28/2015

Lab Batch ID: 967064

Sample: 691904-1-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	<0.00100	0.100	0.0969	97	0.100	0.0972	97	0	70-130	35	
Toluene	<0.00200	0.100	0.100	100	0.100	0.100	100	0	70-130	35	
Ethylbenzene	<0.00100	0.100	0.105	105	0.100	0.106	106	1	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.211	106	0.200	0.212	106	0	70-135	35	
o-Xylene	<0.00100	0.100	0.104	104	0.100	0.105	105	1	71-133	35	

Analyst: ARM

Date Prepared: 04/24/2015

Date Analyzed: 04/24/2015

Lab Batch ID: 966750

Sample: 691704-1-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	<15.0	1000	962	96	1000	978	98	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1000	100	1000	1030	103	3	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 / MSD Recoveries



Project Name: Wimbery 5,6,7 Battery

Work Order #: 506690

Project ID: 584-6043-000

Lab Batch ID: 967064

QC- Sample ID: 506834-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 04/28/2015

Date Prepared: 04/28/2015

Analyst: ARM

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	0.00131	0.112	0.102	90	0.112	0.101	89	1	70-130	35	
Toluene	<0.00224	0.112	0.101	90	0.112	0.0993	89	2	70-130	35	
Ethylbenzene	<0.00112	0.112	0.100	89	0.112	0.0985	88	2	71-129	35	
m,p-Xylenes	<0.00224	0.224	0.201	90	0.224	0.196	88	3	70-135	35	
o-Xylene	<0.00112	0.112	0.100	89	0.112	0.0984	88	2	71-133	35	

Lab Batch ID: 966750

QC- Sample ID: 506633-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 04/24/2015

Date Prepared: 04/24/2015

Analyst: ARM

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	<17.4	1160	1160	100	1160	1120	97	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<17.4	1160	1220	105	1160	1150	99	6	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, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: Wimbery 5,6,7 Battery

Work Order #: 506690

Lab Batch #: 967265

Project ID: 584-6043-000

Date Analyzed: 04/30/2015 17:00

Date Prepared: 04/30/2015

Analyst: WRU

QC- Sample ID: 507000-024 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	14.2	14.4	1	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

Xenco Laboratories

The Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Kit Rignard

Company Name: Etech Environmental

Company Address: PO Box 8469

City/State/Zip: Midland Tx 79708

Telephone No: 432-2200

Fax No: 432-2213

Sampler Signature: _____

e-mail: Kit@etechenv.com

Project Name: Winery 567 Boat

Project #: 564-0043-00

Project Loc: 806011

PO #:

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #:

506690

LAB # (lab use only)

FIELD CODE

Sample part 1

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

No. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 4181 8015M 1005 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, CO₃, HCO₃)

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

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

Special Instructions: Please CC: Britney@etechenv.com

3-27-15 PERCARE

Relinquished by:

Britney Barry

Date

4-23-15

Time

Time

Received by:

Received by:

Date

4/24/15 11:18

Time

Time

Laboratory Comments:

Sample Containers Intact?

VOOCs Free of Headspace?

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered by Sampler/Client Rep.?

by Courier? UPS DHL

Temperature Upon Receipt:

10.5 °C

Y

Y

Y

Y

Y

Y

Y

N

N

N

N

N

N

N

N

N

N

N

N

N

N



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 04/24/2015 11:18:00 AM

Work Order #: 506690

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	10.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:


Kelsey Brooks

Date: 04/24/2015

Checklist reviewed by:


Julian Martinez

Date: 04/24/2015