

Analytical Report 519775

for
Talon LPE

Project Manager: Sheldon Hitckcock
Cal B

25-NOV-15

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

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)



25-NOV-15

Project Manager: **Sheldon Hitckcock**

Talon LPE

408 W. Texas St.

Artesia, NM 88210

Reference: XENCO Report No(s): **519775**

Cal B

Project Address: NM

Sheldon Hitckcock:

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) 519775. 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. 519775 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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Sample Cross Reference 519775



Talon LPE, Artesia, NM

Cal B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 0.5'	S	11-18-15 11:18	- 0.5 ft	519775-001
S-2 0.5'	S	11-18-15 11:25	- 0.5 ft	519775-002



CASE NARRATIVE



Client Name: Talon LPE

Project Name: Cal B

Project ID:

Work Order Number(s): 519775

Report Date: 25-NOV-15

Date Received: 11/19/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 519775

Talon LPE, Artesia, NM

Project Name: Cal B



Project Id:

Contact: Sheldon Hirtcock

Project Location: NM

Date Received in Lab: Thu Nov-19-15 08:05 am

Report Date: 25-NOV-15

Project Manager: Kelsey Brooks

Analysis Requested		Lab Id:	519775-001	519775-002		
		Field Id:	S-1 0.5'	S-2 0.5'		
		Depth:	0.5 ft	0.5 ft		
		Matrix:	SOIL	SOIL		
		Sampled:	Nov-18-15 11:18	Nov-18-15 11:25		
BTEX by EPA 8021B		Extracted:	Nov-19-15 13:00	Nov-19-15 13:00		
		Analyzed:	Nov-20-15 12:37	Nov-20-15 12:53		
		Units/RL:	mg/kg RL	mg/kg RL		
Benzene			ND 0.00101	ND 0.00101		
Toluene			ND 0.00202	ND 0.00202		
Ethylbenzene			ND 0.00101	ND 0.00101		
m,p-Xylenes			ND 0.00202	ND 0.00202		
o-Xylene			ND 0.00101	ND 0.00101		
Total Xylenes			ND 0.00101	ND 0.00101		
Total BTEX			ND 0.00101	ND 0.00101		
TPH By SW8015B Mod		Extracted:	Nov-20-15 10:00	Nov-20-15 10:00		
		Analyzed:	Nov-20-15 17:37	Nov-20-15 18:02		
		Units/RL:	mg/kg RL	mg/kg RL		
C6-C10 Gasoline Range Hydrocarbons			ND 15.0	ND 15.0		
C10-C28 Diesel Range Hydrocarbons			54.5 15.0	340 15.0		
C28-C35 Oil Range Hydrocarbons			ND 15.0	ND 15.0		
Total TPH			54.5 15.0	340 15.0		

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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Julian Martinez
Project 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 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 **MQL** Method 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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2505 North Falkenburg Rd, Tampa, FL 33619
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(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Cal B

Work Orders : 519775,

Lab Batch #: 981759

Sample: 519775-001 / SMP

Project ID:

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/20/15 12:37

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0321	0.0300	107	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 981759

Sample: 519775-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/20/15 12:53

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0321	0.0300	107	80-120	
4-Bromofluorobenzene	0.0342	0.0300	114	80-120	

Lab Batch #: 982033

Sample: 519775-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/20/15 17:37

SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	81.6	100	82	70-135	
o-Terphenyl	36.4	50.0	73	70-135	

Lab Batch #: 982033

Sample: 519775-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/20/15 18:02

SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	80.7	99.8	81	70-135	
o-Terphenyl	36.8	49.9	74	70-135	

Lab Batch #: 981759

Sample: 701109-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/19/15 12:19

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	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: Cal B

Work Orders : 519775,

Project ID:

Lab Batch #: 982033

Sample: 701239-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/20/15 11:33

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	43.7	50.0	87	70-135	

Lab Batch #: 981759

Sample: 701109-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/19/15 12:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0344	0.0300	115	80-120	
4-Bromofluorobenzene	0.0332	0.0300	111	80-120	

Lab Batch #: 982033

Sample: 701239-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/20/15 12:08

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	46.6	50.0	93	70-135	

Lab Batch #: 981759

Sample: 701109-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/19/15 12:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0358	0.0300	119	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 982033

Sample: 701239-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/20/15 12:47

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	44.4	50.0	89	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: Cal B

Work Orders : 519775,

Project ID:

Lab Batch #: 981759

Sample: 519729-017 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/19/15 16:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0349	0.0300	116	80-120	
4-Bromofluorobenzene	0.0359	0.0300	120	80-120	

Lab Batch #: 982033

Sample: 519769-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/15 09:15

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.8	105	70-135	
o-Terphenyl	37.9	49.9	76	70-135	

Lab Batch #: 981759

Sample: 519729-017 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/19/15 16:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0347	0.0300	116	80-120	
4-Bromofluorobenzene	0.0360	0.0300	120	80-120	

Lab Batch #: 982033

Sample: 519769-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/15 09:54

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.7	99.9	97	70-135	
o-Terphenyl	35.1	50.0	70	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.

Project Name: Cal B

Work Order #: 519775

Analyst: SYG

Lab Batch ID: 981759

Units: mg/kg

Date Prepared: 11/19/2015

Sample: 701109-1-BKS

Batch #: 1

Project ID:

Date Analyzed: 11/19/2015

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blank Spike Duplicate %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	<0.000998	0.0998	0.0839	84	0.100	0.0979	98	15	70-130	35	
Toluene	<0.00200	0.0998	0.0890	89	0.100	0.0986	99	10	70-130	35	
Ethylbenzene	<0.000998	0.0998	0.0964	97	0.100	0.109	109	12	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.200	100	0.200	0.225	113	12	70-135	35	
o-Xylene	<0.000998	0.0998	0.0941	94	0.100	0.104	104	10	71-133	35	

Date Prepared: 11/20/2015

Date Analyzed: 11/20/2015

Batch #: 1

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blank Spike Duplicate %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH By SW8015B Mod											
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	977	98	1000	1000	100	2	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	1120	112	1000	1120	112	0	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: Cal B



Work Order #: 519775

Lab Batch ID: 981759

Date Analyzed: 11/19/2015

Reporting Units: mg/kg

Project ID:

QC-Sample ID: 519729-017 S Batch #: 1 Matrix: Soil

Date Prepared: 11/19/2015 Analyst: SYG

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B		Parent Sample Result [A]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [B]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene		<0.00100	0.0655	66	0.100	0.0659	66	1	70-130	35	X
Toluene		<0.00200	0.0744	74	0.100	0.0755	76	1	70-130	35	
Ethylbenzene		<0.00100	0.0788	79	0.100	0.0796	80	1	71-129	35	
m,p-Xylenes		0.00321	0.165	81	0.201	0.168	82	2	70-135	35	
o-Xylene		<0.00100	0.0828	83	0.100	0.0863	86	4	71-133	35	

Lab Batch ID: 982033

Date Analyzed: 11/21/2015

Reporting Units: mg/kg

QC-Sample ID: 519769-001 S

Date Prepared: 11/20/2015 Analyst: PJB

Batch #: 1 Matrix: Soil

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod		Parent Sample Result [A]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [B]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C10 Gasoline Range Hydrocarbons		<15.0	995	100	998	929	93	7	70-135	35	
C10-C28 Diesel Range Hydrocarbons		<15.0	1050	105	998	986	99	6	70-135	35	

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

ND = Not Detected, I = 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.

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

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300

☒ 12600 West I-20 East, Odessa, TX 79765 432-563-1800

Company-City**Phone**

Lab Only:

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Project Name-Location	Previously done at XENCO	Project ID
Talon/LPE	☒ ART-sjid, NM	88210
		575-689-5148
		5/9/15

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

[illegible]

51 WITCH CREEK CIRCLE, CORN
 Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.
 Bill to: Rachel Johnson, BTP

[illegible]

Reg Program:	UST	DRY-CLEAN	Land-Fill	Waste-Disp	NPDES	DW	TRRP
MA							
CLP							
OP							
OCs							
3d							
mg/h							
and as							
by:							

QAPP	Per-Contract	CLP	AGCEE	NAVY	DOE	DOD	USACE OTHER:
1 A							
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ides							
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SV							
18h							
V,							
appl							
rove							
Rev							

[illegible]

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Sample Name	314-4Chcock
Signature	<i>John M. Pizzi</i>
DW	3370
GR	RCF/metal
DY	161
12th	26
urch	9
ns are	
Date	

[illegible]

Sample	Sampling Time	Site	Species	Number	Weight	Length	Wing	Tail	Bill	Foot	Claw	Sex	Age	Remarks
1	08:00	1	1	1	1.2	10.5	15.0	12.0	1.5	1.0	0.5	♂	Ad	1
2	08:15	1	1	1	1.1	10.0	14.5	11.5	1.4	0.9	0.4	♀	Ad	1
3	08:30	1	1	1	1.3	10.8	15.2	12.2	1.6	1.1	0.6	♂	Ad	1
4	08:45	1	1	1	1.2	10.5	15.0	12.0	1.5	1.0	0.5	♂	Ad	1
5	09:00	1	1	1	1.1	10.0	14.5	11.5	1.4	0.9	0.4	♀	Ad	1
6	09:15	1	1	1	1.3	10.8	15.2	12.2	1.6	1.1	0.6	♂	Ad	1
7	09:30	1	1	1	1.2	10.5	15.0	12.0	1.5	1.0	0.5	♂	Ad	1
8	09:45	1	1	1	1.1	10.0	14.5	11.5	1.4	0.9	0.4	♀	Ad	1
9	10:00	1	1	1	1.3	10.8	15.2	12.2	1.6	1.1	0.6	♂	Ad	1
10	10:15	1	1	1	1.2	10.5	15.0	12.0	1.5	1.0	0.5	♂	Ad	1
11	10:30	1	1	1	1.1	10.0	14.5	11.5	1.4	0.9	0.4	♀	Ad	1
12	10:45	1	1	1	1.3	10.8	15.2	12.2	1.6	1.1	0.6	♂	Ad	1
13	11:00	1	1	1	1.2	10.5	15.0	12.0	1.5	1.0	0.5	♂	Ad	1
14	11:15	1	1	1	1.1	10.0	14.5	11.5	1.4	0.9	0.4	♀	Ad	1
15	11:30	1	1	1	1.3	10.8	15.2	12.2	1.6	1.1	0.6	♂	Ad	1
16	11:45	1	1	1	1.2	10.5	15.0	12.0	1.5	1.0	0.5	♂	Ad	1
17	12:00	1	1	1	1.1	10.0	14.5	11.5	1.4	0.9	0.4	♀	Ad	1
18	12:15	1	1	1	1.3	10.8	15.2	12.2	1.6	1.1	0.6	♂	Ad	1
19	12:30	1	1	1	1.2	10.5	15.0	12.0	1.5	1.0	0.5	♂	Ad	1
20	12:45	1	1	1	1.1	10.0	14.5	11.5	1.4	0.9	0.4	♀	Ad	1
21	13:00	1	1	1	1.3	10.8	15.2	12.2	1.6	1.1	0.6	♂	Ad	1
22	13:15	1	1	1	1.2	10.5	15.0	12.0	1.5	1.0	0.5	♂	Ad	1
23	13:30	1	1	1	1.1	10.0	14.5	11.5	1.4	0.9	0.4	♀	Ad	1
24	13:45	1	1	1	1.3	10.8	15.2	12.2	1.6	1.1	0.6	♂	Ad	1
25	14:00	1	1	1	1.2	10.5	15.0	12.0	1.5	1.0	0.5	♂	Ad	1
26	14:15	1	1	1	1.1	10.0	14.5	11.5	1.4	0.9	0.4	♀	Ad	1
27	14:30	1	1	1	1.3	10.8	15.2	12.2	1.6	1.1	0.6	♂	Ad	1
28	14:45	1	1	1	1.2	10.5	15.0	12.0	1.5	1.0	0.5	♂	Ad	1
29	15:00	1	1	1	1.1	10.0	14.5	11.5	1.4	0.9	0.4	♀	Ad	1
30	15:15	1	1	1	1.3	10.8	15.2</							

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time	Total Containers per COC:	Cooler Temp: °C
m	10/16/87	m	10/16/87	1	4
n	10/16/87	n	10/16/87	1	4
Otherwise agreed on writing. Reports are the Intellectual Property of YENCO.					

1)	Small Admin. 11/19/2013	11/19/2013 20:00
2)	Small Admin. 11/18/2013	11/18/2013 13:48
3)	Small Admin. 11/18/2013	11/18/2013 13:48

5)	<i>[Signature]</i>	06/19/15	8:05
6)	<i>[Signature]</i>	06/19/15	8:05

	(A) Glass	(B) Various AN Glass	(C) Plastic	(D) Other
Preservatives:	Variou (N)	HCl pH<2 (S), HNO ₃ pH<2 (S), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), None (NA), See Label (L)	<4C (C)	Other (O)
Cleaner Sign:	4oz (A), 8oz (B), 16oz (C), 32oz (D)	Various AN Glass	Plastic	Other

Matrix: Air (A), Product (B), Solid (W), Liquid (L)
Cont. Size: 40Z, 80Z (P), 16Z (S), 32Z (V), 60Z (F), Plastic (T), Various (C), Glass (G), Glass Amp (X), Other _____
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Notice: Signature of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates.

subcontractors and assigns Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE

Date/ Time Received: 11/19/2015 08:05:00 AM

Work Order #: 519775

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)?	6
#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 HNO ₃ , HCL, H ₂ SO ₄ ? 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 NaAsO ₂ +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:

Carley Owens

Carley Owens

Date: 11/19/2015

Checklist reviewed by:

Kelsey Brooks

Kelsey Brooks

Date: 11/19/2015

Analytical Report 514334

for
Talon LPE

Project Manager: Sheldon Hitckcock

Cal B

701583.141.01

31-AUG-15

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

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)



31-AUG-15

Project Manager: **Sheldon Hitckcock**
Talon LPE
408 W. Texas St.
Artesia, NM 88210

Reference: XENCO Report No(s): **514334**
Cal B
Project Address:

Sheldon Hitckcock:

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) 514334. 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. 514334 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,

Kelsey Brooks

Project Manager

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Sample Cross Reference 514334



Talon LPE, Artesia, NM

Cal B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BOTTOM	S	08-25-15 12:00	- 12 ft	514334-001
N-WALL	S	08-25-15 12:00	- 12 ft	514334-002
E-WALL	S	08-25-15 12:00	- 12 ft	514334-003



CASE NARRATIVE



Client Name: Talon LPE

Project Name: Cal B

Project ID: 701583.141.01
Work Order Number(s): 514334

Report Date: 31-AUG-15
Date Received: 08/27/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 514334

Talon LPE, Artesia, NM

Project Name: Cal B

Project Id: 701583.141.01

Contact: Sheldon Hiteckcock

Project Location:

Date Received in Lab: Thu Aug-27-15 11:05 am

Report Date: 31-AUG-15

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	514334-001	514334-002	514334-003	
						BOTTOM 12 ft SOIL	N-WALL 12 ft SOIL	E-WALL 12 ft SOIL	
BTEX by EPA 8021B	Extracted:					Aug-27-15 18:00	Aug-29-15 17:00	Aug-29-15 17:00	
	Analyzed:					Aug-28-15 23:26	Aug-29-15 20:29	Aug-29-15 20:45	
	Units/RL:					mg/kg RL	mg/kg RL	mg/kg RL	
						ND 0.00117	ND 0.00118	ND 0.00108	
						ND 0.00234	ND 0.00235	ND 0.00217	
Benzene						ND 0.00117	ND 0.00118	ND 0.00108	
Toluene						ND 0.00117	ND 0.00118	ND 0.00108	
Ethylbenzene						ND 0.00117	ND 0.00118	ND 0.00108	
m,p-Xylenes						ND 0.00117	ND 0.00118	ND 0.00108	
o-Xylene						ND 0.00117	ND 0.00118	ND 0.00108	
Total Xylenes						ND 0.00117	ND 0.00118	ND 0.00108	
Total BTEX						ND 0.00117	ND 0.00118	ND 0.00108	
Percent Moisture	Extracted:								
	Analyzed:					Aug-27-15 17:30	Aug-27-15 17:30	Aug-27-15 17:30	
	Units/RL:					% RL	% RL	% RL	
						14.5 1.00	15.0 1.00	7.83 1.00	
TPH By SW8015 Mod	Extracted:					Aug-27-15 20:00	Aug-27-15 20:00	Aug-27-15 20:00	
	Analyzed:					Aug-28-15 12:54	Aug-28-15 13:53	Aug-28-15 16:15	
	Units/RL:					mg/kg RL	mg/kg RL	mg/kg RL	
						ND 17.5	18.5 17.6	ND 16.2	
C6-C12 Gasoline Range Hydrocarbons						ND 17.5	ND 17.6	ND 16.2	
C12-C28 Diesel Range Hydrocarbons						ND 17.5	ND 17.6	ND 16.2	
C28-C35 Oil Range Hydrocarbons						ND 17.5	ND 17.6	ND 16.2	
Total TPH						ND 17.5	18.5 17.6	ND 16.2	

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

Kelsey Brooks
Project 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 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 **MQL** Method 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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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

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(281) 240-4200	(281) 240-4280
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(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: Cal B

Work Orders : 514334,

Project ID: 701583.141.01

Lab Batch #: 975728

Sample: 514334-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/28/15 12:54

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.4	99.9	91	70-135	
o-Terphenyl	41.2	50.0	82	70-135	

Lab Batch #: 975728

Sample: 514334-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/28/15 13:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.8	99.9	95	70-135	
o-Terphenyl	42.8	50.0	86	70-135	

Lab Batch #: 975728

Sample: 514334-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/28/15 16:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.8	99.6	80	70-135	
o-Terphenyl	35.8	49.8	72	70-135	

Lab Batch #: 975723

Sample: 514334-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/28/15 23:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

Lab Batch #: 975734

Sample: 514334-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/29/15 20:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	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: Cal B

Work Orders : 514334,

Project ID: 701583.141.01

Lab Batch #: 975734

Sample: 514334-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/29/15 20:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 975723

Sample: 697385-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/28/15 01:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 975728

Sample: 697391-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/29/15 10:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	58.7	50.0	117	70-135	

Lab Batch #: 975734

Sample: 697399-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/29/15 20:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 975723

Sample: 697385-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/28/15 07:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0330	0.0300	110	80-120	
4-Bromofluorobenzene	0.0348	0.0300	116	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: Cal B

Work Orders : 514334,

Project ID: 701583.141.01

Lab Batch #: 975728

Sample: 697391-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/29/15 11:21

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	49.9	50.0	100	70-135	

Lab Batch #: 975734

Sample: 697399-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/29/15 18:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 975723

Sample: 697385-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/28/15 07:28

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0346	0.0300	115	80-120	

Lab Batch #: 975728

Sample: 697391-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/29/15 11:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	45.3	50.0	91	70-135	

Lab Batch #: 975734

Sample: 697399-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/29/15 19:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0312	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: Cal B

Work Orders : 514334,

Project ID: 701583.141.01

Lab Batch #: 975723

Sample: 514404-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/28/15 00:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 975728

Sample: 514404-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/28/15 23:54

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	100	99.8	100	70-135	
o-Terphenyl	40.5	49.9	81	70-135	

Lab Batch #: 975734

Sample: 513910-005 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/29/15 19:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 975728

Sample: 514404-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/29/15 00:20

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	44.2	50.0	88	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.

Project Name: Cal B

Work Order #: 514334

Analyst: PJB

Lab Batch ID: 975723

Units: mg/kg

Sample: 697385-1-BKS

Batch #: 1

Date Prepared: 08/27/2015

Project ID: 701583.141.01

Date Analyzed: 08/28/2015

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	<0.00100	0.100	0.0801	80	0.100	0.0801	80	0	70-130	35	
Toluene	<0.00200	0.100	0.0868	87	0.100	0.0867	87	0	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0986	99	0.100	0.100	100	1	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.203	102	0.200	0.204	102	0	70-135	35	
o-Xylene	<0.00100	0.100	0.102	102	0.100	0.104	104	2	71-133	35	

Date Prepared: 08/29/2015

Date Analyzed: 08/29/2015

Analyst: PJB

Lab Batch ID: 975734

Units: mg/kg

Sample: 697399-1-BKS

Batch #: 1

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	<0.00100	0.100	0.0841	84	0.100	0.100	100	17	70-130	35	
Toluene	<0.00200	0.100	0.0906	91	0.100	0.101	101	11	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0974	97	0.100	0.104	104	7	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.197	99	0.200	0.213	107	8	70-135	35	
o-Xylene	<0.00100	0.100	0.0933	93	0.100	0.103	103	10	71-133	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

Project Name: Cal B

Work Order #: 514334

Analyst: PJB

Lab Batch ID: 975728

Units: mg/kg

Project ID: 701583.141.01

Date Analyzed: 08/29/2015

Matrix: Solid

Date Prepared: 08/27/2015

Batch #: 1

Sample: 697391-1-BKS

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	866	87	1000	826	83	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	838	84	1000	752	75	11	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: Cal B

Work Order #: 514334

Lab Batch #: 975723

Date Analyzed: 08/28/2015

QC- Sample ID: 514404-001 S

Reporting Units: mg/kg

Date Prepared: 08/27/2015

Batch #: 1

Project ID: 701583.141.01

Analyst: PJB

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Benzene	0.0274	0.100	0.0655	38	70-130	X
Toluene	0.0762	0.100	0.0942	18	70-130	X
Ethylbenzene	0.0125	0.100	0.0807	68	71-129	X
m,p-Xylenes	0.146	0.200	0.265	60	70-135	X
o-Xylene	0.0380	0.100	0.113	75	71-133	

Lab Batch #: 975734

Date Analyzed: 08/29/2015

QC- Sample ID: 513910-005 S

Reporting Units: mg/kg

Date Prepared: 08/29/2015

Batch #: 1

Analyst: PJB

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Benzene	0.00106	0.100	0.0232	22	70-130	X
Toluene	0.00283	0.100	0.0146	12	70-130	X
Ethylbenzene	<0.00100	0.100	0.00853	9	71-129	X
m,p-Xylenes	<0.00200	0.200	0.0171	9	70-135	X
o-Xylene	<0.00100	0.100	0.00832	8	71-133	X

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

BRL - Below Reporting Limit

Project Name: Cal B

Work Order #: 514334 Project ID: 701583.141.01
 Lab Batch ID: 975728 QC- Sample ID: 514404-001 S Batch #: 1 Matrix: Soil
 Date Analyzed: 08/28/2015 Date Prepared: 08/27/2015 Analyst: PJB
 Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	TPH By SW8015 Mod	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		16.3	998	781	77	1000	760	74	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons		<15.0	998	813	81	1000	889	89	9	70-135	35	

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



Sample Duplicate Recovery



Project Name: Cal B

Work Order #: 514334

Lab Batch #: 975633

Date Analyzed: 08/27/2015 17:30

Date Prepared: 08/27/2015

Project ID: 701583.141.01

Analyst: WRU

QC- Sample ID: 514047-001 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	14.4	15.1	5	20	

Lab Batch #: 975633

Date Analyzed: 08/27/2015 17:30

Date Prepared: 08/27/2015

Analyst: WRU

QC- Sample ID: 514333-001 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	12.9	13.3	3	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

CHAIN OF CUSTODY

Page 1 of 1

Setting the Standard since 1990

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Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenqa.com

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Norcross, Georgia (770-449-8800)

**Lakeland, Florida (863-646-8526,
Tampa, Florida (813-620-2000)**

Tampa, Florida (813-620-2000)

514334

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: Talen/CP		Project Name/Number:				Matrix Codes A= Air S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge WW= Waste Water W = Wipe O = Oil WW= Waste Water	
Company Address: Talen/CP		Project Location:					
Email: Artesia		Invoice To: Cal B					
Phone No:							
Project Contact: Sheldan Hixson		PO Number: Talen/CP					
Sample's Name: Sheldan Hixson							

No.	Field ID / Point of Collection	Collection		Number of preserved bottles										Field Comments	
		Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH		OTHER
1	Botten	12'	8/25/04	12:00	S	1									TPH
2	N-Wall	12'	8/25/04	5	1										BTEX
3	E-Wall	12'	8/25/04	5	1										
4															
5															
6															
7															
8															
9															
10															

Turnaround Time (Business days)		Data Deliverable Information		Notes:	
☒ Same Day TAT	☐ 5 Day TAT	☐ Level II Std QC	☐ Level IV (Full Data Pkg raw data)		
☐ Next Day EMERGENCY	☐ 7 Day TAT	☐ Level III Std QC+ Forms	☐ TRRP Level IV		
☐ 2 Day EMERGENCY	☐ Contract TAT	☐ Level 3 (CLP Forms)	☐ UST / RG-411		
☐ 3 Day EMERGENCY		☐ TRRP Checklist			

TAT Starts Day received by Lab, if received by 3:00 pm		FED-EX/UPS-Tracking #	
Relinquished by Sampler: Sheldan Hixson	Date Time: 8/25/04 11:00	Received By: Artesia	Received By: Artesia
Relinquished by: Sheldan Hixson	Date Time: 8/25/04 11:00	Received By: Artesia	Received By: Artesia
Relinquished by: Sheldan Hixson	Date Time: 8/25/04 11:00	Received By: Artesia	Received By: Artesia

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and the affiliate laboratories and makes void any other purchase order.



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE

Date/ Time Received: 08/27/2015 11:05:00 AM

Work Order #: 514334

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)?	10.1
#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 HNO ₃ , HCL, H ₂ SO ₄ ? 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 NaAsO ₂ +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:

Caroline Dugan

Date: 08/27/2015

Checklist reviewed by:

Kelsey Brooks

Date: 08/28/2015

Analytical Report 513728

for
Talon LPE

Project Manager: Sheldon Hitchcock

Cal B

701583.141.01

21-AUG-15

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

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)



21-AUG-15

Project Manager: **Sheldon Hitckcock**

Talon LPE

408 W. Texas St.

Artesia, NM 88210

Reference: XENCO Report No(s): **513728**

Cal B

Project Address:

Sheldon Hitckcock:

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) 513728. 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. 513728 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,

Kelsey Brooks

Project Manager

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Sample Cross Reference 513728



Talon LPE, Artesia, NM

Cal B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BOTTOM	S	08-18-15 10:57	- 10 ft	513728-001
N-WALL	S	08-18-15 10:54	- 10 ft	513728-002
S-WALL	S	08-18-15 11:01	- 10 ft	513728-003
W-WALL	S	08-18-15 11:07	- 10 ft	513728-004



CASE NARRATIVE



Client Name: Talon LPE

Project Name: Cal B

Project ID: 701583.141.01
Work Order Number(s): 513728

Report Date: 21-AUG-15
Date Received: 08/19/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 513728

Talon LPE, Artesia, NM

Project Name: Cal B

Project Id: 701583.141.01
Contact: Sheldon Hitecock
Project Location:



Date Received in Lab: Wed Aug-19-15 02:05 pm
Report Date: 21-AUG-15

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	513728-001	513728-002	513728-003	513728-004
	Field Id:	BOTTOM	N-WALL	S-WALL	W-WALL
	Depth:	10 ft	10 ft	10 ft	10 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-18-15 10:57	Aug-18-15 10:54	Aug-18-15 11:01	Aug-18-15 11:07
BTEX by EPA 8021B	Extracted:	Aug-19-15 18:00	Aug-19-15 18:00	Aug-19-15 18:00	Aug-19-15 18:00
	Analyzed:	Aug-20-15 16:03	Aug-20-15 16:20	Aug-20-15 12:34	Aug-20-15 11:26
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Benzene	59.8 0.625	55.8 0.593	8.10 0.250	11.0 0.247
	Toluene	60.0 1.25	55.9 1.19	ND 0.500	0.501 0.494
Inorganic Anions by EPA 300/300.1	Ethylbenzene	61.8 0.625	57.8 0.593	0.577 0.250	1.90 0.247
	m,p-Xylenes	125 1.25	117 1.19	1.39 0.500	4.45 0.494
	o-Xylene	63.6 0.625	59.5 0.593	ND 0.250	0.558 0.247
	Total Xylenes	189 0.625	177 0.593	1.39 0.250	5.01 0.247
	Total BTEX	370 0.625	346 0.593	10.1 0.250	18.4 0.247
Percent Moisture	Extracted:	Aug-19-15 16:00	Aug-19-15 16:00	Aug-19-15 16:00	Aug-19-15 16:00
	Analyzed:	Aug-20-15 14:36	Aug-20-15 14:59	Aug-20-15 15:21	Aug-20-15 15:44
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Chloride	14.5 2.50	169 11.9	146 12.5	107 12.4
	Percent Moisture	Aug-19-15 17:30	Aug-19-15 17:30	Aug-19-15 17:30	Aug-19-15 17:30
TPH By SW8015 Mod	Units/RL:	20.0 1.00	% RL	% RL	% RL
	Extracted:	Aug-19-15 16:00	Aug-19-15 16:00	Aug-19-15 16:00	Aug-19-15 16:00
	Analyzed:	Aug-20-15 14:39	Aug-20-15 15:02	Aug-20-15 15:24	Aug-20-15 15:46
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	C6-C12 Gasoline Range Hydrocarbons	1200 18.7	3620 17.8	44.0 18.7	1070 18.5
Total TPH	C12-C28 Diesel Range Hydrocarbons	46.7 18.7	578 17.8	ND 18.7	26.2 18.5
	C28-C35 Oil Range Hydrocarbons	ND 18.7	ND 17.8	ND 18.7	ND 18.5
	Total TPH	1250 18.7	4200 17.8	44.0 18.7	1100 18.5

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 unless otherwise agreed to in writing.

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Version: 1.0%

Kelsey Brooks

Kelsey Brooks
Project 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 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 **MQL** Method 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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(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: Cal B

Work Orders : 513728,

Project ID: 701583.141.01

Lab Batch #: 975045

Sample: 513728-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 11:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0339	0.0300	113	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	80-120	

Lab Batch #: 975045

Sample: 513728-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 12:34

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 975068

Sample: 513728-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 14:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	111	99.7	111	70-135	
o-Terphenyl	47.2	49.9	95	70-135	

Lab Batch #: 975068

Sample: 513728-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 15:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	112	99.9	112	70-135	
o-Terphenyl	46.4	50.0	93	70-135	

Lab Batch #: 975068

Sample: 513728-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 15:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	106	99.8	106	70-135	
o-Terphenyl	44.7	49.9	90	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: Cal B

Work Orders : 513728,

Lab Batch #: 975068

Sample: 513728-004 / SMP

Project ID: 701583.141.01

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 15:46

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	102	99.9	102	70-135	
o-Terphenyl	42.6	50.0	85	70-135	

Lab Batch #: 975045

Sample: 513728-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 16:03

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

Lab Batch #: 975045

Sample: 513728-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 16:20

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0315	0.0300	105	80-120	

Lab Batch #: 975045

Sample: 696941-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/20/15 02:01

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 975068

Sample: 696954-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/20/15 12:05

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	49.2	50.0	98	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: Cal B

Work Orders : 513728,

Project ID: 701583.141.01

Lab Batch #: 975045

Sample: 696941-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/20/15 00:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 975068

Sample: 696954-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/20/15 12:26

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	100	110	70-135	
o-Terphenyl	54.4	50.0	109	70-135	

Lab Batch #: 975045

Sample: 696941-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/20/15 00:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 975068

Sample: 696954-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/20/15 12:48

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	55.9	50.0	112	70-135	

Lab Batch #: 975045

Sample: 513626-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 01:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0330	0.0300	110	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: Cal B

Work Orders : 513728,

Lab Batch #: 975068

Sample: 513626-001 S / MS

Project ID: 701583.141.01

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 13:33

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	56.8	50.0	114	70-135	

Lab Batch #: 975045

Sample: 513626-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 01:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 975068

Sample: 513626-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/15 13:54

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	99.7	128	70-135	
o-Terphenyl	61.5	49.9	123	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.

Project Name: Cal B

Work Order #: 513728

Analyst: PJB

Lab Batch ID: 975045

Units: mg/kg

Date Prepared: 08/19/2015

Batch #: 1

Sample: 696941-1-BKS

Project ID: 701583.141.01

Date Analyzed: 08/20/2015

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	<0.00100	0.100	0.0910	91	0.100	0.0923	92	1	70-130	35	
Toluene	<0.00200	0.100	0.0913	91	0.100	0.0929	93	2	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0956	96	0.100	0.0965	97	1	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.193	97	0.200	0.195	98	1	70-135	35	
o-Xylene	<0.00100	0.100	0.0957	96	0.100	0.0972	97	2	71-133	35	

Date Prepared: 08/19/2015

Date Analyzed: 08/20/2015

Analyst: JUM

Lab Batch ID: 975066

Sample: 696873-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Inorganic Anions by EPA 300/300.1											
Chloride	<2.00	50.0	48.1	96	50.0	47.2	94	2	90-110	20	

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

Project Name: Cal B

Work Order #: 513728

Analyst: PJB

Lab Batch ID: 975068

Units: mg/kg

Date Prepared: 08/18/2015

Batch #: 1

Sample: 696954-1-BKS

Project ID: 701583.141.01

Date Analyzed: 08/20/2015

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]	Blank Spike Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
C6-C12 Gasoline Range Hydrocarbons		<15.0	1000	802	80	1000	817	82	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons		<15.0	1000	874	87	1000	875	88	0	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: Cal B



Work Order #: 513728

Lab Batch #: 975066

Date Analyzed: 08/20/2015

QC- Sample ID: 513677-001 S

Reporting Units: mg/kg

Date Prepared: 08/19/2015

Batch #: 1

Project ID: 701583.141.01

Analyst: JUM

Matrix: Soil

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	3800	10700	15000	105	80-120	

Lab Batch #: 975066

Date Analyzed: 08/20/2015

QC- Sample ID: 513679-003 S

Reporting Units: mg/kg

Date Prepared: 08/19/2015

Batch #: 1

Analyst: JUM

Matrix: Soil

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	2220	2680	6220	149	80-120	X

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

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries



Project Name: Cal B

Work Order #: 513728
 Lab Batch ID: 975045
 Date Analyzed: 08/20/2015
 Reporting Units: mg/kg

QC- Sample ID: 513626-001 S
 Date Prepared: 08/19/2015

Project ID: 701583.141.01
 Batch #: 1
 Matrix: Soil
 Analyst: PJB

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Spiked Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	<0.00108	0.108	0.0710	66	0.108	0.0774	72	9	70-130	35	X
Toluene	<0.00215	0.108	0.0672	62	0.108	0.0725	67	8	70-130	35	X
Ethylbenzene	<0.00108	0.108	0.0676	63	0.108	0.0695	64	3	71-129	35	X
m,p-Xylenes	<0.00215	0.215	0.140	65	0.215	0.138	64	1	70-135	35	X
o-Xylene	<0.00108	0.108	0.0687	64	0.108	0.0684	63	0	71-133	35	X

Lab Batch ID: 975068
 Date Analyzed: 08/20/2015
 Reporting Units: mg/kg

QC- Sample ID: 513626-001 S
 Date Prepared: 08/18/2015

Batch #: 1
 Matrix: Soil
 Analyst: PJB

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Spiked Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH By SW8015 Mod											
C6-C12 Gasoline Range Hydrocarbons	<16.1	1080	971	90	1070	914	85	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.1	1080	933	86	1070	882	82	6	70-135	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 Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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



Sample Duplicate Recovery



Project Name: Cal B

Work Order #: 513728

Lab Batch #: 975035

Project ID: 701583.141.01

Date Analyzed: 08/19/2015 17:30

Date Prepared: 08/19/2015

Analyst: WRU

QC- Sample ID: 513627-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	3.48	3.65	5	20	

Lab Batch #: 975035

Date Analyzed: 08/19/2015 17:30

Date Prepared: 08/19/2015

Analyst: WRU

QC- Sample ID: 513678-003 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	6.79	7.12	5	20	

Lab Batch #: 975038

Date Analyzed: 08/19/2015 17:30

Date Prepared: 08/19/2015

Analyst: WRU

QC- Sample ID: 513728-002 D

Batch #: 1

Matrix: Soil

Reporting Units: %

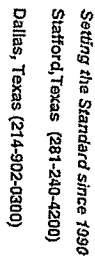
SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	15.7	15.7	0	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



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XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE

Date/ Time Received: 08/19/2015 02:05:00 PM

Work Order #: 513728

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)?	6.1
#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 HNO ₃ , HCL, H ₂ SO ₄ ? 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 NaAsO ₂ +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
Kelsey Brooks

Date: 08/19/2015

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 08/20/2015