

Analytical Report 429429

for

Southwest Royalties

HOBBS OCD

Project Manager: Luis Gonzalez

NOV 0 1 2011

Shole A and B Battery

RECEIVED

20-OCT-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

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Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
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Xenco-Atlanta (EPA Lab Code: GA00046):

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

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

REVIEWED
11/10/11



20-OCT-11

Project Manager: **Luis Gonzalez**
Southwest Royalties
6 Desta Dr Suite 1100
Midland, TX 79705

Reference: XENCO Report No: **429429**
Shole A and B Battery
Project Address: Shole A and B Battery

Luis Gonzalez:

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 429429. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 429429 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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

Certified and approved by numerous States and Agencies.

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



Sample Cross Reference 429429



Southwest Royalties, Midland, TX

Shole A and B Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile 1-2A	S	10-12-11 13:33		429429-001
S-4	S	10-12-11 14:55		429429-002
S-3	S	10-12-11 14:40		429429-003
S-1	S	10-12-11 14:20		429429-004
Stockpile 1-1A	S	10-12-11 13:20		429429-005
S-2	S	10-12-11 14:30		429429-006
Spill-5-A	S	10-12-11 13:55		429429-007
Stockpile 2-2B	S	10-12-11 13:45		429429-008
Stockpile 2-1A	S	10-12-11 13:40		429429-009
Stockpile 2-3C	S	10-12-11 13:50		429429-010



CASE NARRATIVE

Client Name: Southwest Royalties
Project Name: Shole A and B Battery



Project ID:
Work Order Number: 429429

Report Date: 20-OCT-11
Date Received: 10/13/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-872539 TPH By SW8015 Mod
SW8015MOD_NM

Batch 872539, 1-Chlorooctane recovered below QC limits Data not confirmed by re-analysis.
Samples affected are: 612809-1-BLK.



Certificate of Analysis Summary 429429

Southwest Royalties, Midland, TX

Project Name: Shole A and B Battery



Project Id:

Contact: Luis Gonzalez

Project Location: Shole A and B Battery

Date Received in Lab: Thu Oct-13-11 08:06 am

Report Date: 20-OCT-11

Project Manager: Brent Barron II

Lab Id:	429429-001	429429-002	429429-003	429429-004	429429-005	429429-006
Field Id:	Stockpile 1-2A	S-4	S-3	S-1	Stockpile 1-1A	S-2
Depth:						
Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampled:	Oct-12-11 13:33	Oct-12-11 14:55	Oct-12-11 14:40	Oct-12-11 14:20	Oct-12-11 13:20	Oct-12-11 14:30
Extracted:						
Analyzed:	Oct-13-11 18:03	Oct-13-11 18:03	Oct-13-11 18:03	Oct-13-11 18:03	Oct-13-11 18:03	Oct-13-11 18:03
Units/RL:	mg/kg RL 1410 17.7	mg/kg RL 150 4.20	mg/kg RL 37.6 4.20	mg/kg RL 600 4.21	mg/kg RL 8.66 4.20	mg/kg RL 364 8.41
Extracted:						
Analyzed:	Oct-13-11 12:45	Oct-13-11 12:45	Oct-13-11 12:45	Oct-13-11 12:45	Oct-13-11 12:45	Oct-13-11 12:45
Units/RL:	% RL 4.97 1.00	% RL ND 1.00	% RL ND 1.00	% RL ND 1.00	% RL ND 1.00	% RL ND 1.00
Extracted:						
Analyzed:	Oct-13-11 14:10	Oct-13-11 14:10	Oct-13-11 14:10	Oct-13-11 14:10	Oct-13-11 14:10	Oct-13-11 14:10
Units/RL:	mg/kg RL ND 15.7	mg/kg RL ND 75.0	mg/kg RL ND 74.9	mg/kg RL ND 75.0	mg/kg RL ND 15.0	mg/kg RL ND 75.1
C6-C12 Gasoline Range Hydrocarbons	224 15.7	1170 75.0	1940 74.9	2410 75.0	104 15.0	1640 75.1
C12-C28 Diesel Range Hydrocarbons	116 15.7	302 75.0	445 74.9	633 75.0	47.3 15.0	278 75.1
C28-C35 Oil Range Hydrocarbons	340 15.7	1470 75.0	2390 74.9	3040 75.0	151 15.0	1920 75.1
Total TPH						

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

Brent Barron II
Odessa Laboratory Manager



Certificate of Analysis Summary 429429

Southwest Royalties, Midland, TX



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Project Id: Luis Gonzalez
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Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:												
429429-007	Spill-5-A		SOIL	Oct-12-11 13:55	Oct-14-11 10:47	mg/kg	RL 182												
429429-008	Stockpile 2-2B		SOIL	Oct-12-11 13:45	Oct-13-11 18:03	mg/kg	RL 100												
429429-009	Stockpile 2-1A		SOIL	Oct-12-11 13:40	Oct-13-11 18:03	mg/kg	RL 42.2												
429429-010	Stockpile 2-3C		SOIL	Oct-12-11 13:50	Oct-13-11 18:03	mg/kg	RL 95.1												
Chloride																			
Percent Moisture																			
<table border="1"> <tr> <td>Extracted:</td> <td>Oct-13-11 12:45</td> <td>%</td> <td>RL 1.00</td> </tr> <tr> <td>Analyzed:</td> <td>7.62</td> <td></td> <td></td> </tr> <tr> <td>Units/RL:</td> <td>1.00</td> <td></td> <td></td> </tr> </table>								Extracted:	Oct-13-11 12:45	%	RL 1.00	Analyzed:	7.62			Units/RL:	1.00		
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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.

Brent Barron II
 Odessa Laboratory Manager

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

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.

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

+ Outside XENCO's scope of NELAC Accreditation.

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

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
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(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Shole A and B Battery

Work Orders : 429429,

Project ID:

Lab Batch #: 872539

Sample: 429429-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/15/11 23:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	91.5	99.7	92	70-135	
o-Terphenyl	57.2	49.9	115	70-135	

Lab Batch #: 872539

Sample: 429429-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 00:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	77.3	100	77	70-135	
o-Terphenyl	47.7	50.0	95	70-135	

Lab Batch #: 872539

Sample: 429429-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 00:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	71.4	99.8	72	70-135	
o-Terphenyl	42.0	49.9	84	70-135	

Lab Batch #: 872539

Sample: 429429-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 00:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	86.2	99.8	86	70-135	
o-Terphenyl	51.4	49.9	103	70-135	

Lab Batch #: 872539

Sample: 429429-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 01:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	73.4	99.9	73	70-135	
o-Terphenyl	41.1	50.0	82	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: Shole A and B Battery

Work Orders : 429429,

Project ID:

Lab Batch #: 872539

Sample: 429429-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 01:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	74.5	100	75	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

Lab Batch #: 872539

Sample: 429429-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 02:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	87.2	99.9	87	70-135	
o-Terphenyl	57.7	50.0	115	70-135	

Lab Batch #: 872539

Sample: 429429-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 02:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	88.8	100	89	70-135	
o-Terphenyl	58.1	50.0	116	70-135	

Lab Batch #: 872539

Sample: 429429-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 03:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	82.6	100	83	70-135	
o-Terphenyl	47.1	50.0	94	70-135	

Lab Batch #: 872539

Sample: 429429-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 03:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	88.1	100	88	70-135	
o-Terphenyl	55.8	50.0	112	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: Shole A and B Battery

Work Orders : 429429,

Project ID:

Lab Batch #: 872539

Sample: 612809-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/15/11 18:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	67.2	99.5	68	70-135	*
o-Terphenyl	42.9	49.8	86	70-135	

Lab Batch #: 872539

Sample: 612809-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/15/11 17:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.8	99.8	74	70-135	
o-Terphenyl	38.1	49.9	76	70-135	

Lab Batch #: 872539

Sample: 612809-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/15/11 17:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.6	100	76	70-135	
o-Terphenyl	39.7	50.2	79	70-135	

Lab Batch #: 872539

Sample: 429429-008 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 03:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.7	101	91	70-135	
o-Terphenyl	44.5	50.3	88	70-135	

Lab Batch #: 872539

Sample: 429429-008 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/16/11 04:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.4	100	96	70-135	
o-Terphenyl	48.6	50.1	97	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: Shole A and B Battery

Work Order #: 429429

Analyst: BRB

Lab Batch ID: 872301

Sample: 872301-1-BKS

Date Prepared: 10/13/2011

Batch #: 1

Project ID:

Date Analyzed: 10/13/2011

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
Chloride	<0.840	20.0	22.1	111	20.0	22.1	111	0	75-125	20	

Analyst: BRB

Lab Batch ID: 872317

Sample: 872317-1-BKS

Date Prepared: 10/14/2011

Batch #: 1

Date Analyzed: 10/14/2011

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
Chloride	<0.840	20.0	21.6	108	20.0	21.5	108	0	75-125	20	

Analyst: BBH

Lab Batch ID: 872539

Sample: 612809-1-BKS

Date Prepared: 10/13/2011

Batch #: 1

Date Analyzed: 10/15/2011

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
C6-C12 Gasoline Range Hydrocarbons	<15.0	998	707	71	1000	704	70	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	998	800	80	1000	758	76	5	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: Shole A and B Battery

Work Order #: 429429

Lab Batch #: 872301

Date Analyzed: 10/13/2011

Date Prepared: 10/13/2011

Project ID:

Analyst: BRB

QC- Sample ID: 429429-005 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	8.66	100	107	98	75-125	

Lab Batch #: 872301

Date Analyzed: 10/13/2011

Date Prepared: 10/13/2011

Analyst: BRB

QC- Sample ID: 429439-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	36.7	110	149	102	75-125	

Lab Batch #: 872317

Date Analyzed: 10/14/2011

Date Prepared: 10/14/2011

Analyst: BRB

QC- Sample ID: 429429-007 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	14000	4330	18600	106	75-125	

Matrix Spike Percent Recovery [D] = $100 \cdot (C-A)/B$
 Relative Percent Difference [E] = $200 \cdot (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Shole A and B Battery

Work Order #: 429429

Lab Batch ID: 872539

Date Analyzed: 10/16/2011

Reporting Units: mg/kg

Project ID:

QC- Sample ID: 429429-008 S Batch #: 1 Matrix: Soil

Date Prepared: 10/13/2011 Analyst: BBH

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		<18.0	1200	961	80	1190	1010	85	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons		<18.0	1200	1090	91	1190	1210	102	10	70-135	35	

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

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



Sample Duplicate Recovery



Project Name: Shole A and B Battery

Work Order #: 429429

Lab Batch #: 872301
Date Analyzed: 10/13/2011 18:03
QC- Sample ID: 429439-001 D
Reporting Units: mg/kg

Date Prepared: 10/13/2011
Batch #: 1

Project ID:
Analyst: BRB
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	36.7	35.2	4	20	

Lab Batch #: 872317
Date Analyzed: 10/14/2011 10:47
QC- Sample ID: 429429-007 D
Reporting Units: mg/kg

Date Prepared: 10/14/2011
Batch #: 1

Analyst: BRB
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	14000	14100	1	20	

Lab Batch #: 872302
Date Analyzed: 10/13/2011 12:45
QC- Sample ID: 429439-001 D
Reporting Units: %

Date Prepared: 10/13/2011
Batch #: 1

Analyst: BRB
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	9.06	9.03	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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

429429

Company Name: Southwest Royalties Project Manager: Javi Gargate Address: 6-Dista Drive 2100 City: Midland State: TX Zip: 79105 Phone #: Fax #: Project #: Project Owner: Project Name: Shale AdB Betting Project Location: Shale AdB Betting Sampler Name: Civic Campa Poble B.M. - Serralle		BILL TO P.O. #: Company: Attn: Address: City: State: Phone #: Fax #:		ANALYSIS REQUEST	
FOR LAB USE ONLY 429429 Lab I.D.		MATRIX # CONTAINERS (GRAB OR (C)OMP. GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		PRESERV SAMPLING DATE TIME	
-001		Stockpile F2A		10:12 1:33	
-002		S-4		10:12 2:55	
-003		S-3		2:40 2:20	
-004		S-1		1:20 2:30	
-005		Stockpile 1-1A		1:55 1:45	
-006		R2		1:40 1:40	
-007		Spill - S-A		1:50 1:50	
-008		Stockpile 2-B			
-009		Stockpile 2-1A			
-010		Stockpile 2-3C			

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] **Date:** 10/13/11
Received By: [Signature] **Date:** 10/13/11
Time: 8:06

Sample Condition:
 Cool Intact
 Yes No Yes No
 Checked By: [Signature] (Initials) 3C BR

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:

Phone Result: Yes No **Add'l Phone #:**
Fax Result: Yes No **Add'l Fax #:**

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



XENCO Laboratories
 Atlanta, Boca Raton, Corpus Christi, Dallas
 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Southwest Realties
 Date/Time: 10/13/11 806 am
 Lab ID #: 429429
 Initials: AB

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?	Yes	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 3 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 - Initial and Backup Temperature confirm out of temperature conditions
 - Client understands and would like to proceed with analysis

HOBBS OCD

NOV 01 2011



HOBBS OCD

NOV 01 2011

RECEIVED

C- proceeds

DOOM LAND FARM, L.L.C.
 BOX 1271
 JAL, N.M. 88252
 575-395-3537 903-715-8491
 903-715-0471

INVOICE #1352
 DATE: 9-23-11
 E.I.N.# 80 050 1930
 PERMIT #NIM-01-0033

SOLD TO: SOUTHWEST ROYALTIES
 6 DESTA DR. STE. 1100
 MIDLAND, TX 79705

DESCRIPTION	CYDS IN	\$/CYD	\$AMOUNT
Generator name: SOUTHWEST ROYALTIES Company Rep. L. GONZALEZ	516 cyd	\$14.00/cyd	\$ 7224.00
Originating Site: SHOAL BATTERIES A&B SEC. 25 TWN. 25S R36E 1/4 sec. 11.11. Trucking: REPUBLIC Cell #8			
Disposal-cyds-RCRA Exempt Materials		N.M. SALES TAX (5.5%)	\$ 397.32

Payment due 35 days from billing date TOTAL AMOUNT DUE: \$ 7621.32

\$1/cyd discount in effect. Future cyd at \$14.00/cyd for 9 months from billing date.
 Thank you for your business.

HOBBS OCD

NOV 01 2011

RECEIVED

94223 C-L. Gonzalez

DOOM LAND FARM, L.L.C. INVOICE #1287
 BOX 1271
 JAL, N.M. 88252 DATE: 5-27-11
 575-395-3537 903-715-8491
 903-715-0471 PERMIT #NIM-01-0033

SOLD TO: SOUTHWEST ROYALTIES
 6 DESTA DR. STE. 1100
 MIDLAND, TX 79705

DESCRIPTION	CYDS IN	\$/CYD	\$ AMOUNT
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Generator name: SOUTHWEST ROYALTIES	1434 cyds	\$16.00/ cyd	\$ 22944.00
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Originating site:
 SHOALS BATTERY
 A&B sec. 25 Twp. 25s
 range 36 les co. n.m.
 Trucking: PANTHER
 Company rep:
 E. LUJAN
 Cell# 6

Disposal-cyds-RCRA Exempt materials		N.M. SALES TAX (5.5%)	\$ 1261.92
--	--	--------------------------	------------

payment due 35 days from
 billing date

TOTAL AMOUNT DUE: \$ 24205.92

Thank you for your business. All additional cyd at \$14/cyd through 12-31-11