



August 27, 2014

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.746.8905

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88240
Phone 575.393.4261
Fax 575.393.4658

MIDLAND
2901 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

OKLAHOMA CITY
7700 North Hudson Avenue
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

SAN ANTONIO
13111 Lookout Way
San Antonio, Texas 78233
Phone 210.265.8025
Fax 210.568.2191

Subject: **Soil Assessment and Remediation Work Plan**
Oxy Permian, LTD
Government R Federal #2
API: 30-015-28391

Dear Mr. Bratcher,

Oxy Permian (Oxy) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Background Information

The Oxy Government R Fed #2 is located approximately 33 miles Southeast of Artesia, New Mexico. The legal location for this release is Unit Letter K, Section 14, Township 20 South, and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.572760 North and -104.149283 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Gypsum land-Reeves complex with 0 to 3 percent slopes (eroded). Drainage courses in this area are normally dry. Groundwater in the project vicinity is approximately 14-feet below ground surface (bgs) according to the New Mexico Office for the State Engineer. See Appendix II for the referenced groundwater data.

The ranking for this site is 20 based on the following:

Depth to ground water	<50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Incident Description

A gasket failure on the heater treater caused a release of 20bbls of oil and 170bbls of produced water (no fluids were recovered). The fluid flowed northwest across the location and flowed into the pasture for approximately 15-feet on the east side of the location. The overspray area measures approximately 230-feet long by 35-feet wide in the pasture north of the location. Talon mobilized personnel to conduct a site assessment and conduct soil sampling activities utilizing a hand auger within the impacted areas. The results of our soil sampling activities are summarized in the table below.

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	278	14000	3990	23700
S-1	1	14.5	13400	239	1640
S-2	0	1560	9060	20000	66700
S-2	1	9.50	5680	209	1650
S-2	2	1.64	784	13.3	58.9
S-2	3	ND	576	ND	ND
S-3	0	313	4720	3770	15100
S-3	1	ND	512	ND	ND
S-3	2	ND	480	ND	ND
S-4	0	ND	96	ND	85.5
S-4	1	ND	80	ND	78.7
S-4	2	ND	128	ND	ND
S-5	0	ND	32	ND	ND
S-5	1	ND	32	ND	ND

(ND) Analyte Not Detected

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH and 1,000 mg/kg for Chlorides.


Proposed Remedial Actions

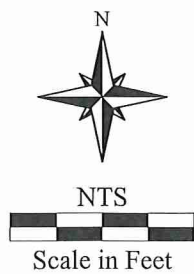
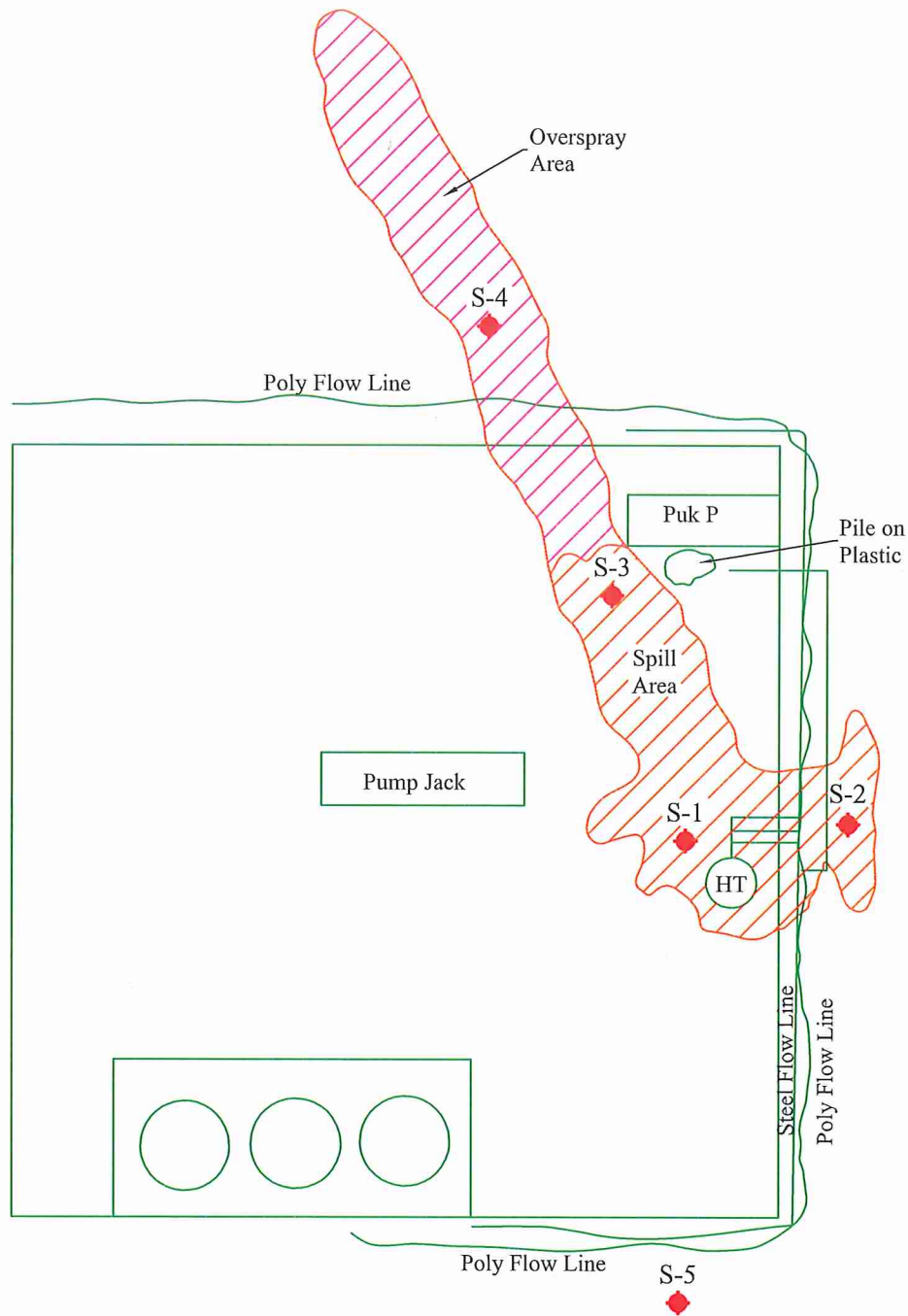
- The impacted area in the vicinity of S-1 will be excavated to a minimum depth of 2-feet bgs. Field Chloride titrations and PID readings will be used to guide the excavation. Once field results indicate that the impacted soil is below NMOCD Recommended Remedial Action Level's (RRAL's) a confirmation soil sample will be taken to insure all of the impacted material was removed.
- The impacted area in the vicinity of S-2 will be excavated to a depth of 2-feet bgs.
- The impacted area in the vicinity of S-3 will be excavated to a depth of 1-feet bgs.
- The overspray area in the vicinity of S-4 will be treated with Micro-Blaze, a bio remediation agent.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated areas on location will be backfilled with caliche. The excavated area off the location will be backfilled with top soil.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768.

Respectfully submitted,


Sheldon Hitchcock
Project Manager


David J. Adkins
District Manager



Legend	
◆	- Sample Location
	- Spill Area
	- Overspray Area



Date: 07/22/2014

Scale: NTS

Drawn By: TJS

Government R-2
Oxy - NM - North
Eddy County, New Mexico
Figure 1 - Site Plan

GROUNDWATER DATA

INITIAL C-141



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
LRG12694 POD2	LRR	DA		2	4	3	10	19S	03W	580794	3614551	1697	68	14	54

Average Depth to Water: **14 feet**

Minimum Depth: **14 feet**

Maximum Depth: **14 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 579468

Northing (Y): 3613492

Radius: 2000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: OXY USA Limited Partnership	Contact: Chris Jones
Address: 102 S. Main St. Carlsbad, NM 88220	Telephone No.: 575-628-4121
Facility Name: Government R Federal #2	Facility Type: Well

Surface Owner: Federal	Mineral Owner:	API No.: 30-015-28391
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LOCATION OF RELEASE

Unit Letter K	Section 14	Township 20S	Range 28E	Feet from the 2310'	North/South Line South	Feet from the 2310	East/West Line West	County Eddy
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Latitude **32.572760 N** Longitude **-104.149283 W**

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 20 bbls Oil & 170 bbls PW	Volume Recovered: 0 bbls
Source of Release: Gasket on Heater Treater failure	Date and Hour of Occurrence 7/7/2014	Date and Hour of Discovery 7/7/2014; 7:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher @ NMOCD Jim Amos @ BLM	
By Whom? Chris Jones	Date and Hour: 7/8/2014 12:55 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* **A gasket failure on the heater treater caused 20 barrels of oil and 170 barrels of produced water to be released. No fluids were recovered. Talon/LPE was contracted to perform an initial site assessment and soil sampling.**

Describe Area Affected and Cleanup Action Taken.*

The release flowed northwest across the location and flowed off location approximately 15' in to the pasture. The overspray area measures approximately 230' long by 35' wide.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Chris Jones	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 7/10/2014	Phone: 575-628-4121		

* Attach Additional Sheets If Necessary

LABORATORY RESULTS

SITE PLAN

July 21, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: GOVERNMENT R-2

Enclosed are the results of analyses for samples received by the laboratory on 07/11/14 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 07/11/2014
 Reported: 07/21/2014
 Project Name: GOVERNMENT R-2
 Project Number: 70060836801
 Project Location: NONE GIVEN

 Sampling Date: 07/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H402121-01)

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	60.8	5.00	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	43.1	5.00	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	174	15.0	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	278	30.0	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	07/17/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3990	100	07/14/2014	ND	180	90.2	200	0.0898		
DRO >C10-C28	23700	100	07/14/2014	ND	178	89.1	200	2.45		

Surrogate: 1-Chlorooctane 1080 % 65.2-140

Surrogate: 1-Chlorooctadecane 305 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/11/2014
Reported: 07/21/2014
Project Name: GOVERNMENT R-2
Project Number: 70060836801
Project Location: NONE GIVEN

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H402121-02)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	1.39	0.100	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	2.67	0.100	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	10.5	0.300	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTX	14.5	0.600	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 133 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	07/17/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	239	50.0	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	1640	50.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 155 % 65.2-140

Surrogate: 1-Chlorooctadecane 152 % 63.6-154

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DAVID ADKINS
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Fax To: (575) 745-8905

Received: 07/11/2014
Reported: 07/21/2014
Project Name: GOVERNMENT R-2
Project Number: 70060836801
Project Location: NONE GIVEN

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H402121-03)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	99.3	5.00	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	561	5.00	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	208	5.00	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	691	15.0	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTEX	1560	30.0	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	07/17/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	20000	200	07/14/2014	ND	180	90.2	200	0.0898		
DRO >C10-C28	66700	200	07/14/2014	ND	178	89.1	200	2.45		

Surrogate: 1-Chlorooctane 3200 % 65.2-140

Surrogate: 1-Chlorooctadecane 517 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/11/2014
Reported: 07/21/2014
Project Name: GOVERNMENT R-2
Project Number: 70060836801
Project Location: NONE GIVEN

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 1' (H402121-04)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.283	0.100	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	2.30	0.100	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	1.45	0.100	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	5.47	0.300	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTX	9.50	0.600	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	07/17/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	209	50.0	07/14/2014	ND	180	90.2	200	0.0898		
DRO >C10-C28	1650	50.0	07/14/2014	ND	178	89.1	200	2.45		

Surrogate: 1-Chlorooctane 143 % 65.2-140

Surrogate: 1-Chlorooctadecane 157 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 07/11/2014
 Reported: 07/21/2014
 Project Name: GOVERNMENT R-2
 Project Number: 70060836801
 Project Location: NONE GIVEN

 Sampling Date: 07/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 2' (H402121-05)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.050	0.050	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	0.422	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	0.237	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	0.932	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTX	1.64	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	07/17/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.3	10.0	07/15/2014	ND	182	90.8	200	1.69	
DRO >C10-C28	58.9	10.0	07/15/2014	ND	190	94.8	200	6.55	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/11/2014
Reported: 07/21/2014
Project Name: GOVERNMENT R-2
Project Number: 70060836801
Project Location: NONE GIVEN

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 3' (H402121-06)

BTEx 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	<0.050	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/15/2014	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	182	90.8	200	1.69	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	190	94.8	200	6.55	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 07/11/2014
 Reported: 07/21/2014
 Project Name: GOVERNMENT R-2
 Project Number: 70060836801
 Project Location: NONE GIVEN

 Sampling Date: 07/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 0' (H402121-07)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	53.2	2.00	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	56.2	2.00	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	203	6.00	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTEX	313	12.0	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	07/15/2014	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3770	50.0	07/15/2014	ND	182	90.8	200	1.69		
DRO >C10-C28	15100	50.0	07/15/2014	ND	190	94.8	200	6.55		

Surrogate: 1-Chlorooctane 243 % 65.2-140

Surrogate: 1-Chlorooctadecane 329 % 63.6-154

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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/11/2014
Reported: 07/21/2014
Project Name: GOVERNMENT R-2
Project Number: 70060836801
Project Location: NONE GIVEN

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H402121-08)

BTEx 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	<0.050	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/15/2014	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	182	90.8	200	1.69	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	190	94.8	200	6.55	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Analytical Results For:

TALON LPE
DAVID ADKINS
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Fax To: (575) 745-8905

Received: 07/11/2014
Reported: 07/21/2014
Project Name: GOVERNMENT R-2
Project Number: 70060836801
Project Location: NONE GIVEN

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 2' (H402121-09)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	<0.050	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/15/2014	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	182	90.8	200	1.69	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	190	94.8	200	6.55	

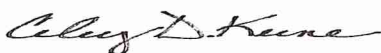
Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Analytical Results For:

TALON LPE
DAVID ADKINS
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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/11/2014
Reported: 07/21/2014
Project Name: GOVERNMENT R-2
Project Number: 70060836801
Project Location: NONE GIVEN

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 0' (H402121-10)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	<0.050	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/15/2014	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	85.5	10.0	07/15/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 133 % 63.6-154

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Analytical Results For:

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Fax To: (575) 745-8905

Received: 07/11/2014
Reported: 07/21/2014
Project Name: GOVERNMENT R-2
Project Number: 70060836801
Project Location: NONE GIVEN

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 1' (H402121-11)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	<0.050	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2014	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	78.7	10.0	07/15/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/11/2014
Reported: 07/21/2014
Project Name: GOVERNMENT R-2
Project Number: 70060836801
Project Location: NONE GIVEN

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 2' (H402121-12)

BTEx 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	<0.050	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/15/2014	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	198	98.9	200	1.29	


Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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Analytical Results For:

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 Fax To: (575) 745-8905

 Received: 07/11/2014
 Reported: 07/21/2014
 Project Name: GOVERNMENT R-2
 Project Number: 70060836801
 Project Location: NONE GIVEN

 Sampling Date: 07/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 0' (H402121-13)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	<0.050	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/15/2014	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Analytical Results For:

TALON LPE
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408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/11/2014
Reported: 07/21/2014
Project Name: GOVERNMENT R-2
Project Number: 70060836801
Project Location: NONE GIVEN

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 1' (H402121-14)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	<0.050	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/15/2014	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/PE

Project Manager: D. McKis

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

State: NM Zip: 88210
Fax #: 575-746-8905

Project #: 70060836861 Project Owner: ORY

Project Name: Government R-2

Project Location:

Sampler Name: R. DeRosier

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H402121

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
1	S-1, 0'	G	1							7/9/14		TPH									
2	S-1, 1'	G	1							7/9/14		BTEX									
3	S-2, 0'	G	1							7/9		TOTAL CHLORIDES									
4	S-2, 1'	G	1							7/9											
5	S-2, 2'	G	1							7/9											
6	S-2, 3'	G	1							7/9											
7	S-3, 0'	G	1							7/9											
8	S-3, 1'	G	1							7/9											
9	S-3, 2'	G	1							7/9											

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Relinquished By:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date: 7-11-14

Time: 1:34

Received By:

Date: 7/11/14

Time: 4:15

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒

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Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒

Yes ☒ No ☒



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

Project Manager:

D. Adkins

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 700 608 368 01

Project Owner: OXY

Project Name: Government R-2

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

TOTAL CHLORIDES
TPH
BTEX

ANALYSIS REQUEST

BILL TO

P.O. #:

Company: Talon/LPE

Attn: OXY

Address:

City:

State: Zip:

Phone #:

Fax #:

MATRIX

PRESERV.

SAMPLING

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Relinquished By:

Date:

Received By:

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

Relinquished By:

Date:

Received By:

Date:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY:

Cool ☐ Intact ☐

Yes ☐ No ☐