

December 16, 2014

AMARILLO lorth Bivins

ARTESIA

921 North Bivins Amarillo, Texas 79107 Phone 806.467.0607 Fax 806.467.0622

408 West Texas Ave. Artesia, New Mexico 88210

> Phone 575.746.8768 Fax 575.746.8905

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

Subject:

Remediation and Sampling Report

Mewbourne Oil Company San Lorenzo SWD No. 1

API: 30-015-23067, 2RP-2532

Dear Mr. Bratcher,

HOBBS

318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658 Mewbourne Oil Company (MOC) contracted Talon/LPE (Talon) to perform remediation and sampling services at the above referenced location. The results of our completed remedial actions, soil and surface water sampling program and closure request for this phase of the project are submitted herein.

MIDLAND ate Hwy 349

2901 State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180 **Background Information**

The San Lorenzo SWD No.1 is located approximately 12 miles southeast of Loving, New Mexico. The legal location for this release is Unit Letter H, Section 34, Township 25 South, and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.086841 North and -104.069744 West. A site plan is presented in Appendix I.

OKLAHOMA CITY 7700 North Hudson Avenue Suite IO Oklahoma City, Oklahoma 73II6 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

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Karro fine sandy loam with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is made up of the Rustler Formation, upper Permian Age, comprised of siltstone, gypsum, sandstone, dolomite. Groundwater in the project vicinity is approximately 0-5 feet below ground surface (bgs).

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

Page 1 of 3

Incident Description

On September 26, 2014, the SWD line running along the west side of Highway 285 from the San Lorenzo SWD to the Delaware Ranch SWD was damaged in the draw between mile marker 6 and 7 by debris and rising flood waters causing a release of 1726 barrels mixed fluids. Upon discovery, approximately 253 barrels of oil and 267 barrels of water were immediately recovered utilizing vac trucks. The area affected was approximately 6,000-feet in length from the bridge south down the draw. The Initial C-141 is presented in Appendix II.

Remedial Actions Taken

Between September 30 and October 16, 2014, Talon mobilized personnel to the release location. Absorbent pads and booms were used for hand-recovery of free phase oil. The impact soil was hand-excavated and stockpiled on plastic sheeting and construction bags were used to dispose of the oily pads and booms. One truck load of contaminated soil and sorbent media was disposed of at Lea Land, LLC, an approved NMOCD disposal faculty. See Appendix III for the disposal manifest.

On November 6, 2014 Talon/LPE mobilized personnel to obtain surface water samples and on November 26, 2014 soil sampling from bank sediments was completed. See Table 1 below for resulting lab data analysis. A site map presenting surface water (W-1), soil/sediment (S-1) and background (BG-1) soil sampling is attached hereto in Appendix I.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for volatile organics (BTEX) via EPA Method 8021B (soil) and EPA Method 8026B (water), TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M and Total Chlorides by Method SM 4500Cl-B.

Laboratory Results

See Appendix IV for complete laboratory reports.

November 12, 2014

Table 1

Sample ID	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT DRO
W-1	< 0.006	840	<1.00	<1.00	<1.00
W-2	< 0.006	600	<1.00	<1.00	<1.00
W-3	< 0.006	630	<1.00	<1.00	<1.00

December 5, 2014

Table 1, cont.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	< 0.300	1300	<10	<10
	0.5	< 0.300	1700	<10	<10
S-2	0	< 0.300	112	<10	<10
	0.5	< 0.300	48	<10	<10
S-3	0	< 0.300	112	<10	<10
	0.5	< 0.300	96	<10	<10
BG-1	0	< 0.300	32	<10	<10
BG-2	0	< 0.300	9060	<10	<10
BG-3	0	< 0.300	9200	<10	<10

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

Closure

On behalf of the Mewbourne Oil Company, we respectfully request that no further actions be required and that closure with respect to this portion of this project be granted.

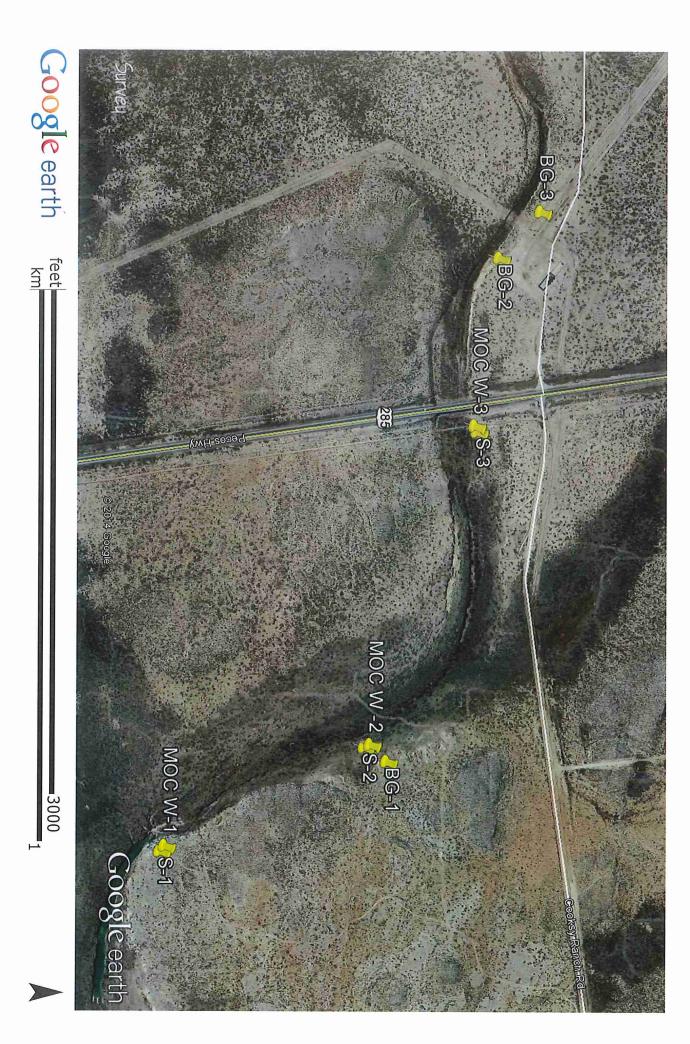
If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

David J. Adkins District Manager

APPENDIX I SITE PLAN



APPENDIX II INITIAL C-141

NM OIL CONSERVATION

ARTESIA DISTRICT

District J 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 OCT 0 6 2014

Form C-141 Revised August 8, 2011

Subi**RECEIVE** propriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

OPERATOR Name of Company: Mewbourne Oil Company Address: Po Box 5270 Hobbs NM 88241 Facility Name: San Lorenzo SWD #001 Surface Owner: State Mineral Owner: CLOCATION OF RELEASE Unit Letter Section 1 Township 1			
Name of Company; Mewbourne Oil Company	NAB1428148585	OPERATOR	M Initial Report Final Report
Facility Name: Sun Lorenzo SWD #001 Facility Type: SWD	Name of Company: Mewbourne Oil Company 14-4-		
Surface Owner: State			
LOCATION OF RELEASE Unit Letter Section Township Range Sect from the North/South Line Feet from the East/West Line County Eddy Latitude_32.08707 Longitude104.06766_ NATURE OF RELEASE Volume of Release: estimated Volume Recovered: Oil (253 bbls) 1740 bbls total fluid (4473 bbls Volume (750 bbls total fluid) (4473 bbls t	The state of the s	Facility Type: SWD	
County East County East County East East Eddy	Surface Owner: State Mineral Owne	er:	API No. 30-015-23067
Latitude 32.08707 Longitude -104.06766 NATURE OF RELEASE Type of Release: Produced water/Oil Type of Release: Produced water/Oil Volume of Release: estimated 1726 bits total fluid (1473 bits (1725 bits (LOCATIO	ON OF RELEASE	
Latitude 32.08707 Longitude -104.06766 NATURE OF RELEASE Volume of Release: estimated Volume Recovered: Oil (253 bbls) 7256 bbls to lab 1726 bbls 1726 bbls			1 -
NATURE OF RELEASE Type of Release: Produced water/Oil Volume of Release: estimated 1726 bbls total fluid (1473 bbls 1726 b	200 200 1400	TI40 East	Eddy
Volume of Release: Produced water/Oil Volume of Release: estimated 1726 bbls total fluid (4473bbls PW/min water (267 bbls) 283 bbls 1726 bbls total fluid (4473bbls PW/min water (267 bbls) 1726 bbls total fluid (4473bbls PW/min water (267 bbls) 1726 bbls total fluid (4473bbls PW/min water (267 bbls) 1726 bbls total fluid (4473bbls PW/min water (267 bbls) 1726 bbls 1			
Source of Release: Damaged 4" SDR7 poly line Date and Hour of Occurrence Date and Hour of Discovery 9-28-14 5:00 pm	NATUR		
Source of Release: Damaged 4" SDR7 poly line Date and Hour of Occurrence Date and Hour of Discovery 9-26-14 5:00 pm	r Type of Release: Produced water/Oil	Volume of Release; estimated	Volume Recovered: Oil (253 bbls)
Was Immediate Notice Given? Yes		(253bbls. Dil) PW)	
Was Immediate Notice Given? Yes	Source of Release: Damaged 4" SDR7 poly line		
By Whom? Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. If 26 bbls If a Watercourse was Impacted, Describe Fully.* SWD line ran alongside west side highway 285 from the San Lorenzo SWD to the Delaware Ranch SWD was damaged in the draw between mile marker 6 and mile marker 7 under bridge while draw was flowing. Describe Cause of Problem and Remedial Action Taken.* Debris and flood waters caused damage to poly line underneath bridge. The line was capped off on the 9-28-2014 stopping the release. Describe Area Affected and Cleanup Action Taken.* Affected area—The draw was affected from the bridge at highway 285 to approximately six thousand feet east down the draw, small remnants of oil believed to be from the same release were found an additional six thousand feet down the draw. Mewbourne Oil Company has recovered 253 bbls of oil from the area with vacuum trucks and skimmers, and is continuing cleanup efforts via hydrocarbon absorbing pads and booms across the flowing draw. 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.		If YES, To Whom?	7 9-28-14 5:00 pm
Was a Watercourse Reached? Yes No 1f YES, Volume Impacting the Watercourse. 1726 bbls	L	Mike Bratcher	
If a Watercourse was Impacted, Describe Fully.* SWD line ran alongside west side highway 285 from the San Lorenzo SWD to the Delaware Ranch SWD was damaged in the draw between mile marker 6 and mile marker 7 under bridge while draw was flowing. Describe Cause of Problem and Remedial Action Taken.* Debris and flood waters caused damage to poly line underneath bridge. The line was capped off on the 9-28-2014 stopping the release. Describe Area Affected and Cleanup Action Taken.* Affected area. The draw was affected from the bridge at highway 285 to approximately six thousand feet east down the draw, small remnants of oil believed to be from the same release were found an additional six thousand feet down the draw. Mewbourne Oil Company has recovered 253 bbls of oil from the area with vacuum trucks and skimmers, and is continuing cleanup efforts via hydrocarbon absorbing pads and booms across the flowing draw. 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.			
SWD line ran alongside west side highway 285 from the San Lorenzo SWD to the Delaware Ranch SWD was damaged in the draw between mile marker 6 and mile marker 7 under bridge while draw was flowing. Describe Cause of Problem and Remedial Action Taken.* Debris and flood waters caused damage to poly line underneath bridge. The line was capped off on the 9-28-2014 stopping the release. Describe Area Affected and Cleanup Action Taken.* Affected area- The draw was affected from the bridge at highway 285 to approximately six thousand feet east down the draw, small remnants of oil believed to be from the same release were found an additional six thousand feet down the draw. Mewbourne Oil Company has recovered 253 bbls of oil from the area with vacuum trucks and skimmers, and is continuing cleanup efforts via hydrocarbon absorbing pads and booms across the flowing draw. Thereby 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.		1726 bbls	nercourse.
Describe Cause of Problem and Remedial Action Taken.* Debris and flood waters caused damage to poly line underneath bridge. The line was capped off on the 9-28-2014 stopping the release. Describe Area Affected and Cleanup Action Taken.* Affected area. The draw was affected from the bridge at highway 285 to approximately six thousand feet east down the draw, small remnants of oil believed to be from the same release were found an additional six thousand feet down the draw. Mewbourne Oil Company has recovered 253 bbls of oil from the area with vacuum trucks and skimmers, and is continuing cleanup efforts via hydrocarbon absorbing pads and booms across the flowing draw. 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.	If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Debris and flood waters caused damage to poly line underneath bridge. The line was capped off on the 9-28-2014 stopping the release. Describe Area Affected and Cleanup Action Taken.* Affected area. The draw was affected from the bridge at highway 285 to approximately six thousand feet east down the draw, small remnants of oil believed to be from the same release were found an additional six thousand feet down the draw. Mewbourne Oil Company has recovered 253 bbls of oil from the area with vacuum trucks and skimmers, and is continuing cleanup efforts via hydrocarbon absorbing pads and booms across the flowing draw. 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.	SWD line ran alongside west side highway 285 from the San Lorenzo S	SWD to the Delaware Ranch SWD was	damaged in the draw between mile marker
Describe Area Affected and Cleanup Action Taken.* Affected area. The draw was affected from the bridge at highway 285 to approximately six thousand feet east down the draw, small remnants of oil believed to be from the same release were found an additional six thousand feet down the draw. Mewbourne Oil Company has recovered 253 bbls of oil from the area with vacuum trucks and skimmers, and is continuing cleanup efforts via hydrocarbon absorbing pads and booms across the flowing draw. Thereby 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.	6 and mile marker 7 under bridge while draw was flowing.		
Describe Area Affected and Cleanup Action Taken.* Affected area- The draw was affected from the bridge at highway 285 to approximately six thousand feet east down the draw, small remnants of oil believed to be from the same release were found an additional six thousand feet down the draw. Mewbourne Oil Company has recovered 253 bbis of oil from the area with vacuum trucks and skimmers, and is continuing cleanup efforts via hydrocarbon absorbing pads and booms across the flowing draw. Thereby 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.	Describe Cause of Problem and Remedial Action Taken.*	the Manager of the State of the	
Affected area- The draw was affected from the bridge at highway 285 to approximately six thousand feet east down the draw, small remnants of oil believed to be from the same release were found an additional six thousand feet down the draw. Mewbourne Oil Company has recovered 253 bbls of oil from the area with vacuum trucks and skimmers, and is continuing cleanup efforts via hydrocarbon absorbing pads and booms across the flowing draw. Thereby 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.	Debris and flood waters caused damage to poly line underneath bridge.	The line was capped off on the 9-28-20	014 stopping the release.
Affected area- The draw was affected from the bridge at highway 285 to approximately six thousand feet east down the draw, small remnants of oil believed to be from the same release were found an additional six thousand feet down the draw. Mewbourne Oil Company has recovered 253 bbls of oil from the area with vacuum trucks and skimmers, and is continuing cleanup efforts via hydrocarbon absorbing pads and booms across the flowing draw. Thereby 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.	Describe Area Affected and Cleanum Action Taken *	to the control of the	
Thereby 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.	···		Tempor
Thereby 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.	believed to be from the same release were found an additional six thous	to approximately six thousand feet east of sand feet down the draw. Mewhourne C	down the draw, small remnants of oil
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.	from the area with vacuum trucks and skimmers, and is continuing clea	inup efforts via hydrocarbon absorbing p	oads and booms across the flowing draw.
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.		and the second gardeness of the contract of the second	
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.	I hereby certify that the information given above is true and complete to	o the best of my knowledge and underst	and that pursuant to NMOCD rules and
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.	public health of the environment. The acceptance of a C-141 report by	the NMOCD marked as "Final Report"	does not relieve the operator of lightlifty
receral, state, or local laws and/or regulations.	should their operations have lailed to adequately investigate and remed	iate contamination that pose a threat to a	pround water surface water homen health
OH COMPANY WAS A STATE OF THE S	federal, state, or local laws and/or regulations.	t does not reneve the operator of respon	sibility for compliance with any other
OIL CONSERVATION DIVISION	2 11	OIL CONSER'	VAŢION DIVISION
Signed By Alife Brown as	Signature: 7. + homas	Gigmod B.	
Approved by Environmental Specialist	Printed Name: Zack Thomas	Approved by Environmental Speciali	st:
Title: Environmental Rep. Approval Date: 10814 Expiration Date: N/A	Title: Environmental Rep.	Approval Date: 0814	Expiration Date: N/A
E-mail Address: zthomas@mewbourne.com Conditions of Approval:	E-mail Address: zthomas@mewbourne.com	Conditions of Approval:	
Date: 10-3-14 Phone: 575-602-2188 Pemediation per O.C.D. Rules & Guidelines	Date: 10-3-14 Phone: 575-602-2188	mediation per O.C.D. Rules &	Attached L.
	Attach Additional Sheets If Necessary 30	/BWIT REMEDIATION PROP O	ICAL NO

APPENDIX III DISPOSAL MANIFESTS

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 NON-HAZARDOUS WASTE MANIFEST NO 1. PAGE 2. TRAILER NO 03340 3. COMPANY NAME 5. PICK-UP DATE G 701 S. Cecil St. 10/16//201 Mewbourne Oil PHONE NO. ZIP 6. TNRCC I.D. NO. E (575) 393–5905 7. NAME OR DESCRIPTION OF WASTE SHIPPED: Hobbs HIN 8. CONTAINERS 9. TOTAL 10. UNIT 11. TEXAS No. QUANTITY Wt/Vol. WASTE ID# N Non-Regulated, Non Hazardous Waste CM E R 12. COMMENTS OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE NO. SAN LORENZO SWO 708592 IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO. T Kin Slaughter 575-887-4048 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper 0 shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC PRINTED/TYPED NAME SIGNATURE DATE R T 16. TRANSPORTER (1) 17. TRANSPORTER (2) R NAME: NAME: A TALON LPE N TEXAS I.D. NO. TEXAS I.D. NO. S P IN CASE OF EMERGENCY CONTACT: IN CASE OF EMERGENCY CONTACT: KEN O **EMERGENCY PHONE: EMERGENCY PHONE:** R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material T E PRINTED/TYPED NAME R S PATES//2014 SIGNATURE_ DATE ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D F 30 Miles East of Carlsbad, NM PERMIT NO. 20. COMMENTS C S WM-01-035 - New Mexico P I 0 L 21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the S I facility is authorized and permitted to receive such wastes. T A Y AUTHORIZED SIGNATURE CELL NO. DATE TIME

GENERATOR: COPIES 1 & 6

APPENDIX IV LABORATORY REPORTS



November 12, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SAN LORENZO SWD

Enclosed are the results of analyses for samples received by the laboratory on 11/07/14 16:00.

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.qov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



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

Received:

11/07/2014

Reported:

BTEX 8260B

11/12/2014

Project Name:

SAN LORENZO SWD

Project Number: Project Location:

NONE GIVEN NOT GIVEN

mg/L

Sampling Date:

11/06/2014

Sampling Type:

Water

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: W-1 (H403437-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/11/2014	ND	0.020	102	0.0200	5.71	
Toluene*	<0.001	0.001	11/11/2014	ND	0.017	86.4	0.0200	7.57	
Ethylbenzene*	<0.001	0.001	11/11/2014	ND	0.017	85.3	0.0200	9.17	
Total Xylenes*	<0.003	0.003	11/11/2014	ND	0.054	90.2	0.0600	8.64	
Total BTEX	<0.006	0.006	11/11/2014	ND					
Surrogate: Dibromofluoromethane	107 5	% 88.3-11	3						
Surrogate: Toluene-d8	94.4	% 90.3-11	5						
Surrogate: 4-Bromofluorobenzene	96.4	% 87.2-11	4						
Chloride, SM4500CI-B	mg/	'L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	840	4.00	11/11/2014	ND	104	104	100	3.92	
TPH 8015M	mg/	L	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	11/11/2014	ND	41.8	83.6	50.0	22.3	
DRO >C10-C28	<1.00	1.00	11/11/2014	ND	47.3	94.7	50.0	25.3	
EXT DRO >C28-C35	<1.00	1.00	11/11/2014	ND	ND -		0.00		
Surrogate: 1-Chlorooctane	81.7	% 36.1-16	I						
Surrogate: 1-Chlorooctadecane	96.2	% 36-171							

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Ditreene



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/07/2014

Reported:

11/12/2014

Project Name:

SAN LORENZO SWD

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

11/06/2014

Sampling Type:

Water

Sampling Condition:

Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: W-2 (H403437-02)

BTEX 8260B	mg/	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/11/2014	ND	0.020	102	0.0200	5.71	
Toluene*	<0.001	0.001	11/11/2014	ND	0.017	86.4	0.0200	7.57	
Ethylbenzene*	<0.001	0.001	11/11/2014	ND	0.017	85.3	0.0200	9.17	
Total Xylenes*	<0.003	0.003	11/11/2014	ND	0.054	90.2	0.0600	8.64	
Total BTEX	<0.006	0.006	11/11/2014	ND	*				
Surrogate: Dibromofluoromethane	106 9	% 88.3-11.	3						
Surrogate: Toluene-d8	96.6	% 90.3-11.	5						
Surrogate: 4-Bromofluorobenzene	99.2	% 87.2-11-	4						
Chloride, SM4500CI-B	mg/	'L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	600	4.00	11/11/2014	ND	104	104	100	3.92	
TPH 8015M	mg/	'L	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	11/11/2014	ND	41.8	83.6	50.0	22.3	
DRO >C10-C28	<1.00	1.00	11/11/2014	ND	47.3	94.7	50.0	25.3	
EXT DRO >C28-C35	<1.00	1.00	11/11/2014	ND	ND		0.00		
Surrogate: 1-Chlorooctane	76.8	% 36.1-16	I						
Surrogate: 1-Chlorooctadecane	97.3	% 36-171							

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (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, affiliables or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.





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

Received:

11/07/2014

Reported:

11/12/2014

Project Name:

SAN LORENZO SWD

Project Number:

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

11/06/2014

Sampling Type:

Water

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: W-3 (H403437-03)

BTEX 8260B	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/11/2014	ND	0.020	102	0.0200	5.71	
Toluene*	<0.001	0.001	11/11/2014	ND	0.017	86.4	0.0200	7.57	
Ethylbenzene*	<0.001	0.001	11/11/2014	ND	0.017	85.3	0.0200	9.17	
Total Xylenes*	<0.003	0.003	11/11/2014	ND	0.054	90.2	0.0600	8.64	
Total BTEX	<0.006	0.006	11/11/2014	ND					
Surrogate: Dibromofluoromethane	111 9	% 88.3-11.	3						
Surrogate: Toluene-d8	95.1	% 90.3-11.	5						
Surrogate: 4-Bromofluorobenzene	93.5	% 87.2-11-	4						
Chloride, SM4500CI-B	mg/	'L	Analyze	d By: AP			,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	630	4.00	11/11/2014	ND	104	104	100	3.92	
TPH 8015M	mg/	'L	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	11/11/2014	ND	41.8	83.6	50.0	22.3	
DRO >C10-C28	<1.00	1.00	11/11/2014	ND	47.3	94.7	50.0	25.3	
EXT DRO >C28-C35	<1.00	1.00	11/11/2014	ND	ND		0.00		
Surrogate: 1-Chlorooctane	81.1	% 36.1-16	I				-		
Surrogate: 1-Chlorooctadecane	98.6	% 36-171							

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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 SM4500CI-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

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

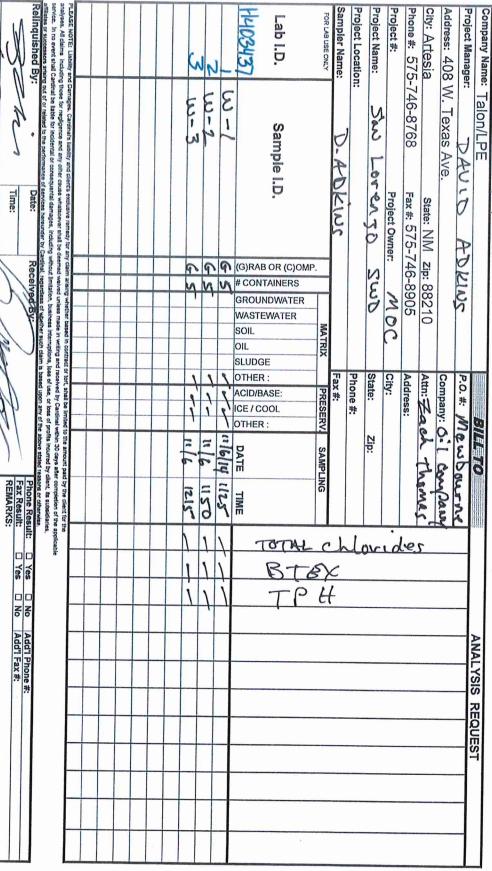
Celey D. Keine

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



Sampler - UPS

Other:

de

Dyes Tyes Sample Condition

CHECKED BY:

☐ Yes ☐ No

Add'l Phone #: Add'l Fax #:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Delivered By: (Gircle One)



December 05, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SAN LORENZO SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/02/14 13:45.

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 accreditated 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.

Celey D. Keine

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



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

Received:

12/02/2014

Reported:

12/05/2014

Project Name:

SAN LORENZO SWD

Project Number:

70073802501

Project Location:

EDDY

Sampling Date:

11/26/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S - 1 0' (H403673-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	12/03/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	
Surrogate: 1-Chlorooctane	121 %	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	139 %	6 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, whose interruptions, loss of use, or loss of profits incurred by client, its arising of related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/02/2014

Reported:

12/05/2014

Project Name:

SAN LORENZO SWD

Project Number:

Project Location:

70073802501

EDDY

Sampling Date:

Sampling Type:

11/26/2014 Soil

Sampling Condition:

0--10

Sample Received By:

Cool & Intact

Kathy Perez

Sample ID: S - 1 .5' (H403673-02)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.0	% 61-154							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	12/03/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	
DRO >C10-C28 Surrogate: 1-Chlorooctane		10.0	12/03/2014	ND	205	102	200	1.18	-

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

Received:

Reported:

12/05/2014

Project Name:

SAN LORENZO SWD

Project Number: Project Location: 70073802501 **EDDY**

12/02/2014

Sampling Date:

11/26/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S - 2 0' (H403673-03)

BTEX 8021B	mg/	kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.1	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/03/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	
Surrogate: 1-Chlorooctane	123 %	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	139 %	6 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.





TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/02/2014

Reported:

12/05/2014

Project Name:

SAN LORENZO SWD

Project Number:

70073802501

Project Location:

Sampling Date:

Sampling Type:

11/26/2014 Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

EDDY

Sample ID: S - 2 .5' (H403673-04)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/03/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	
Surrogate: 1-Chlorooctane	123 %	6 47.2-157	t.						
Surrogate: 1-Chlorooctadecane	140 %	6 52.1-176							

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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, affiliables or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.





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

Received:

12/02/2014

Reported:

12/05/2014

Project Name:

SAN LORENZO SWD

Project Number:

70073802501

Project Location:

EDDY

Sampling Date:

11/26/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S - 3 0' (H403673-05)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.4 9	% 61-154	ħ						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/03/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	
Surrogate: 1-Chlorooctane	121 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	138 %	6 52.1-170	6						

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:

12/02/2014

Reported:

12/05/2014

Project Name:

SAN LORENZO SWD

Project Number:

70073802501

Project Location:

EDDY

Sampling Date:

Sampling Type:

11/26/2014 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S - 3 .5' (H403673-06)

BTEX 8021B	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 61-154	·						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/03/2014	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	
Surrogate: 1-Chlorooctane	120 5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	137	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/02/2014

Reported:

12/05/2014

Project Name:

SAN LORENZO SWD

Project Number:

70073802501

Project Location:

EDDY

Sampling Date:

11/26/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: BG - 1 0' (H403673-07)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.4%	61-154	(
Chloride, SM4500CI-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	12/03/2014	ND	416	104	400	3.77	
TPH 8015M	mg/l	mg/kg Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	
Surrogate: 1-Chlorooctane	114 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	131 %	52.1-176	5						

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keine



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

Received:

12/02/2014

Reported:

12/05/2014

Project Name:

SAN LORENZO SWD

Project Number: Project Location:

EDDY

70073802501

Sampling Date:

mpling Date:

11/26/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: BG - 2 0' (H403673-08)

BTEX 8021B	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 61-154	i						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	12/03/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	
Surrogate: 1-Chlorooctane	122 9	% 47.2-157	7						
Surrogate: 1-Chlorooctadecane	141 9	% 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.





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

Received:

12/02/2014

Reported:

12/05/2014

Project Name:

SAN LORENZO SWD

Project Number:

70073802501

Project Location:

EDDY

Sampling Date:

bamping bate.

11/26/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: BG - 3 0' (H403673-09)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	<0.300	0.300	12/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	61-154							
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	12/03/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	
Surrogate: 1-Chlorooctane	126 %	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane									

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.





Notes and Definitions

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 SM4500CI-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

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received By: Relinguished By: Relinguished By: Received By: Received By: Received By: Received By: Received By: Received	Sompany Name: Talon/LPE Sompany Name: Talon/LPE Address: 408 W. Texas Ave. State: NM Zip: 8821 City: Artesia Project Name: 575-746-8768 Project Name: 575-746-8905	101 East Marland, Hobbs, NM 88240
	ID: 88210 Attn: Za CL Thumks Other State: Zip: State: Zip: Phone #: Phone Phone #: Phone #: Phone #: Phone	
Addition		ANALYSIS REQUEST