Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following is	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection) – Photos not available.	of the liner integrity if applicable (Note: appropriate OCD District office ilable due to the spill being from 2013.
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in
Printed Name: Amy Barnhill	Title: Waste and Water Specialist
Signature: Manual Shup	Date: <u>12-14-21</u>
email: ABarnhill@chevron.com	Telephone: <u>432-687-7108</u>
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:03/31/2022
Printed Name:	Title: — Environmental Specialist A—————



Luke Welch Project Manager

Upstream Business Unit
Environmental Management
Company
1400 Smith Street
Room 07069B
Houston, Texas 77002
Tel 713-372-0292
Luke.Welch@chevron.com

December 15, 2014

Dr. Tomas Oberding
Environmental Specialist
New Mexico Oil Conservation Division
1625 N. French Dr.
Hobbs, New Mexico 88240

Re: Chevron Special Projects - WLU 45 (RP# 3297)

Dear Dr. Oberding,

Lovington Unit No. 45 (RP #3297). Please find enclosed for your records, a copy of the final report documenting the final closure activities at the West

Management Company (CEMC) to document remedial activities performed for CEMC at the above referenced site The report was prepared by Conestoga-Rovers and Associates (CRA) on behalf of Chevron Environmental

luke.welch@chevron.com. content of the report, please do not hesitate to contact me by phone at 713-372-0292 or via e-mail at respectfully requests the NMOCD to grant a no further action status. Should you have any questions regarding the considered to be historical. CEMC now considers assessment and remedial activities to be complete and The only impacts identified significantly above regulatory limits were at 45 feet below grade surface and are

Sincerely,

Luke Welch

Environmental Project Manager

Original





Final Report

SOIL ASSESSMENT AND DELINEATION ACTIVITIES REPORT WEST LOVINGTON UNIT #45 INJECTION WELL RP #3297

Unit B, Section 8, Township 17 South, Range 36 East, Lea County, New Mexico

Prepared for: Chevron Environmental Management Company

Conestoga-Rovers & Associates

2135 South Loop, 250 West Midland, Texas 79703

November 2014 • 086499 • Report No. 1



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Soil Assessment and Delineation Activities Report

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Appendix C Soil Boring Logs

Appendix D Soil Laboratory Analytical Report



Soil Assessment and Delineation Activities Report

Section 1.0 Introduction

West Lovington Unit #45 Injection Well release location (hereafter referred to as the "Site"). Delineation Activities Report to Chevron Environmental Management Company (CEMC) for the Conestoga-Rovers and Associates (CRA) is pleased to present this Soil Assessment and

association with Remediation Permit No. 3297 (RP #3297); which the New Mexico Oil August of 2014. Conservation Division (NMOCD) District I, Hobbs, New Mexico office assigned to the release in This Report also serves as documentation of corrective actions performed by Chevron

Section 2.0 Project Information and Background

miles southwest of Lovington, New Mexico, in eastern Lea County (Figure 1 and Figure 2). The Site is located in Unit B, Section 8, Township 17 South, Range 36 East, approximately 6.5

assessment at the Site by implementing a soil boring program. for the Site to CEMC. In June 2014, CEMC contracted CRA to perform a comprehensive soil assessment activities Chevron delegated the continuation of assessment and delineation efforts and preliminary determinations of impacts to environmental media. Following the initial field Chevron's assessment included a site visit, soil sample collection, analytical laboratory analyses CRA understands that Chevron conducted initial field assessment activities at the Site in 2013.

utility locating purposes. In addition, the Site was walked to observe site features proposed boring locations were marked and New Mexico one-call parameters were flagged for On July 16, 2014, CRA mobilized to the Site to perform a site visit. During the site visit,

2.1 West Lovington Unit #45 Injection Well Release

tank that was being utilized after the completion of an acid job. The C-141 reported that release of 20.8 barrels (bbls) of produced water resulting from a hole in the bottom of a frac approximately 0.5 bbl of produced water was recovered. The release was described as follows: Chevron submitted a C-141 Form to the NMOCD dated June 27, 2013 (Appendix A), describing a

The release resulted in an approximately 160 by 30 foot pool of fluids on the well pad

excavation activities. Chevron excavated visibly contaminated soil to a depth of approximately Following standing fluids clean-up by vacuum truck, Chevron proceeded with remedial 18-inches below ground surface (bgs) (Figure 3). The excavated soils were loaded and



excavated soils are unknown. transported to an approved disposal facility. The actual volume and final disposition of the

total petroleum hydrocarbons (TPH) by Method 8015 (GRO and DRO) and chlorides by EPA determination of benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8021 B, In September of 2013, Chevron collected three surficial soil samples from along the spill path. Method SM4500Cl-B. The following results were reported: These three soil samples were submitted to Cardinal Laboratories, Hobbs, New Mexico for

SS #3	SS #2	SS #1	Sample Point
<10.0 (mg/kg)	<10.0 (mg/kg)	<10.0 (mg/kg)	TPH (GRO + DRO)
128 (mg/kg)	4320 (mg/kg)	2840 (mg/kg)	<u>Chlorides</u>

2.2 Recommended Remediation Action Levels

surface water body. Consequently, the NMOCD total ranking criteria score is zero (0) for the the release site; and the release site lies more than 1,000 horizontal feet from the nearest greater than 100-feet bgs. The nearest private domestic water source is greater than 200-feet 500 mg/kg and 1,000 mg/kg for chlorides. Draft Guidance) to be applied to this location by the NMOCD for TPH (GRO+DRO) at the site is from the release site; the nearest public/municipal water source is greater than 1,000-feet from (CRA) managed groundwater site(s) data demonstrate the depth to groundwater at the Site is United States Geological Survey (USGS) Current Water Database for the Nation, and current Information available on the Petroleum Recovery Research Center (PRRC) Mapping Portal, The anticipated site-specific Recommended Remediation Action Levels (RRALs; per 2011

- -	*7
0*	Ranking Criteria Total Score
0	Distance to Surface Body Water (>1000 horizontal feet)
0	domestic source)
	Wellhead Protection Area (> 1000 feet from water source, > 200 feet from
0	Depth to Ground Water (>100 feet)
Score	Ranking Criteria
	New Mexico Oil Conservation Division Site Assessment

⁺ DRO), and 1,000 mg/kg for chlorides¹ mg/kg for benzene, toluene, ethylbenzene, and xylene (BTEX), 500 mg/kg TPH (GRO *Because the ranking criteria total score is 0, NMOCD established RRALs are 50



²⁰¹¹ ¹ NMOCD Draft Guidance for Release Reporting and Corrective Action, September 30,

Soil Assessment and Delineation Activities Report

Section 3.0 Soil Assessment and Delineation Activities

with appropriate attachments for approval to the Chevron Buckeye Field Management Team. the installation of five soil borings under RP #3291. CRA submitted an MCBU Chevron Dig Plan borings are presented on the Site Details and Analytical Results Map (Figure 3). Soil borings were logged in accordance with the Unified Soil Classification System and recorded samples with distilled water. The rinsate was then screened using Hach chloride test strips included as Appendix B. Chloride concentrations in soil were field screened by mixing soil based on field screening for chlorides. A photo log documenting the drilling activities is a total depth of 35-feet bgs. Two soil borings were advanced to a total depth of 45-feet bgs adjacent to the remedial excavation boundary at the Site. Three soil borings were advanced to techniques were utilized to collect soil samples. Five soil borings were advanced inside and remainder of each boring was advanced using an air rotary drill rig and split spoon sampling borings were pre-cleared via air knife techniques to a depth of 5-feet bgs or until refusal. The On July 31, 2014, HCI and CRA mobilized to the Site to begin soil boring activities. The soil On July 15, 2014, CRA's contracted service provider, Harrison & Cooper, Inc. (HCI) of Lubbock, Visual representation of the boring logs can be found in Appendix C. The location of the soil Texas submitted an initial New Mexico one-call utility locate ticket (2014291464) pertaining to

summarized in Table 1. The soil laboratory analytical report is included as Appendix D. A Site for chloride analysis by EPA Method 300/300.1. Soil laboratory analytical results are prepared jars and stored in a cooler with ice. The soil samples were sent to Xenco Laboratories SB-5) at varying intervals beginning at 5-feet bgs. Soil samples were packed into laboratory Soil samples were collected for laboratory analysis from each boring (SB-1, SB-2, SB-3, SB-4 and Details and Analytical Results Map is presented as Figure 3. (Xenco) in Odessa, Texas for analysis of BTEX by EPA Method 8021 B; TPH by Method 8015 and

3.1 Soil Sampling Analytical Results

observed in the soil samples was dry in all instances. sandstone was observed from approximately 15-feet to total depth (35-feet). Moisture content dense caliche from the surface to approximately 15-feet bgs. Brown to tan, very fine grain The soil type observed in soil samples collected during the drilling program consisted of tan

for total BTEX (50 mg/kg) and TPH (GRO + DRO) (500 mg/kg). Soil sample SB-3 at the 45-foot analyses exhibited concentrations below laboratory reporting limits and below the Site RRALs All soil samples collected (SB-1, SB-2, SB-3, SB-4 and SB-5) from the Site in 2014 for laboratory SB-4, at the 5 and 45-foot bgs interval exhibited chloride concentrations just above the RRALs at bgs interval exhibited chloride concentrations above the Site RRALs at 1600 mg/kg. Soil sample



Soil Assessment and Delineation Activities Report

below the Site RRALs (1000 mg/kg). collected from the Site in 2014 for laboratory analysis exhibited chloride concentrations in soil 1010 mg/kg and 1250 mg/kg, respectively. The remaining soil samples (SB-1, SB-2 and SB-5)

Section 4.0 Conclusions

the north (SB-2), east (SB-1) and south (SB-5); however, vertical delineation in soil borings vertical and horizontal delineation of chloride impacts to soil has been reached in soil borings to located to the west (SB-4) and centrally located boring (SB-3) has not been achieved (GRO + DRO) impacts to soil has been reached. Evaluation of the analytical data indicates that performed in July of 2014 indicates that vertical and horizontal delineation of BTEX and TPH Evaluation of the analytical data obtained from soil assessment and delineation activities

Section 5.0 Recommendations

efforts should address the following: recommended to achieve closure of the release associated with RP #3297. The assessment Based on the chloride concentrations observed in the soil, additional assessment activities are

The vertical extent of chloride concentrations at the Site

tasks: To further assess the vertical extent of chlorides in soil, CRA proposes to perform the following

- SB-4) to a depth of approximately 90-feet bgs Install one additional soil boring equally spaced between existing soil borings (SB-3 and
- foot interval thereafter as the borings are advanced Collect soil samples from the drill rig cuttings in the first 1-foot interval and at each 5-
- Submit collected soil samples for laboratory analysis of chlorides by EPA Method 300/300.1
- in the field for CEMC review and consideration Compile a soil assessment report, summarizing soil boring and analytical data collected



Soil Assessment and Delineation Activities Report

timely response to this correspondence is appreciated. If you have any questions or comments with regard to this Soil Assessment and Delineation Activities Report, please do not hesitate to contact our Midland office at (432) 686-0086. Your

All of Which is Respectfully Submitted,

CONESTOGA ROVERS & ASSOCIATES

Thomas C. Largon
Principal, Midland Operations Manager

Jake Jung

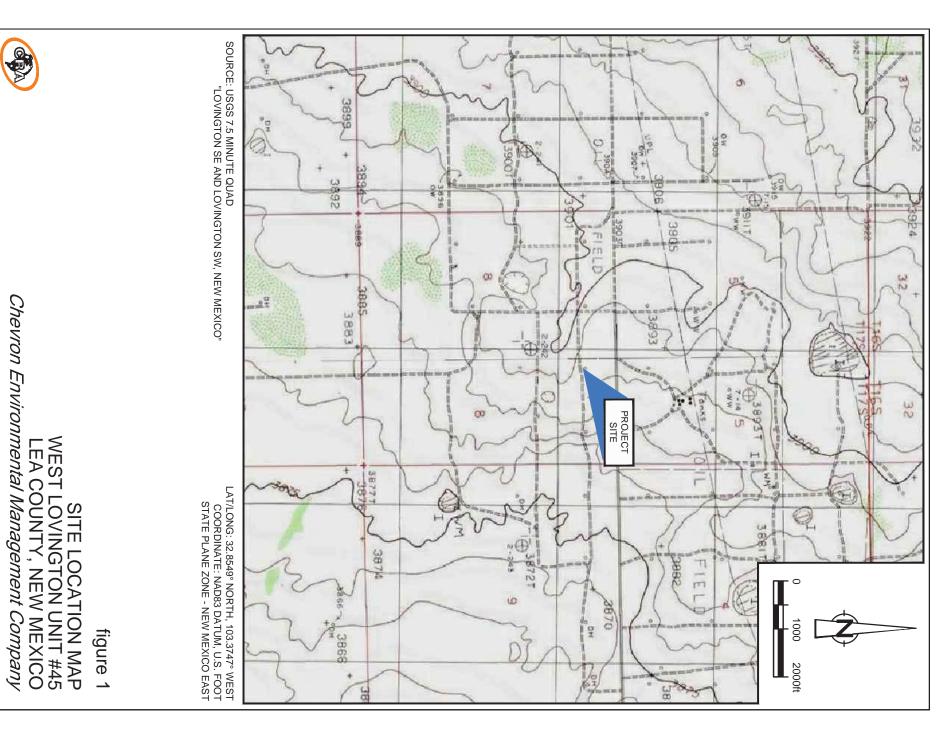
Jake L. Ferenz Project Manager

Soil Assessment and Delineation Activities Report

Figures

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CONESTOGA-ROVERS & ASSOCIATES



086499-00(001)GN-DL001 AUG 29/2014



NTE PLANE ZONE - NEW MEXICO EAST

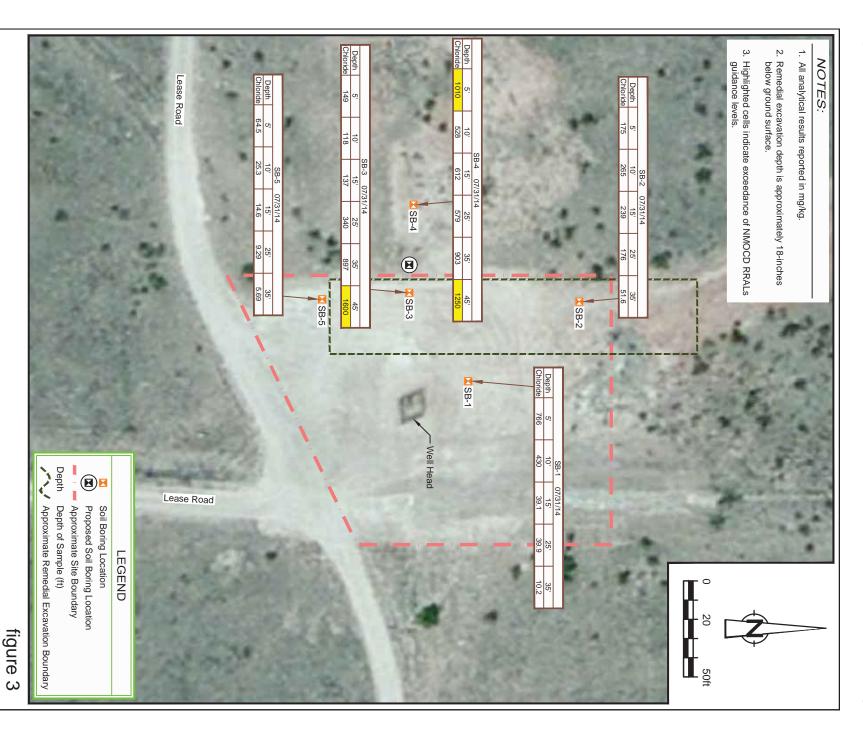
figure 2

ngıı

SITE AERIAL MAP WEST LOVINGTON UNIT #45 LEA COUNTY, NEW MEXICO Chevron Environmental Management Company



086499-00(001)GN-DL001 AUG 29/2014



086499-00(001)GN-DL001 OCT 24/2014

SITE DETAILS AND ANALYTICAL RESULTS MAP WEST LOVINGTON UNIT #45 LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company

Soil Assessment and Delineation Activities Report

Tables

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CONESTOGA-ROVERS & ASSOCIATES

Page 1 of 1

TABLE 1

SOIL ANALYTICAL SUMMARY WEST LOVINGTON UNIT #45 FRAC TANK LEA COUNTY, NEW MEXICO

										TPH (SW	TPH (SW 8015 Modified)	fied)		
Sample ID	Depth (bgs)	Sample Date	Benzene	Toluene	Ethyl- Benzene	Xylenes	Total BTEX	C6-C10	>C10-C28	C6-C12	C12-C28	C28-C35	Total TPH C6-C35	Chlorides
NMOCD Reco	ommended	NMOCD Recommended Remediation	0.2	1		ı	50	1	-	500	500	!	2,500	1,000
,	Action Levels	· ·	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SS #1	Surface	9/23/13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	1	:	1	1	2840
SS #2	Surface	9/23/13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	ı	:	1	1	4320
SS #3	Surface	9/23/13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	:	-	:	1	128
SB-1	5	7/31/14	<0.00111	<0.00223	<0.00111	<0.00111	<0.00111	:	-	<16.7	<16.7	<16.7	<16.7	766
SB-1	10'	7/31/14	<0.00108	<0.00215	<0.00108 <0.00215 <0.00108 <0.00108	<0.00108	<0.00108	:	1	<16.2	<16.2	<16.2	<16.2	430
SB-1	15'	7/31/14	<0.00133	<0.00267	<0.00133 <0.00133	<0.00133	<0.00133	:	1	<20.0	<20.0	<20.0	<20.0	39.1
SB-1	25'	7/31/14	<0.00105	<0.00210	<0.00105 <0.00105		<0.00105	:	1	<15.8	<15.8	<15.8	<15.8	39.9
SB-1	35'	7/31/14	<0.00109	<0.00217	<0.00109 <0.00109		<0.00109			<16.4	<16.4	<16.4	<16.4	10.2
SB-2	2	7/31/14	<0.00151	< 0.00301	<0.00151	<0.00151	<0.00151	:	ı	<22.7	<22.7	<22.7	<22.7	175
SB-2	10'	7/31/14	<0.00106	<0.00211	<0.00211	<0.00106	<0.00106	:		<15.9	<15.9	<15.9	<15.9	265
SB-2	15'	7/31/14	<0.00109	<0.00219	<0.00109	<0.00109	<0.00109	:	1	<16.4	<16.4	<16.4	<16.4	239
SB-2	25'	7/31/14	<0.00106	<0.00211	<0.00106	<0.00106	<0.00106	:	ı	<15.9	<15.9	<15.9	<15.9	176
SB-2	35'	7/31/14	<0.00106	<0.00212	<0.00106	<0.00106	<0.00106	:		<15.9	<15.9	<15.9	<15.9	51.6
SB-3	2	7/31/14	<0.00113	<0.00225	<0.00113	<0.00113	<0.00113	:	ı	<16.8	<16.8	<16.8	<16.8	149
SB-3	10'	7/31/14	<0.00108	<0.00216	<0.00108	<0.00108	<0.00108	:	ı	<16.2	<16.2	<16.2	<16.2	118
SB-3	15'	7/31/14	<0.00106	<0.00212	<0.00106	<0.00106	<0.00106	:	1	<15.9	<15.9	<15.9	<15.9	137
SB-3	25'	7/31/14	<0.00107	<0.00213	<0.00107	<0.00107	<0.00107	:	ı	<16.0	<16.0	<16.0	<16.0	340
SB-3	35'	7/31/14	<0.00106	<0.00211	<0.00106	<0.00106	<0.00106	:	ı	<16.0	<16.0	<16.0	<16.0	897
SB-3	45'	7/31/14	<0.00105	<0.00210	<0.00105	<0.00105	<0.00105		-	<15.8	<15.8	<15.8	<15.8	1600
SB-4	5	7/31/14	<0.00108	<0.00216	<0.00108	<0.00108	<0.00108		-	<16.2	<16.2	<16.2	<16.2	1010
SB-4	10'	7/31/14	<0.00104	<0.00209	<0.00104	<0.00104	<0.00104	:	1	<15.7	<15.7	<15.7	<15.7	528
SB-4	15'	7/31/14	<0.00107	<0.00215	<0.00107	<0.00107	<0.00107	:	1	<16.1	<16.1	<16.1	<16.1	612
SB-4	25'	7/31/14	<0.00107	<0.00213	<0.00107	<0.00107	<0.00107	1	1	<16.0	<16.0	<16.0	<16.0	579
SB-4	35'	7/31/14	<0.00105	<0.00210	<0.00105	<0.00105	<0.00105	:	1	<15.8	<15.8	<15.8	<15.8	903
SB-4	45'	7/31/14	<0.00106	<0.00211	<0.00106	<0.00106	<0.00106	:	1	<15.9	<15.9	<15.9	<15.9	1250
SB-5	ΩĪ	7/31/14	<0.00110	<0.00220	<0.00110	<0.00110	<0.00110	:	1	<16.6	<16.6	<16.6	<16.6	64.5
SB-5	10'	7/31/14	<0.00105	<0.00211	<0.00105	<0.00105	<0.00105	:	1	<15.9	<15.9	<15.9	<15.9	25.3
SB-5	15'	7/31/14	<0.00106	<0.00106 <0.00212	<0.00106 <0.00106 <0.00106	<0.00106	<0.00106	:	ı	<16.0	<16.0	<16.0	<16.0	14.6
SB-5	25'	7/31/14	<0.00106	<0.00211	<0.00106 <0.00211 <0.00106 <0.00106 <0.00106	<0.00106	<0.00106	:	1	<15.8	<15.8	<15.8	<15.8	9.29
SB-5	35'	7/31/14	<0.00105	<0.00210	<0.00210 <0.00105 <0.00105 <0.00105	<0.00105	<0.00105	1	1	<15.8	<15.8	<15.8	<15.8	5.69
Notes:														

All analytical results reported in (mg/kg) milligrams per kilogram
 2013 Chloride analyses by Method EPA SM4500Cl-B; 2014 Chloride analyses by Method EPA 300/300.1
 BTEX analysis by Method EPA 8021 B
 TPH analysis by Method SW 8015 Modified
 Highlighted cells indicate concentrations exceeding guidance RRALs

^{6.} RRALS from NMOCD (September 2011 Draft) Release Guidance Document 7. bgs - below ground surface 8. < indicates below laboratory Reporting Limit (RL)

^{9. (}SB) indicates Soil Boring; (SS) indicates Soil Sample

^{10. &}quot;--" indicates not analyzed

Soil Assessment and Delineation Activities Report

Appendices

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CONESTOGA-ROVERS & ASSOCIATES

Soil Assessment and Delineation Activities Report

Appendix A

Original Form C-141



086499 (1)

MDistrict 1
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

MOBBS OCD

Form C-141 Revised August 8, 2011

SEB ubin 212014 to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

				0	OPERATOR	⊠ Initi	Initial Report Final Report
Name of Company CHEVRON Address HCR 60, BOX 423 – Lovington, NM 88260 Physical: 56 Texas Camp Road Lovington NM 88260	X 423 – Loving	ton, NM	188260 M 88260	Telephone No.		d Pagano Office: 575-396-4414 ext 275	275 Cellular: 505-787-9816
Facility Name: West Lovington Unit #45	ngton Unit	#45		Facility Ty	Facility Type: Produced Water Injection Well	ater Injection W	ell
Surface Owner: State of New Mexico	lew Mexico	0	Mineral O	Mineral Owner State of New Mexico	ew Mexico	API No. 30-	5. 30-025-03910
		L .	LOCA	LOCATION OF RELEASE	74497	0	
Unit Letter Section Tov B 08 1	Township Ra	Range For	Feet from the 660	North/South Line North	Feet from the 1980	East/West Line East	County
			NAT	NATURE OF RELEASE	EASE		
Type of Release Spill to Land	and			Volume of Releas Produced Water	Volume of Release 20.8bbls of Produced Water		Volume Recovered 0.5 bbls of Produced Water
Source of Release Flow Back	Flow Back Frac Tank			Date and 6/26/13	Date and Hour of Occurrence 6/26/13 10:30AM		Date and Hour of Discovery 6/26/13 11:30AM
Was Immediate Notice Given?	? × Yes	No No	□ Not Required		If YES, To Whom? Geoffrey Leking		
By Whom? David Pagano				Date and	Date and Hour 6/26/13 4:00PM left voicemail	DPM left voicemai	
Was a Watercourse Reached?	_ Y	Yes 🛛 No	Г	If YES, V	If YES, Volume Impacting the Watercourse.	he Watercourse.	
If a Watercourse was Impacted, Describe Fully.*	d, Describe	Fully.*					
Describe Cause of Problem and Remedial Action Taken.*	nd Remedial	Action T	aken.*				
Fluids were released from hole in the bottom of a Frac Tank that was on location in order to flow back well after completion of acid job.	e in the botto	om of a F	rac Tank that w	as on location in o	rder to flow back w	ell after completic	n of acid job.
Describe Area Affected and Cleanup Action Taken.	leanup Acti	on Taken.	*				
Release resulted in approx 160 by 30 foot pool of fluids on the well pad. Hyrdo Vac truck vacuumed up standing fluids and recovered 0.5 bbls of oil. Next step is to excavate visibly contaminated soil up to 18" and haul off to disposal facility. Contamination beyond 18" will be remediated by Chevro EMC.	y contamina	t pool of f ited soil u	luids on the we p to 18" and ha	ll pad. Hyrdo Vac ıl off to disposal f	truck vacuumed up acility. Contaminat	standing fluids artion beyond 18" w	nd recovered 0.5 bbls of oil. ill be remediated by Chevron
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 heal 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.	nation given equired to recent. The accailed to adecom, NMOCDon, NMOCDON, VMOCDON, V	above is port and/o septance o quately invaceptan	true and complor file certain re of a C-141 reported for a C-141 reported to a C-141 re oce of a C-141 reported for a C-141 re	te to the best of melease notifications to by the NMOCD mediate contamina port does not relia	y knowledge and u and perform correc marked as "Final R ation that pose a thr eve the operator of	nderstand that pur tive actions for re eport" does not re eat to ground wate responsibility for o	suant to NMOCD rules and leases which may endanger lieve the operator of liability r, surface water, human health compliance with any other
Signature: Dowid	Majorna	3			OIL CON	OIL CONSERVATION DIV	DIVISION
Printed Name: David Pagano	0			Approved	Approved by Biarier Supervisor.	Som Emtal go	Southis
Title: Health & Environmental Specialist	ntal Specia	llist		Approval Date:	hate: 9-2-14	Expiration Date:	Date: 11-2.14
Date: 6/27/13	Phone: 505-787-9816	.787-981	6	Conditions	Conditions of Approval: 5.	Sopla	Attached RP-3297
onal Sheets I	Necessary	3		repord	and. Dohnt & Rom	£ ~	
				apr.	en Mroco gride.	. Subst fui	No 1424 540359
				C-141 8.	M 87 81-2-14.		679045 HTM 020

Soil Assessment and Delineation Activities Report

Appendix B

Photographic Log



086499 (1)



PHOTO 1: View of soil boring (SB-5) installation activities facing west



PHOTO 2: View of soil boring (SB-1) installation activities facing south west



PHOTOGRAPH LOG
West Lovington Unit #45
Lea County, New Mexico
Chevron Environmental Management Company

Soil Assessment and Delineation Activities Report

Appendix C

Soil Boring Logs



086499 (1)

Sampling Interval	T. X	Genzene Goluene Results Reported in marka Ethyl- eenzene Sylenes Total TPH C6-C35) Chlorides	Project: WLU #45 Lea County, NM Client: CEMC
Stratification is Inferred And May Not be Exact. Soil Classification Based on Visual-Manual Procedure	X X X X X X X X X X X X X X X X X X X	Reading (ppm) Water Level Screen Interval	B-1 NG LOG
\sum_= Water First Noted \text{Uire} \text{Analyzed Sample}	Caliche: White, weathered, very well cemented, consolidated Caliche: White to tan, consolidated with sandstone fragments in matrix Caliche: Tan to reddish brown, unconsolidated with well cemented, very fine grain sandstone Sand: Tan to reddish brown, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix Sand: Tan, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix TD = 35-Feet	BORING DATA Start Time: 9:20 am Finish Time: 9:34	File No.: 086499 Date: 07/31/2014 Drilling Co.: HCl Supervisor: Kenny Cooper Type Rig: Air/Mud Rotary Logged by: Jake Ferenz

	\boxtimes				Project: Client:
			Benzene		
	Sampling Interval		Toluene Reg	LABC	WLU #45 Lea County, NM CEMC
	Interval		Ethyl- Report	RATORY	ý, ZM
			Results Reported in mg/kg Ethyl- benzene Xylenes	LABORATORY TEST DATA	
			Total TPH (C6-C35)	Ā	
	Sc		Chlorides		
	340 Stratification is Inferred And May Not be Exact. Soil Classification Based on Visual-Manual Procedure		Photo- lonization Detection Reading (ppm)	FIEL	SOIL BORING LOG
^	ferred An sed on V		Sampling	FIELD DATA	No.
	40 - Ind May Not Visual-Manu	30 20 20 35	Depth (feet)	Α	SB-2
	be Exact ıal Procec		Water Level Screen Interval		
	t. \sum_{=} Water First Noted Analyzed Sample	Caliche: White, weathered, very well cemented, consolidated Caliche: White to tan, consolidated with sandstone fragments in matrix Caliche: Tan to reddish brown, unconsolidated with well cemented, very fine grain sandstone Sand: Tan to reddish brown, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix Sand: Tan, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix TD = 35-Feet		BORING DATA	File No.: 086499 Date: 07/31/2014 Drilling Co.: HCl Supervisor: Kenny Cooper Type Rig: Air/Mud Rotary Logged by: Jake Ferenz

-		1	_	
		Benzene		Project: Client:
Sampling Interval	7	Foluene	LAB	WLU #45 Lea County, NM CEMC
y Interval		Ethyl- Report	ORATORY	nty, NM
	>	Ethyl- penzene penzene in mg/kg	LABORATORY TEST DATA	
		Total TPH (C6-C35)	ГА	
Sc		Chlorides		
40 Stratification is Inferred And May Not be Exact. Soil Classification Based on Visual-Manual Procedure		Photo- lonization Detection Reading (ppm)	FIE	SOIL
nferre ased		Sampling	FIELD [BC No.
d And May Not on Visual-Manu	- 15 - 15 - 20 - 35 - 35	Depth (feet)	DATA	SOIL BORING LOG
be Ex al Pro		Water Level Screen		OG
xact. □ Water First Noted rocedure ○ Analyzed Sample	Caliche: White, weathered, very well cemented, consolidated Caliche: White to tan, consolidated with sandstone fragments in matrix Caliche: Tan to reddish brown, unconsolidated with well cemented, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix Sand: Tan to reddish brown, very fine grain sandstone in matrix Tan to white, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix	Interval	BORING DATA	File No.: 086499 Date: 07/31/2014 Drilling Co.: HCl Supervisor: Kenny Cooper Type Rig: Air/Mud Rotary Logged by: Jake Ferenz

Sampling Interval		Benzene Toluene Results Reported in mg/kg benzene Xylenes	I ARORATORY TEST DATA	Project: LPU #10 Lea County, New Mexico Client: CEMC
(0		Total TPH (C6-C35)	TA	
Stratification is Inferred And May Not be Exact. Soil Classification Based on Visual-Manual Procedure	M	Photo- lonization : Detection Reading (ppm)		SOIL BO
oo rred And May Not be ed on Visual-Manual I	- 50 — - 65 — - 70 — - 75 — -	Sampling (feet) Water Level	O DATA	SOIL BORING LOG
Exact.	Sand: Tan to brown, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix TD = 45-Feet	Screen Interval		G File No.: 086497 Date: 07/29/2014 Drilling Co.: HCl Supervisor: Kenny Cooper Type Rig: Air/Mud Rotary Logged by: Jake Ferenz

Samplii		Benzene Toluene	LA	Project: WLU # Lea Co Client: CEMC
Sampling Interval		Ethyl- benzene in mg/kg	LABORATORY TEST DATA	WLU #45 Lea County, NM CEMC
			TEST DATA	
		Total TPH (C6-C35) Chlorides		
Stratification is Info		Photo- lonization Detection Reading (ppm)	FIELD	SOIL
40 Stratification is Inferred And May Not be Exact. Soil Classification Based on Visual-Manual Procedure	X (5) X (25) X (35)	Sampling (feet) Water Level	D DATA	SOIL BORING LOG
Exact. ${\sqsubseteq}$ Water First Noted Procedure ${\bigcirc}$ Analyzed Sample	Caliche: White, weathered, very well cemented, consolidated Caliche: White to tan, consolidated with sandstone fragments in matrix Caliche: Tan to reddish brown, unconsolidated with well cemented, very fine grain sandstone Sand: Tan to reddish brown, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix Sand: Tan to brown, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix TD = 35-Feet	Screen Interval Start Time: 11:10 am Finish Time: 11:33	BORING DATA	File No.: 086499 Date: 07/31/2014 Drilling Co.: HCl Supervisor: Kenny Cooper Type Rig: Air/Mud Rotary Logged by: Jake Ferenz

Stratification is Inferred And May Not be Exact. Soil Classification Based on Visual-Manual Procedure	Sand:	Benzene Toluene Toluene Toluene Toluene Total TPH (C6-C355) Chlorides Total CC355) Chlorides Fhoto- Depth Level Screen Interval Start Time: 11:10 am	LABORATORY TEST DATA FIELD DATA BOI	Project: LPU #10 File No.: 086497 Lea County, New Mexico No. SB-4 Client: CEMC Client: CEMC File No.: 086497 File No.: 086497 File No.: 086497 No. SB-4 Drilling Co.: HCI Supervisor: Kenny Cooper Type Rig: Air/Mud Rotary Logged by: Jake Ferenz
∑ Water First Noted	: Tan to brown, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix TD = 45-Feet	īme: 11:10 am Finish Time: 11:33	BORING DATA	o.: 086497 07/29/2014 g Co.: HCI visor: Kenny Cooper tig: Air/Mud Rotary d by: Jake Ferenz

Samplin		Benzene Toluene	LAE	Project: WLU #4 Lea Cou Client: CEMC
Sampling Interval		Ethyl- benzene Xylenes	LABORATORY TEST DATA	WLU #45 Lea County, NM CEMC
			TEST DATA	
		Total TPH (C6-C35) Chlorides		
Stratification is Info		Photo- lonization Detection Reading (ppm)	FIELD	SOIL BO
40 - Stratification is Inferred And May Not be Exact. Soil Classification Based on Visual-Manual Procedure	X (5) X (5) X (25) X (35)	Sampling (feet) Water Level	D DATA	SOIL BORING LOG
Exact. \(\sum_{=} \) Water First Noted \(\) Analyzed Sample	Caliche: White, weathered, very well cemented, consolidated Caliche: White to tan, consolidated with sandstone fragments in matrix Caliche: Tan to reddish brown, unconsolidated with well cemented, very fine grain sandstone Sand: Tan to reddish brown, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix Sand: Tan to brown, very fine grain, unconsolidated, interbedded with well cemented very fine grain sandstone in matrix TD = 35-Feet	Screen Interval	BORING DATA	File No.: 086499 Date: 07/31/2014 Drilling Co.: HCl Supervisor: Kenny Cooper Type Rig: Air/Mud Rotary Logged by: Jake Ferenz

Soil Assessment and Delineation Activities Report

Appendix D

Soil Laboratory Analytical Report



086499 (1)

Analytical Report 490524

for

Conestoga Rovers & Associates

Project Manager: Jacob Ferenz

WLU #45

086499

11-AUG-14

Collected By: Client





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)





11-AUG-14

Project Manager: Jacob Ferenz Conestoga Rovers & Associates 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No(s): 490524

WLU #45

Project Address: Lea County,NM

Jacob Ferenz:

subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report. Subcontracted analyses are identified in this report with either the NELAC certification number of the this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. referenced above and identified with the XENCO Report Number(s) 490524. All results being reported under We are reporting to you the results of the analyses performed on the samples received under the project name

reported using all other available quality control measures. NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC standards. The uncertainty of measurement associated with the results of analysis reported is Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with

practices, controlled substances under regulated protocols, etc). consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged arranged with you. The samples received, and described as recorded in Report No. 490524 will be filed for least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at The validity and integrity of this report will remain intact as long as it is accompanied by this letter and

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

Nesbecumi.

Kelsey Brooks

Project Manager

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

Certified and approved by numerous States and Agencies.

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

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

Final 1.000



Sample Cross Reference 490524



Conestoga Rovers & Associates, Midland, TX

WLU #45

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
086499-SB-1	S	07-31-14 09:22	- 5 ft	490524-001
086499-SB-1	S	07-31-14 09:24	- 10 ft	490524-002
086499-SB-1	S	07-31-14 09:26	- 15 ft	490524-003
086499-SB-1	S	07-31-14 09:30	- 25 ft	490524-004
086499-SB-1	S	07-31-14 09:34	- 35 ft	490524-005
086499-SB-2	S	07-31-14 09:55	- 5 ft	490524-006
086499-SB-2	S	07-31-14 09:57	- 10 ft	490524-007
086499-SB-2	S	07-31-14 09:59	- 15 ft	490524-008
086499-SB-2	S	07-31-14 10:03	- 25 ft	490524-009
086499-SB-2	S	07-31-14 10:07	- 35 ft	490524-010
086499-SB-3	S	07-31-14 10:30	- 5 ft	490524-011
086499-SB-3	S	07-31-14 10:32	- 10 ft	490524-012
086499-SB-3	S	07-31-14 10:34	- 15 ft	490524-013
086499-SB-3	S	07-31-14 10:38	- 25 ft	490524-014
086499-SB-3	S	07-31-14 10:42	- 35 ft	490524-015
086499-SB-3	S	07-31-14 10:58	- 45 ft	490524-016
086499-SB-4	S	07-31-14 11:11	- 5 ft	490524-017
086499-SB-4	S	07-31-14 11:13	- 10 ft	490524-018
086499-SB-4	S	07-31-14 11:15	- 15 ft	490524-019
086499-SB-4	S	07-31-14 11:19	- 25 ft	490524-020
086499-SB-4	S	07-31-14 11:23	- 35 ft	490524-021
086499-SB-4	S	07-31-14 11:35	- 45 ft	490524-022
086499-SB-5	S	07-31-14 11:44	- 5 ft	490524-023
086499-SB-5	S	07-31-14 11:46	- 10 ft	490524-024
086499-SB-5	S	07-31-14 11:48	- 15 ft	490524-025
086499-SB-5	S	07-31-14 11:52	- 25 ft	490524-026
086499-SB-5	S	07-31-14 11:56	- 35 ft	490524-027



CASE NARRATIVE



Client Name: Conestoga Rovers & Associates

Project Name: WLU #45

Project ID: Work Order Number(s): 086499 490524 Report Date: Date Received: 07/31/2014 II-AUG-14

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Final 1.000

Certificate of Analysis Summary 490524

Conestoga Rovers & Associates, Midland, TX

Project Name: WLU #45

Project Id: 086499

Project Location: Lea County,NM

Contact: Jacob Ferenz

Date Received in Lab: Thu Jul-31-14 04:15 pm

Report Date: 11-AUG-14

Project Manager: Kelsey Brooks

Lab Id:		490524-001		490524-002		490524-003		490524-004		490524-005		490524-006	
Analysis Requested D		086499-SB-1		086499-SB-1		086499-SB-1		086499-SB-1		086499-SB-1		086499-SB-2	
		5 ft		10 ft		15 ft		25 ft		35 ft		5 ft	
Matrix:		SOIL		SOIL		SOIL	,	SOIL	,	SOIL		SOIL	
	Sampled:	Jul-31-14 (9:22	Jul-31-14 0	9:24	Jul-31-14	09:26	Jul-31-14 (09:30	Jul-31-14 (9:34	Jul-31-14	09:55
BTEX by EPA 8021B Extracted:		Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00
	Analyzed:	Aug-07-14	Aug-07-14 12:12		12:29	Aug-07-14	12:45	Aug-07-14	13:01	Aug-07-14	13:18	Aug-07-14	13:34
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00111	ND	0.00108	ND	0.00133	ND	0.00105	ND	0.00109	ND	0.00151
Toluene		ND	0.00223	ND	0.00215	ND	0.00267	ND	0.00210	ND	0.00217	ND	0.00301
Ethylbenzene		ND	0.00111	ND	0.00108	ND	0.00133	ND	0.00105	ND	0.00109		
m,p-Xylenes		ND	0.00223	ND	0.00215	ND	0.00267	ND	0.00210	ND	0.00217	ND 0.00301	
o-Xylene		ND	0.00111	ND	0.00108	ND	0.00133	ND	0.00105	ND	0.00109	ND	0.00151
Total Xylenes	ND	0.00111	ND	0.00108	ND	0.00133	ND	0.00105	ND	0.00109	ND	0.00151	
Total BTEX	ND	0.00111	ND	0.00108	ND	0.00133	ND	0.00105	ND	0.00109	ND	0.00151	
Inorganic Anions by EPA 300/300.1	Extracted:	Aug-04-14	10:00	Aug-04-14 10:00		Aug-04-14	10:00	Aug-04-14	10:00	Aug-04-14	10:00	Aug-04-14 10:00	
	Analyzed:	Aug-04-14	22:38	Aug-04-14	23:01	Aug-04-14 23:24		Aug-04-14 23:46		Aug-05-14 00:09		Aug-05-14 04:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		766	44.6	430	21.7	39.1	2.68	39.9	2.11	10.2	2.19	175	15.2
Percent Moisture	Extracted:												
Analyzed:		Aug-04-14	00:00	Aug-04-14	00:00	Aug-04-14	00:00	Aug-04-14	00:00	Aug-04-14	00:00	Aug-04-14	00:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10.4	1.00	7.73	1.00	25.3	1.00	5.26	1.00	8.77	1.00	34.2	1.00
TPH By SW8015 Mod Extracted:		Aug-05-14 17:00		Aug-05-14 17:00		Aug-05-14 17:00		Aug-05-14 17:00		Aug-05-14 17:00		Aug-05-14 17:00	
	Analyzed:	Aug-06-14 02:22		Aug-06-14 05:19		Aug-06-14 05:43		Aug-06-14 06:07		Aug-06-14 06:31		Aug-06-14 06:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.7	ND	16.2	ND	20.0	ND	15.8	ND	16.4	ND	22.7
C12-C28 Diesel Range Hydrocarbons		ND	16.7	ND	16.2	ND	20.0	ND	15.8	ND	16.4	ND	22.7
C28-C35 Oil Range Hydrocarbons	ND	16.7	ND	16.2	ND	20.0	ND	15.8	ND	16.4	ND	22.7	
Total TPH	ND	16.7	ND	16.2	ND	20.0	ND	15.8	ND	16.4	ND	22.7	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks

Project Manager

Certificate of Analysis Summary 490524

Conestoga Rovers & Associates, Midland, TX

Project Name: WLU #45



Project Id: 086499

Project Location: Lea County,NM

Contact: Jacob Ferenz

Date Received in Lab: Thu Jul-31-14 04:15 pm

Report Date: 11-AUG-14

Project Manager: Kelsey Brooks

Lab Id:		490524-007		490524-008		490524-009		490524-010		490524-011		490524-012	
Analysis Requested Field Id: Depth: Matrix:		086499-SB-2 10 ft SOIL		086499-SB-2 15 ft		086499-S	SB-2	086499-SB-2		086499-SB-3		086499-S	SB-3
						25 ft		35 ft		5 ft		10 ft	
				SOIL		SOIL		SOIL		SOIL	,	SOIL	
	Sampled:	Jul-31-14 (9:57	Jul-31-14 0	9:59	Jul-31-14	10:03	Jul-31-14	10:07	Jul-31-14	10:30	Jul-31-14	10:32
BTEX by EPA 8021B	Extracted:	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00
	Analyzed:	Aug-07-14	13:51	Aug-07-14	14:07	Aug-07-14	14:24	Aug-07-14	14:41	Aug-07-14	16:53	Aug-07-14	17:10
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00106	ND	0.00109	ND	0.00106	ND	0.00106	ND	0.00113	ND	0.00108
Toluene		ND	0.00211	ND	0.00219	ND	0.00211	ND	0.00212	ND	0.00225	ND	0.00216
Ethylbenzene		ND	0.00106	ND	0.00109	ND	0.00106	ND	0.00106	ND	0.00113	ND 0.00108	
m,p-Xylenes		ND	0.00211	ND	0.00219	ND	0.00211	ND	0.00212	ND	0.00225	ND 0.00216	
o-Xylene		ND	0.00106	ND	0.00109	ND	0.00106	ND	0.00106	ND	0.00113	ND	0.00108
Total Xylenes	ND	0.00106	ND	0.00109	ND	0.00106	ND	0.00106	ND	0.00113	ND	0.00108	
Total BTEX	ND	0.00106	ND	0.00109	ND	0.00106	ND	0.00106	ND	0.00113	ND	0.00108	
Inorganic Anions by EPA 300/300.1	Extracted:	Extracted: Aug-04-14 10		Aug-04-14 10:00		Aug-04-14 10:00		Aug-04-14 10:00		Aug-04-14 10:00		Aug-04-14 10:00	
	Analyzed:	Aug-05-14	05:03	Aug-05-14	05:26	Aug-05-14	05:49	Aug-05-14	06:11	Aug-05-14	06:34	Aug-05-14	07:42
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		265	21.2	239	21.9	176	10.6	51.6	2.12	149	22.5	118	21.7
Percent Moisture	Extracted:												
Analyzed:		Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.79	1.00	8.78	1.00	5.64	1.00	5.72	1.00	11.2	1.00	7.86	1.00
TPH By SW8015 Mod Extracted:		Aug-05-14 17:00		Aug-05-14 17:00		Aug-05-14 17:00		Aug-05-14 17:00		Aug-05-14 17:00		Aug-05-14 17:00	
Analyzed:		Aug-06-14 07:42		Aug-06-14 08:06		Aug-06-14 08:29		Aug-06-14 08:53		Aug-06-14 09:18		Aug-06-14 09:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	16.4	ND	15.9	ND	15.9	ND	16.8	ND	16.2
C12-C28 Diesel Range Hydrocarbons		ND	15.9	ND	16.4	ND	15.9	ND	15.9	ND	16.8	ND	16.2
C28-C35 Oil Range Hydrocarbons		ND	15.9	ND	16.4	ND	15.9	ND	15.9	ND	16.8	ND	16.2
Total TPH		ND	15.9	ND	16.4	ND	15.9	ND	15.9	ND	16.8	ND	16.2

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Kelsey Brooks

Project Manager

Certificate of Analysis Summary 490524

Conestoga Rovers & Associates, Midland, TX

Project Name: WLU #45

Project Id: 086499

Project Location: Lea County,NM

Contact: Jacob Ferenz

Date Received in Lab: Thu Jul-31-14 04:15 pm

Report Date: 11-AUG-14

Project Manager: Kelsey Brooks

	Lab Id:	490524-0	013	490524-0	14	490524-0	015	490524-	016	490524-0	017	490524-0	018
Analysis Requested	Field Id:	086499-S	B-3	086499-S	B-3	086499-S	B-3	086499-8	B-3	086499-S	B-4	086499-S	SB-4
Analysis Requesieu	Depth:	15 ft		25 ft		35 ft		45 ft		5 ft		10 ft	
	Matrix:	SOIL	,	SOIL		SOIL	,	SOIL	,	SOIL	,	SOIL	.
	Sampled:	Jul-31-14	10:34	Jul-31-14 1	0:38	Jul-31-14	10:42	Jul-31-14	10:58	Jul-31-14	11:11	Jul-31-14	11:13
BTEX by EPA 8021B	Extracted:	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00	Aug-07-14	08:00
	Analyzed:	Aug-07-14	17:26	Aug-07-14	17:43	Aug-07-14	17:59	Aug-07-14	18:16	Aug-07-14	18:32	Aug-07-14	18:51
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00106	ND	0.00107	ND	0.00106	ND	0.00105	ND	0.00108	ND	0.00104
Toluene		ND	0.00212	ND	0.00213	ND	0.00211	ND	0.00210	ND	0.00216	ND	0.00209
Ethylbenzene		ND	0.00106	ND	0.00107	ND	0.00106	ND	0.00105	ND	0.00108	ND	0.00104
m,p-Xylenes		ND	0.00212	ND	0.00213	ND	0.00211	ND	0.00210	ND	0.00216	ND	0.00209
o-Xylene		ND	0.00106	ND	0.00107	ND	0.00106	ND	0.00105	ND	0.00108	ND	0.00104
Total Xylenes		ND	0.00106	ND	0.00107	ND	0.00106	ND	0.00105	ND	0.00108	ND	0.00104
Total BTEX		ND	0.00106	ND	0.00107	ND	0.00106	ND	0.00105	ND	0.00108	ND	0.00104
Inorganic Anions by EPA 300/300.1	Extracted:	Aug-04-14	10:00	Aug-04-14	10:00	Aug-04-14	10:00	Aug-04-14	10:00	Aug-04-14	10:00	Aug-04-14	10:00
	Analyzed:	Aug-05-14	08:04	Aug-05-14	08:27	Aug-05-14	08:50	Aug-05-14	09:12	Aug-05-14	09:58	Aug-05-14	10:20
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		137	21.3	340	42.8	897	107	1600	212	1010	108	528	42.0
Percent Moisture	Extracted:												
	Analyzed:	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.22	1.00	6.45	1.00	6.12	1.00	5.52	1.00	7.76	1.00	4.69	1.00
TPH By SW8015 Mod	Extracted:	Aug-05-14	17:00	Aug-05-14	17:00	Aug-05-14	17:00	Aug-05-14	17:00	Aug-08-14	18:00	Aug-08-14	18:00
	Analyzed:	Aug-06-14	10:06	Aug-06-14	10:32	Aug-06-14	10:58	Aug-06-14	11:23	Aug-08-14	22:10	Aug-08-14	22:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	16.0	ND	16.0	ND	15.8	ND	16.2	ND	15.7
C12-C28 Diesel Range Hydrocarbons		ND	15.9	ND	16.0	ND	16.0	ND	15.8	ND	16.2	ND	15.7
C28-C35 Oil Range Hydrocarbons		ND	15.9	ND	16.0	ND	16.0	ND	15.8	ND	16.2	ND	15.7
Total TPH		ND	15.9	ND	16.0	ND	16.0	ND	15.8	ND	16.2	ND	15.7

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Kelsey Brooks

Certificate of Analysis Summary 490524

Conestoga Rovers & Associates, Midland, TX

Project Name: WLU #45



Project Id: 086499

Project Location: Lea County,NM

Contact: Jacob Ferenz

Date Received in Lab: Thu Jul-31-14 04:15 pm

Report Date: 11-AUG-14

Project Manager: Kelsey Brooks

	Lab Id:	490524-0)19	490524-0	20	490524-	021	490524-	022	490524-0	023	490524-0	024
Analysis Requested	Field Id:	086499-S	B-4	086499-S	B-4	086499-8	B-4	086499-8	B-4	086499-S	B-5	086499-S	B-5
Analysis Requesieu	Depth:	15 ft		25 ft		35 ft		45 ft		5 ft		10 ft	
	Matrix:	SOIL		SOIL		SOIL	,	SOIL	,	SOIL	,	SOIL	,
	Sampled:	Jul-31-14	11:15	Jul-31-14 1	1:19	Jul-31-14	11:23	Jul-31-14	11:35	Jul-31-14	11:44	Jul-31-14	11:46
BTEX by EPA 8021B	Extracted:	Aug-07-14	08:00	Aug-07-14	15:00	Aug-07-14	15:00	Aug-07-14	15:00	Aug-07-14	15:00	Aug-07-14	15:00
	Analyzed:	Aug-07-14	19:07	Aug-07-14	19:24	Aug-07-14	22:09	Aug-07-14	22:25	Aug-07-14	22:42	Aug-07-14	22:58
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00107	ND	0.00107	ND	0.00105	ND	0.00106	ND	0.00110	ND	0.00105
Toluene		ND	0.00215	ND	0.00213	ND	0.00210	ND	0.00211	ND	0.00220	ND	0.00211
Ethylbenzene		ND	0.00107	ND	0.00107	ND	0.00105	ND	0.00106	ND	0.00110	ND	0.00105
m,p-Xylenes		ND	0.00215	ND	0.00213	ND	0.00210	ND	0.00211	ND	0.00220	ND	0.00211
o-Xylene		ND	0.00107	ND	0.00107	ND	0.00105	ND	0.00106	ND	0.00110	ND	0.00105
Total Xylenes		ND	0.00107	ND	0.00107	ND	0.00105	ND	0.00106	ND	0.00110	ND	0.00105
Total BTEX		ND	0.00107	ND	0.00107	ND	0.00105	ND	0.00106	ND	0.00110	ND	0.00105
Inorganic Anions by EPA 300/300.1	Extracted:	Aug-04-14	10:00	Aug-04-14	10:00	Aug-04-14	10:00	Aug-04-14	10:00	Aug-04-14	10:00	Aug-04-14	10:00
	Analyzed:	Aug-05-14	10:43	Aug-05-14	11:06	Aug-05-14	12:26	Aug-05-14	12:48	Aug-05-14	13:11	Aug-05-14	13:34
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		612	43.0	579	42.8	903	105	1250	106	64.5	11.1	25.3	2.13
Percent Moisture	Extracted:												
	Analyzed:	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00	Aug-07-14	00:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		7.07	1.00	6.47	1.00	5.18	1.00	5.64	1.00	9.61	1.00	5.95	1.00
TPH By SW8015 Mod	Extracted:	Aug-08-14	18:00	Aug-08-14	18:00	Aug-08-14	18:00	Aug-08-14	18:00	Aug-08-14	18:00	Aug-08-14	18:00
	Analyzed:	Aug-08-14	23:01	Aug-08-14	23:25	Aug-08-14	23:49	Aug-09-14	00:13	Aug-09-14	00:37	Aug-09-14	01:04
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons	·	ND	16.1	ND	16.0	ND	15.8	ND	15.9	ND	16.6	ND	15.9
C12-C28 Diesel Range Hydrocarbons		ND	16.1	ND	16.0	ND	15.8	ND	15.9	ND	16.6	ND	15.9
C28-C35 Oil Range Hydrocarbons		ND	16.1	ND	16.0	ND	15.8	ND	15.9	ND	16.6	ND	15.9
Total TPH		ND	16.1	ND	16.0	ND	15.8	ND	15.9	ND	16.6	ND	15.9

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Kelsey Brooks Project Manager

Project Id: 086499

Project Location: Lea County, NM

Contact: Jacob Ferenz

Certificate of Analysis Summary 490524

Conestoga Rovers & Associates, Midland, TX

Project Name: WLU #45

Date Received in Lab: Thu Jul-31-14 04:15 pm

Report Date: 11-AUG-14

Project Manager: Kelsey Brooks

							Troject Manager.	Reisey Diooks	
Lab Id:	490524-0)25	490524-0	26	490524-0)27			
Field Id:	086499-S	B-5	086499-SI	B-5	086499-S	B-5			
Depth:	15 ft		25 ft		35 ft				
Matrix:	SOIL		SOIL		SOIL				
Sampled:	Jul-31-14 1	1:48	Jul-31-14 1	1:52	Jul-31-14 1	11:56			
Extracted:	Aug-07-14	15:00	Aug-07-14 1	15:00	Aug-07-14	15:00			
Analyzed:	Aug-07-14	23:15	Aug-07-14 2	23:31	Aug-07-14	23:48			
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
	ND	0.00106	ND	0.00106	ND	0.00105			
	ND	0.00212	ND	0.00211	ND	0.00210			
	ND	0.00106			ND	0.00105			
	ND	0.00212	ND	0.00211	ND	0.00210			
	ND	0.00106	ND	0.00106	ND	0.00105			
	ND	0.00106			ND	0.00105			
	ND	0.00106	ND	0.00106	ND	0.00105			
Extracted:	Aug-04-14	10:00	Aug-05-14 1	15:00	Aug-05-14	15:00			
Analyzed:	Aug-05-14	13:56	Aug-06-14 1	14:33	Aug-06-14	14:56			
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
	14.6	2.13	9.29	2.11	5.69	2.11			
Extracted:									
Analyzed:	Aug-07-14	00:00	Aug-07-14 (00:00	Aug-05-14	15:00			
Units/RL:	%	RL	%	RL	%	RL			
	6.09	1.00	5.23	1.00	5.14	1.00			
Extracted:	Aug-08-14	18:00	Aug-08-14 1	18:00	Aug-08-14	18:00			
Analyzed:	Aug-09-14	01:29	Aug-09-14 ()1:53	Aug-09-14	02:41			
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
	ND		ND		ND				
	ND	16.0	ND		ND				
	ND	16.0	ND		ND				
	ND	16.0	ND	15.8	ND	15.8			
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed: Analyzed:	Field Id: 086499-S Depth: 15 ft Matrix: SOIL Sampled: Jul-31-14 1 Extracted: Aug-07-14 Analyzed: Mug-07-14 Units/RL: mg/kg ND ND ND ND ND ND ND ND Extracted: Aug-04-14 Analyzed: Aug-05-14 Units/RL: % Extracted: Aug-07-14 Units/RL: % Extracted: Aug-07-14 Units/RL: mg/kg ND ND ND ND	Field Id: 086499-SB-5 Depth: 15 ft Matrix: SOIL Sampled: Jul-31-14 11:48 Extracted: Aug-07-14 15:00 Analyzed: Aug-07-14 23:15 Units/RL: mg/kg RL ND 0.00106 ND 0.00212 ND 0.00106 ND 0.00106 ND 0.00106 ND 0.00106 Extracted: Aug-04-14 10:00 Analyzed: Aug-05-14 13:56 Units/RL: mg/kg RL 4.6 2.13 Extracted: Aug-07-14 00:00 Units/RL: % RL 6.09 1.00 Extracted: Aug-08-14 18:00 Analyzed: Aug-09-14 01:29 Units/RL: mg/kg RL ND 16.0 ND 16.0 ND 16.0	Field Id: 086499-SB-5 086499-SI Depth: 15 ft 25 ft Matrix: SOIL SOIL Sampled: Jul-31-14 11:48 Jul-31-14 1 Extracted: Aug-07-14 15:00 Aug-07-14 1 Analyzed: Aug-07-14 23:15 Aug-07-14 2 Units/RL: mg/kg RL mg/kg ND 0.00106 ND ND 0.00212 ND ND 0.00106 ND Extracted: Aug-04-14 10:00 Aug-05-14 1 Analyzed: Aug-05-14 13:56 Aug-06-14 1 Units/RL: mg/kg RL % Extracted: Aug-07-14 00:00 Aug-07-14 0 Aug-07-14 0 Units/RL: mg/kg RL mg/kg <th>Field Id: 086499-SB-5 086499-SB-5 Depth: 15 ft 25 ft Matrix: SOIL SOIL Sampled: Jul-31-14 11:48 Jul-31-14 11:52 Extracted: Aug-07-14 15:00 Aug-07-14 23:31 Analyzed: Aug-07-14 23:15 Aug-07-14 23:31 Units/RL: mg/kg RL mg/kg RL ND 0.00106 ND 0.00106 ND 0.00212 ND 0.00211 ND 0.00106 ND 0.00106 ND 0.00106 ND 0.00106<th>Field Id: 086499-SB-5 35 ft 35 ft 35 ft SOIL Aug-07-14 31 ft Aug-07-14 Aug-07-14 Aug-07-14 Mug-07-14 Aug-07-14 Mug-07-14 Aug-07-14 Mug-07-14 Mug-0</th><th>Field Id: 086499-SB-5 086499-SB-5 086499-SB-5 086499-SB-5 086499-SB-5 Depth: 15 ft 25 ft 35 ft SOIL SOIL SOIL SOIL Sampled: Jul-31-14 11:48 Jul-31-14 11:52 Jul-31-14 11:56 Jul-31-14 11:56 Extracted: Aug-07-14 15:00 Aug-07-14 23:31 Aug-07-14 23:48 Mug-07-14 23:48 Units/RL: mg/kg RL mg/kg RL mg/kg RL ND 0.00106 ND 0.00106 ND 0.00105 ND 0.00212 ND 0.00211 ND 0.00210 ND 0.00106 ND 0.00106 ND 0.00105 ND 0.</th><th> Lab Id:</th><th> Field Id:</th></th>	Field Id: 086499-SB-5 086499-SB-5 Depth: 15 ft 25 ft Matrix: SOIL SOIL Sampled: Jul-31-14 11:48 Jul-31-14 11:52 Extracted: Aug-07-14 15:00 Aug-07-14 23:31 Analyzed: Aug-07-14 23:15 Aug-07-14 23:31 Units/RL: mg/kg RL mg/kg RL ND 0.00106 ND 0.00106 ND 0.00212 ND 0.00211 ND 0.00106 ND 0.00106 ND 0.00106 ND 0.00106 <th>Field Id: 086499-SB-5 35 ft 35 ft 35 ft SOIL Aug-07-14 31 ft Aug-07-14 Aug-07-14 Aug-07-14 Mug-07-14 Aug-07-14 Mug-07-14 Aug-07-14 Mug-07-14 Mug-0</th> <th>Field Id: 086499-SB-5 086499-SB-5 086499-SB-5 086499-SB-5 086499-SB-5 Depth: 15 ft 25 ft 35 ft SOIL SOIL SOIL SOIL Sampled: Jul-31-14 11:48 Jul-31-14 11:52 Jul-31-14 11:56 Jul-31-14 11:56 Extracted: Aug-07-14 15:00 Aug-07-14 23:31 Aug-07-14 23:48 Mug-07-14 23:48 Units/RL: mg/kg RL mg/kg RL mg/kg RL ND 0.00106 ND 0.00106 ND 0.00105 ND 0.00212 ND 0.00211 ND 0.00210 ND 0.00106 ND 0.00106 ND 0.00105 ND 0.</th> <th> Lab Id:</th> <th> Field Id:</th>	Field Id: 086499-SB-5 35 ft 35 ft 35 ft SOIL Aug-07-14 31 ft Aug-07-14 Aug-07-14 Aug-07-14 Mug-07-14 Aug-07-14 Mug-07-14 Aug-07-14 Mug-07-14 Mug-0	Field Id: 086499-SB-5 086499-SB-5 086499-SB-5 086499-SB-5 086499-SB-5 Depth: 15 ft 25 ft 35 ft SOIL SOIL SOIL SOIL Sampled: Jul-31-14 11:48 Jul-31-14 11:52 Jul-31-14 11:56 Jul-31-14 11:56 Extracted: Aug-07-14 15:00 Aug-07-14 23:31 Aug-07-14 23:48 Mug-07-14 23:48 Units/RL: mg/kg RL mg/kg RL mg/kg RL ND 0.00106 ND 0.00106 ND 0.00105 ND 0.00212 ND 0.00211 ND 0.00210 ND 0.00106 ND 0.00106 ND 0.00105 ND 0.	Lab Id:	Field Id:

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Flagging Criteria



In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough

×

- \mathbb{B} A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- Ξ The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated
- F RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- numerical value may not be consistent with the amount actually present in the environmental sample A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit

RL Reporting Limit

MDL Method Detection Limit SDL Sample I

SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Q

MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Project Name: WLU #45

Work Orders: 490524, Lab Batch #: 947444

Sample: 490524-001 / SMP

Batch: Project ID: 086499 Matrix: Soil

Units: o-Terphenyl 1-Chlorooctane mg/kg TPH By SW8015 Mod **Analytes** Date Analyzed: 08/06/14 02:22 Amount Found [A] 97.0 48.4 SURROGATE RECOVERY STUDY Amount [B] True 49.9 99.8 Recovery %R 97 97 \Box 70-135 Control Limits %R 70-135 Flags

Lab Batch #: 947444 Sample: 490524-002 / SMP Batch: Matrix: Soil

Units: mg/kg	Date Analyzed: 08/06/14 05:19	SUI	SURROGATE RECOVERY STUDY	COVERY S	TUDY	
TPH	TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		105	99.9	105	70-135	
o-Terphenyl		53.1	50.0	106	70-135	
Lab Batch #: 947444	Sample: 490524-003 / SMP	Batch	Batch: 1 Matrix: Soil	Soil		

Units: 1-Chlorooctane mg/kg TPH By SW8015 Mod Analytes Date Analyzed: 08/06/14 05:43 Amount Found 107 ≥ SURROGATE RECOVERY STUDY Amount [B] True 99.6 Recovery %R 107 \equiv 70-135 Control Limits %R Flags

Units: Lab Batch #: 947444 o-Terphenyl Date Analyzed: 08/06/14 06:07 **Sample:** 490524-004 / SMP 54.0 Batch: 49.8 Matrix: Soil 108 70-135

Units:	mg/kg	Date Analyzed: 08/06/14 06:07	SUI	SURROGATE RECOVERY STUDY	COVERY S	TUDY	
	ТРН Ву	TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	A	Analytes			[D]		
1-Chlorooctane			101	99.6	101	70-135	
o-Terphenyl			49.7	49.8	100	70-135	
Lab Batch #: 947444	947444	Sample: 490524-005 / SMP	Batch	Batch: 1 Matrix: Soil	Soil		

Units: mg/kg Date Analyzed	Date Analyzed: 08/06/14 06:31	SUI	SURROGATE RECOVERY STUDY	COVERY	TUDY	
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		101	99.7	101	70-135	
o-Terphenyl		51.4	49.9	103	70-135	

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Project Name: WLU #45

Work Orders: 490524, Lab Batch #: 947444

Sample: 490524-006 / SMP

Batch: Project ID: 086499 Matrix: Soil

Units: 1-Chlorooctane mg/kg TPH By SW8015 Mod **Analytes** Date Analyzed: 08/06/14 06:54 Amount Found [A] 101 SURROGATE RECOVERY STUDY Amount [B] 99.7 True Recovery %R 101 $\overline{\exists}$ 70-135 Control Limits %R Flags

Lab Batch #: 947444 o-Terphenyl Sample: 490524-007 / SMP Batch: Matrix: Soil 103

51.4

49.9

70-135

Units: o-Terphenyl 1-Chlorooctane mg/kg TPH By SW8015 Mod Analytes Date Analyzed: 08/06/14 07:42 Found [A] Amount 45.4 92.5 SURROGATE True Amount [B] 99.7 49.9 RECOVERY STUDY Recovery %R [D] 91 93 70-135 70-135 Control Limits %R Flags

Lab Batch #: 947444 Sample: 490524-008 / SMP Batch: _ Matrix: Soil

Units: mg/kg	Date Analyzed: 08/06/14 08:06	SU	SURROGATE RECOVERY STUDY	ECOVERY S	YUUT	
ТРН І	TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		95.2	8.66	95	70-135	
o-Terphenyl		48.0	49.9	96	70-135	
Lab Batch #: 947444	Sample: 490524-009 / SMP	Batch:	i: 1 Matrix: Soil	Soil		

1-Chlorooctane TPH By SW8015 Mod Analytes Amount Found 95.8 ≥ Amount [B] True 100 Recovery %R Ξ 96 Control Limits %R 70-135 Flags

Units:

mg/kg

Date Analyzed: 08/06/14 08:29

SURROGATE RECOVERY STUDY

Lab Batch #: 947444 o-Terphenyl Sample: 490524-010 / SMP 08/06/14 08:53 Batch: Matrix: Soil

47.6

50.0

95

70-135

Units: mg/kg	Date Analyzed: 08/06/14 08:53	SU	SURROGATE RECOVERY STUDY	ECOVERY	STUDY	
ТРН І	TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		95.1	99.9	95	70-135	
o-Terphenyl		46.9	50.0	94	70-135	

Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Project Name: WLU #45

Work Orders: 490524, Lab Batch #: 947444

Sample: 490524-011 / SMP

Project ID: 086499

Batch: Matrix: Soil

Units: mg/kg	Date Analyzed: 08/06/14 09:18	SU	SURROGATE RECOVERY STI	ECOVERY S	TUDY	
ТРН	TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		97.9	99.7	98	70-135	
o-Terphenyl		49.3	49.9	99	70-135	
Lab Batch #: 947444	Sample: 490524-012 / SMP	Batcl	Batch: 1 Matrix: Soil	Soil		

Units:	mg/kg	Date Analyzed: 08/06/14 09:41	SU	SURROGATE RECOVERY STUDY	COVERY S	TUDY	
	ТРН В	TPH By SW8015 Mod	Amount Found	True Amount	Recovery	Control Limits	Flags
		Analytes	[A]	[B]	%R [D]	%R	
1-Chlorooctane	ne		95.7	99.8	96	70-135	
o-Terphenyl			47.7	49.9	96	70-135	

Lab Batch #: 947444 Sample: 490524-013 / SMP Batch: _ Matrix: Soil

Units: mg/kg	Date Analyzed: 08/06/14 10:06	SU	SURROGATE RECOVERY STUDY	ECOVERY	STUDY	
TP	TPH By SW8015 Mod	Amount Found	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		113	99.7	113	70-135	
o-Terphenyl		56.1	49.9	112	70-135	
Lab Batch #: 947444	Sample: 490524-014 / SMP	Batcl	Batch: 1 Matrix: Soil	Soil		

Units: mg/kg	Date Analyzed: 08/06/14 10:32	SUI	SURROGATE RECOVERY STUDY	ECOVERY S	STUDY	
T	TPH By SW8015 Mod	Amount Found	True Amount	Recovery	Control Limits	Flags
	Analytes	Σ	[5]	[D]	% K	
1-Chlorooctane		95.7	99.9	96	70-135	
o-Terphenyl		47.5	50.0	95	70-135	
Lah Ratch #: 947444	\$amnle: 490524-015 / SMP	Ratch:	· 1 Matrix: Soil	Soil		

	Date Analyzed: 08/06/14 10:58	Units: mo/ko
Batch: 1 Matrix: Soil	Sample: 490524-015 / SMP	Lab Batch #: 947444

Units: mg/kg	Date Analyzea: 08/00/14 10:38	S	SURROGATE RECOVERY STUDY	ECOVERY	STUDY	
TPH By S	TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
An	alytes			[D]		
1-Chlorooctane		95.2	99.9	95	70-135	
o-Terphenyl		47.5	50.0	95	70-135	

*** Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A/B All results are based on MDL and validated for QC purposes.

^{*} Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

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Project Name: WLU #45

Work Orders: 490524, Lab Batch #: 947444

Sample: 490524-016 / SMP

Batch: Project ID: 086499

d: 08/06/14 11:23

Matrix: Soil

Units: mg	mg/kg L	Date Analyzed: 08/06/14 11:23	SU	SURROGATE RECOVERY ST	ECOVERY S	TUDY	
	TPH By SV	TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Ana	Analytes			[D]		
1-Chlorooctane			97.6	99.6	98	70-135	
o-Terphenyl			48.2	49.8	97	70-135	
Lab Batch #: 947582	7582	Sample: 490524-001 / SMP		Batch: 1 Matrix: Soil	Soil		

Units: mø/kø Date Analyzed: 08/07/14 12:12

Units: mg/kg Date Analyzed: 08/07/14 12:12	SO	SURROGATE RECOVERY STU	SCOVERY	YUUT	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Hags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	
Lab Batch #: 947582 Sample: 490524-002 / SMP	Batch	Batch: 1 Matrix: Soil	Soil		

Sample: 490524-002 / SMP Batch: _ Matrix: Soil

Units: 4-Bromofluorobenzene 1,4-Difluorobenzene mg/kg BTEX by EPA 8021B Analytes Date Analyzed: 08/07/14 12:29 0.0288Amount Found 0.0288 ≥ SURROGATE RECOVERY STUDY Amount [B] 0.03000.0300True Recovery %R \equiv 96 96 80-120 Control Limits %R 80-120 Flags

Units: Lab Batch #: 947582 Date Analyzed: 08/07/14 12:45 **Sample:** 490524-003 / SMP Batch: Matrix: Soil

Units: mg/kg	Date Analyzed: 08/07/14 12:45	SUI	SURROGATE RECOVERY STUDY	ECOVERY S	YUUTS	
ВТ	BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0287	0.0300	96	80-120	
4-Bromofluorobenzene		0.0290	0.0300	97	80-120	
Lab Batch #: 947582	Sample: 490524-004 / SMP	Batch:	: 1 Matrix: Soil	Soil		

Units:	mg/kg	Date Analyzed: 08/07/14 13:01	SUI	SURROGATE RECOVERY STUDY	COVERY S	TUDY	
	BTEX	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	A	Analytes			[D]		
1,4-Difluorobenzene	ene		0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	nzene		0.0289	0.0300	96	80-120	

^{*} Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Project Name: WLU #45

Lab Batch #: 947582 Work Orders: 490524,

Sample: 490524-005 / SMP

Batch: Project ID: 086499 Matrix: Soil

Units: mg/kg Date Analyzed: 08/07/14 13:18

Units: mg/kg	Date Analyzed: 08/07/14 13:18	SU	SURROGATE RECOVERY STUDY	COVERY S	TUDY	
ВТЕ	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0284	0.0300	95	80-120	
4-Bromofluorobenzene		0.0276	0.0300	92	80-120	

Lab Batch #: 947582 Sample: 490524-006 / SMP Batch: _ Matrix: Soil

Units: 4-Bromofluorobenzene 1,4-Difluorobenzene mg/kg BTEX by EPA 8021B Analytes Date Analyzed: 08/07/14 13:34 0.0291 0.0293Amount Found [A] SURROGATE True Amount [B] 0.0300 0.0300RECOVERY STUDY Recovery %R [D] 98 97 80-120 80-120 Control Limits %R Flags

 \Box Lab Batch #: 947582 Sample: 490524-007 / SMP Batch: Matrix: Soil

Units: mg/kg	Date Analyzed: 08/07/14 13:51	SU	SURROGATE RECOVERY STUDY	ECOVERY S	STUDY	
ВТЕХ	BTEX by EPA 8021B	Amount Found	True Amount B	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0291	0.0300	97	80-120	
4-Bromofluorobenzene		0.0287	0.0300	96	80-120	
Lab Batch #: 947582	Sample: 490524-008 / SMP	Batcl	Batch: 1 Matrix: Soil	Soil		

Units: mg/kg Date Analyzed: 08/07/14 14:07 SURROGATE RECOVERY STUDY

	,					
BTEX by EPA 8021B Analytes	PA 8021B tes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0286	0.0300	95	80-120	
4-Bromofluorobenzene		0.0284	0.0300	95	80-120	
Lab Batch #: 947582	Sample: 490524-009 / SMP	Batch:	1 Matrix: Soil	Soil		

Units: mg/kg	Pate Analyzed: 08/07/14 14:24	SUI	SURROGATE RECOVERY STUDY	COVERY S	TUDY	
	BTEX by EPA 8021B	Amount Found	True Amount	Recovery	Control Limits	Flags
	Analytes	2	3	[D]	XII	
1,4-Difluorobenzene		0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	ne	0.0280	0.0300	93	80-120	

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Project Name: WLU #45

Lab Batch #: 947582 Work Orders: 490524

Sample: 490524-010 / SMP

Batch: Project ID: 086499 Matrix: Soil

mg/kg Date Analyzed: 08/07/14 14:41

4-Bromofluorobenzene 1,4-Difluorobenzene BTEX by EPA 8021B **Analytes** 0.02860.0287 Amount Found [A] SURROGATE RECOVERY STUDY Amount [B] 0.03000.0300True Recovery %R \Box 95 96 80-120 Control Limits %R 80-120 Flags

Lab Batch #: 947582 Sample: 490524-011 / SMP Batch: Matrix: Soil

Units: mg/kg BTEX by EPA 8021B Date Analyzed: 08/07/14 16:53 Amount SURROGATE True RECOVERY STUDY Control

Lab Batch #: 947582 4-Bromofluorobenzene 1,4-Difluorobenzene Analytes Sample: 490524-012 / SMP 0.0284 0.0286Found [A] Batch: Amount [B] 0.0300 0.0300Matrix: Soil Recovery %R [D] 95 95 80-120 80-120 Limits %R Flags

4-Bromofluorobenzene 1,4-Difluorobenzene mg/kg BTEX by EPA 8021B Analytes Date Analyzed: 08/07/14 17:10 0.0279 Amount 0.0284Found ≥ SURROGATE RECOVERY STUDY Amount [B] 0.0300 0.0300True Recovery %R \equiv 95 93 Control Limits %R 80-120 80-120 Flags

Units: Lab Batch #: 947582 **Sample:** 490524-013 / SMP Batch: Matrix: Soil

mg/kg Date Analyzed: 08/07/14 17:26 SURROGATE RECOVERY STUDY

4-Bromofluorobenzene	1,4-Difluorobenzene		
rene	e	Analytes	BTEX by EPA 8021B
0.0288	0.0291	[A]	Amount Found
0.0300	0.0300	[<u>B</u>	True Amount
96	97	%K [D]	Recovery
80-120	80-120	%R	Control Limits
			Flags

Lab Batch #: 947582 **Sample:** 490524-014 / SMP Batch: Matrix: Soil

Units: mg/kg	Date Analyzed: 08/07/14 17:43	SU	SURROGATE RECOVERY STUDY	ECOVERY S	TUDY	
ВТЕХ	BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0287	0.0300	96	80-120	
4-Bromofluorobenzene		0.0285	0.0300	95	80-120	

Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Project Name: WLU #45

Work Orders: 490524, Lab Batch #: 947582

Sample: 490524-015 / SMP

Project ID: 086499

Batch: Matrix: Soil

Units: mg/kg Date Analyzed: 08/07/14 17:59	SUI	SURROGATE RECOVERY ST	ECOVERY S	TUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	
Lab Batch #: 947582 Sample: 490524-016 / SMP		Batch: 1 Matrix: Soil	Soil	_	

≓• J 08/07/14 18:16

Units: mg/kg	/kg Date Analyzed: 08/0//14 18:16	/07/14 18:16	SUI	SURROGATE RECOVERY STUDY	COVERY S	TUDY	
	BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	le		0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	zene		0.0282	0.0300	94	80-120	
I ak Datak #. 0/7500		Samula: 100521 017 / SMD	Datak	Dataha 1 Mataina Cail	S all		

Lab Batch #: 947582 **Sample:** 490524-017 / SMP Batch: _ Matrix: Soil

Units: mg/kg	Date Analyzed: 08/07/14 18:32	SU	SURROGATE RECOVERY STUDY	COVERYS	TUDY	
ВТЕХ	BTEX by EPA 8021B	Amount Found	True Amount	Recovery	Control Limits	Flags
	Analytes	A	[B]	%R [D]	%R	
1,4-Difluorobenzene		0.0291	0.0300	97	80-120	
4-Bromofluorobenzene		0.0290	0.0300	97	80-120	

Units Lab Batch #: 947582 Sample: 490524-018 / SMP Batch: Matrix: Soil

S
mg/kg
Date Analyzed: 08/07/14 18:51
SURROGATE RE
TE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1,4-Difluorobenzene	0	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0	0.0287	0.0300	96	80-120	
Lah Batch #: 947582 Sample: 490	Sample: 490524-019 / SMP	Ratch:	1 Matrix: Soil	Soil		

Units: mg/kg	Date Analyzed: 08/07/14 19:07	SU	SURROGATE RECOVERY STUDY	ECOVERY S	TUDY	
ВТЕ	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0290	0.0300	97	80-120	
4-Bromofluorobenzene		0.0285	0.0300	95	80-120	

^{*} Surrogate outside of Laboratory QC limits

*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

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Project Name: WLU #45

Lab Batch #: 947828 Work Orders: 490524,

Project ID: 086499

Date Analyzed: 08/07/14 19:24

Sample: 490524-020 / SMP Batch: Matrix: Soil

omes.	Pate Allalyzed. 98/0//14 19:24	SOR	SURROGATE RECOVERY ST	SCOVERY	YUUT	
ВТЕХ	BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0289	0.0300	96	80-120	
4-Bromofluorobenzene		0.0289	0.0300	96	80-120	
Lab Batch #: 947828	Sample: 490524-021 / SMP	Batch:	1 Matrix: Soil	Soil		

Units: mg/kg	Date Analyzed: 08/07/14 22:09	SU	SURROGATE RECOVERY STUDY	ECOVERY S	TUDY	
	BTEX by EPA 8021B	Amount Found	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	A	<u> </u>	[D]	701	
1,4-Difluorobenzene		0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	ح ح	0.0287	0.0300	96	80-120	

Lab Batch #: 947828 J Sample: 490524-022 / SMP Batch: _ Matrix: Soil

Units: mg/kg	Date Analyzed: 08/0//14 22:25	SU	SURROGATE RECOVERY STUDY	ECOVERY S	TUDY	
В	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0290	0.0300	97	80-120	
4-Bromofluorobenzene		0.0287	0.0300	96	80-120	
Lab Batch #: 947828	Sample: 490524-023 / SMP	Batch:	ı: 1 Matrix: Soil	Soil		

Units: mg/kg Date Analyzed: 08/07/14 22:42 SURROGATE RECOVERY STUDY

1,4-Difluorobenzene	Analytes	BTEX by EPA 8021B	
0.0285		Amount Found [A]	
0.0300		True Amount [B]	
95	[D]	Recovery %R	
80-120		Control Limits %R	
		Flags	

Lab Batch #: 947828 Sample: 490524-024 / SMP Batch: Matrix: Soil

0.0283

0.0300

94

80-120

4-Bromofluorobenzene

Units: mg/kg	Date Analyzed: 08/07/14 22:58	SU	SURROGATE RECOVERY STUDY	ECOVERY S	TUDY	
В	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	,	,	[D]		
1,4-Difluorobenzene		0.0290	0.0300	97	80-120	
4-Bromofluorobenzene		0.0281	0.0300	94	80-120	

^{*} Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Project Name: WLU #45

Work Orders: 490524, Lab Batch #: 947828

Sample: 490524-025 / SMP

Project ID: 086499

Date Analyzed: 08/07/14 23:15

Batch: Matrix: Soil

Units: mg/kg	Date Analyzed: 08/07/14 23:15	SUI	SURROGATE RECOVERY ST	COVERY S	TUDY	
Н	BTEX by EPA 8021B	Amount Found	True Amount	Recovery	Control Limits	Flags
	Analytes	3]	[D]	,	
1,4-Difluorobenzene		0.0293	0.0300	98	80-120	
4-Bromofluorobenzene		0.0283	0.0300	94	80-120	
Lab Batch #: 947828	8 Sample: 490524-026 / SMP	Batch	Batch: 1 Matrix: Soil	Soil		

Units: mg/kg	Date Analyzed: 08/07/14 23:31	SU	SURROGATE RECOVERY STUDY	ECOVERY S	TUDY	
ВТЕХ	BTEX by EPA 8021B	Amount Found	True Amount [B]	Recovery %R	Control Limits	Flags
	Analytes	<u>π</u>	3	[D]) And	
1,4-Difluorobenzene		0.0294	0.0300	98	80-120	
4-Bromofluorobenzene		0.0289	0.0300	96	80-120	

Lab Batch #: 947828 Sample: 490524-027 / SMP Batch: $\stackrel{}{\vdash}$ Matrix: Soil

Units: mg/kg	Date Analyzed: 08/07/14 23:48	SU	SURROGATE RECOVERY ST	ECOVERY	STUDY	
вте	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	,	,	[D]		
1,4-Difluorobenzene		0.0283	0.0300	94	80-120	
4-Bromofluorobenzene		0.0281	0.0300	94	80-120	
Lab Batch #: 947831	Sample: 490524-017 / SMP	Batch:	h: 1 Matrix: Soil	Soil		

Units: mg/kg Date Analyzed: 08/08/14 22:10 SURROGATE RECOVERY STUDY

	•	Č	COMMO CAME AND COMMON TO COMMON COMPROS COMPROS COMMON COMPROS COMMON COMPROR COMPROS COMPROS COMPROS COMPR			
ТРН В	TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		85.5	99.8	86	70-135	
o-Terphenyl		46.8	49.9	94	70-135	
Lab Batch #: 947831	Sample: 490524-018 / SMP	Batch:	h: 1 Matrix: Soil	Soil		

d: 08/08/14 22:36

Units: mg/kg Date Analyzed: 08/08/14 22:30		SURROGATE RECOVERY STUDY	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	87.1	99.8	87	70-135	
o-Terphenyl	45.2	49.9	91	70-135	

*** Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A/B All results are based on MDL and validated for QC purposes.

^{*} Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

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Project Name: WLU #45

Work Orders: 490524, Lab Batch #: 947831

Sample: 490524-019 / SMP

Batch: Project ID: 086499 Matrix: Soil

Units: o-Terphenyl 1-Chlorooctane mg/kg TPH By SW8015 Mod **Analytes Date Analyzed:** 08/08/14 23:01 Amount Found [A] 82.1 42.9 SURROGATE RECOVERY STUDY Amount [B] 50.0 True 100 Recovery %R \Box 82 86 70-135 Control Limits %R 70-135 Flags

Lab Batch #: 947831 \exists Sample: 490524-020 / SMP 08/08/14 23:25 Batch: Matrix: Soil

Units: mg/kg	Date Analyzed: 08/08/14 23:25	SU	SURROGATE RECOVERY STUDY	COVERY S	TUDY	
нал.	TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		87.8	99.6	88	70-135	
o-Terphenyl		45.4	49.8	91	70-135	
1 at Datat # 047071	Games 100504 001 / GM/ID	Datal	Dataka 1 Matrice Call	C 2:1		

Lab Batch #: 947831 **Sample:** 490524-021 / SMP Batch: _ Matrix: Soil

		Soil	i: 1 Matrix: Soil	Batch:	947831 Sample: 490524-022 / SMP	Lab Batch #: 947831
	70-135	94	49.9	47.1		o-Terphenyl
	70-135	85	99.7	85.0		1-Chlorooctane
		[D]	3	3	Analytes	
Flags	Control Limits	Recovery	True Amount	Amount Found	TPH By SW8015 Mod	
	STUDY	ECOVERY S	SURROGATE RECOVERY STUDY	SU	mg/kg Date Analyzed: 08/08/14 23:49	Units:

1-Chlorooctane TPH By SW8015 Mod **Analytes** Date Analyzed: 08/09/14 00:13 Amount Found 91.4 ≥ SURROGATE Amount [B] True 99.8 Recovery %R Ξ 92 Control Limits %R 70-135 Flags

Units:

mg/kg

RECOVERY STUDY

Lab Batch #: 947831 Sample: 490524-023 / SMP Batch: Matrix: Soil

50.8

49.9

102

70-135

o-Terphenyl

Units: mg/kg	Date Analyzed: 08/09/14 00:37	SU	SURROGATE RECOVERY STUDY	ECOVERY S	STUDY	
Т	TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		99.7	8.66	100	70-135	
o-Terphenyl		54.7	49.9	110	70-135	

^{*} Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Form 2 - Surrogate Recoveries

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Project Name: WLU #45

Work Orders: 490524, Lab Batch #: 947831

Sample: 490524-024 / SMP

Batch: Project ID: 086499

d: 08/09/14 01:04

Matrix: Soil

Units: mg/kg	Date Analyzed: 08/09/14 01:04	SU	SURROGATE RECOVERY ST	COVERY	TUDY	
ТРН В	TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1	Analytes			[D]		
1-Chlorooctane		80.9	99.8	81	70-135	
o-Terphenyl		40.6	49.9	81	70-135	
Lab Batch #: 947831	Sample: 490524-025 / SMP	Batcl	Batch: 1 Matrix: Soil	Soil	-	

Units: mg/kg Date Analyzed: 08/09/14 01:29 SURROGATE RECOVERY STUDY

	30	SUNNOGATE RECOVERT STUDI	COVENI	IUDI	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes	2	3	[D]	À	
1-Chlorooctane	89.1	99.9	89	70-135	
o-Terphenyl	49.1	50.0	98	70-135	

Lab Batch #: 947831 Sample: 490524-026 / SMP Batch: _ Matrix: Soil

Units: mg/kg Date Analyzed: 08/09/14 01:53 SURROGATE RECOVERY STUDY

ТРН В	TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		86.4	99.6	87	70-135	
o-Terphenyl		46.0	49.8	92	70-135	
Lab Batch #: 947831	Sample: 490524-027 / SMP	Batch:	n: 1 Matrix: Soil	Soil		

Units: mg/kg Date Analyzed: 08/09/14 02:41

SURROGATE RECOVERY STUDY

ount True und Amount A [B]	Recovery %R [D]	Control Limits %R	Flags
	88	70_135	
	0		
6.9 49.9	92	70-135	
Batch. Matrix.	Solid		
	Amount True Found Amount [A] [B] 88.0 99.7 45.9 49.9	Amount [B] 99.7 49.9 Ratch: 1 Matrix: Sc	True Recovery

Lab Batch #: Sample: 659522-1-BLK / BLK Batch:

Units: mg/kg	kg Date Analyzed: 08/06/14 01:09	SU	SURROGATE RECOVERY STUDY	ECOVERY S	TUDY	
	TPH By SW8015 Mod	Amount Found	True Amount	Recovery	Control Limits	Flags
	Analytes	[A]	표	[D]	%R	
1-Chlorooctane		114	100	114	70-135	
o-Terphenyl		58.9	50.0	118	70-135	

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Form 2 - Surrogate Recoveries

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Project Name: WLU #45

Lab Batch #: 947582 Work Orders: 490524,

Sample: 659613-1-BLK / BLK

Batch: Project ID: 086499 Matrix: Solid

mg/kg Date Analyzed: 08/07/14 10:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	
Inh Batch #: 047828 Sample: 650767 BIV BIV		Datah. 1 Matrix: Calid	Calid		

Lab Batch #: 94/828 **Sample:** 659/67-1-BLK/BLK Batch: Matrix: Solid

Date ed: 08/07/14 20:30

Units: mg/kg Date Analyzed: 08/07/14 20:30	SU	SURROGATE RECOVERY STU	ECOVERY S	YUUT	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	8820.0	0.0300	96	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	
1 -1 -1 -1 -1 047931 S1 C50774 1 DIV / DIV		D-1-1- 1 M-1-1- C-1:1	0 -1:1		t

Lab Batch #: 947831 Sample: 659774-1-BLK / BLK Batch: _ Matrix: Solid

Units: o-Terphenyl 1-Chlorooctane mg/kg TPH By SW8015 Mod Analytes Date Analyzed: 08/08/14 20:58 Amount Found 87.3 48.2 ≥ SURROGATE RECOVERY STUDY Amount [B] True 50.0 100 Recovery %R \equiv 96 87 Control Limits %R 70-135 70-135 Flags

Units: Lab Batch #: 947444 mg/kg Date Analyzed: 08/06/14 01:34 Sample: 659522-1-BKS / BKS Batch: SURROGATE RECOVERY STUDY Matrix: Solid

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	64.3	50.0	129	70-135	
1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1		D . L . L	C -1: 1		

Lab Batch #: 947582 **Sample:** 659613-1-BKS / BKS Batch: Matrix: Solid

Units: mg/kg	g Date Analyzed: 08/07/14 10:51	SUI	SURROGATE RECOVERY STUDY	ECOVERY S	TUDY	
	BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes	3	3	[D]	ļ	
1,4-Difluorobenzene		0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	ne	0.0312	0.0300	104	80-120	

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Project Name: WLU #45

Lab Batch #: 947828 Work Orders: 490524

Sample: 659767-1-BKS / BKS

Batch: Project ID: 086499 Matrix: Solid

Units: mg/kg Date Analyzed: 08/07/14 20:46

4-Bromofluorobenzene 1,4-Difluorobenzene BTEX by EPA 8021B **Analytes** 0.0296 Amount Found [A] 0.0312SURROGATE RECOVERY STUDY Amount [B] 0.03000.0300True Recovery %R 104 $\overline{\exists}$ 99 80-120 Control Limits %R 80-120 Flags

Lab Batch #: 947831 Sample: 659774-1-BKS / BKS Batch: Matrix: Solid

Units: o-Terphenyl 1-Chlorooctane mg/kg TPH By SW8015 Mod Analytes Date Analyzed: 08/08/14 21:21 Found [A] Amount 60.6 104 SURROGATE Amount [B] True 50.0 100 RECOVERY STUDY Recovery %R [D] 121 104 70-135 70-135 Control Limits %R Flags

Lab Batch #: 947444 **Sample:** 659522-1-BSD / BSD Batch: Matrix: Solid

o-Terphenyl 1-Chlorooctane mg/kg TPH By SW8015 Mod Analytes Date Analyzed: 08/06/14 01:57 Amount Found 62.8 126 ≥ SURROGATE RECOVERY STUDY Amount [B] True 50.0 100 Recovery %R 126 126 \equiv Control Limits %R 70-135 70-135 Flags

Lab Batch #: 947582 Date Analyzed: 08/07/14 11:07 **Sample:** 659613-1-BSD / BSD Batch: Matrix: Solid

Units: mg/kg	Date Analyzed: 08/07/14 11:07	SU	SURROGATE RECOVERY STUDY	COVERYS	TUDY	
В	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0291	0.0300	97	80-120	
4-Bromofluorobenzene		0.0315	0.0300	105	80-120	
Lah Ratch #: 947828	Sample: 659767-1-BSD / BSD Batch: 1 Matrix: Solid	SD Ratch	: 1 Matrix:	Solid		

Units: mg/kg Date Analyzed: 08/0//14 z1:03	SU	SURROGATE RECOVERY STUDY	ECOVERY	TUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Project Name: WLU #45

Work Orders: 490524, Lab Batch #: 947831

Sample: 659774-1-BSD / BSD

Batch: Project ID: 086499 Matrix: Solid

Units: mg/kg Date Analyzed: 08/08/14 21:45

o-Terphenyl 1-Chlorooctane TPH By SW8015 Mod **Analytes** Amount Found [A] 60.3 105 SURROGATE RECOVERY STUDY Amount [B] True 50.0 100 Recovery %R [D] 121 105 70-135 Control Limits %R 70-135 Flags

Lab Batch #: 947444 Sample: 490524-001 S / MS Batch: Matrix: Soil

Units: m	mg/kg	Date Analyzed: 08/06/14 02:50	SU	SURROGATE RECOVERY STUDY	ECOVERY	STUDY	
	TPH B	TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	1	mary cos					
1-Chlorooctane			126	99.8	126	70-135	
o-Terphenyl			64.8	49.9	130	70-135	
Lab Batch #: 947582	7582	Sample: 490524-001 S / MS	Batch:	1: 1 Matrix: Soil	Soil		

Units: Date Analyzed: 08/07/14 11:23

Units: mg/kg Date	Date Analyzed: 08/07/14 11:23	SUR	SURROGATE RECOVERY STUDY	COVERY S	TUDY	
BTEX by EPA 8021B Analytes	PA 8021B tes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0295	0.0300	98	80-120	
4-Bromofluorobenzene		0.0329	0.0300	110	80-120	
Lab Batch #: 947828	Sample: 490605-001 S / MS	Batch:	1 Matrix: Soil	Soil		

Units: mg/kg Date Analyzed: 08/07/14 21:19

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	втех і	BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	>	Analytes			[D]		
	1,4-Difluorobenzene		0.0300	0.0300	100	80-120	
	4-Bromofluorobenzene		0.0326	0.0300	109	80-120	
_	Lab Batch #: 947831	Sample: 490605-001 S / MS	Batch:	: 1 Matrix: Soil	Soil		

Units: mg/kg	Date Analyzed: 08/09/14 03:28	SU	SURROGATE RECOVERY STUDY	ECOVERY S	TUDY	
ТРН	TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	3]	[D]		
1-Chlorooctane		102	99.8	102	70-135	
o-Terphenyl		59.6	49.9	119	70-135	

Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

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Project Name: WLU #45

Work Orders: 490524, Lab Batch #: 947444

mg/kg

Batch: Project ID: 086499 Matrix: Soil

Sample: 490524-001 SD / MSD

Date Analyzed: 08/06/14 03:14 SURROGATE RECOVERY STUDY

Found Amount [A] [B]	Amount Recovery [B] %R	covery Contro Limits R R	ol Hags
Analytes	[D]	[D]	
1-Chlorooctane 111 99.7	9.7	111 70-135	5
o-Terphenyl 56.8 49.9	9.9 114	114 70-135	5

Lab Batch #: 947582 **Sample:** 490524-001 SD / MSD Batch: _ Matrix: Soil

Units: mg/kg	Date Analyzed: 08/07/14 11:39	SU	SURROGATE RECOVERY STU	COVERY S	TUDY	
ВТЕХ	BTEX by EPA 8021B	Amount Found	True Amount	Recovery	Control Limits	Flags
	Analytes	[A]	[B]	%R [D]	%R	
1,4-Difluorobenzene		0.0291	0.0300	97	80-120	
4-Bromofluorobenzene		0.0320	0.0300	107	80-120	

Lab Batch #: 947828 Sample: 490605-001 SD / MSD Batch: _ Matrix: Soil

Units: 1,4-Difluorobenzene mg/kg BTEX by EPA 8021B Analytes Date Analyzed: 08/07/14 21:36 Amount Found 0.0302≱ SURROGATE RECOVERY STUDY Amount [B] 0.0300True Recovery %R 101 \equiv 80-120 Control Limits %R Flags

Lab Batch #: 947831 Sample: 490605-001 SD / MSD Batch: Matrix: Soil

4-Bromofluorobenzene

0.0325

0.0300

108

80-120

Units:	mg/kg	Date Analyzed: 08/09/14 03:53	JS	SURROGATE RECOVERY ST	ECOVERY S	STUDY	
	TPH]	TPH By SW8015 Mod	Amount Found	True Amount	Recovery	Control Limits	Flags
		Analytes	<u> </u>	<u> </u>	[D]	λON	
1-Chlorooctane	ıne		102	99.7	102	70-135	
o-Terphenyl			58.4	49.9	117	70-135	

^{*} Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

BS / BSD Recoveries



Received by OCD: 12/14/2021 7:51:42 AM

Project Name: WLU #45

Work Order #: 490524

Project ID: 086499

Analyst: ARM

Date Prepared: 08/07/2014

Date Analyzed: 08/07/2014

Lab Batch ID: 947582

Sample: 659613-1-BKS

Matrix: Solid **Batch #:** 1

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[10]	[C]	ارما	[E]	Result [F]	رق				
Benzene	< 0.00100	0.100	0.102	102	0.100	0.100	100	2	70-130	35	
Toluene	< 0.00200	0.100	0.105	105	0.100	0.105	105	0	70-130	35	
Ethylbenzene	< 0.00100	0.100	0.109	109	0.100	0.110	110	1	71-129	35	
m,p-Xylenes	< 0.00200	0.200	0.219	110	0.200	0.222	111	1	70-135	35	
o-Xylene	< 0.00100	0.100	0.106	106	0.100	0.107	107	1	71-133	35	

Date Prepared: 08/07/2014 **Date Analyzed:** 08/07/2014 **Analyst:** ARM

Lab Batch ID: 947828

Sample: 659767-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00100	0.100	0.0898	90	0.100	0.0878	88	2	70-130	35	
Toluene	< 0.00200	0.100	0.0912	91	0.100	0.0898	90	2	70-130	35	
Ethylbenzene	< 0.00100	0.100	0.0930	93	0.100	0.0913	91	2	71-129	35	
m,p-Xylenes	< 0.00200	0.200	0.186	93	0.200	0.183	92	2	70-135	35	
o-Xylene	< 0.00100	0.100	0.0917	92	0.100	0.0899	90	2	71-133	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes

Analyst: Units:

BS / BSD Recoveries



Received by OCD: 12/14/2021 7:51:42 AM

Project Name: WLU #45

Work Order #: 490524

Project ID: 086499

JUM

Date Prepared: 08/04/2014

Date Analyzed: 08/04/2014

Lab Batch ID: 947522

Sample: 659375-1-BKS

Batch #: 1 Matrix: Solid

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	49.1	98	50.0	48.3	97	2	80-120	20	

JUM **Date Prepared:** 08/04/2014 **Date Analyzed:** 08/05/2014 **Analyst:**

Lab Batch ID: 947525

Sample: 659407-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

	Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C	Chloride	<2.00	50.0	47.6	95	50.0	45.9	92	4	80-120	20	

Analyst: JUM **Date Prepared:** 08/05/2014 **Date Analyzed:** 08/05/2014

Lab Batch ID: 947424 Sample: 659465-1-BKS **Batch #:** 1

Matrix: Solid

Units:

mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	47.9	96	50.0	48.0	96	0	80-120	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes

Released to Imaging: 3/31/2022 1:58:51 PM

BS / BSD Recoveries



Received by OCD: 12/14/2021 7:51:42 AM

Project Name: WLU #45

Work Order #: 490524

ARM

Project ID: 086499

Date Prepared: 08/05/2014

Date Analyzed: 08/06/2014

Lab Batch ID: 947444

Matrix: Solid

Analyst:

Sample: 659522-1-BKS **Batch #:** 1

Units:	mg/Kg		BLANK /	BLANK SPIKE	E / BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY
								1	1	$\overline{}$

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	925	93	1000	962	96	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1050	105	1000	1110	111	6	70-135	35	

ARM **Date Prepared:** 08/08/2014 **Date Analyzed:** 08/08/2014 **Analyst:**

Lab Batch ID: 947831 **Sample:** 659774-1-BKS **Batch #:** 1 Matrix: Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	884	88	1000	968	97	9	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1070	107	1000	1110	111	4	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: WLU #45

Lab Batch #: Work Order #: 490524 947424

Date Analyzed: 08/06/2014

QC- Sample ID: 490605-004 S

Date Prepared: 08/05/2014

Batch #:

Project ID: 086499

Analyst: JUM

Matrix: Soil

Reporting Units: mg/kg

reporting cuits, mg/xg	MATE	AIX / MIA	MATRIX / MATRIX SPIKE RECO	KECO\	VERY STUL	ŊΥ
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	131	258	403	105	80-120	
I.ah Ratch #: 947424						

Lab batti #:

QC- Sample ID: Date Analyzed: 490772-001 S 08/05/2014

Batch #:

Date Prepared: 08/05/2014

Analyst: JUM Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes Sample Result [A] Parent Spike Added [B] Spiked Sample Result $\overline{\mathbf{C}}$ <u>D</u> % Limits Control

Lab Batch #: 947522

Chloride

Date Analyzed: 08/04/2014

QC- Sample ID: 490523-006 S

Date Prepared: 08/04/2014

1980

5000

7370

108

80-120

Flag

Analyst: JUM Matrix: Soil

Batch #:

Reporting Units: mg/kg Chloride Inorganic Anions by EPA 300 **Analytes** Sample Result Parent 188 lacksquareMATRIX / MATRIX SPIKE Spike Added [B] 257 Spiked Sample Result 423 $\overline{\mathbf{C}}$ RECOVERY STUDY <u>D</u> 91 Control Limits %R 80-120 Flag

Lab Batch #: 947522

Date Analyzed: 08/04/2014

QC- Sample ID: 490523-016 S

Date Prepared: 08/04/2014 Batch #:

Analyst: JUM Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Chloride	Analytes	Inorganic Anions by EPA 300
365	Kesuit [A]	Parent Sample
525	Added [B]	Spike
868	[C]	Spiked Sample Result
96	[0]	%R
80-120	%R	Control Limits
		Flag

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

BRL - Below Reporting Limit



Form 3 - MS Recoveries

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Project Name: WLU #45

Work Order #: 490524

Date Analyzed: Lab Batch #: 08/05/2014 947525

QC-Sample ID: 490524-006 S

Date Prepared: 08/04/2014

Batch #:

Project ID: 086499

Analyst: JUM

Matrix: Soil

Reporting Units: mg/kg Chloride Inorganic Anions by EPA 300 **Analytes** Parent Sample Result 175 lacksquareMATRIX / MATRIX SPIKE RECOVERY STUDY Spike Added [B] 380 Spiked Sample Result 555 $\overline{\mathbf{C}}$ %R 100 Control Limits %R 80-120 Flag

Lab Batch #: 947525

QC- Sample ID: Date Analyzed: rting Units: 490524-016 S 08/05/2014

Date Prepared: 08/04/2014

Analyst: JUM

Batch #: Matrix: Soil

Reporting Onits: ing/ag	MATE	UX / MA	MATRIX / MATRIX SPIKE RECO		VERY STUD	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1600	5290	6700	96	80-120	

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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: WLU #45

490524

Project ID: 086499

Lab Batch ID:

947582

QC- Sample ID: 490524-001 S

Batch #:

Matrix: Soil

Date Analyzed:

08/07/2014

Date Prepared: 08/07/2014

Analyst: ARM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00111	0.111	0.106	95	0.112	0.104	93	2	70-130	35	
Toluene	< 0.00223	0.111	0.109	98	0.112	0.108	96	1	70-130	35	
Ethylbenzene	< 0.00111	0.111	0.113	102	0.112	0.111	99	2	71-129	35	
m,p-Xylenes	< 0.00223	0.223	0.227	102	0.223	0.224	100	1	70-135	35	
o-Xylene	< 0.00111	0.111	0.111	100	0.112	0.110	98	1	71-133	35	

Lab Batch ID:

947828

QC- Sample ID: 490605-001 S

Batch #:

Matrix: Soil

Date Analyzed:

08/07/2014

Date Prepared: 08/07/2014

Analyst: ARM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[C]	70K [D]	[E]	Result [F]	[G]	70	70K	70KFD	
Benzene	< 0.00106	0.106	0.0912	86	0.106	0.0913	86	0	70-130	35	
Toluene	< 0.00213	0.106	0.0930	88	0.106	0.0929	88	0	70-130	35	
Ethylbenzene	< 0.00106	0.106	0.0934	88	0.106	0.0933	88	0	71-129	35	
m,p-Xylenes	< 0.00213	0.213	0.187	88	0.213	0.187	88	0	70-135	35	
o-Xylene	< 0.00106	0.106	0.0916	86	0.106	0.0919	87	0	71-133	35	

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

Received by OCD: 12/14/2021 7:51:42 AM

Work Order #:

Form 3 - MS / MSD Recoveries

Project Name: WLU #45

490524

Project ID: 086499

Lab Batch ID:

947444

QC- Sample ID: 490524-001 S

Batch #:

Matrix: Soil

Date Analyzed:

08/06/2014

Date Prepared: 08/05/2014

Analyst: ARM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<16.7	1110	1280	115	1110	1030	93	22	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.7	1110	1320	119	1110	1290	116	2	70-135	35	

QC- Sample ID: 490605-001 S 947831 Lab Batch ID: Batch #: Matrix: Soil

Date Analyzed: 08/09/2014 **Date Prepared:** 08/08/2014 Analyst: ARM

Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]		Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<16.0	1070	930	87	1060	899	85	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.0	1070	1180	110	1060	1140	108	3	70-135	35	

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



Sample Duplicate Recovery



Project Name: WLU #45

Work Order #: 490524

Date Analyzed: 08/04/2014 00:00 Lab Batch #: 947219

Date Prepared: 08/04/2014

Batch #:

Analyst: WRU **Project ID:** 086499

Matrix: Soil

Percent Moisture Reporting Units: % QC- Sample ID: 490500-001 D Percent Moisture Analyte Parent Sample SAMPLE / SAMPLE DUPLICATE RECOVERY Result 19.9 \triangleright Duplicate Result Sample 19.9 RPD 0 Limits %RPD Control 20 Flag

Lab Batch #: 947219

QC-Sample ID: 490501-003 D Date Analyzed: 08/04/2014 00:00

> Date Prepared: 08/04/2014 Batch #:

> > Analyst: WRU

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE/SAMPLE DUPLICATE RECOVERS	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	7.50	6.96	7	20	

Lab Batch #: 947345

Date Analyzed: 08/05/2014 15:00

Date Prepared: 08/05/2014

Analyst: WRU

QC- Sample ID: 490605-007 D

Batch #:

Matrix: Soil

Percent Moisture Reporting Units: % **Percent Moisture** Analyte Parent Sample Result SAMPLE / SAMPLE DUPLICATE RECOVERY 9.08 ⅀ Duplicate Sample Result 8.72 В RPD Control Limits %RPD 20 Flag

Lab Batch #: 947345

Date Analyzed: 08/05/2014 15:00

Date Prepared: 08/05/2014

Batch #:

Analyst: WRU

QC- Sample ID: 490651-001 D

Matrix: Soil

Reporting Units: %	SAMPLE /	SAMPLE / SAMPLE DUPLICATE RECOVERY	DUPLIC	ATE RECO	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	<1.00	<1.00	0	20	U

BRL - Below Reporting Limit Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.



Sample Duplicate Recovery



Project Name: WLU #45

Work Order #: 490524

Lab Batch #: 947502

Date Analyzed: 08/07/2014 00:00

Reporting Units: % QC- Sample ID: 490524-007 D

Date Prepared: 08/07/2014

Analyst: WRU

Project ID: 086499

Matrix: Soil

Batch #: SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.79	5.84	1	20	

Lab Batch #: 947502

Date Analyzed: 08/07/2014 00:00

QC-Sample ID: 490524-017 D

Date Prepared: 08/07/2014

Analyst: WRU

Batch #:

Matrix: Soil

Percent Moisture Reporting Units: % **Percent Moisture Analyte** Parent Sample Result SAMPLE / SAMPLE DUPLICATE RECOVERY 7.76 Sample Duplicate Result 7.15 [B]RPD ∞ Control
Limits
%RPD 20 Flag

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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CHYIN OF CUSTODY



Moltice: Signative of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laborationes and its affiliates, subconfractions and assigns standard terms and conditions of service unless a valid purchase order from client company to XENCO Laborationes and its affiliated under a fully executed client contract. Thermp. Corr. Factor Cooler Temp. On Ice Preserved where applicable Custody Seal # Received By: Relinquished by: Date Time: Received By: Relinquished By: Received By: :emiT etsQ Relinquished by: -12-2 Relinquished By: S CHANGE POSSESSION, INCLUDING COURIER DELIVERY SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH/ITIME SAMPL FED-EX / UPS: Tracking # TAT Starts Day received by Lab, if received by 3:00 pm TRRP Checklist 3 Day EMERGENCY ITA-DR/TRU Level 3 (CLP Forms) Contract TAT S DSY EMERGENCY TAT VAG Y VI level IV Level III Std QC+ Forms Next Day EMERGENCY Level IV (Full Data Pkg /raw data) Level II Std QC TAT YSG & TAT ysd ems2 Turnaround Time (Business days) Notes: Data Deliverable Information t8:01 4 50.01 53:6 151 101 £5:6 55:6 15 h8:6 09:6 282 Trib 151 1215 101 27:5/1/18/4 Field Comments bottles Depth 즈 Sample Field ID / Point of Collection No. V Number of preserved bottles Collection WW= Waste Water 5780 icles 110 = 0PO Number: 9qiW = W 1916W elete Water SL = Sludge +Ore SW = Surface water P = ProductDW = Drinking Water GW =Ground Water Company Address: bilo2\be2\lio2 = 2 Project Name/Number: IIA =A Company Name / Branch: Client / Reporting Information Matrix Codes Analytical Information mww.xenco.com Service Center - San Antonio, Texas (210-509-3334) Xenco Quote # Tampa, Florida (813-620-2000) Norcross, Georgia (770-449-8800) Dallas, Texas (214-902-0300) Lakeland, Florida (863-646-8526) Odessa, Texas (432-563-1800) Stafford, Texas (281-240-4200)

Thermo. Corr. Factor

Cooler Temp.

On Ice

Preserved where a

Page 36 of 38

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CUSTODY	OE	CHAIN

H1-18'2 Received By: Date Time: Relinquished By: Date Time: SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY FED-EX / UPS: Tracking # TAT Starts Day received by Lab, if received by 3:00 pm TRRP Checklist 3 Day EMERGENCY ITA-BH/TRU Level 3 (CLP Forms) Contract TAT 2 Day EMERGENCY VI level IV Level III Std QC+ Forms TAT VAU Y Next Day EMERGENCY Level IV (Full Data Pkg /raw data) Level II Std QC TAT VSG 3 Same Day TAT :8910N Turnaround Time (Business days) Data Deliverable Information 61:11 SY 51:1 6 ,51 8 21:13 101 1 27:01 25:01 152 18:01 1-57 101 78.01 6 8:01 Field Comments selttod Depth $\frac{\Gamma}{\Omega}$ त्रे Sample S MH No. Field ID / Point of Collection Number of preserved bottles Collection 1916W steW =WW roles 1!0 = 0PO Number: 9qiW = W+ DRU 1918W stew Water appnis = 18 SW = Surface water invoice To: P = Productset of main DW = Drinking Water GW =Ground Water Company Address: Project Location: bilo2\b92\lio2 = 2 Project Name/Number: Company Name / Branch: IIA =A Project Information Client / Reporting Information Matrix Codes Analytical Information 76 тор.ориех. ммм Service Center - San Antonio, Texas (210-509-3334) женсо дор # Xenco Quote # Tampa, Florida (813-620-2000) Norcross, Georgia (770-449-8800) Dallas, Texas (214-902-0300) Lakeland, Florida (863-646-8526) Odessa, Texas (432-563-1800) Stafford, Texas (281-240-4200) Setting the Standard since 1990

Custody Seal #

Relinquished By:

Relinduished by:

Relinquished by:

Date Time:

Date Time:

Received By:

Page 37 of 38

CHAIN OF CUSTODY

Setting the Standard since 1990	3
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Cooler Temp. Thermo. Corr. Factor	Onice	e applicable	гуед мінег	Prese			# 16	ody Se	otenO					:45	Received I		:ә	miT ətsQ			· A:	d bədsiupni	Reli
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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Conestoga Rovers & Associates

Date/ Time Received: 07/31/2014 04:15:00 PM Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 490524

Sample Receipt Checklist Temperature Measuring device used : Comments

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

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

PH Device/Lot#:

Analyst:

Checklist completed by: Mmy

Kelsey Brooks

Date: 07/31/2014

Checklist reviewed by: Mmr Morah Kelsey Brooks

Date: 08/01/2014

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 66820

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd Midland, TX 79706	Action Number: 66820
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Approved.	3/31/2022