AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.

App Number: pJK1424834050

3RP - 1013

Williams Four Corners, LLC

3/1/2018

OIL CONS. DIV DIST. 3

JAN 22 2018

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Buena Vista**	Facility Type: **Compressor Station**

Surface Owner: **State of NM**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	**32**	**24N**	**8W**					**San Juan**

Latitude 36.275278 Longitude -107.698332

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **1,421.658 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pipeline**	Date and Hour of Occurrence: **1/9/2018 @ 3:00 PM**	Date and Hour of Discovery: **1/10/2018 @ 4:00 PM**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Cory Smith**	
By Whom? **Kijun Hong**	Date and Hour: **1/10/2018@4:07PM**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
A ball valve was discovered to be in a partially open position, venting fuel gas to the condensate storage tank. Valve was shut all the way.

Describe Area Affected and Cleanup Action Taken.*
No liquids associated with the release. No soil impacts.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 2/26/2018 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: — Attached ☐
Date: **1/18/2018** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

nVF1805748047

1

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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Revised August 8, 2011

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Buena Vista**	Facility Type: **Compressor Station**

Surface Owner: **State of NM**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	**32**	**24N**	**8W**					**San Juan**

Latitude 36.275278 Longitude -107.698332

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **159.6 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pressure Relief Valve**	Date and Hour of Occurrence: **2/7/2018 @ 4:40 AM**	Date and Hour of Discovery: **2/7/2018 @ 4:40 AM**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **NA**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
A downstream freeze cause excess pressure build up at the station resulting in the activation of the station pressure relief valve.

Describe Area Affected and Cleanup Action Taken.*
No liquids associated with the release. No soil impacts.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: **Kijun Hong**	Approved by Environmental Specialist:
Title: **Environmental Specialist**	Approval Date: 2/27/18 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: — Attached ☐
Date: **2/13/2018** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

NVF1805850432

OIL CONS. DIV DIST. 3
FEB 20 2018

1

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1625 N. French Dr., Hobbs, NM 88240
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Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company Williams Four Corners LLC	Contact Michael Hannan
Address 1755 Arroyo Dr., Bloomfield, NM 87413	Telephone No. 505-632-4807
Facility Name La Jara Compressor Station	Facility Type Compressor Station

Surface Owner Bureau of Land Management	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	1	30N	9W					Rio Arriba

Latitude 36.81754° N **Longitude** 107.49144° W

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 103.78 MCF	Volume Recovered 0 MCF
Source of Release Emergency Safety Device (ESD)	Date and Hour of Occurrence 12/8/17, 2:00 PM MST	Date and Hour of Discovery 01/30/18, 07:30 AM MST
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

Describe Cause of Problem and Remedial Action Taken.*

Operator was working on the PLC and at that time the valve failed causing an ESD Event that caused the unintentional release of 103.78 MCF of natural gas.

Describe Area Affected and Cleanup Action Taken.*

No clean-up required for natural gas releases vented to atmosphere.

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

Signature: Michael Hannan	OIL CONSERVATION DIVISION
Printed Name: Michael Hannan	Approved by Environmental Specialist:
Title: Engineer, Sr.	Approval Date: 2/27/2018 Expiration Date:
E-mail Address: michael.hannan@williams.com	Conditions of Approval: — Attached ☐
Date: 02/13/18 Phone: 505-632-4807	

* Attach Additional Sheets If Necessary

NVF1805851260

OIL CONS. DIV DIST. 3
FEB 20 2018

OIL CONS. DIV DIST. 3

JAN 16 2018

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Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Florance 28**	Facility Type: **Pipeline**

Surface Owner: **BLM**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	**35**	**30N**	**8W**					**San Juan**

Latitude 36.76662 **Longitude** -107.64681

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **61.4 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pipeline**	Date and Hour of Occurrence: **11/30/2017 @ 11:50 AM**	Date and Hour of Discovery: **11/30/2017 @ 11:50 AM** **Gas loss volume determined 12/12/2017**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **NA**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
Pipeline leak due to failure from corrosion. Leak was isolated and shut it.

Describe Area Affected and Cleanup Action Taken.*
Clean up completed. Soil was not saturated and did not appear to be wet from liquids. Soil did have an odor associate with it. Soil sample report shows ND. Please see attached documentation for further details.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 2/26/18 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: – Attached ☐
Date: **1/10/2018** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

NVF1800537607

Remediation Excavation and Sampling Form

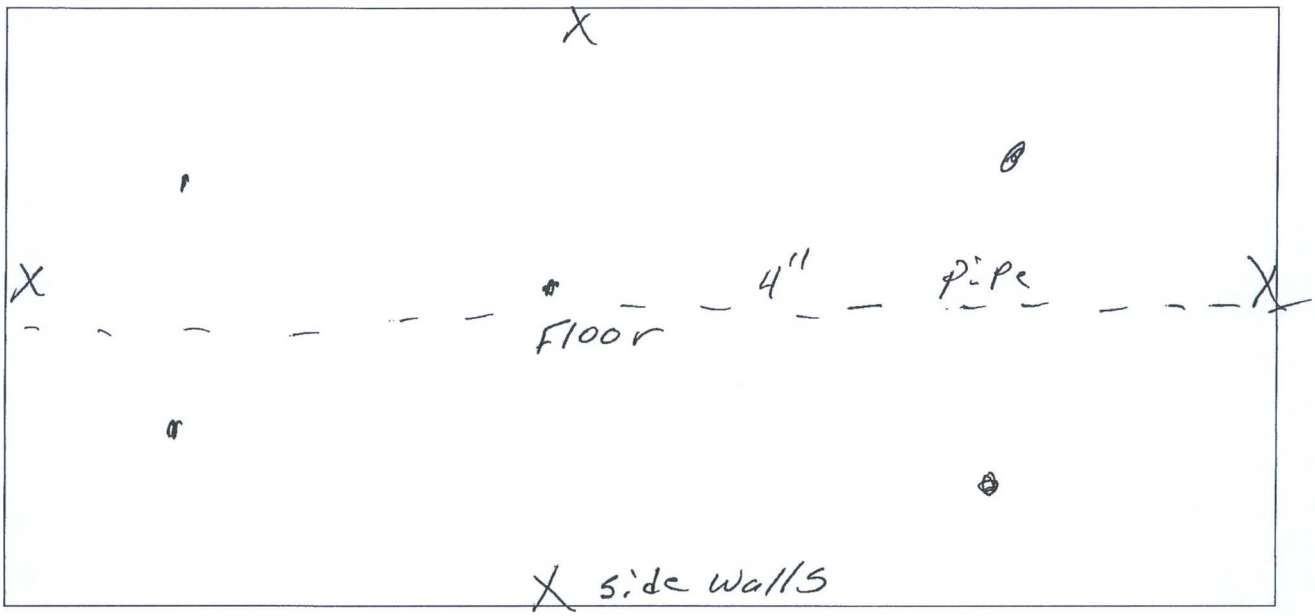
Site Name Florance # 28

Excavation Dimensions (feet)

10 Length 10 Width 5 Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



Sample Information

OCD Witness Sampling Yes or (No)

Agency(s) Representative(s) Corey Smith gave permission to sample

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
Florance 28	12-14-17	comp.	sidewall	56.70 ppm
Florance #28	12-14-17	comp.	floor	48.90

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 29, 2017

Kijun Hong
Williams Field Services
1755 Arroyo Dr.,
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: Florance 28 OrderNo.: 1712967

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/15/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1712967**
Date Reported: **12/29/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Florance 28
Lab ID: 1712967-001 **Matrix:** SOIL

Client Sample ID: Florance #28 Side Walls
Collection Date: 12/14/2017 3:00:00 PM
Received Date: 12/15/2017 4:48:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	12/27/2017 6:17:35 PM	35727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/20/2017 6:40:59 AM	35579
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/20/2017 6:40:59 AM	35579
Surr: DNOP	83.3	70-130		%Rec	1	12/20/2017 6:40:59 AM	35579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/19/2017 8:13:44 PM	35569
Surr: BFB	84.5	15-316		%Rec	1	12/19/2017 8:13:44 PM	35569
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/19/2017 8:13:44 PM	35569
Toluene	ND	0.047		mg/Kg	1	12/19/2017 8:13:44 PM	35569
Ethylbenzene	ND	0.047		mg/Kg	1	12/19/2017 8:13:44 PM	35569
Xylenes, Total	ND	0.094		mg/Kg	1	12/19/2017 8:13:44 PM	35569
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/19/2017 8:13:44 PM	35569

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Florance 28
Lab ID: 1712967-002 **Matrix:** SOIL

Client Sample ID: Florance #28 Bottom
Collection Date: 12/14/2017 3:10:00 PM
Received Date: 12/15/2017 4:48:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	12/27/2017 6:30:00 PM	35727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/20/2017 7:08:32 AM	35579
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/20/2017 7:08:32 AM	35579
Surr: DNOP	87.1	70-130		%Rec	1	12/20/2017 7:08:32 AM	35579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/19/2017 8:37:00 PM	35569
Surr: BFB	87.0	15-316		%Rec	1	12/19/2017 8:37:00 PM	35569
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/19/2017 8:37:00 PM	35569
Toluene	ND	0.049		mg/Kg	1	12/19/2017 8:37:00 PM	35569
Ethylbenzene	ND	0.049		mg/Kg	1	12/19/2017 8:37:00 PM	35569
Xylenes, Total	ND	0.097		mg/Kg	1	12/19/2017 8:37:00 PM	35569
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	12/19/2017 8:37:00 PM	35569

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1712967**

29-Dec-17

Client: Williams Field Services

Project: Florance 28

Sample ID	**MB-35727**	SampType:	**mblk**		TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**35727**		RunNo:	**48035**					
Prep Date:	**12/27/2017**	Analysis Date:	**12/27/2017**		SeqNo:	**1540826**	Units:	**mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								

Sample ID	**LCS-35727**	SampType:	**lcs**		TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**35727**		RunNo:	**48035**					
Prep Date:	**12/27/2017**	Analysis Date:	**12/27/2017**		SeqNo:	**1540827**	Units:	**mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	96.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1712967**

29-Dec-17

Client: Williams Field Services

Project: Florance 28

Sample ID **LCS-35579**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **35579**	RunNo: **47874**
Prep Date: **12/18/2017**	Analysis Date: **12/19/2017**	SeqNo: **1533827** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.1	73.2	114			
Surr: DNOP	4.4		5.000		87.7	70	130			

Sample ID **MB-35579**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **35579**	RunNo: **47874**
Prep Date: **12/18/2017**	Analysis Date: **12/19/2017**	SeqNo: **1533828** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1712967**

29-Dec-17

Client: Williams Field Services

Project: Florance 28

Sample ID **MB-35569**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **35569**	RunNo: **47884**
Prep Date: **12/18/2017**	Analysis Date: **12/19/2017**	SeqNo: **1533499** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	810		1000		81.0	15	316			

Sample ID **LCS-35569**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **35569**	RunNo: **47884**
Prep Date: **12/18/2017**	Analysis Date: **12/19/2017**	SeqNo: **1533501** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.0	25.00	0	129	75.9	131			
Surr: BFB	2400		1000		241	15	316			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1712967**

29-Dec-17

Client: Williams Field Services

Project: Florance 28

Sample ID **MB-35569**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **35569**	RunNo: **47884**
Prep Date: **12/18/2017**	Analysis Date: **12/19/2017**	SeqNo: **1533535** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	80	120			

Sample ID **LCS-35569**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **35569**	RunNo: **47884**
Prep Date: **12/18/2017**	Analysis Date: **12/19/2017**	SeqNo: **1533536** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.5	77.3	128			
Toluene	0.95	0.050	1.000	0	95.0	79.2	125			
Ethylbenzene	0.95	0.050	1.000	0	94.7	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	96.6	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID **1712967-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **Florance #28 Side**	Batch ID: **35569**	RunNo: **47884**
Prep Date: **12/18/2017**	Analysis Date: **12/19/2017**	SeqNo: **1533550** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9452	0	97.2	80.9	132			
Toluene	0.96	0.047	0.9452	0.01130	100	79.8	136			
Ethylbenzene	0.96	0.047	0.9452	0	102	79.4	140			
Xylenes, Total	3.0	0.095	2.836	0.01582	104	78.5	142			
Surr: 4-Bromofluorobenzene	0.98		0.9452		104	80	120			

Sample ID **1712967-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **Florance #28 Side**	Batch ID: **35569**	RunNo: **47884**
Prep Date: **12/18/2017**	Analysis Date: **12/19/2017**	SeqNo: **1533551** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.023	0.9191	0	99.9	80.9	132	0.0962	20	
Toluene	0.95	0.046	0.9191	0.01130	102	79.8	136	0.365	20	
Ethylbenzene	0.96	0.046	0.9191	0	105	79.4	140	0.205	20	
Xylenes, Total	2.9	0.092	2.757	0.01582	106	78.5	142	0.709	20	
Surr: 4-Bromofluorobenzene	0.94		0.9191		102	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1712967 RcptNo: 1

Received By: Anne Thorne 12/15/2017 4:48:00 PM Anne Thorne
Completed By: Michelle Garcia 12/15/2017 2:46:10 PM Michelle Garcia
Reviewed By: IMO 12/15/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: WFS

Mailing Address: 1755 ARROYO DR
Bloomfield, NM 87413

Phone #: 505-632-4475

email or Fax#: KijuN.HonG@williams.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: Florance #28

Project #:

Project Manager: KIJUN HONG

Sampler: Morgan Killion

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1712967	BTEX + ~~MTBE~~ + ~~TMB~~'s (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
12/14/17	3:00	soil	Florance #28 Sidewalls	1-4oz	Cool	001	X		X									X				
12/14/17	3:40	soil	Florance #28 Bottom	1-4oz	Cool	002	X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
12/14/17	1646	Morgan Killion		12/14/17	16:46	
12/14/17	1911			12/15/17	0730	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

OIL CONS. DIV DIST. 3
DEC 12 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Williams Four Corners LLC	Contact: Kijun Hong
Address: 1755 Arroyo Dr., Farmington, NM 87413	Telephone No.: (505) 632-4475
Facility Name: San Juan Dakota Pig Receiver	Facility Type: Pig Receiver

Surface Owner: BLM	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	11	28N	11W					San Juan

Latitude 36.670953 **Longitude** -107.966490

NATURE OF RELEASE

Type of Release: Natural Gas and Produced Water	Volume of Release: 46 MCF 16 bbl Produced Water	Volume Recovered: 0 MCF 8 bbl Produced Water
Source of Release: Broken site glass	Date and Hour of Occurrence: 11/19/2017 at 10:00 AM	Date and Hour of Discovery: 11/19/2017 at 10:00 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour: NA	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Site glass on the pig receiver scrubber broker. Site glass has been replaced.

Describe Area Affected and Cleanup Action Taken.*
16 bbls of produced water were released due to a broken site glass. 8 bbls were caught by containment and 8 bbls were released to the ground. Clean up is currently in progress.

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

Signature: [signature]	OIL CONSERVATION DIVISION Approved by Environmental Specialist: [signature]
Printed Name: Kijun Hong	
Title: Environmental Specialist	Approval Date: 12/12/2017 Expiration Date:
E-mail Address: kijun.hong@williams.com	Conditions of Approval: 3015180021 Sample Area Chlorides Attached ☐
Date: 12/4/2017 Phone: (505) 632-4475	

* Attach Additional Sheets If Necessary

Provide 24 Hour notification prior to Sampling

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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Milagro Plant**	Facility Type: **Gas Processing Plant**

Surface Owner: **Williams**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	**12**	**29N**	**11W**					**San Juan**

Latitude 36.735966 **Longitude** -107.942329

NATURE OF RELEASE

Type of Release: **Amine/Water Mixture (50/50)**	Volume of Release: **300 gal**	Volume Recovered: **300 gal**
Source of Release: **Lean Amine Cooler**	Date and Hour of Occurrence: **12/8/2017 @ 8:00PM**	Date and Hour of Discovery: **12/8/2017 @ 8:00PM**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **NA**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

OIL CONS. DIV DIST. 3
DEC 20 2017

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
Tube failure due to corrosion/erosion on lean amine cooler bay. All 300 gallons released were captured by concrete containment and recovered.

Describe Area Affected and Cleanup Action Taken.*
All 300 gallons released were captured by concrete containment and recovered.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 1/2/2018 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: – Attached ☐
Date: **12/14/2017** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

NVF1800247774

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State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: Williams Four Corners LLC	Contact: Mitch Morris
Address: Arroyo 1755 Arroyo Drive, Bloomfield, NM 87413	Telephone No.: (505) 632-4606
Facility Name: Chaco Compressor Station	Facility Type: Compressor Station

Surface Owner: BLM	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	27	29N	11W					San Juan

Latitude 36.690708° N **Longitude** -107.978413° W

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 1118 MCF	Volume Recovered: 0 MCF
Source of Release: Relief Valve	Date and Hour of Occurrence: 12/11/2017 at 4:34 AM MST	Date and Hour of Discovery: 12/11/2017 at 4:34 AM MST
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Vanessa Fields via telephone call, Vanessa Fields/Cory Smith/Whitney Thomas via E-mail	
By Whom? Mitch Morris	Date and Hour: 12/11/2017 4:31 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A – Natural Gas release	

OIL CONS. DIV DIST. 3

JAN 02 2018

If a Watercourse was Impacted, Describe Fully.*

Not Applicable – Natural Gas Release

Describe Cause of Problem and Remedial Action Taken.*
A PSV on the discharge of Chaco Compressor Station inadvertently opened prior to the designed set point releasing 1118 MCF of natural gas to atmosphere.

- No liquids were associated with the release.
- An internal incident investigation was conducted for this release.

Describe Area Affected and Cleanup Action Taken.*
No cleanup is required with a natural gas release.

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

Signature:

Printed Name: Mitch Morris

Title: Environmental Specialist

E-mail Address: mitch.morris@williams.com

Date: 12/20/2017 Phone: (505) 632-4708

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 1/3/18 Expiration Date:

Conditions of Approval: — Attached ☐

* Attach Additional Sheets If Necessary

NVF1734625545

1

District I
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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company Williams Four Corners LLC	Contact: Monica Sandoval
Address 1755 Arroyo Dr., Bloomfield, NM 87413	Telephone No. (505) 632-4625
Facility Name 32-8# 3 CDP	Facility Type Compressor Station

Surface Owner Federal BLM	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	9	31N	8W					San Juan

Latitude 37.0704 Longitude -107.6869

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 1029 MCF	Volume Recovered None
Source of Release Rupture Disc	Date and Hour of Occurrence 12/2/2017 11:45am	Date and Hour of Discovery 12/2/2017 12/2/2017 11:45am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Email to Cory Smith and Vanessa Fields, from Matt Webre 12/2/2017 5:01pm	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Rupture disc failure. Gas loss 1029 mcf over 405 minutes. Rupture disc was installed approx. six months prior during a compressor upgrade. The release occurred from a 1 inch at 125 psig the rupture disc was rated for 200 psig. Possible bad faulty rupture disc installed.

Describe Area Affected and Cleanup Action Taken.*

There were no liquids associated with this release. No cleanup actions necessary.

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

Signature: Monica Sandoval	OIL CONSERVATION DIVISION
Printed Name: Monica Sandoval	Approved by Environmental Specialist:
Title: Environmental Specialist	Approval Date: 1/3/18 Expiration Date:
E-mail Address: monica.sandoval@williams.com	Conditions of Approval: — Attached ☐
Date: 12/19/2017 Phone: (505) 632-4625	

* Attach Additional Sheets If Necessary

OIL CONS. DIV DIST. 3
JAN 02 2018

NVF1733840781

1

District I
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State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Florance 28**	Facility Type: **Pipeline**

Surface Owner: **BLM**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	**35**	**30N**	**8W**					**San Juan**

Latitude 36.76662 **Longitude** -107.64681

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **61.4 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pipeline**	Date and Hour of Occurrence: **11/30/2017 @ 11:50 AM**	Date and Hour of Discovery: **11/30/2017 @ 11:50 AM** **Gas loss volume determined 12/12/2017**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **NA**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
Investigation pending. Leak was isolated and shut it.

DEC 20 2017

Describe Area Affected and Cleanup Action Taken.*
Clean up in progress.

OIL CONS. DIV DIST. 3

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

Signature:

Printed Name: **Kijun Hong**

Title: **Environmental Specialist**

E-mail Address: **kijun.hong@williams.com**

Date: **12/14/2017** Phone: **(505) 632-4475**

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 1/5/2018 Expiration Date:

Conditions of Approval: Sample Area 8015/8021

Attached ☐

* Attach Additional Sheets If Necessary

NVF1800537607

1

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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OIL CONS. DIV DIST. 3
JAN 19 2018

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **32-9 CDP**	Facility Type: **CDP**

Surface Owner: **BLM**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	**14**	**31N**	**10W**					**San Juan**

Latitude 36.895504 Longitude -107.861414

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **2,000 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pipeline**	Date and Hour of Occurrence: **1/2/2018 @ 7:30 AM**	Date and Hour of Discovery: **1/2/2018 @ 7:30 AM** **Gas loss volume determined 1/3/2018**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Cory Smith**	
By Whom? **Kijun Hong**	Date and Hour: **1/3/2018@12:40PM**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
Gas release due to stuck dump valve on a dehy. Valve was maintained.

Describe Area Affected and Cleanup Action Taken.*
No liquids associated with the release. No soil impacts.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 1/22/2018 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: — Attached ☐
Date: **1/12/2018** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

NVF1802235419

District I
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State of New Mexico
Energy Minerals and Natural Resources

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

OIL CONS. DIV DIST. 3
JAN 19 2018

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Buena Vista**	Facility Type: **Compressor Station**

Surface Owner: **State of NM**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	**32**	**24N**	**8W**					**San Juan**

Latitude 36.275278 Longitude -107.698332

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **1,200 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pipeline**	Date and Hour of Occurrence: **1/9/2018 @ 3:00 PM**	Date and Hour of Discovery: **1/10/2018 @ 4:00 PM**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Cory Smith**	
By Whom? **Kijun Hong**	Date and Hour: **1/10/2018@4:07PM**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
A ball valve was discovered to be in a partially open position, venting fuel gas to the condensate storage tank. Valve was shut all the way.

Describe Area Affected and Cleanup Action Taken.*
No liquids associated with the release. No soil impacts.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 1/22/2018 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: — Attached ☐
Date: **1/12/2018** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

NVF1802236102

1

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	WILLIAMS FOUR CORNERS LLC	Contact	AARON GALER
Address	1755 ARROYO DRIVE	Telephone No.	801-244-1219
Facility Name	TRUNK S/TRUNK D/LATERAL F-16	Facility Type	PIPELINE

Surface Owner PRIVATE	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	13	29N	6W					RIO ARRIBA

Latitude 36.72028'N **Longitude** -107.41937'W

NATURE OF RELEASE

Type of Release PETROLEUM HYDROCARBONS	Volume of Release UNKNOWN	Volume Recovered 562 CY OF IMPACTED SOIL
Source of Release HISTORICAL OPERATIONS	Date and Hour of Occurrence UNKNOWN	Date and Hour of Discovery JUNE 27, 2017
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? CORY SMITH AND VANESSA FIELDS (NMOCD)	
By Whom? MICHAEL HANNON	Date and Hour 6/29/17 08:42AM (CORY SMITH – VOICE MESSAGE) 6/29/17 08:43AM (VANESSA FIELDS – VOICE MESSAGE)	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3

DEC 01 2017

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*

DURING A RIGHT-OF-WAY SURVEY, WILLIAMS OPERATIONS DISCOVERED AN AREA IMPACTED BY HISTORICAL OPERATIONS. REMEDIATION WAS UNDERTAKEN FROM JUNE 27, 2017 THROUGH JULY 10, 2017. 562 CUBIC YARDS OF IMPACTED SOIL WAS EXCAVATED AND DISPOSED OF AT IEI LANDFILL IN FARMINGTON, NM. IMMEDIATE NMOCD NOTIFICATION OCCURRED ONCE IT BECAME APPARENT THAT GREATER THAN 60 CUBIC YARDS OF SOIL WOULD BE SENT FOR DISPOSAL.

Describe Area Affected and Cleanup Action Taken.*

A CLEANUP CREW WAS MOBILIZED TO THE SITE FOR REMEDIATION. AFTER EXCAVATING 562 CUBIC YARDS OF IMPACTED SOIL, THE EXCAVATION WAS FENCED OFF IN COORDINATION WITH THE PROPERTY OWNER. ON AUGUST 2, 2017, WILLIAMS RECEIVED AN EMAIL REQUEST FROM OCD FOR SUBMITTAL OF A DELINEATION REPORT AND CORRECTIVE ACTION PLAN TO OCD BY SEPTEMBER 2, 2017. A DELINEATION PLAN AND C-141 WAS SUBMITTED TO OCD ON SEPTEMBER 5, 2017. THE PLAN WAS APPROVED BY OCD ON SEPTEMBER 11, 2017 AND THE DELINEATION WORK WAS COMPLETED ON OCTOBER 23, 2017.

FOUR SOIL BORINGS WERE ADVANCED AROUND THE CURRENT EXCAVATION. NONE OF THE LAB RESULTS FROM THE SAMPLES COLLECTED EXCEED OCD STANDARDS. CONFIRMATION SAMPLING OF THE EXCAVATION SIDEWALLS AND BOTTOM WAS COMPLETED ON NOVEMBER 9, 2017 UNDER SUPERVISION OF OCD. NONE OF THE LAB RESULTS FROM THE SAMPLES COLLECTED EXCEED OCD STANDARDS. NO ADDITIONAL CLEANUP ACTION IS NECESSARY AT THIS SITE.

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

Signature: Aaron Galer	OIL CONSERVATION DIVISION

56

Printed Name: AARON GALER	Approved by Environmental Specialist:	
Title: ENVIRONMENTAL SPECIALIST	Approval Date: 12/7/2017	Expiration Date:
E-mail Address: AARON.GALER@WILLIAMS.COM	Conditions of Approval: —	Attached ☐
Date: NOVEMBER 30, 2017 Phone: 801-244-1219		

* Attach Additional Sheets If Necessary

NCS1724152886

LT Environmental, Inc.
141 East 2nd Avenue
Durango, Colorado 81301
970.385.1096

November 29, 2017

Ms. Vanessa Fields
Environmental Specialist
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

RE: Soil Boring Delineation and Excavation Confirmation Sampling Report
Trunk S Loop Pipeline
Williams Four Corners LLC
Rio Arriba County, New Mexico

Dear Ms. Fields:

LT Environmental, Inc. (LTE), on behalf of Williams Four Corners LLC (Williams), conducted a subsurface investigation consisting of soil borings and excavation confirmation soil sampling at the Trunk S Loop pipeline (Site) located in the southwest quarter of the southwest quarter of Section 13 within Township 29 North and Range 6 West in the San Juan Basin in Rio Arriba County, New Mexico (Figure 1).

Background

While conducting a right-of-way survey through an existing pipeline corridor, Williams personnel discovered an earthen depression suspected of being a historical operations pit with potentially hydrocarbon impacted soil. Williams reported the encountered impact to the Mew Mexico Oil Conservation Division (NMOCD) on an initial *C-141 Release Notification and Corrective Action Form*. Williams then excavated approximately 562 cubic yards of impacted soil and transported the soil for disposal to IEI landfill in Farmington, New Mexico, between June 27 and July 10, 2017.

Soil Sampling Activities and Results

Prior to collecting excavation sidewall confirmation soil samples, Williams conducted a subsurface soil investigation to determine if impacts extended beyond the current excavation. Four soil borings (SB01 through SB04) were advanced using hollow-stem auger drilling techniques. Soil boring locations are depicted on Figure 2. Soil samples were logged by an LTE geologist and described using the Unified Soil Classification System to delineate hydrocarbon impacts. The intervals from immediately beneath the ground surface and then every five feet thereafter were screened for volatile aromatic hydrocarbons using a photo-ionization detector (PID). Soil samples with the highest PID readings and a bottom hole sample were collected from each borehole. Samples were submitted under strict chain-of-custody to Hall Environmental Analysis Laboratory (Hall) of Albuquerque, New Mexico, for analysis of benzene, toluene, ethylbenzene, and total

xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method 8021B, and total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor oil range organics (MRO) by EPA Method 8015.

Soil samples collected from each boring were predominantly composed of light brown, fine grained sandstone. No visual staining, hydrocarbon odors, and/or elevated field screening results were observed in any of the samples logged, except in soil boring SB04 where some slight odor and elevated PID readings were observed from 10 feet to 32 feet below ground surface. The soil boring logs are included as Attachment 1.

Laboratory analytical results from the soil samples did not exhibit any BTEX or total TPH concentrations that exceeded NMOCD standards. Table 1 lists the laboratory results and the complete laboratory reports are included in Attachment 2.

Following receipt of the soil boring analytical results, it was determined that the extent of the impacts was defined laterally and vertically. As impacts were confined to the extent of the current excavation, confirmation soil samples were collected. A trackhoe excavator was used to collect 5-point composite soil samples from the sidewalls and base of the excavation under the supervision of the NMOCD. A total of six sidewall and two floor soil samples were collected and submitted to Hall for analysis of BTEX and total TPH. Sample locations are depicted on Figure 2. Excavation confirmation soil analytical results indicate that no BTEX or total TPH concentrations exceed NMOCD standards. Results are presented in Table 1 and complete laboratory analytical reports are included as Attachment 2.

Conclusions

Four soil borings were advanced around the current excavation to define the lateral and vertical extent of impacts. No impact to soil, as potentially evidenced by odor, discoloration, and/or elevated field screening results, was observed except in soil boring SB04. Laboratory analytical results indicated that the soil boring samples collected did not contain concentrations of BTEX or total TPH that exceed NMOCD standards. Groundwater was not encountered in any borehole.

Excavation confirmation soil samples were collected from the sidewalls and base of the current excavation extent. A total of six sidewall and two floor soil samples, each comprised of five sample aliquots, were collected by a trackhoe excavator in the presence of a NMOCD representative. Laboratory analytical results indicated that the confirmation soil samples collected did not contain concentrations of BTEX or total TPH that exceeded NMOCD standards.

As excavation confirmation soil samples do not exhibit any BTEX or total TPH concentrations that exceed NMOCD standards, Williams has successfully remediated the historical impacts to soil. Williams requests approval to backfill the excavation and that a No Further Action status be granted by the NMOCD for closure of this Site.

LTE appreciates the opportunity to provide this report to the NMOCD. If you have any questions or comments regarding this report, do not hesitate to contact us at (970) 385-1096 or via email at dburns@ltenv.com or aager@ltenv.com.

Sincerely,

LT ENVIRONMENTAL, INC.

Danny Burns
Project Geologist

Ashley Ager, P.G.
Senior Geologist

Attachments

Figure 1 – Site Location Map
Figure 2 – Site Map
Table 1 – Soil Analytical Results
Attachment 1 – Soil Boring Logs
Attachment 2 – Laboratory Analytical Reports

FIGURES

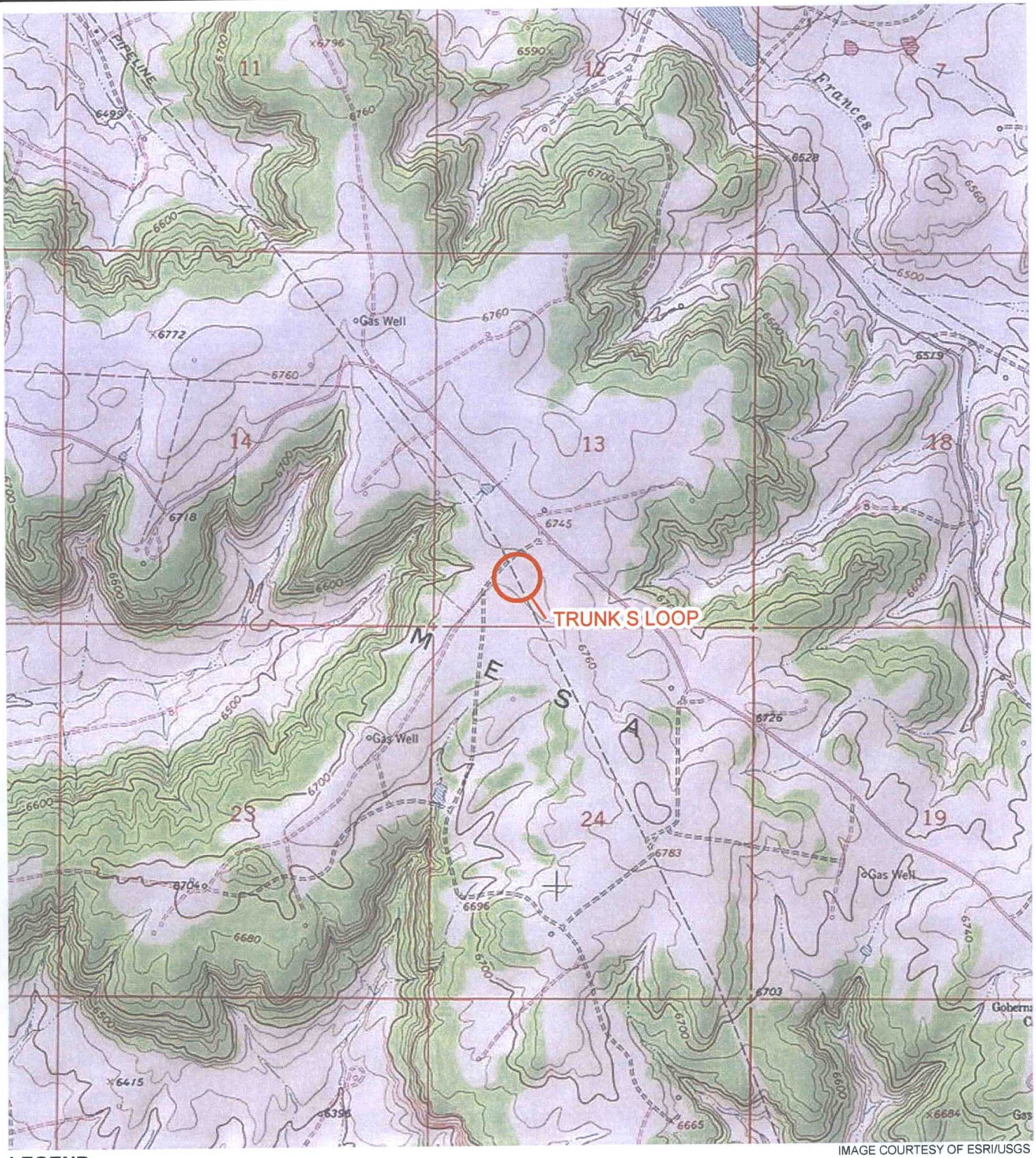


IMAGE COURTESY OF ESRI/USGS

LEGEND

SITE LOCATION

0 2,000 4,000

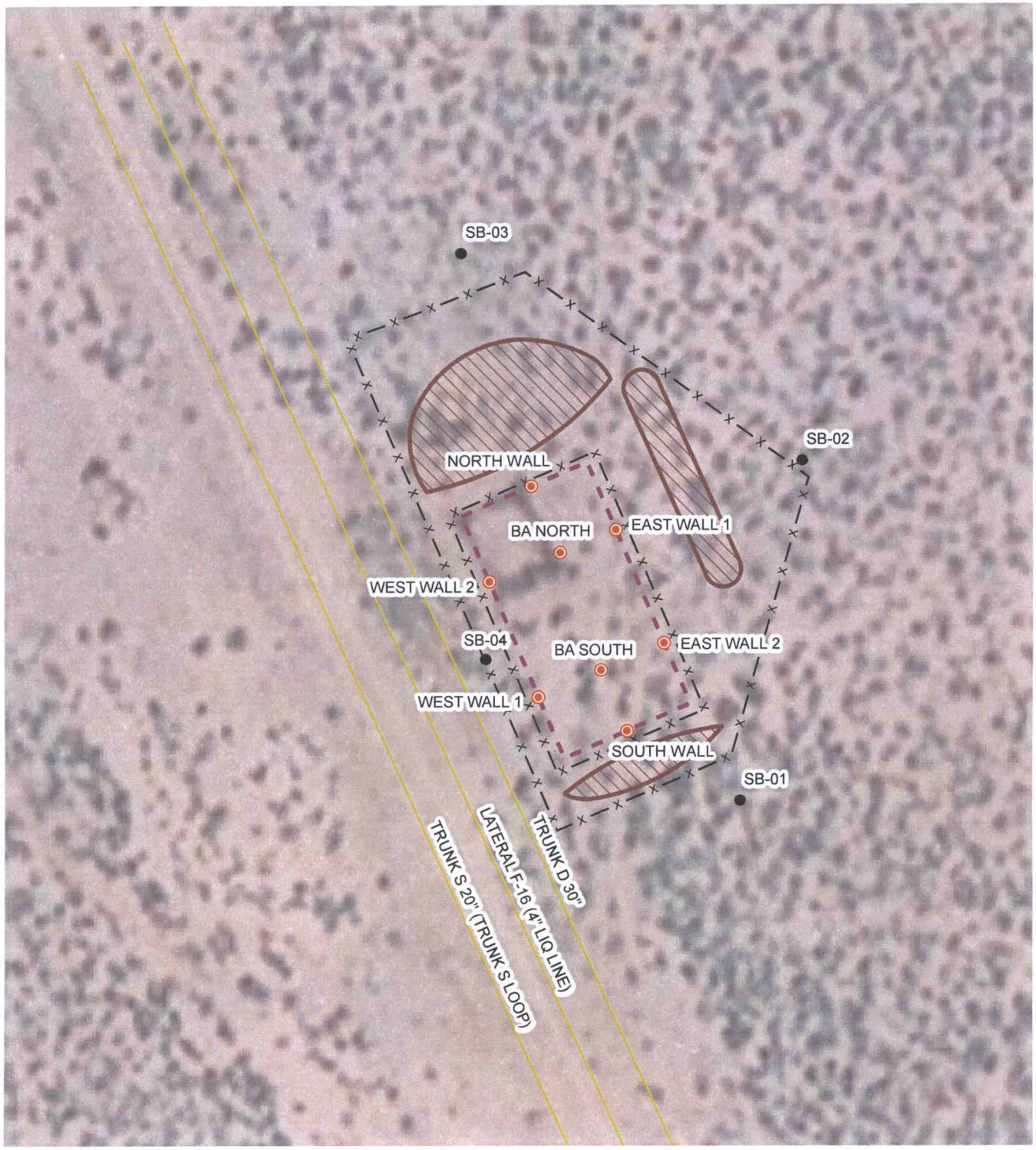
Feet

N

FIGURE 1
SITE LOCATION MAP
TRUNK S LOOP
RIO ARRIBA COUNTY, NEW MEXICO

WILLIAMS FOUR CORNERS LLC

P:\Williams Four Corners\GIS\MXD\034017012_TRUNK S LOOP\034017012_TRUNK S LOOP_FIG01_SL.mxd



LEGEND

IMAGE COURTESY OF ESRI

- CONFIRMATION SOIL SAMPLE
- SOIL BORING
- ESTIMATED PIPELINE LOCATION
- FENCE
- ESTIMATED EXCAVATION EXTENT
- SPOIL PILE

0 30 60

Feet

N

FIGURE 2
SITE MAP
TRUNK S LOOP
RIO ARRIBA COUNTY, NEW MEXICO

WILLIAMS FOUR CORNERS, LLC

P:\Williams Four Corners\GIS\MXD\034017012_TRUNK S LOOP\034017012_TRUNK S LOOP_FIG02_SITE_171108.mxd

TABLE

TABLE 1
SOIL ANALYTICAL RESULTS

TRUNK S LOOP
RIO ARRIBA COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC

Sample ID	Sample Date	Vapor (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)
Soil Boring - Delineation Samples											
SB01 @ 5'	10/23/2017	19.8	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.9	<49	<63.6
SB01 @ 20'	10/23/2017	8.3	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.4	<47	<61.2
SB02 @ 5'	10/23/2017	7.5	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<10	<50	<64.7
SB02 @ 15'	10/23/2017	5.5	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	13	<48	13
SB03 @ 10'	10/23/2017	9.4	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.8	<49	<63.5
SB03 @ 15'	10/23/2017	8.9	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	12	<50	12
SB04 @ 10'	10/26/2017	1,297	<0.12	1.5	0.95	12	14.45	270	53	72	395
SB04 @ 30'	10/26/2017	1,130	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.7	<48	<62.5
Excavation Confirmation Samples											
BA North	11/9/2017	1,953	<0.12	1.7	0.67	10	12.37	250	93	130	473
BA South	11/9/2017	1,924	<0.12	1.7	0.55	7.3	9.55	190	230	220	640
South Wall	11/9/2017	215	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.2	<46	<59.9
North Wall	11/9/2017	454	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	19	<47	19
East Wall 1 (North)	11/9/2017	15	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<10	<51	<65.8
East Wall 2 (South)	11/9/2017	243	<0.12	1.1	0.27	5.1	6.47	110	23	<50	133
West Wall 1 (South)	11/9/2017	1,359	<0.024	0.2	0.11	2.1	2.41	31	59	350	440
West Wall 2 (North)	11/9/2017	755	<0.12	0.24	<0.23	2.5	2.74	210	77	420	707
NMOCD Closure Criteria			**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**1,000**

NOTES:

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes analyzed by EPA method 8021B

DRO - diesel range organics analyzed by EPA Modified Method 8015M/D

GRO - gasoline range organics analyzed by EPA Modified Method 8015D

mg/kg - milligrams per kilogram

MRO - motor oil range organics analyzed by EPA Modified Method 8015M/D

NMOCD - New Mexico Oil Conservation Division ppm - parts per million

ND - Not Detected

NE - not established

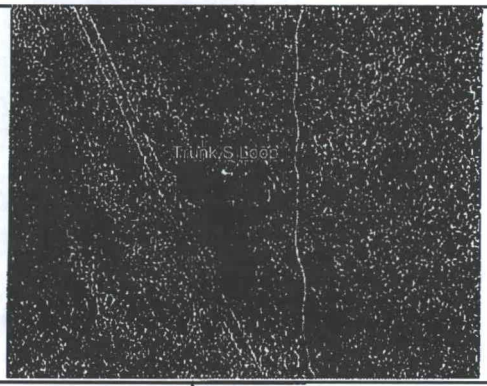
TPH- total petroleum hydrocarbons

< - indicates result is less than the stated laboratory reporting limit

BOLD indicates result exceeds applicable standard

ATTACHMENT 1

SOIL BORING LOGS



Compliance » Engineering » Remediation
LT Environmental, Inc.
848 E. 2nd Ave
Durango, Colorado 81301

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

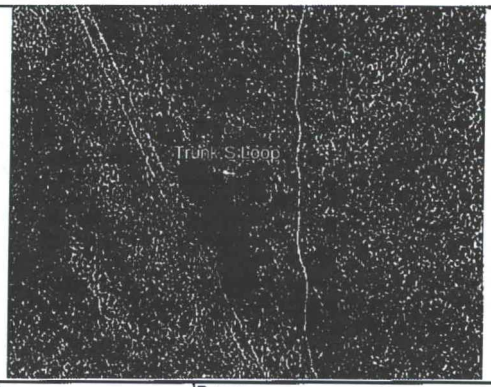
Boring/Well Number: SB-01	Project: Trunk S Loop
Date: 10/23/17	Project Number: 034017012
Logged By: Eric Carroll ~~Daniel Burns~~	Drilled By: Geomat Engineering
Elevation:	Detector: PID
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: ~~10-20 Silica Sand~~	Seal: ~~Bentonite Chips~~
Grout: ~~Bentonite Slurry~~	
Casing Type: Schedule 40 PVC	Diameter: 2" Length: NA
Hole Diameter: 2"	Depth to Liquid: NA
Screen Type: Schedule 40 PVC	Slot: 0.010" Diameter: 2" Length: NA
Total Depth: 30'	Depth to Water: NA

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry	0.0	NO		0	1	100 %	SM-SW	med/fn Sand, some silt, lt brown No staining/odor	
	Dry	19.8	NO		5			SM/SW	lt brownish red, med/fn sand, some silt, NO staining/odor	
					7				Switched to split spoon due to hard soil.	
	Dry	16.8	NO		11	2	1.5'	SM/SW	lt. brown, fn sand, trace silt No stain/odor	

Compliance ▪ Engineering ▪ Remediation
LT Environmental, Inc.

Boring/Well #	
Project:	Trunk S Loop
Project #	034017012
Date	

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
	DRY	14.9	NO		15 16 17	3	1.5'	SM/SW	lt brown, fn sand, trace silt No staining/odor	
	DRY	8.3	NO		18 19 20 21 22	4	3'		lt brown, fn sand, trace silt/clay No staining/odor	
					23 24 25 26 27 28 29 30 31 32 33 34 35 36 37				Stopped due to Resistance	



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Compliance « Engineering « Remediation
LT Environmental, Inc.
848 E. 2nd Ave
Durango, Colorado 81301

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB-02	Project: Trunk S Loop
Date: 10/23/2017	Project Number: 034017012
Logged By: Eric Carroll ~~Daniel Burns~~	Drilled By: Geomat Engineering
Elevation:	Detector: PID
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: ~~10-20 Silica Sand~~	Seal: ~~Bentonite Chips~~
Grout: Bentonite Slurry	
Casing Type: ~~Schedule 40~~ PVC	Diameter: 2" Length: NA
Hole Diameter: 2"	Depth to Liquid: NA
Screen Type: ~~Schedule 40 PVC~~ Slot: 0.010"	Diameter: 2" Length: NA
Total Depth: 15'	Depth to Water: NA

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
	DRY	0.0	NO		0			SM/SW	lt brown, med fn sand, some silt organic material	
					1				NO staining/odor	
					2	1				
					3					
					4					
	DRY	7.5	NO		5			SM/SW	lt brown fn sand, some silt	
									NO staining/odor	
					6					
					7				Switched to SS due to hard soil	
					8					
					9					
					10					
	DRY	5.8	NO		11	2		SM/SW	lt brown some rust, fn sand trace silt	
					12				NO staining/odor	
					13					
					14					
					15					

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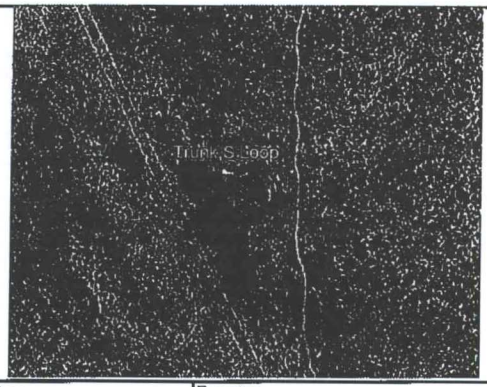
LT Environmental, Inc.

Boring/Well #	
Project:	Trunk S Loop
Project #	034017012
Date	

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
	DRY	5.5	NO		15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	3			very lt. brown fn sand, gravel NO staining / odor Stopped due to Resistance	



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LT Environmental, Inc.
848 E. 2nd Ave
Durango, Colorado 81301

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB-03		Project: Trunk S Loop	
Date: 10/23/19		Project Number: 034017012	
Logged By: Eric Carroll ~~Daniel Burns~~		Drilled By: Geomat Engineering	
Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand		Seal: Bentonite Chips	Grout: Bentonite Slurry
Casing Type: Schedule 40 PVC		Diameter: 2" Length:	Hole Diameter: / Depth to Liquid:
Screen Type: Schedule 40 PVC	Slot: 0.010"	Diameter: 2" Length:	Total Depth: / Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry	0.0	NO		0	1			lt. brown med/fn Sand trace silt NO Stain/odor some organic material	
					1					
					2					
					3					
					4					
	DRY	2.5	NO		5				lt. brown fn sand, trace silt NO stain/odor	
					6				Switch to SS	
					7					
					8					
					9					
					10	2				
	DRY	9.4	NO		11				lt brown some rust, fn sand trace silt NO Stain/odor	
					12					
					13					
					14					
					15					

Compliance ▪ Engineering ▪ Remediation
LT Environmental, Inc.

Boring/Well #	
Project:	Trunk S Loop
Project #	034017012
Date	

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry	8.9	NO		15	3		SW/ SM	lt. brown fn sand trace silt	
					16				NO Stain/odor	
					17					
					18				Stopped due to Resistance	
					19					
					20					
					21					
					22					
					23					
					24					
					25					
					26					
					27					
					28					
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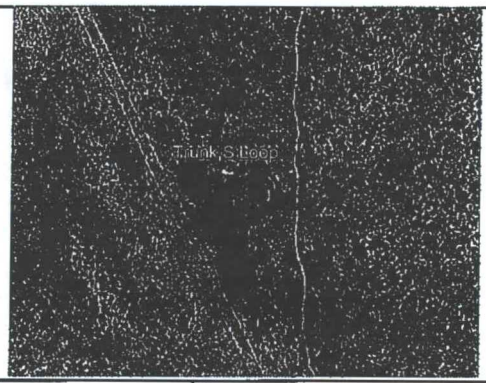
					30					
					31					
					32					
					33					
					34					
					35					
					36					
					37					



Compliance » Engineering » Remediation
LT Environmental, Inc.
848 E. 2nd Ave
Durango, Colorado 81301

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB-04	Project: Trunk S Loop
Date: 10/26/17	Project Number: 034017012
Logged By: Eric Carroll ~~Daniel Burns~~	Drilled By: Geomat Engineering
Elevation:	Detector: PID
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: ~~10-20 Silica Sand~~	Seal: Bentonite Chips
Grout: Bentonite Slurry	
Casing Type: ~~Schedule 40 PVC~~	Diameter: 2" Length: NA
Hole Diameter:	Depth to Liquid:
Screen Type: ~~Schedule 40 PVC~~	Slot: 0.010" Diameter: 2" Length: NA
Total Depth:	Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry	0.0	NO		0				lt red brown, med/fn sand, some silt	
					1			SM-SW	No stain / odor	
					2					
					3	1				
					4					
	DRY	1.9	NO		5			SM-SW	lt brown, fn sand, trace silt No stain/odor	
					6					
					7				Switched to split spoon	
					8					
					9					
					10					
					11	2	3'	SM-SW	lt brown, fn sand, trace silt	
	DRY	1297	NO		12				Slight odor No staining	
					13					
					14					
					15					

Compliance » Engineering » Remediation
LT Environmental, Inc.

Boring/Well #	
Project:	Trunk S Loop
Project #	034017012
Date	

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
	DRY	1076	NO		15				It brown, fn sand, trace silt	
					16	3	1'		Strong odor NO Staining	
					17					
					18					
					19					
					20					
									Brown, fn sand, trace silt	
	DRY	1237	NO		21	4	2'		Slight odor NO staining	
					22					
					23					
					24					
					25					
									It brown, fn sand, w/gravel	
	DRY	182.9	NO		26	5	2'		Odor NO Staining	
					27					
					28					
					29					
					30					
									It brown fine sand w/ gravel	
	DRY	1130	NO		31	6			NO Staining, Strong odor	
					32					
					33					
									Stopped due to refusal	
					34					
					35					
					36					
					37					

ATTACHMENT 2

LABORATORY ANALYTICAL REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 02, 2017

Aaron Galer
Williams Four Corners
188 CR 4900
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: Trunk S Deliniation

OrderNo.: 1710D06

Dear Aaron Galer:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/25/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1710D06**
Date Reported: **11/2/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunk S Deliniation
Lab ID: 1710D06-001 **Matrix:** SOIL

Client Sample ID: SB-01@5'
Collection Date: 10/23/2017 10:40:00 AM
Received Date: 10/25/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/30/2017 10:31:46 PM	34670
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/30/2017 10:31:46 PM	34670
Surr: DNOP	78.2	70-130		%Rec	1	10/30/2017 10:31:46 PM	34670
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2017 1:15:06 AM	34651
Surr: BFB	84.9	15-316		%Rec	1	10/28/2017 1:15:06 AM	34651
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	10/28/2017 1:15:06 AM	34651
Toluene	ND	0.047		mg/Kg	1	10/28/2017 1:15:06 AM	34651
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2017 1:15:06 AM	34651
Xylenes, Total	ND	0.094		mg/Kg	1	10/28/2017 1:15:06 AM	34651
Surr: 4-Bromofluorobenzene	96.8	80-120		%Rec	1	10/28/2017 1:15:06 AM	34651

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunk S Deliniation
Lab ID: 1710D06-002 **Matrix:** SOIL

Client Sample ID: SB-01@20'
Collection Date: 10/23/2017 11:00:00 AM
Received Date: 10/25/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/30/2017 11:37:47 PM	34670
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/30/2017 11:37:47 PM	34670
Surr: DNOP	70.2	70-130		%Rec	1	10/30/2017 11:37:47 PM	34670
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2017 10:45:00 AM	34651
Surr: BFB	84.0	15-316		%Rec	1	10/28/2017 10:45:00 AM	34651
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2017 10:45:00 AM	34651
Toluene	ND	0.048		mg/Kg	1	10/28/2017 10:45:00 AM	34651
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2017 10:45:00 AM	34651
Xylenes, Total	ND	0.096		mg/Kg	1	10/28/2017 10:45:00 AM	34651
Surr: 4-Bromofluorobenzene	96.5	80-120		%Rec	1	10/28/2017 10:45:00 AM	34651

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunk S Deliniation
Lab ID: 1710D06-003 **Matrix:** SOIL

Client Sample ID: SB-02@5'
Collection Date: 10/23/2017 11:20:00 AM
Received Date: 10/25/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/30/2017 11:59:37 PM	34670
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/30/2017 11:59:37 PM	34670
Surr: DNOP	71.3	70-130		%Rec	1	10/30/2017 11:59:37 PM	34670
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2017 12:42:18 PM	34651
Surr: BFB	84.2	15-316		%Rec	1	10/28/2017 12:42:18 PM	34651
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2017 12:42:18 PM	34651
Toluene	ND	0.047		mg/Kg	1	10/28/2017 12:42:18 PM	34651
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2017 12:42:18 PM	34651
Xylenes, Total	ND	0.094		mg/Kg	1	10/28/2017 12:42:18 PM	34651
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	1	10/28/2017 12:42:18 PM	34651

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunk S Deliniation
Lab ID: 1710D06-004 **Matrix:** SOIL

Client Sample ID: SB-02@15'
Collection Date: 10/23/2017 11:45:00 AM
Received Date: 10/25/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	13	9.7		mg/Kg	1	10/31/2017 12:21:33 AM	34670
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/31/2017 12:21:33 AM	34670
Surr: DNOP	77.4	70-130		%Rec	1	10/31/2017 12:21:33 AM	34670
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2017 1:05:43 PM	34651
Surr: BFB	85.4	15-316		%Rec	1	10/28/2017 1:05:43 PM	34651
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2017 1:05:43 PM	34651
Toluene	ND	0.048		mg/Kg	1	10/28/2017 1:05:43 PM	34651
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2017 1:05:43 PM	34651
Xylenes, Total	ND	0.097		mg/Kg	1	10/28/2017 1:05:43 PM	34651
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	10/28/2017 1:05:43 PM	34651

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunk S Deliniation
Lab ID: 1710D06-005 **Matrix:** SOIL

Client Sample ID: SB-03@10'
Collection Date: 10/23/2017 12:10:00 PM
Received Date: 10/25/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/31/2017 12:43:21 AM	34670
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/31/2017 12:43:21 AM	34670
Surr: DNOP	72.0	70-130		%Rec	1	10/31/2017 12:43:21 AM	34670
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2017 1:29:10 PM	34651
Surr: BFB	82.8	15-316		%Rec	1	10/28/2017 1:29:10 PM	34651
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	10/28/2017 1:29:10 PM	34651
Toluene	ND	0.047		mg/Kg	1	10/28/2017 1:29:10 PM	34651
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2017 1:29:10 PM	34651
Xylenes, Total	ND	0.094		mg/Kg	1	10/28/2017 1:29:10 PM	34651
Surr: 4-Bromofluorobenzene	93.3	80-120		%Rec	1	10/28/2017 1:29:10 PM	34651

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunk S Deliniation
Lab ID: 1710D06-006
Matrix: SOIL
Client Sample ID: SB-03@15'
Collection Date: 10/23/2017 12:30:00 PM
Received Date: 10/25/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	12	10		mg/Kg	1	10/31/2017 1:05:16 AM	34670
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/31/2017 1:05:16 AM	34670
Surr: DNOP	80.3	70-130		%Rec	1	10/31/2017 1:05:16 AM	34670
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2017 1:52:34 PM	34651
Surr: BFB	82.8	15-316		%Rec	1	10/28/2017 1:52:34 PM	34651
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2017 1:52:34 PM	34651
Toluene	ND	0.049		mg/Kg	1	10/28/2017 1:52:34 PM	34651
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2017 1:52:34 PM	34651
Xylenes, Total	ND	0.097		mg/Kg	1	10/28/2017 1:52:34 PM	34651
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	10/28/2017 1:52:34 PM	34651

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1710D06**

02-Nov-17

Client: Williams Four Corners

Project: Trunk S Deliniation

Sample ID **LCS-34670**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **34670**	RunNo: **46727**
Prep Date: **10/27/2017**	Analysis Date: **10/30/2017**	SeqNo: **1489124** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.7	73.2	114			
Surr: DNOP	4.4		5.000		87.5	70	130			

Sample ID **MB-34670**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **34670**	RunNo: **46727**
Prep Date: **10/27/2017**	Analysis Date: **10/30/2017**	SeqNo: **1489125** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.8	70	130			

Sample ID **1710D06-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-01@5'**	Batch ID: **34670**	RunNo: **46727**
Prep Date: **10/27/2017**	Analysis Date: **10/30/2017**	SeqNo: **1490579** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.9	49.60	0	101	55.8	122			
Surr: DNOP	3.7		4.960		75.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1710D06**

02-Nov-17

Client: Williams Four Corners

Project: Trunk S Deliniation

Sample ID **MB-34651**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488208** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.2	15	316			

Sample ID **LCS-34651**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488209** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	75.9	131			
Surr: BFB	990		1000		99.0	15	316			

Sample ID **1710D06-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SB-01@20'**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488210** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.7	23.28	0	125	77.8	128			
Surr: BFB	930		931.1		99.9	15	316			

Sample ID **1710D06-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SB-01@20'**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488211** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	23.97	0	112	77.8	128	7.80	20	
Surr: BFB	960		958.8		100	15	316	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1710D06**

02-Nov-17

Client: Williams Four Corners

Project: Trunk S Deliniation

Sample ID **MB-34651**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488248** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	80	120			

Sample ID **LCS-34651**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488249** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.6	77.3	128			
Toluene	0.97	0.050	1.000	0	96.7	79.2	125			
Ethylbenzene	0.95	0.050	1.000	0	94.7	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	96.2	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID **1710D06-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-01@5'**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488251** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.023	0.9381	0	103	80.9	132			
Toluene	0.98	0.047	0.9381	0.007591	104	79.8	136			
Ethylbenzene	0.97	0.047	0.9381	0	104	79.4	140			
Xylenes, Total	3.0	0.094	2.814	0	106	78.5	142			
Surr: 4-Bromofluorobenzene	0.93		0.9381		99.1	80	120			

Sample ID **1710D06-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-01@5'**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488252** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9911	0	100	80.9	132	2.40	20	
Toluene	1.0	0.050	0.9911	0.007591	100	79.8	136	2.15	20	
Ethylbenzene	1.0	0.050	0.9911	0	101	79.4	140	2.26	20	
Xylenes, Total	3.0	0.099	2.973	0	101	78.5	142	0.852	20	
Surr: 4-Bromofluorobenzene	0.98		0.9911		99.4	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FOUR CORN Work Order Number: 1710D06 RcptNo: 1

Received By: Sophia Campuzano 10/25/2017 8:00:00 AM Sophia Campuzano

Completed By: Erin Melendrez 10/25/2017 9:09:08 AM

Reviewed By: 10/25/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

Chain-of-Custody Record

Client: Williams Four Corners
-Attn: Aaron Galer
Mailing Address: 295 Chipeta Way
Salt Lake City, Ut 84108
Phone #: 801-584-6746
email or Fax#: aaron.galer@williams.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☒ EDD (Type) PDF

Turn-Around Time:
☒ Standard ☐ Rush
Project Name:
Trunk S Deliniation
Project #: Williams : A. Galer
LTE : D. Burns
Project Manager:
Sampler: Eric Carroll
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.4 +0.5(cf) = 1.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1710D06	Analysis Request: BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
10/23	10:46	S	SB-01@5'	1-4oz	Cool	-001	X		X									
	11:06		SB-01@20'			-002	X		X									
	11:26		SB-02@5'			-003	X		X									
	11:45		SB-02@15'			-004	X		X									
	12:10		SB-03@10'			-005	X		X									
	12:30		SB-03@15'			-006	X		X									

Date:	Time:	Relinquished by:	Received by:	Date	Time
10/24/17	13:30			10/24/17	1330
10/24/17	1921			10/25/17	0800

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
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November 06, 2017

Aaron Galer
Williams Four Corners
188 CR 4900
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: Trunks OrderNo.: 1710F89

Dear Aaron Galer:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/31/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1710F89**
Date Reported: **11/6/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunks
Lab ID: 1710F89-001 **Matrix:** SOIL

Client Sample ID: SB-04 10'
Collection Date: 10/26/2017 11:15:00 AM
Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	53	9.5		mg/Kg	1	11/3/2017 7:52:27 PM	34780
Motor Oil Range Organics (MRO)	72	48		mg/Kg	1	11/3/2017 7:52:27 PM	34780
Surr: DNOP	95.9	70-130		%Rec	1	11/3/2017 7:52:27 PM	34780
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	270	24		mg/Kg	5	11/2/2017 9:19:16 AM	34737
Surr: BFB	251	15-316		%Rec	5	11/2/2017 9:19:16 AM	34737
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.48		mg/Kg	5	11/2/2017 9:19:16 AM	34737
Benzene	ND	0.12		mg/Kg	5	11/2/2017 9:19:16 AM	34737
Toluene	1.5	0.24		mg/Kg	5	11/2/2017 9:19:16 AM	34737
Ethylbenzene	0.95	0.24		mg/Kg	5	11/2/2017 9:19:16 AM	34737
Xylenes, Total	12	0.48		mg/Kg	5	11/2/2017 9:19:16 AM	34737
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	5	11/2/2017 9:19:16 AM	34737

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunks
Lab ID: 1710F89-002 **Matrix:** SOIL

Client Sample ID: SB-04 30'
Collection Date: 10/26/2017 11:30:00 AM
Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/3/2017 8:58:56 PM	34780
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2017 8:58:56 PM	34780
Surr: DNOP	91.3	70-130		%Rec	1	11/3/2017 8:58:56 PM	34780
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/2/2017 10:29:45 AM	34737
Surr: BFB	84.1	15-316		%Rec	1	11/2/2017 10:29:45 AM	34737
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	11/2/2017 10:29:45 AM	34737
Benzene	ND	0.024		mg/Kg	1	11/2/2017 10:29:45 AM	34737
Toluene	ND	0.048		mg/Kg	1	11/2/2017 10:29:45 AM	34737
Ethylbenzene	ND	0.048		mg/Kg	1	11/2/2017 10:29:45 AM	34737
Xylenes, Total	ND	0.096		mg/Kg	1	11/2/2017 10:29:45 AM	34737
Surr: 4-Bromofluorobenzene	89.5	80-120		%Rec	1	11/2/2017 10:29:45 AM	34737

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1710F89**

06-Nov-17

Client: Williams Four Corners

Project: Trunks

Sample ID **LCS-34793** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **34793** RunNo: **46863**
Prep Date: **11/3/2017** Analysis Date: **11/3/2017** SeqNo: **1494698** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.7	70	130			

Sample ID **MB-34780** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **34780** RunNo: **46863**
Prep Date: **11/2/2017** Analysis Date: **11/3/2017** SeqNo: **1494699** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		79.8	70	130			

Sample ID **MB-34793** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **34793** RunNo: **46863**
Prep Date: **11/3/2017** Analysis Date: **11/3/2017** SeqNo: **1494700** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.0		10.00		80.3	70	130			

Sample ID **LCS-34780** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **34780** RunNo: **46863**
Prep Date: **11/2/2017** Analysis Date: **11/3/2017** SeqNo: **1494944** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.1	73.2	114			
Surr: DNOP	4.4		5.000		88.4	70	130			

Sample ID **1710F89-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-04 10'** Batch ID: **34780** RunNo: **46864**
Prep Date: **11/2/2017** Analysis Date: **11/3/2017** SeqNo: **1495917** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	9.8	48.92	53.35	115	55.8	122			
Surr: DNOP	4.8		4.892		97.5	70	130			

Sample ID **1710F89-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-04 10'** Batch ID: **34780** RunNo: **46864**
Prep Date: **11/2/2017** Analysis Date: **11/3/2017** SeqNo: **1495918** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	9.1	45.62	53.35	122	55.8	122	0.788	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1710F89**

06-Nov-17

Client: Williams Four Corners

Project: Trunks

Sample ID	**1710F89-001AMSD**	SampType: **MSD**		TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**SB-04 10'**	Batch ID: **34780**		RunNo: **46864**					
Prep Date:	**11/2/2017**	Analysis Date: **11/3/2017**		SeqNo: **1495918**	Units: **mg/Kg**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		4.562		99.9	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1710F89**

06-Nov-17

Client: Williams Four Corners

Project: Trunks

Sample ID **MB-34737**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **34737**	RunNo: **46837**
Prep Date: **11/1/2017**	Analysis Date: **11/2/2017**	SeqNo: **1493970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.2	15	316			

Sample ID **LCS-34737**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **34737**	RunNo: **46837**
Prep Date: **11/1/2017**	Analysis Date: **11/2/2017**	SeqNo: **1493971** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.5	75.9	131			
Surr: BFB	920		1000		91.6	15	316			

Sample ID **1710F89-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SB-04 30'**	Batch ID: **34737**	RunNo: **46837**
Prep Date: **11/1/2017**	Analysis Date: **11/2/2017**	SeqNo: **1493976** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.6	22.91	2.334	120	77.8	128			
Surr: BFB	930		916.6		101	15	316			

Sample ID **1710F89-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SB-04 30'**	Batch ID: **34737**	RunNo: **46837**
Prep Date: **11/1/2017**	Analysis Date: **11/2/2017**	SeqNo: **1493977** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.9	24.34	2.334	123	77.8	128	7.81	20	
Surr: BFB	1000		973.7		104	15	316	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1710F89**

06-Nov-17

Client: Williams Four Corners

Project: Trunks

Sample ID **MB-34737**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **34737**	RunNo: **46837**
Prep Date: **11/1/2017**	Analysis Date: **11/2/2017**	SeqNo: **1494090** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	80	120			

Sample ID **LCS-34737**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **34737**	RunNo: **46837**
Prep Date: **11/1/2017**	Analysis Date: **11/2/2017**	SeqNo: **1494091** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.85	0.10	1.000	0	85.3	70.1	121			
Benzene	0.93	0.025	1.000	0	92.9	77.3	128			
Toluene	0.93	0.050	1.000	0	93.1	79.2	125			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.4	81.6	129			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	80	120			

Sample ID **1710F89-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-04 10'**	Batch ID: **34737**	RunNo: **46837**
Prep Date: **11/1/2017**	Analysis Date: **11/2/2017**	SeqNo: **1494096** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.88	0.47	0.9398	0	93.6	72.5	138			
Benzene	0.95	0.12	0.9398	0.08729	92.2	80.9	132			
Toluene	2.1	0.23	0.9398	1.507	65.2	79.8	136			S
Ethylbenzene	1.7	0.23	0.9398	0.9549	77.8	79.4	140			S
Xylenes, Total	12	0.47	2.820	11.94	4.22	78.5	142			S
Surr: 4-Bromofluorobenzene	4.7		4.699		99.6	80	120			

Sample ID **1710F89-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-04 10'**	Batch ID: **34737**	RunNo: **46837**
Prep Date: **11/1/2017**	Analysis Date: **11/2/2017**	SeqNo: **1494097** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.89	0.49	0.9756	0	91.6	72.5	138	1.47	20	
Benzene	0.99	0.12	0.9756	0.08729	92.2	80.9	132	3.44	20	
Toluene	2.3	0.24	0.9756	1.507	78.3	79.8	136	6.87	20	S
Ethylbenzene	1.8	0.24	0.9756	0.9549	81.8	79.4	140	3.87	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1710F89**

06-Nov-17

Client: Williams Four Corners

Project: Trunks

Sample ID **1710F89-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-04 10'**	Batch ID: **34737**	RunNo: **46837**
Prep Date: **11/1/2017**	Analysis Date: **11/2/2017**	SeqNo: **1494097** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	13	0.49	2.927	11.94	32.1	78.5	142	6.58	20	S
Surr: 4-Bromofluorobenzene	4.9		4.878		100	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FOUR CORN Work Order Number: 1710F89 RcptNo: 1

Received By: Richie Eriacho 10/31/2017 8:15:00 AM RL

Completed By: Richie Eriacho 10/31/2017 2:14:15 PM RL

Reviewed By: RL/ENM 10/31/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				

Chain-of-Custody Record

Client: Williams Four Corners

Aaron Gaier

Mailing Address:

Phone #:

email or Fax#: aaron.gaier@williams.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☒ EDD (Type) PDF

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Trunk S

Project #: 03401701 2

Project Manager: Williams: Aaron Gaier
LTE: Danny Burns

Sampler: Eric Carroll

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 710589	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
10/26/17	11:15	S	SB-04 10'	1 4oz	None	-001	X		X													
10/26/17	11:30	S	SB-04 30'	1 4oz	↓	-002	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
10/30/17	18:20	Eric Carroll	Chad Walt	10/30/17	1820
10/30/17	2040	Chad Walt		10/31/17	0815

Remarks: CC to: dburns@ltenv.com
aager@ltenv.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 17, 2017

Aaron Galer
Williams Four Corners
188 CR 4900
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: Trunks Loop OrderNo.: 1711606

Dear Aaron Galer:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/10/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1711606**
Date Reported: **11/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunks Loop
Lab ID: 1711606-001 **Matrix:** SOIL

Client Sample ID: BA North
Collection Date: 11/9/2017
Received Date: 11/10/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	93	10		mg/Kg	1	11/15/2017 4:07:36 PM	34988
Motor Oil Range Organics (MRO)	130	50		mg/Kg	1	11/15/2017 4:07:36 PM	34988
Surr: DNOP	90.6	70-130		%Rec	1	11/15/2017 4:07:36 PM	34988
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	250	23		mg/Kg	5	11/13/2017 8:55:27 PM	34944
Surr: BFB	232	15-316		%Rec	5	11/13/2017 8:55:27 PM	34944
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.47		mg/Kg	5	11/13/2017 8:55:27 PM	34944
Benzene	ND	0.12		mg/Kg	5	11/13/2017 8:55:27 PM	34944
Toluene	1.7	0.23		mg/Kg	5	11/13/2017 8:55:27 PM	34944
Ethylbenzene	0.67	0.23		mg/Kg	5	11/13/2017 8:55:27 PM	34944
Xylenes, Total	10	0.47		mg/Kg	5	11/13/2017 8:55:27 PM	34944
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	5	11/13/2017 8:55:27 PM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunks Loop
Lab ID: 1711606-002 **Matrix:** SOIL

Client Sample ID: BA South
Collection Date: 11/9/2017 10:40:00 AM
Received Date: 11/10/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	230	9.7		mg/Kg	1	11/15/2017 4:29:35 PM	34988
Motor Oil Range Organics (MRO)	220	48		mg/Kg	1	11/15/2017 4:29:35 PM	34988
Surr: DNOP	100	70-130		%Rec	1	11/15/2017 4:29:35 PM	34988
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	190	24		mg/Kg	5	11/14/2017 3:40:37 PM	34944
Surr: BFB	214	15-316		%Rec	5	11/14/2017 3:40:37 PM	34944
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.49		mg/Kg	5	11/14/2017 3:40:37 PM	34944
Benzene	ND	0.12		mg/Kg	5	11/14/2017 3:40:37 PM	34944
Toluene	1.7	0.24		mg/Kg	5	11/14/2017 3:40:37 PM	34944
Ethylbenzene	0.55	0.24		mg/Kg	5	11/14/2017 3:40:37 PM	34944
Xylenes, Total	7.3	0.49		mg/Kg	5	11/14/2017 3:40:37 PM	34944
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	5	11/14/2017 3:40:37 PM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunks Loop
Lab ID: 1711606-003 **Matrix:** SOIL

Client Sample ID: S Wall
Collection Date: 11/9/2017 11:00:00 AM
Received Date: 11/10/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/15/2017 4:51:34 PM	34988
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/15/2017 4:51:34 PM	34988
Surr: DNOP	81.9	70-130		%Rec	1	11/15/2017 4:51:34 PM	34988
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/13/2017 9:42:24 PM	34944
Surr: BFB	91.5	15-316		%Rec	1	11/13/2017 9:42:24 PM	34944
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	11/13/2017 9:42:24 PM	34944
Benzene	ND	0.024		mg/Kg	1	11/13/2017 9:42:24 PM	34944
Toluene	ND	0.047		mg/Kg	1	11/13/2017 9:42:24 PM	34944
Ethylbenzene	ND	0.047		mg/Kg	1	11/13/2017 9:42:24 PM	34944
Xylenes, Total	ND	0.095		mg/Kg	1	11/13/2017 9:42:24 PM	34944
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	11/13/2017 9:42:24 PM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunks Loop
Lab ID: 1711606-004 **Matrix:** SOIL

Client Sample ID: N Wall
Collection Date: 11/9/2017 11:20:00 AM
Received Date: 11/10/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	19	9.5		mg/Kg	1	11/15/2017 5:13:46 PM	34988
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2017 5:13:46 PM	34988
Surr: DNOP	90.5	70-130		%Rec	1	11/15/2017 5:13:46 PM	34988
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/13/2017 10:05:47 PM	34944
Surr: BFB	103	15-316		%Rec	1	11/13/2017 10:05:47 PM	34944
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	11/13/2017 10:05:47 PM	34944
Benzene	ND	0.024		mg/Kg	1	11/13/2017 10:05:47 PM	34944
Toluene	ND	0.048		mg/Kg	1	11/13/2017 10:05:47 PM	34944
Ethylbenzene	ND	0.048		mg/Kg	1	11/13/2017 10:05:47 PM	34944
Xylenes, Total	ND	0.096		mg/Kg	1	11/13/2017 10:05:47 PM	34944
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	11/13/2017 10:05:47 PM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunks Loop
Lab ID: 1711606-005 **Matrix:** SOIL

Client Sample ID: E Wall 1
Collection Date: 11/9/2017 11:30:00 AM
Received Date: 11/10/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/15/2017 5:35:56 PM	34988
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	11/15/2017 5:35:56 PM	34988
Surr: DNOP	78.7	70-130		%Rec	1	11/15/2017 5:35:56 PM	34988
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/13/2017 10:29:07 PM	34944
Surr: BFB	95.6	15-316		%Rec	1	11/13/2017 10:29:07 PM	34944
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	11/13/2017 10:29:07 PM	34944
Benzene	ND	0.024		mg/Kg	1	11/13/2017 10:29:07 PM	34944
Toluene	ND	0.048		mg/Kg	1	11/13/2017 10:29:07 PM	34944
Ethylbenzene	ND	0.048		mg/Kg	1	11/13/2017 10:29:07 PM	34944
Xylenes, Total	ND	0.095		mg/Kg	1	11/13/2017 10:29:07 PM	34944
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	11/13/2017 10:29:07 PM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunks Loop
Lab ID: 1711606-006 **Matrix:** SOIL

Client Sample ID: E Wall 2
Collection Date: 11/9/2017 11:40:00 AM
Received Date: 11/10/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	23	10		mg/Kg	1	11/15/2017 5:58:07 PM	34988
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/15/2017 5:58:07 PM	34988
Surr: DNOP	78.5	70-130		%Rec	1	11/15/2017 5:58:07 PM	34988
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	110	23		mg/Kg	5	11/14/2017 4:03:56 PM	34944
Surr: BFB	155	15-316		%Rec	5	11/14/2017 4:03:56 PM	34944
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.47		mg/Kg	5	11/14/2017 4:03:56 PM	34944
Benzene	ND	0.12		mg/Kg	5	11/14/2017 4:03:56 PM	34944
Toluene	1.1	0.23		mg/Kg	5	11/14/2017 4:03:56 PM	34944
Ethylbenzene	0.27	0.23		mg/Kg	5	11/14/2017 4:03:56 PM	34944
Xylenes, Total	5.1	0.47		mg/Kg	5	11/14/2017 4:03:56 PM	34944
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	5	11/14/2017 4:03:56 PM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Trunks Loop
Lab ID: 1711606-007 **Matrix:** SOIL

Client Sample ID: W Wall 1
Collection Date: 11/9/2017 11:50:00 AM
Received Date: 11/10/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	59	9.5		mg/Kg	1	11/15/2017 6:20:08 PM	34988
Motor Oil Range Organics (MRO)	350	48		mg/Kg	1	11/15/2017 6:20:08 PM	34988
Surr: DNOP	97.9	70-130		%Rec	1	11/15/2017 6:20:08 PM	34988
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	31	4.7		mg/Kg	1	11/13/2017 11:15:42 PM	34944
Surr: BFB	209	15-316		%Rec	1	11/13/2017 11:15:42 PM	34944
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.094		mg/Kg	1	11/13/2017 11:15:42 PM	34944
Benzene	ND	0.024		mg/Kg	1	11/13/2017 11:15:42 PM	34944
Toluene	0.20	0.047		mg/Kg	1	11/13/2017 11:15:42 PM	34944
Ethylbenzene	0.11	0.047		mg/Kg	1	11/13/2017 11:15:42 PM	34944
Xylenes, Total	2.1	0.094		mg/Kg	1	11/13/2017 11:15:42 PM	34944
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	11/13/2017 11:15:42 PM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Client Sample ID: W Wall 2
Project: Trunks Loop
Collection Date: 11/9/2017 12:00:00 PM
Lab ID: 1711606-008 **Matrix:** SOIL **Received Date:** 11/10/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	77	9.8		mg/Kg	1	11/16/2017 10:06:41 AM	34988
Motor Oil Range Organics (MRO)	420	49		mg/Kg	1	11/16/2017 10:06:41 AM	34988
Surr: DNOP	102	70-130		%Rec	1	11/16/2017 10:06:41 AM	34988
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	210	23		mg/Kg	5	11/14/2017 12:49:20 AM	34944
Surr: BFB	206	15-316		%Rec	5	11/14/2017 12:49:20 AM	34944
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.47		mg/Kg	5	11/14/2017 12:49:20 AM	34944
Benzene	ND	0.12		mg/Kg	5	11/14/2017 12:49:20 AM	34944
Toluene	0.24	0.23		mg/Kg	5	11/14/2017 12:49:20 AM	34944
Ethylbenzene	ND	0.23		mg/Kg	5	11/14/2017 12:49:20 AM	34944
Xylenes, Total	2.5	0.47		mg/Kg	5	11/14/2017 12:49:20 AM	34944
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	5	11/14/2017 12:49:20 AM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1711606**

17-Nov-17

Client: Williams Four Corners

Project: Trunks Loop

Sample ID **LCS-34988**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **34988**	RunNo: **47144**
Prep Date: **11/14/2017**	Analysis Date: **11/15/2017**	SeqNo: **1504196** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.2	73.2	114			
Surr: DNOP	4.2		5.000		83.6	70	130			

Sample ID **MB-34988**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **34988**	RunNo: **47144**
Prep Date: **11/14/2017**	Analysis Date: **11/15/2017**	SeqNo: **1504197** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		92.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1711606**

17-Nov-17

Client: Williams Four Corners

Project: Trunks Loop

Sample ID **MB-34944**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **34944**	RunNo: **47077**
Prep Date: **11/10/2017**	Analysis Date: **11/13/2017**	SeqNo: **1502179** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.4	15	316			

Sample ID **LCS-34944**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **34944**	RunNo: **47077**
Prep Date: **11/10/2017**	Analysis Date: **11/13/2017**	SeqNo: **1502180** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	75.9	131			
Surr: BFB	1000		1000		104	15	316			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1711606**

17-Nov-17

Client: Williams Four Corners

Project: Trunks Loop

Sample ID **MB-34944**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **34944**	RunNo: **47077**
Prep Date: **11/10/2017**	Analysis Date: **11/13/2017**	SeqNo: **1502211** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	80	120			

Sample ID **LCS-34944**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **34944**	RunNo: **47077**
Prep Date: **11/10/2017**	Analysis Date: **11/13/2017**	SeqNo: **1502212** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.77	0.10	1.000	0	77.0	70.1	121			
Benzene	0.80	0.025	1.000	0	79.8	77.3	128			
Toluene	0.81	0.050	1.000	0	81.2	79.2	125			
Ethylbenzene	0.83	0.050	1.000	0	82.6	80.7	127			
Xylenes, Total	2.5	0.10	3.000	0	84.2	81.6	129			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FOUR CORN Work Order Number: 1711606 RcptNo: 1

Received By: Richie Eriacho 11/10/2017 7:30:00 AM

Completed By: Ashley Gallegos 11/10/2017 9:49:09 AM

Reviewed By: 11/10/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			

Chain-of-Custody Record

Client: Williams four corners
Aaron Galer
Mailing Address:

Phone #:
email or Fax#: aaron.galer@williams.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☒ EDD (Type) PDF

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: TRUNK 5 LOOP
Project #: 034017012
Project Manager: Williams: Aaron Galer
LTE: Danny Burns
Sampler: Eric Carroll
On Ice: ☒ Yes ☐ No
Sample Temperature: 3.8 + 0.1 = 3.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1711606	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
11/9/17		Soil	BA North	140z	None	-001	X		X													
	10:40		BA South			-002	X		X													
	11:00		S wall			-003	X		X													
	11:20		N wall			-004	X		X													
	11:30		E wall 1			-005	X		X													
	11:40		E wall 2			-006	X		X													
	11:50		W wall 1			-007	X		X													
↓	12:00	↓	W wall 2	↓	↓	-008	X		X													

Date	Time	Relinquished by:	Received by:	Date	Time
11-9-17	17:52	Eric Carroll	Chad Vault	11/9/17	1757
11/9/17	2045	Chad Wade		11/10/17	0730

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Grenier 21**	Facility Type: **Pipeline**

Surface Owner: **Private**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	**13**	**31N**	**12W**					**San Juan**

Latitude 36.8963 **Longitude** -108.05237

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **59.6 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pipeline.**	Date and Hour of Occurrence: **11/01/2017 at 1:00 PM**	Date and Hour of Discovery: **11/01/2017 at 1:00 PM**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **NA**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Pipeline strike during blading operation. Pipeline was shut in and repaired.

Describe Area Affected and Cleanup Action Taken.*
Release was only gas and no liquids. No soil was impacted.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 11/27/17 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: Attached ☐
Date: **11/13/2017** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

NVF1733139184

OIL CONS. DIV DIST. 3

NOV 16 2017

OIL CONS. DIV DIST. 3

SEP 06 2017

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Williams Four Corners LLC	Contact Michael Hannan
Address 1755 Arroyo Drive	Telephone No. 505-632-4807
Facility Name Trunk S/Trunk D/Lateral F-16	Facility Type Pipeline

Surface Owner Private	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	13	29N	6W					San Juan

Latitude 36.72028° N **Longitude** -107.41937° W

NATURE OF RELEASE

Type of Release Petroleum Hydrocarbons	Volume of Release unknown	Volume Recovered 562 cubic yards of impacted soil
Source of Release Historical Operations	Date and Hour of Occurrence Unknown	Date and Hour of Discovery June 27, 2017
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Cory Smith (NMOCD) Vanessa Fields (NMOCD)	
By Whom? Michael Hannan	Date and Hour 6/29/17 08:42 (Cory VM) 6/29/17 08:43 (Vanessa VM)	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. Not Applicable	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

Describe Cause of Problem and Remedial Action Taken.*

Williams discovered, during a right of way survey, an area impacted by historical operations. Remediation was undertaken from June 27, 2017 through July 10, 2017, and 562 cubic yards of impacted soil have been removed from the site and taken to a NMOCD approved land farm. Immediate NMOCD notification was made once it became apparent that greater than 60 cubic yards of soil would be sent for disposal.

Describe Area Affected and Cleanup Action Taken.*

A cleanup crew was mobilized to the site for remediation. Remediation has been temporarily halted because the further excavation would cause safety issues by being too close to in service pipelines. The excavation has been fenced off in coordination with the property owner. Williams plans to resume remediation activities when the pipelines can be taken out of service during the next annual shutdown, which is tentatively scheduled to occur around April/May 2018.

On August 2, 2017, Williams received an email request from OCD for submittal of a delineation report and corrective action plan to OCD by September 2, 2017. The scope and deadline were subsequently revised to a delineation report being due by September 5, 2017. This update to the initial C-141 includes the delineation plan for the site.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: Michael Hannan	Approved by Environmental Specialist:
Title: Engineer, Sr.	Approval Date: 9/11/2017 / Expiration Date:

→ 11

E-mail Address: michael.hannan@williams.com	Conditions of Approval:	Attached ☐
Date: 9/5/2017 Phone: 505-632-4807	Provide OCD 48 hours prior to sampling Sampling areas verified during site visit.	

* Attach Additional Sheets If Necessary

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
848 East 2nd Avenue
Durango, Colorado 81301
T 970.385.1096 / F 970.385.1873

September 5, 2017

Ms. Vanessa Fields
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

RE: Proposed Impacted Soil Delineation Work Plan
Trunk S Loop
Williams Four Corners LLC
San Juan County, New Mexico

Dear Ms. Fields:

LT Environmental, Inc. (LTE), on behalf of Williams Four Corners LLC (Williams), proposes the following work plan to delineate impacted soil at the Trunk S Loop (Site) located in the southwest quarter of the southwest quarter of Section 13 within Township 29 North and Range 6 West in the San Juan Basin in San Juan County, New Mexico.

BACKGROUND

Soil at the Site is impacted by petroleum hydrocarbons due to a release from the Trunk S pipeline. On June 29, 2017, Williams excavated an area east of the Lateral F-16, Trunk D, and Trunk S pipelines and collected a soil sample at 15 feet below ground surface (bgs). Sandstone bedrock was encountered at 15 feet bgs. On August 9, 2017, Williams performed initial delineation activities west of the excavated area in the vicinity of the Lateral F-16, Trunk D, and Trunk S pipelines. A total of 3 trenches were completed and 3 samples were collected at depths ranging from 10.5 feet to 13.5 feet bgs within the pipeline corridor. The locations of the soil samples and the excavation area are depicted on Figure 1.

Results of laboratory analyses indicated that the eastern soil sample contained a concentration of benzene, toluene, ethylbenzene, and total xylenes (BTEX) of 99.7 milligrams per kilograms (mg/kg) and total petroleum hydrocarbons (TPH) of 3,590 mg/kg. No chloride was detected in the eastern soil sample. The western soil samples contained BTEX concentrations ranging from non-detect to 0.32 mg/kg, TPH concentrations ranging from non-detect to 202 mg/kg, and chloride concentrations ranging from 35 mg/kg to 85 mg/kg.

Depth to groundwater at the Site is estimated to be approximately 620 feet bgs based on water well SJ03364 located approximately 550 feet northeast of the Site. The closest surface water to the Site is a stock pond located approximately 440 feet north of the Site. Based on these criteria New

Mexico Oil Conservation Division (NMOCD) site ranking for remediation action levels is a 10 and the TPH action level is 1,000 mg/kg.

PROPOSED DELINEATION

LTE proposes to install five new soil borings to delineate the soil impacts for the Site (Figure 1). A borehole will be advanced in the center of the excavation to delineate the total depth of impact and boreholes will be advanced to the north, east, and south of the excavation and to the west of the pipeline corridor. Each new soil boring will be installed by Cascade Drilling (Cascade) using sonic drilling techniques. Continuous soil samples will be logged by an LTE geologist and described using the Unified Soil Classification System (USCS) to delineate hydrocarbon impacts. The intervals from immediately beneath the ground surface and then every five feet thereafter will be screened for volatile aromatic hydrocarbons as well as any soil that is stained or has a hydrocarbon odor using a photo-ionization detector (PID). Soil samples with the highest PID reading and a bottom hole sample will be collected from each borehole to be submitted to a certified laboratory for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021 and TPH – gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) by EPA Method 8015. Additional soil borings will be advanced radially in approximately 50-foot steps from any soil boring demonstrating significant evidence of hydrocarbon impacts. The soil boring will be advanced to a depth of approximately 15 feet bgs or below the extent of soil impacted above NMOCD standards based on site ranking.

LTE will complete all work in accordance with industry-accepted practices. LTE will survey the locations of the soil borings with a Trimble® GeoExplorer® 3000 series Global Positioning System (GPS) to determine the latitude and longitude. Field activities will be documented in a bound field book and soil descriptions will be documented on a boring log. Observations to be noted on the boring log will include, but not be limited to, lithology, moisture content, staining, soil boring depth, latitude, longitude, project number, and comments. All down-hole drilling equipment will be thoroughly decontaminated prior to each use. If impacted soil is identified within a borehole, the impacted cuttings will be drummed and transported to the Envirotech, Inc. Landfarm in Hilltop, New Mexico.

REMEDIATION

Williams will prepare a report documenting all field activities and describing results. The report will include site maps and a table of laboratory analytical results. Based on the results of the delineation, Williams will propose an appropriate remediation strategy.

LTE appreciates the opportunity to provide this proposed work plan to the NMOCD. If you have any questions or comments regarding this plan, do not hesitate to contact me at (970) 385-1096 or via email at bherb@ltenv.com or Aaron Galer at Williams at (801) 584-6746 or Aaron.Galer@Williams.com.

Sincerely,
LT ENVIRONMENTAL, INC.

Brooke Herb
Project Geologist

Attachment

Figure 1 – Site Location

FIGURE

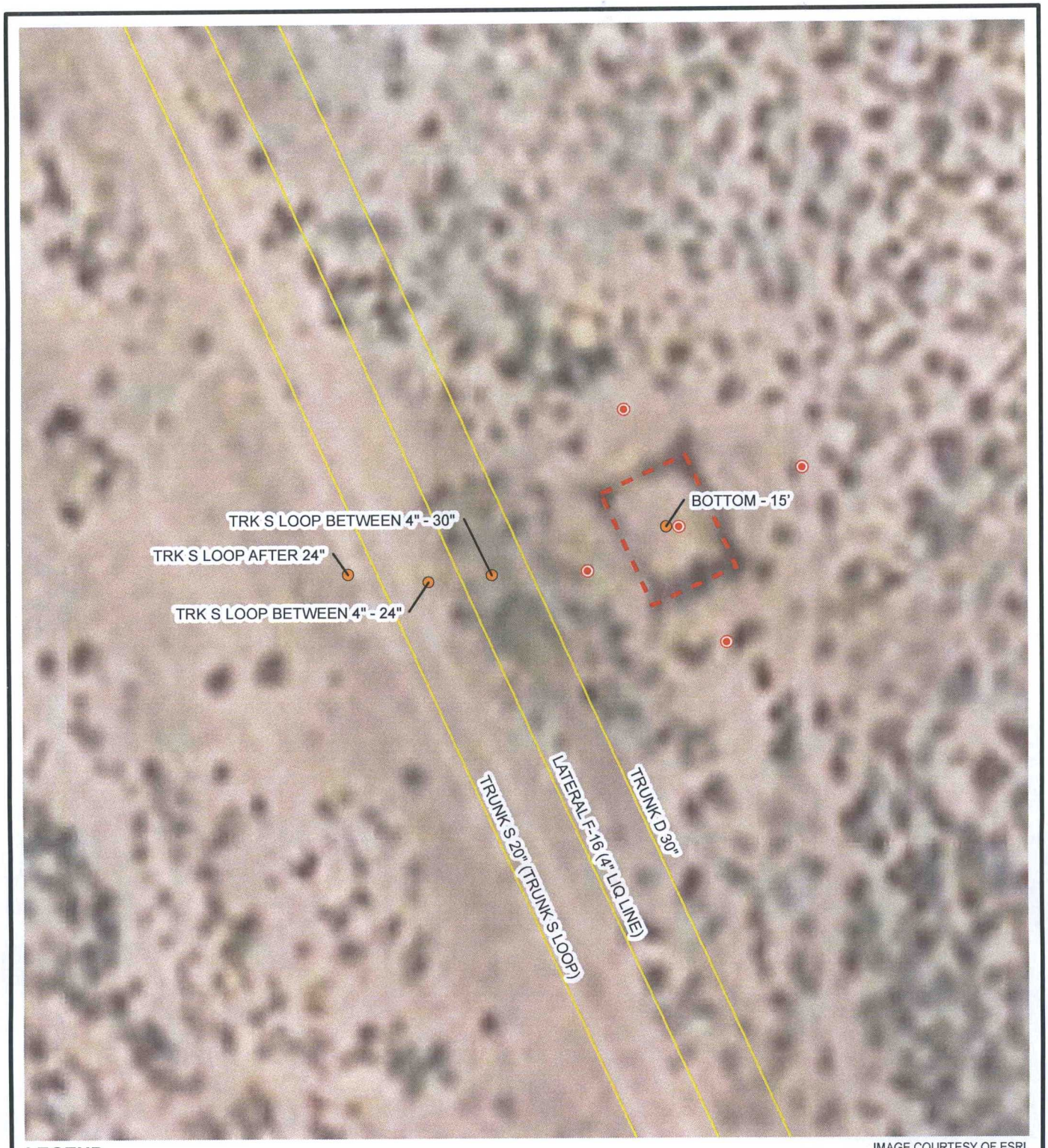


IMAGE COURTESY OF ESRI

LEGEND

- SOIL SAMPLE
- PROPOSED SOIL BORING
- ESTIMATED PIPELINE LOCATION
- ESTIMATED EXCAVATION LOCATION

0 20 40

Feet

N

FIGURE 1
SITE MAP
TRUNK S LOOP
RIO ARRIBA COUNTY, NEW MEXICO

WILLIAMS FOUR CORNERS, LLC

P:\Williams Four Corners\GIS\MXD_FORMER DRIP TANK_TRUNK S LOOP.mxd

Analytical Report
Lab Order **1706F85**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Trunk S Loop
Lab ID: 1706F85-001 **Matrix:** SOIL

Client Sample ID: Trunk S Loop Bottom
Collection Date: 6/29/2017 2:00:00 PM
Received Date: 6/30/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	410	9.2		mg/Kg	1	6/30/2017 10:14:21 AM
Motor Oil Range Organics (MRO)	380	46		mg/Kg	1	6/30/2017 10:14:21 AM
Surr: DNOP	115	70-130		%Rec	1	6/30/2017 10:14:21 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	30		mg/Kg	20	6/30/2017 10:29:57 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**
Benzene	2.8	0.50		mg/Kg	25	6/30/2017 1:59:11 PM
Toluene	28	1.0		mg/Kg	25	6/30/2017 1:59:11 PM
Ethylbenzene	3.9	1.0		mg/Kg	25	6/30/2017 1:59:11 PM
Xylenes, Total	65	2.0		mg/Kg	25	6/30/2017 1:59:11 PM
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	25	6/30/2017 1:59:11 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	25	6/30/2017 1:59:11 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	25	6/30/2017 1:59:11 PM
Surr: Toluene-d8	99.8	70-130		%Rec	25	6/30/2017 1:59:11 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**
Gasoline Range Organics (GRO)	2800	100		mg/Kg	25	6/30/2017 1:59:11 PM
Surr: BFB	104	70-130		%Rec	25	6/30/2017 1:59:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1708728**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: TRK S Loop
Lab ID: 1708728-001 **Matrix:** SOIL

Client Sample ID: TRK S Loop Between 30"-4"
Collection Date: 8/9/2017 12:15:00 PM
Received Date: 8/10/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	35	30		mg/Kg	20	8/21/2017 7:41:54 PM	33475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	48	9.8		mg/Kg	1	8/15/2017 2:30:32 PM	33337
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	8/15/2017 2:30:32 PM	33337
Surr: DNOP	110	70-130		%Rec	1	8/15/2017 2:30:32 PM	33337
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	17	4.8		mg/Kg	1	8/15/2017 7:42:01 PM	33329
Surr: BFB	190	54-150	S	%Rec	1	8/15/2017 7:42:01 PM	33329
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	8/15/2017 7:42:01 PM	33329
Toluene	ND	0.048		mg/Kg	1	8/15/2017 7:42:01 PM	33329
Ethylbenzene	ND	0.048		mg/Kg	1	8/15/2017 7:42:01 PM	33329
Xylenes, Total	0.23	0.096		mg/Kg	1	8/15/2017 7:42:01 PM	33329
Surr: 4-Bromofluorobenzene	108	66.6-132		%Rec	1	8/15/2017 7:42:01 PM	33329

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1708728**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: TRK S Loop
Lab ID: 1708728-002 **Matrix:** SOIL

Client Sample ID: TRK S Loop Between 4"-24"
Collection Date: 8/9/2017 12:25:00 PM
Received Date: 8/10/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	85	30		mg/Kg	20	8/21/2017 7:54:19 PM	33475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	72	9.7		mg/Kg	1	8/14/2017 5:16:28 PM	33337
Motor Oil Range Organics (MRO)	110	49		mg/Kg	1	8/14/2017 5:16:28 PM	33337
Surr: DNOP	89.9	70-130		%Rec	1	8/14/2017 5:16:28 PM	33337
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	20	4.8		mg/Kg	1	8/15/2017 8:05:31 PM	33329
Surr: BFB	221	54-150	S	%Rec	1	8/15/2017 8:05:31 PM	33329
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	8/15/2017 8:05:31 PM	33329
Toluene	ND	0.048		mg/Kg	1	8/15/2017 8:05:31 PM	33329
Ethylbenzene	ND	0.048		mg/Kg	1	8/15/2017 8:05:31 PM	33329
Xylenes, Total	0.32	0.096		mg/Kg	1	8/15/2017 8:05:31 PM	33329
Surr: 4-Bromofluorobenzene	108	66.6-132		%Rec	1	8/15/2017 8:05:31 PM	33329

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1708728**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: TRK S Loop
Lab ID: 1708728-003 **Matrix:** SOIL

Client Sample ID: TRK S Loop After 24"
Collection Date: 8/9/2017 12:40:00 PM
Received Date: 8/10/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	54	30		mg/Kg	20	8/21/2017 8:06:43 PM	33475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/14/2017 5:39:04 PM	33337
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/14/2017 5:39:04 PM	33337
Surr: DNOP	88.2	70-130		%Rec	1	8/14/2017 5:39:04 PM	33337
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/15/2017 8:29:06 PM	33329
Surr: BFB	92.1	54-150		%Rec	1	8/15/2017 8:29:06 PM	33329
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	8/15/2017 8:29:06 PM	33329
Toluene	ND	0.048		mg/Kg	1	8/15/2017 8:29:06 PM	33329
Ethylbenzene	ND	0.048		mg/Kg	1	8/15/2017 8:29:06 PM	33329
Xylenes, Total	ND	0.095		mg/Kg	1	8/15/2017 8:29:06 PM	33329
Surr: 4-Bromofluorobenzene	102	66.6-132		%Rec	1	8/15/2017 8:29:06 PM	33329

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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

State of New Mexico
Energy Minerals and Natural Resources

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

OIL CONS. DIV DIST. 3
SEP 05 2017

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Williams Four Corners LLC	Contact: Monica Sandoval
Address: 1775 Arroyo Drive Bloomfield, NM 87413	Telephone No.:505-632-4625
Facility Name: NEBU 48A	Facility Type: Pipeline (Dogleg)

Surface Owner: NM State Lands	Mineral Owner NA	API No. NA

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	32	31N	7W					SS

Latitude 36.8525 **Longitude** -107.5949

NATURE OF RELEASE

Type of Release: Natural Gas and Pipeline Liquid	Volume of Release: 700 mcf , 10-20 bbl	Volume Recovered: 5 yards of contaminated soil
Source of Release: Pipeline / Dog Leg	Date and Hour of Occurrence 7/16/2017 8:00am	Date and Hour of Discovery 7/16/2017 12:30pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Verbal Cory Smith, follow up email to Cory Smith included Vanessa Fields and Jonathan Kelly as well as Whitney Tomas at BLM	
By Whom? Matt Webre	Date and Hour 7/16/2017 1:00pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 7/16/2017 at approximately 8:00am a person from the public drove their truck into our dogleg on CR 4000 south of Navajo Lake. The pipeline was damaged and liquids were releases on the road and nearby vegetation. Estimated product released 700 mcf of natural gas over 90 minutes. Liquid released onto and across the county road estimated to be 10-20 bbl. The San Juan County Sheriff's Office (report number 2017-29319) responded to the scene and assisted with traffic control in the area of concern.

Describe Area Affected and Cleanup Action Taken.*
A clean-up crew was dispatched to the area on 7/16/2017 to address immediate cleanup action in order to get the road re-opened. The impacts to the road were removed and the road re-opened around 6 pm on 7/16/2017. A temporary berm was created to limit the potential runoff of impacted material. The liquid released encompassed an area approximately 200 feet by 60 feet covering soil and vegetation. We sprayed and washed the trees on 7/18.2017 with simple green and water. We Also raked the surface with a micro blaze on 7/19/2017. The product released was no more than 1.5 – 2 inches below the surface. We removed approximately 5 yards of contaminated soil.

The damaged dog leg and pipe was cut out and removed leaving only a valve above the ground. A new guard rail was placed to protect the valve on 7/17/2017.

A follow up email was sent to OCD/BLM on 7/16/2017 approval on clean up actions granted. (email attached)

A soil sample was taken on 8/16/2017, 30 days post event per OCD/BLM recommendations. OCD Jonathan Kelly was onsite to witness the sampling. Sample results are below clean up detection limits (attached).

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

#NCS1729652587

27

Signature: Monicasandoval	OIL CONSERVATION DIVISION Approved by Environmental Specialist:		
Printed Name: Monica Sandoval			
Title: Environmental Specialist	Approval Date: 10/23/17	Expiration Date:	
E-mail Address: j.l.sandoval@hotmail.com	Conditions of Approval: —		Attached ☐
Date: 8/31/2017 Phone: 505-632-4625			

* Attach Additional Sheets If Necessary

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 24, 2017

Monica Sandoval
Williams Field Services
1755 Arroyo Dr.,
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: NEBU 48-A OrderNo.: 1708A06

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/16/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: NEBU 48-A
Lab ID: 1708A06-003 **Matrix:** SOIL

Client Sample ID: NEBU 48 A Lower End
Collection Date: 8/15/2017 1:50:00 PM
Received Date: 8/16/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	8/23/2017 11:26:43 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	32	9.7		mg/Kg	1	8/21/2017 9:52:55 PM	33448
Motor Oil Range Organics (MRO)	80	49		mg/Kg	1	8/21/2017 9:52:55 PM	33448
Surr: DNOP	102	70-130		%Rec	1	8/21/2017 9:52:55 PM	33448
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/18/2017 9:32:11 PM	33432
Surr: BFB	96.8	54-150		%Rec	1	8/18/2017 9:32:11 PM	33432
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	8/18/2017 9:32:11 PM	33432
Toluene	ND	0.049		mg/Kg	1	8/18/2017 9:32:11 PM	33432
Ethylbenzene	ND	0.049		mg/Kg	1	8/18/2017 9:32:11 PM	33432
Xylenes, Total	ND	0.097		mg/Kg	1	8/18/2017 9:32:11 PM	33432
Surr: 4-Bromofluorobenzene	105	66.6-132		%Rec	1	8/18/2017 9:32:11 PM	33432

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FOUR CORN Work Order Number: 1708A06 RcptNo: 1

Received By: Anne Thorne 8/16/2017 7:15:00 AM

Completed By: Ashley Gallegos 8/16/2017 3:24:33 PM

Reviewed By: ENM 8/17/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: WES

Mailing Address: 188 CR 4900
Bloomfield NM 87413

Phone #: 505-947-1852

email or Fax#: monica.sandoval@williams.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: NEBU #48-A

Project #:

Project Manager: Monica Sandoval

Sampler: Morgan Killion

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1708A06	BTEX + ~~MTBE~~ + ~~IMBE~~'s (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
8/15/17	1:30	Soil	NEBU 48A Next to Road	1-402	Cool	-001	X		X									X				
8/15/17	1:40	Soil	NEBU 48A Middle Creek	1-402	"	-002	X		X									X				
8/15/17	1:50	Soil	NEBU 48A Lower BM	1-40	"	-003	X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/15/17	1643	Morgan Killion	Chasity Walters	8/15/17	1643
8/15/17	1804	Chasity Walters		08/16/17	0715

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

From:	Kelly, Jonathan, EMNRD
To:	Foley, Brandon M.; Sandoval, Monica; Webre, Matt; Smith, Cory, EMNRD; Whitney Thomas; Fields, Vanessa, EMNRD
Cc:	Lucero, Christopher; Perrin, Charlie, EMNRD; Groves, Amber; Morris, Mitch
Subject:	Re: Release on Middle Mesa
Date:	Tuesday, July 18, 2017 12:47:54 PM
Attachments:	image001.png image003.png

The NMOCD has no issues with Williams' plan. The NMOCD does request that the soils be raked during spraying and that confirmation sample be witnessed 30 days following spraying with sample notification sent no less than 24 hours prior to sampling.

Thank you

Jonathan Kelly NMOCD

Sent via the Samsung Galaxy S®6 active, an AT&T 4G LTE smartphone

-------- Original message --------
From: "Foley, Brandon M." <bfoley@slo.state.nm.us>
Date: 7/18/17 11:15 AM (GMT-07:00)
To: "'Sandoval, Monica'" <Monica.Sandoval@Williams.com>, "Webre, Matt" <Matt.Webre@Williams.com>, "Kelly, Jonathan, EMNRD" <Jonathan.Kelly@state.nm.us>, "Smith, Cory, EMNRD" <Cory.Smith@state.nm.us>, Whitney Thomas <l1thomas@blm.gov>, "Fields, Vanessa, EMNRD" <Vanessa.Fields@state.nm.us>
Cc: "Lucero, Christopher" <Christopher.Lucero@Williams.com>, "Perrin, Charlie, EMNRD" <charlie.perrin@state.nm.us>, "Groves, Amber" <agroves@slo.state.nm.us>, "Morris, Mitch" <Mitch.Morris@williams.com>
Subject: RE: Release on Middle Mesa

I spoke with our remediation specialist and the State Land Office has no issues with this plan.

Please make sure that the remediation plan/and final closure on the release are approved by OCD, please cc me on correspondences, and **revegetate as necessary**.

Thanks,

Brandon Foley

District Resource Manager
Field Operations Division
(505) 326-5716

New Mexico State Land Office
3535E. 30th Street, Suite 127
PO Box 3170
Farmington, NM 87402
bfoley@slo.state.nm.us

From: Sandoval, Monica [mailto:Monica.Sandoval@Williams.com]
Sent: Tuesday, July 18, 2017 9:17 AM
To: Foley, Brandon M.; Webre, Matt; Kelly, Jonathan, EMNRD; Smith, Cory, EMNRD; Whitney Thomas; Fields, Vanessa, EMNRD
Cc: Lucero, Christopher; Perrin, Charlie, EMNRD; Groves, Amber; Morris, Mitch
Subject: RE: Release on Middle Mesa

Hello Brandon,

Estimated product released 700 mcf of natural gas released over 90 minutes. Liquids released onto and across the county road estimated to be 10-20 bbl.

Yes a report was conducted by the San Juan County Sheriff's Department, Report Number 2017-29319 – Officer S. Howard R637. Yes the location is on CR4000.

Attached are pictures of the area.

As seen in the attached pictures there were liquids released onto and across the county road. The liquid released encompassed in an area approximately 200 feet by 60 feet cover surface soil and vegetation. The impacts to the road were removed on 7/16 and a small berm placed along potential drainage locations. We will be spraying and washing the tress today with simple green and water, we will also be raking the surface with micro-blaze. The product released is no more than 1.5-2 inches below surface, we anticipate removing 5 yards of soil at this time.

The dog leg has been cut out and removed leaving only a valve above ground. A new guard rail will be placed to protect the valve.

Please let me know if you have any additional questions or concerns.

Thank-you,

Monica Sandoval | Williams | Environmental Specialist | Operational Excellence – Four Corners Area, LLC
Office: 505-632-4625 | Cell: 505-947-1852 | 1775 Arroyo Dr. Bloomfield, NM 87413

From: Foley, Brandon M. [mailto:bfoley@slo.state.nm.us]
Sent: Tuesday, July 18, 2017 7:57 AM
To: Webre, Matt <Matt.Webre@Williams.com>; Kelly, Jonathan, EMNRD <Jonathan.Kelly@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Whitney Thomas <l1thomas@blm.gov>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Sandoval, Monica <Monica.Sandoval@Williams.com>; Lucero, Christopher <Christopher.Lucero@Williams.com>; Perrin, Charlie, EMNRD <charlie.perrin@state.nm.us>; Groves, Amber <agroves@slo.state.nm.us>
Subject: RE: Release on Middle Mesa

Good Morning,

I have received Matt and Jonathan's voicemails and reviewed this email. I have a couple questions and requests.

Do we have an estimate of how much product was released? Was this only liquids, or was there gas as well?

Was there any report conducted by law enforcement? As state land, it could be considered criminal trespass, if not a public road. Is this location on CR4000 a SJC maintained or SJC non maintained road?

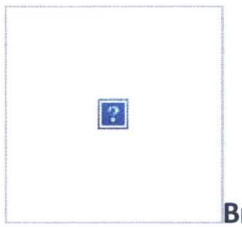
Does anyone have any quality photos that they can send my way?

I will need to gather some more information before I can consult with our remediation specialist.

Has Williams developed a plan to address the vegetation and soil for review?

The best number to get a hold of me is: (575) 770-3277

Thanks,



Brandon Foley

District Resource Manager
Field Operations Division
(505) 326-5716
New Mexico State Land Office
3535E. 30th Street, Suite 127
PO Box 3170
Farmington, NM 87402
bfoley@slo.state.nm.us

From: Webre, Matt [mailto:Matt.Webre@Williams.com]
Sent: Monday, July 17, 2017 7:39 AM
To: Kelly, Jonathan, EMNRD; Smith, Cory, EMNRD; Whitney Thomas; Fields, Vanessa, EMNRD; Foley, Brandon M.
Cc: Sandoval, Monica; Lucero, Christopher; Perrin, Charlie, EMNRD
Subject: RE: Release on Middle Mesa

Jonathan,

We will have a crew out there working today. I was informed actions today will continue to focus on containment. Below is a summary of what was completed yesterday. Initially I thought this was BLM land but it is located in Section 32, T31N, R7W which is State Lands so I have included Brandon Foley in this email.

- The impacts to the road were removed and the road re-open around 6 PM.
- Drainages of concerns were temporarily bermed to limit an potential runoff of impacted material.

Moving forward we are developing a plan to address impacted vegetation and soil.

Matt

From: Kelly, Jonathan, EMNRD [mailto:Jonathan.Kelly@state.nm.us]
Sent: Monday, July 17, 2017 7:10 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Webre, Matt <Matt.Webre@Williams.com>; Whitney Thomas <l1thomas@blm.gov>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Sandoval, Monica <Monica.Sandoval@Williams.com>; Lucero, Christopher <Christopher.Lucero@Williams.com>; Hopkins, Craig <Craig.Hopkins@williams.com>; Perrin, Charlie, EMNRD <charlie.perrin@state.nm.us>
Subject: RE: Release on Middle Mesa

Good morning Matt,

I should be on my way out there late this morning following some sampling by Cedar Hill, I should be able to get over there by around 12-1pm, maybe earlier.

Jonathan D. Kelly
Compliance Officer
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 122
jonathan.kelly@state.nm.us

From: Smith, Cory, EMNRD
Sent: Monday, July 17, 2017 7:02 AM
To: Webre, Matt <Matt.Webre@Williams.com>; Whitney Thomas <l1thomas@blm.gov>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Kelly, Jonathan, EMNRD <Jonathan.Kelly@state.nm.us>; Sandoval, Monica <Monica.Sandoval@Williams.com>; Lucero, Christopher <Christopher.Lucero@Williams.com>; Hopkins, Craig <Craig.Hopkins@williams.com>; Perrin, Charlie, EMNRD <charlie.perrin@state.nm.us>
Subject: RE: Release on Middle Mesa

Matt,

Please also CC Charlie Perrin on any status updates.

Thank you

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 115
cory.smith@state.nm.us

From: Smith, Cory, EMNRD
Sent: Sunday, July 16, 2017 2:33 PM
To: Webre, Matt <Matt.Webre@Williams.com>; Whitney Thomas <l1thomas@blm.gov>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Kelly, Jonathan, EMNRD <Jonathan.Kelly@state.nm.us>; Sandoval, Monica <Monica.Sandoval@Williams.com>; Lucero, Christopher <Christopher.Lucero@Williams.com>; Hopkins, Craig <Craig.Hopkins@williams.com>
Subject: Re: Release on Middle Mesa

Matt,

Thank you for the Follow up email.

When the road re-opens or if the situation changes please give me a call so i can keep our office updated.

Thank you,

From: Webre, Matt <Matt.Webre@Williams.com>
Sent: Sunday, July 16, 2017 2:04 PM
To: Smith, Cory, EMNRD; Whitney Thomas; Fields, Vanessa, EMNRD
Cc: Kelly, Jonathan, EMNRD; Sandoval, Monica; Lucero, Christopher; Hopkins, Craig
Subject: Release on Middle Mesa

Cory,

I am following up from our phone conversation around 1 PM today. A person from the public drove their truck into our dogleg out on Middle Mesa at the following locations N36* 51' 9.011", W107* 35' 41.672". The pipeline was damaged and liquids were released on the road and nearby vegetation. Williams is working with the sheriff to control traffic in the area and not allow the public to drive through the release area. I was told that there is an alternate route that the public can take. We have dispatched a cleanup crew today to address items that need immediate attention and get the road re-opened.

Additional work will begin tomorrow to complete pipeline repairs and remediation.

Matt

Ranking Score Determination
Site Name NEBU 48-A
Legal (Unit, Sec, Twn, Rng) Unit K, S32, T31N, R7W
GPS Coordinates 36.8525, -107.5949

Ranking Score based on NMOCD Guidelines for Remediation of Leaks, Spills, and Releases dated August 13, 1993.

Depth to Ground *- The operator should determine the depth to ground water at each site. The depth to ground water is defined as the vertical distance from the lowermost contaminants to the seasonal high water elevation of the ground water. If the exact depth to ground water is unknown, the ground water depth can be estimated using either local water well information, published regional ground water information, data on file with the New Mexico State Engineer Office or the vertical distance from adjacent ground water or surface water.*

Notes: Distance to well is 1330 meters, depth of water is 380 feet

Depth to Groundwater	<50 feet	50 – 99 feet	>100 feet
Ranking Score (circle one)	20	10	0

Wellhead Protection Area *- The operator should determine the horizontal distance from all water sources including private and domestic water sources. Water sources are defined as wells, springs or other sources of fresh water extraction. Private and domestic water sources are those water sources used by less than five households for domestic or stock purposes.*

Notes: Nearest water well is 1330 meters

Wellhead Protection Area	<1000 from a water source; or <200 feet from a private domestic water source	
Ranking Score (circle one)	Yes → 20	No → 0

Distance To Nearest Surface Water Body *- The operator should determine the horizontal distance to all downgradient surface water bodies. Surface water bodies are defined as perennial rivers, streams, creeks, irrigation canals and ditches, lakes, ponds and playas.*

Notes: 1,533.8 feet to nearest surface body of water (Navajo Lake to the east)

Distance to Surface Water Body	<200 horizontal feet	200 – 1,000 horizontal feet	>1,000 horizontal feet
Ranking Score (circle one)	20	10	0

Remediation Action Levels

Ranking Score (Circle One)	**>19**	**10 - 19**	**0 - 9**
Benzene	10 mg/kg		
BTEX (total)	50 mg/kg		
TPH (GRO and DRO)	100 mg/kg	1,000 mg/kg	5,000 mg/kg

Ranking Completed by (print and sign) Monica Sandoval
Date 8/30/2017
Sources:
GPS Conversion Tool
New Mexico Water Rights Reporting System – Water Column/Average Depth to Water Report
New Mexico Oil and Gas Map

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
SJ 04189 POD1	SJAR	SJ	1	2	3	33	31N	07W	270010	4082017	1330	460	380	80
SJ 03355		SJ	1	1	1	28	31N	07W	269659	4084335*	2466	570	470	100
SJ 01822		SJ	2	2	2	25	31N	08W	266540	4084216*	3030	550	500	50
SJ 01167		SJ	3	4	4	24	31N	08W	266352	4084410*	3300	465	390	75
SJ 03306		SJ	4	4	1	25	31N	08W	265739	4083645*	3336	600	500	100
SJ 00837		RA		4	4	17	30N	07W	269152	4076614*	5477	400		
SJ 03640		RA	1	1	3	15	30N	07W	271072	4077061*	5551	433	241	192
SJ 02366		RA		1	3	15	30N	07W	271062	4077047	5558	345	225	120
SJ 03385		RA	4	4	4	17	30N	07W	269251	4076513*	5587	520	460	60
SJ 03946 POD1		RA	4	2	4	15	30N	07W	270941	4076902	5640	455	285	170
SJ 02698		RA		1	3	15	30N	07W	271173	4076962*	5684	402	255	147
SJ 03426		SJ	4	2	1	14	31N	07W	273560	4087251*	7115	540	420	120
SJ 01022		SJ			1	15	30N	08W	262112	4077679*	7901	19	10	9
SJ 03006		RA	3	3	1	24	30N	07W	274255	4075564*	8567	100		
SJ 03082		RA	1	1	3	24	30N	07W	274244	4075362*	8715	98	61	37
SJ 03485		RA	1	1	3	24	30N	07W	274244	4075362*	8715	126	60	66
SJ 04202 POD1	SJM2	RA	2	1	3	24	30N	07W	274488	4075418	8829	140	72	68
SJ 02818		RA	2	1	3	24	30N	07W	274444	4075362*	8844	86	42	44
SJ 03773 POD1		RA	2	1	3	24	30N	07W	274444	4075362*	8844	120	70	50
SJ 01612		SJ			3	34	32N	07W	272046	4090671*	9234	800		
CR 04696	R								275861	4076163	9298	80	26	54
SJ 03155		SJ	4	2	2	27	30N	08W	263060	4074570*	9373	150	80	70
SJ 03649		SJ		4	1	02	31N	07W	273538	4090167*	9441	600	300	300
SJ 03694 POD1		SJ	3	2	2	27	30N	08W	262860	4074570*	9494	120	40	80
SJ 03694	O	SJ	2	4	2	27	30N	08W	263058	4074371*	9534	120	40	80
SJ 03053		RA	4	4	3	24	30N	07W	274836	4074750*	9564	200		

***UTM location was derived from PLSS - see Help**

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
SJ 03075		RA	1	2	1	25	30N	07W	274626	4074548*	9588	165	78	87
SJ 00011		RA				32	31N	06W	278321	4081811*	9643	610		
SJ 00198		SJ	4	3	3	32	31N	08W	258895	4081451*	9805	2003		
SJ 03774 POD1		RA	3	3	1	25	30N	07W	274214	4073956*	9821	300	220	80

Average Depth to Water: **217 feet**

Minimum Depth: **10 feet**

Maximum Depth: **500 feet**

Record Count: 30

UTMNAD83 Radius Search (in meters):

Easting (X): 268681 **Northing (Y):** 4082071 **Radius:** 10000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	**POD Number**	**Q64**	**Q16**	**Q4**	**Sec**	**Tws**	**Rng**	**X**	**Y**
	SJ 04189 POD1	1	2	3	33	31N	07W	270010	4082017

Driller License:	1357	**Driller Company:**	BAILEY DRILLING COMPANY		
Driller Name:	BAILEY, MARK				
Drill Start Date:	06/27/2017	**Drill Finish Date:**	07/03/2017	**Plug Date:**	
Log File Date:	07/14/2017	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	10 GPM
Casing Size:	5.00	**Depth Well:**	460 feet	**Depth Water:**	380 feet

Water Bearing Stratifications:	**Top**	**Bottom**	**Description**
	5	25	Sandstone/Gravel/Conglomerate
	300	460	Sandstone/Gravel/Conglomerate

Casing Perforations:	**Top**	**Bottom**
	0	360
	360	460


ROAD 4603
NEBU 47
NEBU 48A
31
32, Navajo Lake SP, Navajo Dam, New Mexico, 87419


7/16/2017


7/16/2017


7/16/2017

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **McClanahan #8**	Facility Type: **Pipeline**

Surface Owner: **BLM**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	**24**	**28N**	**10W**					**San Juan**

Latitude 36.643138 **Longitude** -107.841704

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **43.849 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pipeline drip**	Date and Hour of Occurrence: **09/12/2017 at 1 PM**	Date and Hour of Discovery: **09/13/2017 at 1 PM** **Soil threshold was exceeded on 9/27/2017**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **NA**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

OIL CONS. DIV DIST. 3
OCT 16 2017

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Natural gas released from a leak in the pipeline drip. The section was immediately isolated and shut-in upon discovery.

Describe Area Affected and Cleanup Action Taken.*
Leak has been fixed and the affected area has been remediated. Final haul amount of impacted soil was 48 yards hauled on 9/27/2017. Please see attachments for further details.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 10/23/17 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: — Attached ☐
Date: **10/12/2017** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

#NCS1729639351

13

Remediation Excavation and Sampling Form

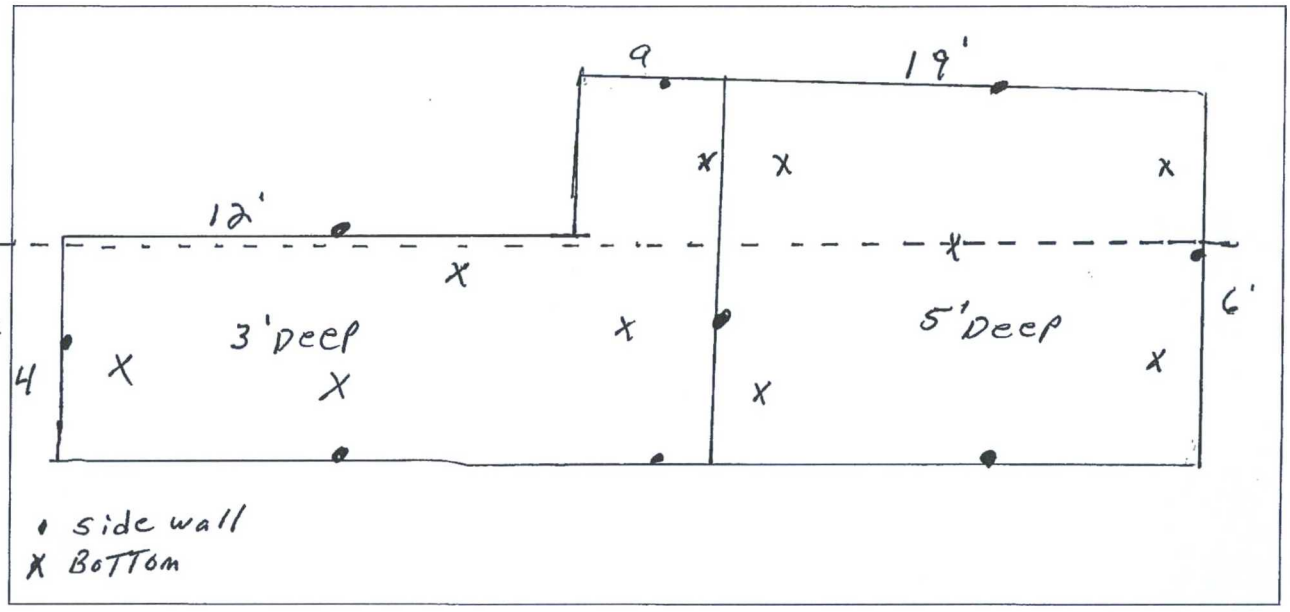
Site Name MC CLANAHAN # 8

Excavation Dimensions (feet)

40' Length 4' TO 6' Width 3' TO 5' Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



Sample Information

OCD Witness Sampling (Yes) or No

Agency(s) Representative(s) VANESY

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
East END walls	9-27-17	Composite	sidewalls	1.05 PPM
East END Botton	9-27-17	composite	Floor	7.20 PPM
West END walls	9-27-17	composite	sidewalls	~~9.15 PPM~~ 11.30 PPM
West END Botton	9-27-17	composite	Floor	9.15 PPM
				40 Yard to IEI
				10 Yard Gravel 50 Yard Clean Fill TRIPLE F

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 02, 2017

Kijun Hong
Williams Field Services
188 Co. Rd 4900
Bloomfield, NM 87413
TEL:
FAX

RE: McClanahan 8 OrderNo.: 1709F45

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/28/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1709F45**
Date Reported: **10/2/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: McClanahan 8
Lab ID: 1709F45-001 **Matrix:** SOIL

Client Sample ID: East End Wall
Collection Date: 9/27/2017 8:45:00 AM
Received Date: 9/28/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	9/28/2017 10:25:21 AM	34122
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/28/2017 10:08:39 AM	34120
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	9/28/2017 10:08:39 AM	34120
Surr: DNOP	93.1	70-130		%Rec	1	9/28/2017 10:08:39 AM	34120
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/28/2017 9:42:33 AM	34110
Surr: BFB	86.8	54-150		%Rec	1	9/28/2017 9:42:33 AM	34110
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	9/28/2017 9:42:33 AM	34110
Toluene	ND	0.040		mg/Kg	1	9/28/2017 9:42:33 AM	34110
Ethylbenzene	ND	0.040		mg/Kg	1	9/28/2017 9:42:33 AM	34110
Xylenes, Total	ND	0.079		mg/Kg	1	9/28/2017 9:42:33 AM	34110
Surr: 4-Bromofluorobenzene	99.3	66.6-132		%Rec	1	9/28/2017 9:42:33 AM	34110

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: McClanahan 8
Lab ID: 1709F45-002 **Matrix:** SOIL

Client Sample ID: East End Bottom
Collection Date: 9/27/2017 8:40:00 AM
Received Date: 9/28/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	9/28/2017 10:37:46 AM	34122
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/28/2017 10:33:13 AM	34120
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/28/2017 10:33:13 AM	34120
Surr: DNOP	97.4	70-130		%Rec	1	9/28/2017 10:33:13 AM	34120
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/28/2017 10:06:01 AM	34110
Surr: BFB	89.3	54-150		%Rec	1	9/28/2017 10:06:01 AM	34110
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/28/2017 10:06:01 AM	34110
Toluene	ND	0.046		mg/Kg	1	9/28/2017 10:06:01 AM	34110
Ethylbenzene	ND	0.046		mg/Kg	1	9/28/2017 10:06:01 AM	34110
Xylenes, Total	ND	0.091		mg/Kg	1	9/28/2017 10:06:01 AM	34110
Surr: 4-Bromofluorobenzene	102	66.6-132		%Rec	1	9/28/2017 10:06:01 AM	34110

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: McClanahan 8
Lab ID: 1709F45-003 **Matrix:** SOIL

Client Sample ID: West End Bottom
Collection Date: 9/27/2017 8:50:00 AM
Received Date: 9/28/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	9/28/2017 10:50:10 AM	34122
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/28/2017 10:57:39 AM	34120
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/28/2017 10:57:39 AM	34120
Surr: DNOP	94.6	70-130		%Rec	1	9/28/2017 10:57:39 AM	34120
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2017 10:29:27 AM	34110
Surr: BFB	93.1	54-150		%Rec	1	9/28/2017 10:29:27 AM	34110
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	9/28/2017 10:29:27 AM	34110
Toluene	ND	0.049		mg/Kg	1	9/28/2017 10:29:27 AM	34110
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2017 10:29:27 AM	34110
Xylenes, Total	ND	0.099		mg/Kg	1	9/28/2017 10:29:27 AM	34110
Surr: 4-Bromofluorobenzene	102	66.6-132		%Rec	1	9/28/2017 10:29:27 AM	34110

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: McClanahan 8
Lab ID: 1709F45-004 **Matrix:** SOIL

Client Sample ID: West End Walls
Collection Date: 9/27/2017 8:55:00 AM
Received Date: 9/28/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	9/28/2017 11:02:34 AM	34122
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/28/2017 11:22:10 AM	34120
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2017 11:22:10 AM	34120
Surr: DNOP	96.9	70-130		%Rec	1	9/28/2017 11:22:10 AM	34120
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	9/28/2017 10:52:49 AM	34110
Surr: BFB	92.9	54-150		%Rec	1	9/28/2017 10:52:49 AM	34110
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	9/28/2017 10:52:49 AM	34110
Toluene	ND	0.038		mg/Kg	1	9/28/2017 10:52:49 AM	34110
Ethylbenzene	ND	0.038		mg/Kg	1	9/28/2017 10:52:49 AM	34110
Xylenes, Total	ND	0.076		mg/Kg	1	9/28/2017 10:52:49 AM	34110
Surr: 4-Bromofluorobenzene	103	66.6-132		%Rec	1	9/28/2017 10:52:49 AM	34110

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709F45**

02-Oct-17

Client: Williams Field Services

Project: McClanahan 8

Sample ID	**MB-34122**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**34122**	RunNo:	**45955**				
Prep Date:	**9/28/2017**	Analysis Date:	**9/28/2017**	SeqNo:	**1462094**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-34122**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**34122**	RunNo:	**45955**				
Prep Date:	**9/28/2017**	Analysis Date:	**9/28/2017**	SeqNo:	**1462095**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709F45**

02-Oct-17

Client: Williams Field Services

Project: McClanahan 8

Sample ID **LCS-34120**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **34120**	RunNo: **45951**
Prep Date: **9/28/2017**	Analysis Date: **9/28/2017**	SeqNo: **1460551** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.2	73.2	114			
Surr: DNOP	4.4		5.000		87.2	70	130			

Sample ID **MB-34120**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **34120**	RunNo: **45951**
Prep Date: **9/28/2017**	Analysis Date: **9/28/2017**	SeqNo: **1460552** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.1	70	130			

Sample ID **1709F45-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **East End Wall**	Batch ID: **34120**	RunNo: **45951**
Prep Date: **9/28/2017**	Analysis Date: **9/28/2017**	SeqNo: **1460969** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.05	2.825	84.8	55.8	122			
Surr: DNOP	4.7		5.005		93.1	70	130			

Sample ID **1709F45-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **East End Wall**	Batch ID: **34120**	RunNo: **45951**
Prep Date: **9/28/2017**	Analysis Date: **9/28/2017**	SeqNo: **1460970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.5	47.48	2.825	86.3	55.8	122	3.29	20	
Surr: DNOP	4.4		4.748		92.5	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709F45**

02-Oct-17

Client: Williams Field Services

Project: McClanahan 8

Sample ID **MB-34110**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **34110**	RunNo: **45958**
Prep Date: **9/27/2017**	Analysis Date: **9/28/2017**	SeqNo: **1461508** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.0	54	150			

Sample ID **LCS-34110**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **34110**	RunNo: **45958**
Prep Date: **9/27/2017**	Analysis Date: **9/28/2017**	SeqNo: **1461509** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	76.4	125			
Surr: BFB	1000		1000		102	54	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709F45**

02-Oct-17

Client: Williams Field Services

Project: McClanahan 8

Sample ID **MB-34110**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **34110**	RunNo: **45958**
Prep Date: **9/27/2017**	Analysis Date: **9/28/2017**	SeqNo: **1461547** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	66.6	132			

Sample ID **LCS-34110**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **34110**	RunNo: **45958**
Prep Date: **9/27/2017**	Analysis Date: **9/28/2017**	SeqNo: **1461559** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	66.6	132			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1709F45 RcptNo: 1

Received By: Sophia Campuzano 9/28/2017 7:30:00 AM Sophia Campuzano
Completed By: Sophia Campuzano 9/28/2017 8:24:09 AM Sophia Campuzano
Reviewed By: ENM 9/28/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? _____
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes			

Chain-of-Custody Record

Client: WFS

Mailing Address: 1755 ARROYO DR
Bloom Field NM 87413

Phone #: 505-632-4475

email or Fax#: Kijun.Hong@williams.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: Same Day
☐ Standard ☑ Rush 9-28-17

Project Name: McClanahan 8

Project #:

Project Manager: Kijun Hong

Sampler: Morgan Killion

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1709F45	BTEX + ~~MTBE~~ + ~~TMB~~'s (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
9/27/17	8:45	soil	East End Wall	1-402	Cool	-001	X		X									X				
9/27/17	8:40	soil	East End Bottom	1-402	"	-002	X		X									X				
9/27/17	8:50	soil	West End Bottom	1-402	"	-003	X		X									X				
9/27/17	8:55	soil	West End Walls	1-402	"	-004	X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/27/17	1725	Morgan Killion	Christine Walker	9/27/17	1725
9/27/17	1826	[illegible]	Sophia Cruz	09/28/17	0730

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company Williams Four Corners LLC	Contact Michael Hannan
Address 1755 Arroyo Dr., Bloomfield, NM 87413	Telephone No. (505) 632-4807
Facility Name Milagro	Facility Type Gas Treating Plant

Surface Owner Williams	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	12	29N	11W					San Juan

Latitude 36.735966° N **Longitude** -107.942329° W NAD83

NATURE OF RELEASE

Type of Release Amine/Water Mixture (50/50)	Volume of Release 120 bbls	Volume Recovered 119 bbls
Source of Release Pressure Relief Valve	Date and Hour of Occurrence 09/04/2017 16:00 PM	Date and Hour of Discovery 09/04/2017 16:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Vanessa Fields (OCD)	
By Whom? Michael Hannan	Date and Hour 09/05/17 16:20	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3
SEP 14 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The pressure relief valve (PRV) lifted on a carbon filter vessel, causing approximately 120 barrels (bbls) of 50/50 mixture of amine/water liquid to release from the PRV. Approximately 119 bbls was recovered from the concrete secondary containment and approximately 30 gallons (3/4 bbl) was released into the gravel base surrounding the containment. An investigation is underway to determine the cause of the release.

Describe Area Affected and Cleanup Action Taken.*

Impacted soil was excavated to the extent of visual impacts. The attached photographs show the impacted area after cleanup was completed. The impacted soil (approximately 6 cubic yards) will be disposed of in accordance with applicable laws and regulations.

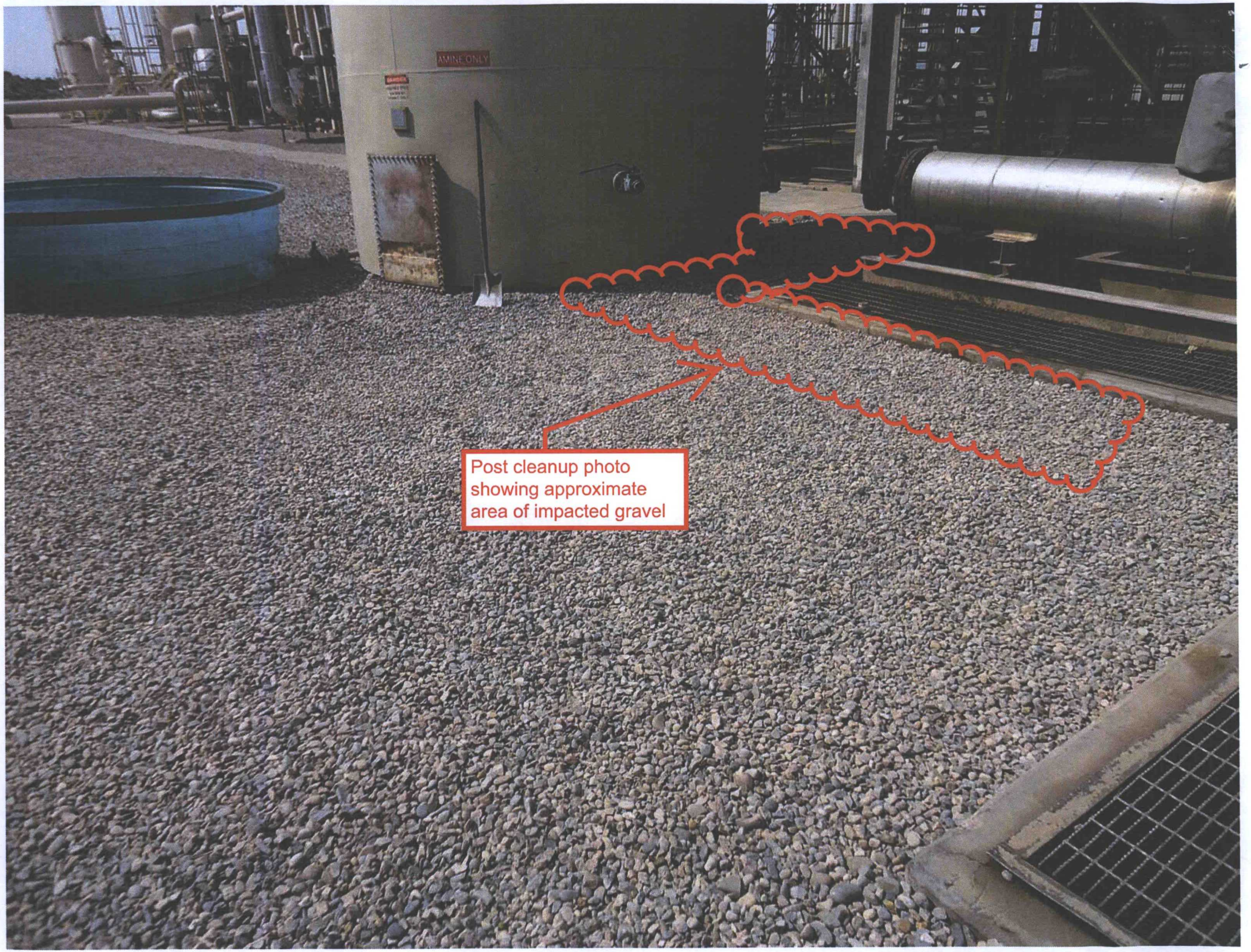
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger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

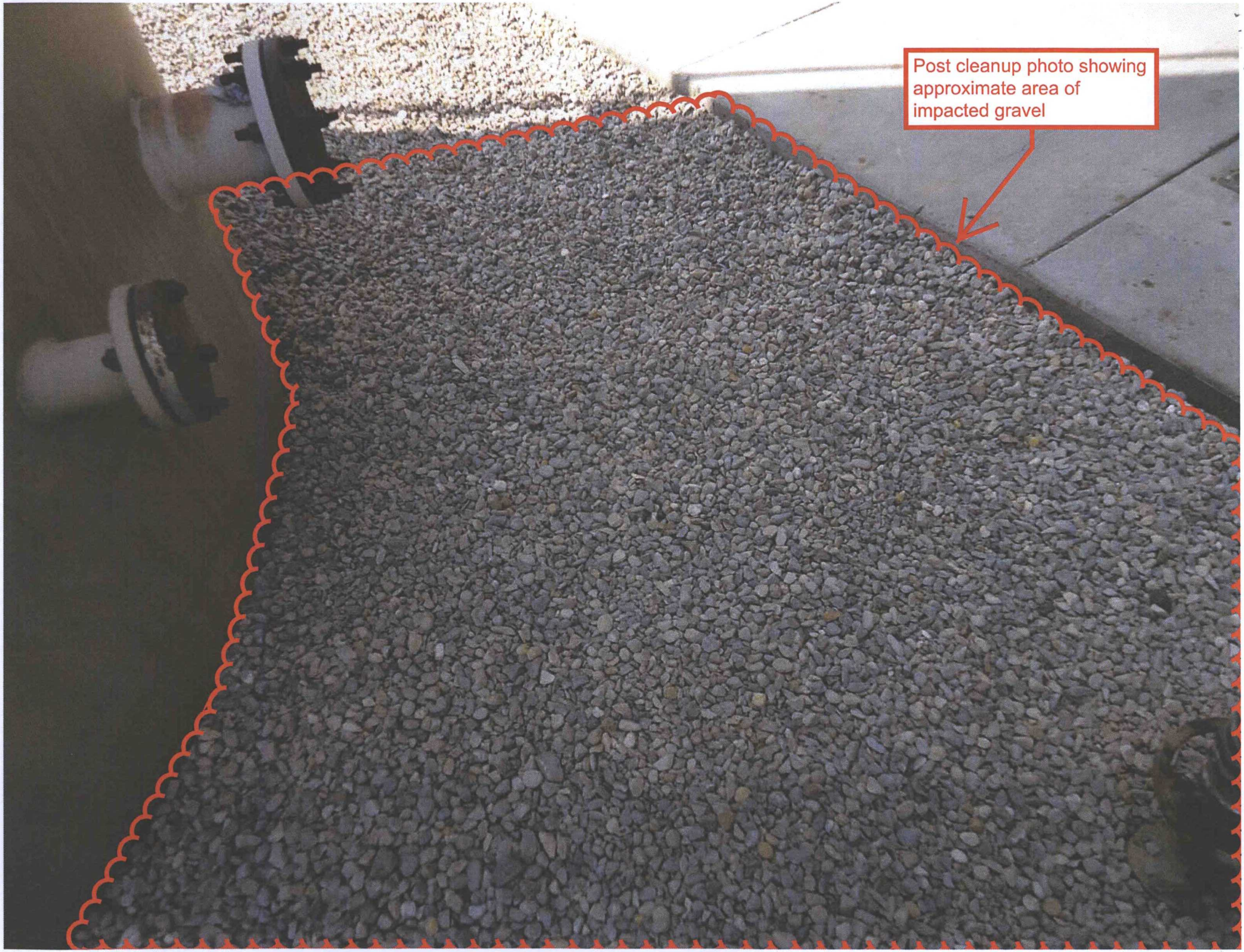
Signature:	OIL CONSERVATION DIVISION
Printed Name: Michael Hannan	Approved by Environmental Specialist:
Title: Engineer, Sr.	Approval Date: 10/3/2017 Expiration Date:
E-mail Address: michael.hannan@williams.com	Conditions of Approval: — Attached ☐
Date: 09/11/2017 Phone: (505) 632-4807	

* Attach Additional Sheets If Necessary

NVF1727638427

3


AMINE ONLY
Post cleanup photo showing approximate area of impacted gravel


Post cleanup photo showing approximate area of impacted gravel

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State of New Mexico
Energy Minerals and Natural Resources

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

OIL CONS. DIV DIST. 3
SEP 18 2017

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Culpepper**	Facility Type: **Compressor Station**

Surface Owner: **BLM**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	**1**	**31N**	**13W**					**San Juan**

Latitude 36.933175 Longitude -108.149058

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **156.6 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pipeline**	Date and Hour of Occurrence: **08/29/2017 at 10:00 AM**	Date and Hour of Discovery: **08/29/2017 at 3:30 PM**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Cory Smith and Vanessa Fields**	
By Whom? **Kijun Hong**	Date and Hour: **8/30/2017 at 12:39 PM**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
The inlet scrubber dump valve to the tanks opened and never closed. Valve was blocked in immediately upon discover. Valve has been repaired.

Describe Area Affected and Cleanup Action Taken.*
There were no liquids associated with this release. No cleanup actions necessary.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 9/22/17 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: Attached ☐
Date: **09/12/2017** Phone: **(505) 632-4475**	—

* Attach Additional Sheets If Necessary

NVF1724828441

1

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **MN Galt J-2**	Facility Type: **Pipeline**

Surface Owner: **BLM**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	**6**	**27N**	**10W**					**San Juan**

Latitude 36.61023 Longitude -107.94244

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **80 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pipeline**	Date and Hour of Occurrence: **08/10/2017 at 9:00 AM**	Date and Hour of Discovery: **08/10/2017 at 9:00 AM**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **NA**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Natural gas released from a pipeline leak. The leak has been repaired.

Describe Area Affected and Cleanup Action Taken.*
Leak has been excavated and repaired. All impacts have been remediated. Please see attached form and sampling results for further information.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 10/3/2017 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: — Attached ☐
Date: **10/2/2017** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

NVF1727637643

OIL CONS. DIV DIST. 3
OCT 0 2 2017

11

Remediation Excavation and Sampling Form

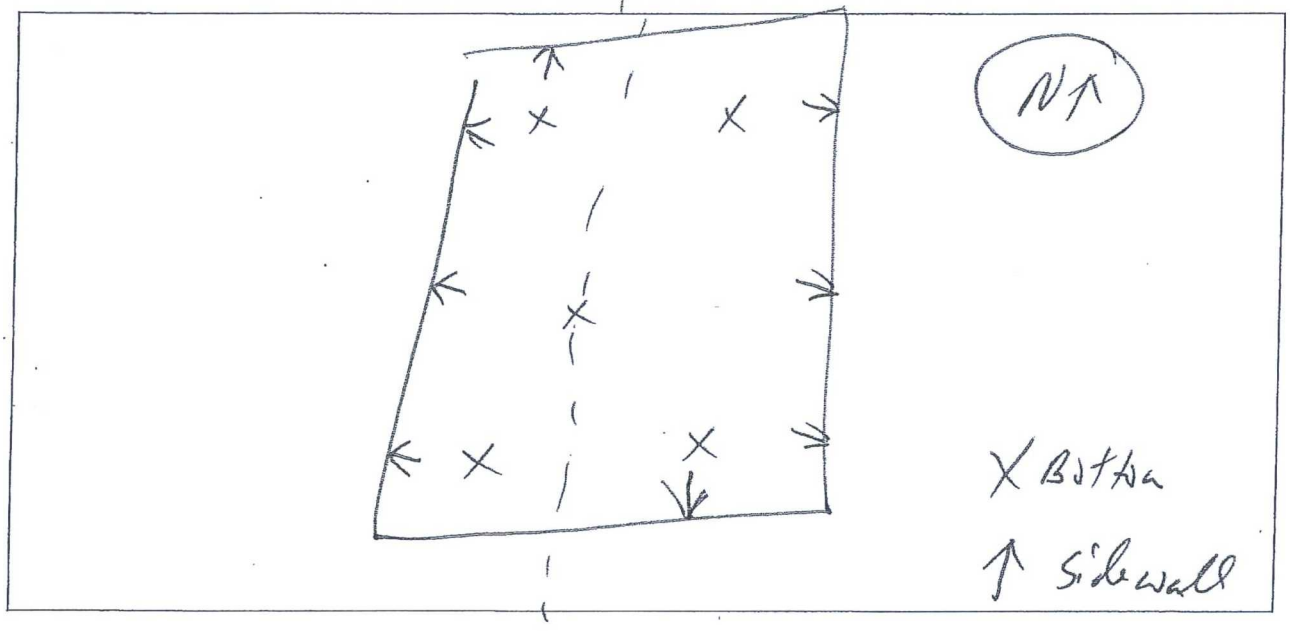
Site Name MW Galt J-2

Excavation Dimensions (feet)

16' Length 9' Width 7' Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



Sample Information

OCD Witness Sampling Yes or (No)

Agency(s) Representative(s) _____

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
001	8/25/17	Composite	Sidewall	101 ppm
002	8/25/17	Composite	Bottom	153 ppm

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 01, 2017

Kijun Hong
Williams Field Services
188 Co. Rd 4900
Bloomfield, NM 87413
TEL:
FAX

RE: MN Galt J-2 Line Leak OrderNo.: 1708F64

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/29/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1708F64**
Date Reported: **9/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: MN Galt J-2 Line Leak
Lab ID: 1708F64-001 **Matrix:** SOIL

Client Sample ID: Sidewalls
Collection Date: 8/25/2017 10:30:00 AM
Received Date: 8/29/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	8/29/2017 10:55:29 AM	33600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/29/2017 10:02:29 AM	33596
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/29/2017 10:02:29 AM	33596
Surr: DNOP	94.6	70-130		%Rec	1	8/29/2017 10:02:29 AM	33596
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/29/2017 10:24:49 AM	33586
Surr: BFB	74.8	54-150		%Rec	1	8/29/2017 10:24:49 AM	33586
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	8/29/2017 10:24:49 AM	33586
Toluene	ND	0.035		mg/Kg	1	8/29/2017 10:24:49 AM	33586
Ethylbenzene	ND	0.035		mg/Kg	1	8/29/2017 10:24:49 AM	33586
Xylenes, Total	ND	0.069		mg/Kg	1	8/29/2017 10:24:49 AM	33586
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	8/29/2017 10:24:49 AM	33586

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1708F64**
Date Reported: **9/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: MN Galt J-2 Line Leak
Lab ID: 1708F64-002 **Matrix:** SOIL

Client Sample ID: Bottom
Collection Date: 8/25/2017 10:40:00 AM
Received Date: 8/29/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	8/29/2017 11:07:54 AM	33600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/29/2017 10:26:53 AM	33596
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/29/2017 10:26:53 AM	33596
Surr: DNOP	96.8	70-130		%Rec	1	8/29/2017 10:26:53 AM	33596
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/29/2017 10:48:42 AM	33586
Surr: BFB	76.4	54-150		%Rec	1	8/29/2017 10:48:42 AM	33586
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	8/29/2017 10:48:42 AM	33586
Toluene	ND	0.036		mg/Kg	1	8/29/2017 10:48:42 AM	33586
Ethylbenzene	ND	0.036		mg/Kg	1	8/29/2017 10:48:42 AM	33586
Xylenes, Total	ND	0.073		mg/Kg	1	8/29/2017 10:48:42 AM	33586
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	8/29/2017 10:48:42 AM	33586

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F64**

01-Sep-17

Client: Williams Field Services

Project: MN Galt J-2 Line Leak

Sample ID **MB-33600**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **33600**	RunNo: **45280**
Prep Date: **8/29/2017**	Analysis Date: **8/29/2017**	SeqNo: **1434989** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-33600**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **33600**	RunNo: **45280**
Prep Date: **8/29/2017**	Analysis Date: **8/29/2017**	SeqNo: **1434990** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F64**

01-Sep-17

Client: Williams Field Services

Project: MN Galt J-2 Line Leak

Sample ID **LCS-33596**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **33596**	RunNo: **45262**
Prep Date: **8/29/2017**	Analysis Date: **8/29/2017**	SeqNo: **1433905** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.0	73.2	114			
Surr: DNOP	4.4		5.000		87.1	70	130			

Sample ID **MB-33596**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **33596**	RunNo: **45262**
Prep Date: **8/29/2017**	Analysis Date: **8/29/2017**	SeqNo: **1433906** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F64**

01-Sep-17

Client: Williams Field Services

Project: MN Galt J-2 Line Leak

Sample ID **MB-33586**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **33586**	RunNo: **45278**
Prep Date: **8/28/2017**	Analysis Date: **8/29/2017**	SeqNo: **1434463** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	750		1000		75.1	54	150			

Sample ID **LCS-33586**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **33586**	RunNo: **45278**
Prep Date: **8/28/2017**	Analysis Date: **8/29/2017**	SeqNo: **1434464** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.9	76.4	125			
Surr: BFB	870		1000		87.2	54	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F64**

01-Sep-17

Client: Williams Field Services

Project: MN Galt J-2 Line Leak

Sample ID **MB-33586**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **33586**	RunNo: **45278**
Prep Date: **8/28/2017**	Analysis Date: **8/29/2017**	SeqNo: **1434472** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	66.6	132			

Sample ID **LCS-33586**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **33586**	RunNo: **45278**
Prep Date: **8/28/2017**	Analysis Date: **8/29/2017**	SeqNo: **1434473** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.3	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	66.6	132			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1708F64 RcptNo: 1

Received By: Isaiah Ortiz 8/29/2017 8:00:00 AM

Completed By: Erin Melendrez 8/29/2017 8:31:09 AM

Reviewed By: JMO 8.29.17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			

Chain-of-Custody Record

Client: WFS

#8

Mailing Address: 188 CR 4900

Bloomfield NM 87413

Phone #:

email or Fax#: Kijun.Hong@williams.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: 8-29-17

☐ Standard ☑ Rush ~~2 day~~ 5 day

Project Name: MN-Gelt J-2 Line Leak

Project #:

Project Manager: Kijun Hong

Sampler: Morgan Killion

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1708F64	BTEX + ~~MTBE~~ + ~~TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRD)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
8/28/17	1030	soil	sidewalls	1-402	Cool	-001	X		X									X				
8/25/17	1040	soil	Bottom	1-402	↓	-002	X		X									X				

Date	Time	Relinquished by:	Received by:	Date	Time
8/28/17	1700			8/28/17	1700
8/28/17	2041			8/29/17	08:00

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

OIL CONS. DIV DIST. 3

SEP 06 2017

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Williams Four Corners LLC	Contact Michael Hannan
Address 1755 Arroyo Drive	Telephone No. 505-632-4807
Facility Name Royce Canyon Former Drip Tank Location	Facility Type Former Tank Battery

Surface Owner Private	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	11	29N	6W					San Juan

Latitude 36.741548° N **Longitude** -107.43981° W

NATURE OF RELEASE

Type of Release Petroleum Hydrocarbons	Volume of Release unknown	Volume Recovered none so far
Source of Release Historical Operations	Date and Hour of Occurrence Unknown	Date and Hour of Discovery June 27, 2017
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. Not Applicable	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

Describe Cause of Problem and Remedial Action Taken.*

Williams discovered an area impacted by historical operations. A five-point composite soil samples was taken on October 5, 2015. On August 11, 2017, potholes were advanced to approximately 4-5 feet bgs in the corners of the excavation. Visual impacts were noted in the northeast corner of the site.

Describe Area Affected and Cleanup Action Taken.*

The affected area is a former drip tank battery. The attached delineation plan contains Williams' plans to assess the site impacts. Based on the results, Williams will propose an appropriate remediation strategy.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Michael Hannan	Approved by Environmental Specialist:	
Title: Engineer, Sr.	Approval Date: 9/13/17	Expiration Date:
E-mail Address: michael.hannan@williams.com	Conditions of Approval: See Attached	Attached ☒
Date: 9/5/2017 Phone: 505-632-4807		

* Attach Additional Sheets If Necessary

#NCS1725641856 3R-1013

19

Smith, Cory, EMNRD

From: Smith, Cory, EMNRD
Sent: Wednesday, September 13, 2017 11:49 AM
To: 'Galer, Aaron'
Cc: Hannan, Michael; Fields, Vanessa, EMNRD; Powell, Brandon, EMNRD; Webre, Matt
Subject: RE: [EXTERNAL] RE: Royce Canyon Former Drip Delineation Plan
Attachments: C-141 Conditions Royce Canyon Williams.pdf

Aaron,

OCD has approved Williams proposed delineation plan for the Royce Canyon Former Drip Tank Location received on 9/6/17 with the following conditions of approval. These conditions of approval will be attached to the hard copy.

Conditions of Approval:

- Following the NMOCD Guidelines for Remediation's of Leaks, Spills and Releases the remediation's levels for soils at the Royce Canyon Former Drip Tank Location are as follows 10 mg/kg Benzene, 50 mg/kg BTEX and 1,000 mg/kg TPH
- Williams will fully delineate the release both horizontally and vertically. Boreholes that exceeded 100ppm OVM or exhibit heavy staining and/or apparent hydrocarbon impacts will be considered impacted until sampled.
- Delineation must be completed by November 13, 2017.
- Williams will provide the OCD at least 72 hour but no more than 1 week notification prior to the start of delineation activities.
- Within 30 days of completion of delineation Williams will submit to the OCD a delineation report and proposed alternative remediation plan.

Please let me know if you have any questions.

Thank you,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

-----Original Message-----
From: Galer, Aaron [mailto:Aaron.Galer@Williams.com]
Sent: Tuesday, September 5, 2017 3:37 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Hannan, Michael <Michael.Hannan@Williams.com>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Webre, Matt

<Matt.Webre@Williams.com>
Subject: Re: [EXTERNAL] RE: Royce Canyon Former Drip Delineation Plan

I will have a corrected figure submitted to you tomorrow.

> On Sep 5, 2017, at 2:51 PM, Smith, Cory, EMNRD <Cory.Smith@state.nm.us> wrote:
>
> Aaron,
>
> The plan attached to the original email does not show the extent of the excavation in figure 1 nor does it detail the size in the document. The proposed boreholes shown in figure 1 are approximately 50' apart according to the scale.
>
> Cory Smith
> Environmental Specialist
> Oil Conservation Division
> Energy, Minerals, & Natural Resources
> 1000 Rio Brazos, Aztec, NM 87410
> (505)334-6178 ext 115
> cory.smith@state.nm.us<mailto:cory.smith@state.nm.us>
>
> From: Galer, Aaron [mailto:Aaron.Galer@Williams.com]
> Sent: Tuesday, September 5, 2017 2:26 PM
> To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
> Cc: Hannan, Michael <Michael.Hannan@Williams.com>; Fields, Vanessa,
> EMNRD <Vanessa.Fields@state.nm.us>; Powell, Brandon, EMNRD
> <Brandon.Powell@state.nm.us>; Webre, Matt <Matt.Webre@Williams.com>
> Subject: Re: [EXTERNAL] RE: Royce Canyon Former Drip Delineation Plan
>
> Cory,
>
> I'll be managing both of these projects moving forward. No samples were collected on August 11th. As reported in the delineation plan, potholes were advanced in the four corners of the excavation and visual observations were made. We intend to advance the initial borings approximately 15 feet outside the previous excavation (shown on the figure). If those do not show obvious impacts, we may chose to step in to reduce the size of the remedial area. As far as schedule, we'd like to coordinate this work with the Dogie and Jicarilla site delineations planned for later this month. Let me know if our plan is sufficient.
>
>
> On Sep 5, 2017, at 1:54 PM, Smith, Cory, EMNRD
<Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>> wrote:
> Michael,
>
> Thank you for the update Vanessa will be your contact for the Trunk S/Trunk D/ F-16 Lateral for future communications for the Royce Canyon site I will be your contact.
>
> I have a few questions below.
>

>
> * I was under the impression based of our previous phone calls that there were samples collected on Aug 11, 2017?
> * Where are the Aug 11, 2017 potholes located?
> * Williams initial proposed BH are approximately 50' offset from each other does Williams plan to step in for further delineation if the BH's show no obvious signs of impacts?
> * Does Williams have a proposed timeline to start delineation activities as there is none mentioned in the delineation plan?
>
> Thanks you,
>
> Cory Smith
> Environmental Specialist
> Oil Conservation Division
> Energy, Minerals, & Natural Resources
> 1000 Rio Brazos, Aztec, NM 87410
> (505)334-6178 ext 115
> cory.smith@state.nm.us<mailto:cory.smith@state.nm.us>
>
> From: Hannan, Michael [mailto:Michael.Hannan@Williams.com]
> Sent: Tuesday, September 5, 2017 1:17 PM
> To: Fields, Vanessa, EMNRD
> <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>
> Cc: Smith, Cory, EMNRD
> <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Powell,
> Brandon, EMNRD
> <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>;
> Webre, Matt <Matt.Webre@Williams.com<mailto:Matt.Webre@Williams.com>>;
> Galer, Aaron
> <Aaron.Galer@Williams.com<mailto:Aaron.Galer@Williams.com>>
> Subject: Royce Canyon Former Drip Delineation Plan
>
> Vanessa,
>
> Please find attached an initial C-141 with a delineation plan for the above referenced site. A hard copy will be hand-delivered to your office by COB today.
>
> Regards,
> Mike
>
>
>
> <image002.png><http://co.williams.com/>Michael S. Hannan, P.E. |
> Williams | Engineer, Sr. | FCA Environmental Services
> Office: 505-632-4807 | Cell: 505-215-7274 | 1755 Arroyo Dr.,
> Bloomfield, NM 87402
> <image001.png><http://co.williams.com/williams/careers/><image003.png>
> <https://urldefense.proofpoint.com/v2/url?u=https-3A__www.facebook.com

> _WilliamsCareers&d=DwMFAg&c=-rOy2AjDSjLZM5Ky932q_A&r=yU85Md5bQIPFzlfyD
> 9GYP-25QJQ7ui3kuRJ7JcXEmyQ&m=INS0tKUg1oMYMUlX8omEMiB-0wLb3bff1D0Z71uRa
> 0U&s=Elj2kzrOfNT5rvMils9KZsSGBwarFNBCiXNGC_2S6KM&e=><image005.png><htt
> ps://urldefense.proofpoint.com/v2/url?u=https-3A__twitter.com_Williams
> Careers&d=DwMFAg&c=-rOy2AjDSjLZM5Ky932q_A&r=yU85Md5bQIPFzlfyD9GYP-25QJ
> Q7ui3kuRJ7JcXEmyQ&m=INS0tKUg1oMYMUlX8omEMiB-0wLb3bff1D0Z71uRa0U&s=WFyp
> MuHRKDVeaahHPEbuBHsexfqvpPKkxncTHTztgyQ&e=>
> <image007.png><https://urldefense.proofpoint.com/v2/url?u=http-3A__www
> .linkedin.com_company_50711-3Ftrk-3Dtyah&d=DwMFAg&c=-rOy2AjDSjLZM5Ky93
> 2q_A&r=yU85Md5bQIPFzlfyD9GYP-25QJQ7ui3kuRJ7JcXEmyQ&m=INS0tKUg1oMYMUlX8
> omEMiB-0wLb3bff1D0Z71uRa0U&s=fddr5ZnFNK4B0HS8bsj7fVkSksn5QzP61LQVQpwyq
> qE&e=>
> <image009.png><https://urldefense.proofpoint.com/v2/url?u=https-3A__ww
> w.youtube.com_user_WilliamsEnergyCo&d=DwMFAg&c=-rOy2AjDSjLZM5Ky932q_A&
> r=yU85Md5bQIPFzlfyD9GYP-25QJQ7ui3kuRJ7JcXEmyQ&m=INS0tKUg1oMYMUlX8omEMi
> B-0wLb3bff1D0Z71uRa0U&s=dFN3lN2MBRaT7WGYrmwtJeeh-296sSGeF_O1pbb7uxs&e=
> >
> <image011.png><https://urldefense.proofpoint.com/v2/url?u=https-3A__ww
> w.instagram.com_williamsenergy_&d=DwMFAg&c=-rOy2AjDSjLZM5Ky932q_A&r=yU
> 85Md5bQIPFzlfyD9GYP-25QJQ7ui3kuRJ7JcXEmyQ&m=INS0tKUg1oMYMUlX8omEMiB-0w
> Lb3bff1D0Z71uRa0U&s=TEd4slz5Yge2bWWGHv9qr3Frw01um4KwnPuPpQG4qv4&e=>
> <image013.jpg><https://blog.williams.com/>
>
> If you have received this message in error, please reply to advise the sender of the error and then immediately delete this message.
>
> _____
> This email originates outside of Williams. Use caution if this message contains attachments, links or requests for information.
> _____
> <Rouce Canyon figre 1.png>

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 9/6/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number NCS1725648856 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District III office in Aztec on or before N/A. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
848 East 2nd Avenue
Durango, Colorado 81301
T 970.385.1096 / F 970.385.1873

September 1, 2017

Ms. Vanessa Fields
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

RE: Proposed Impacted Soil Delineation Work Plan
Royce Canyon Former Drip Tank Location
Williams Four Corners LLC
San Juan County, New Mexico

Dear Ms. Fields:

LT Environmental, Inc. (LTE), on behalf of Williams Four Corners LLC (Williams), proposes the following work plan to address impacted soils at the Royce Canyon Former Drip Tank (Site) located in the southwest quarter of the northwest quarter of Section 11 within Township 29 North and Range 6 West in the San Juan Basin in San Juan County, New Mexico.

BACKGROUND

Soil at the Site is impacted by petroleum hydrocarbons due to a release from the former drip tank. Impacted soil was sampled on October 5, 2015, in a five-point composite sample from locations within the former secondary containment (Figure 1). Impact to soil in the excavation area is characterized by a concentration of 1,700 milligram per kilogram (mg/kg) total petroleum hydrocarbons (TPH) - diesel range organics (DRO). No benzene, toluene, ethylbenzene, or total xylenes (BTEX) or TPH-gasoline range organics (GRO) and TPH-motor oil range organics (MRO) were detected. On August 11, 2017, potholes were advanced to approximately 4 feet to 5 feet below ground surface (bgs) in the corners of the excavation. Field observations indicated the northeast corner of the excavation was impacted, but no visual impact was observed in the northwest, southwest, or southeast corners.

Groundwater at the Site is estimated to be greater than 100 feet bgs. There is no water well or livestock well within 1,000 feet of the Site and the closest livestock well is approximately 1,459 feet northwest of the Site. The nearest surface water is a dry wash located approximately 258 feet southwest of the Site. Based on these criteria New Mexico Oil Conservation Division (NMOCD) site ranking for remediation action levels is a 10 and the TPH action level is 1,000 mg/kg.

PROPOSED DELINEATION

LTE proposes to install five new soil borings to delineate the impact to soil (Figure 1): one soil boring in the approximate location as the former drip tank excavation to delineate depth, and four boreholes outside of the former drip tank excavation. Each new soil boring will be advanced using a hollow stem auger and split spoon hammer sampler. Soil samples will be collected every five feet and logged by an LTE geologist using the Unified Soil Classification System (USCS). Each

five-foot interval, as well as any soil that is stained or has a hydrocarbon odor, will be screened for volatile aromatic hydrocarbons using a photo-ionization detector (PID). Soil samples with the highest PID reading and a bottom hole soil sample will be collected from each borehole to be submitted to a certified laboratory for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021 and TPH –GRO, DRO, and MRO by EPA Method 8015. Additional soil borings will be advanced radially in approximately 50-foot intervals from any soil boring demonstrating significant evidence of hydrocarbon impacts. The soil borings will be advanced to below the extent of soil impacted above NMOCD standards based on site ranking.

LTE will complete all work in accordance with industry-accepted practices. LTE will survey the locations of the soil borings with a Trimble® GeoExplorer® 6000 series Global Positioning System (GPS) to determine the latitude and longitude. Field activities will be documented in a bound field book and soil descriptions will be documented on a boring log. Observations to be noted on the boring log will include, but not be limited to, lithology, moisture content, staining, soil boring depth, latitude, longitude, project number, and comments. All down-hole drilling equipment will be thoroughly decontaminated prior to each use. If impacted soil is identified within a borehole, the impacted cuttings will be drummed and transported to the Envirotech, Inc. Landfarm in Hilltop, New Mexico.

REMEDIATION

Williams will prepare a report documenting all field activities and describing results. The report will include site maps and a table of laboratory analytical results. Based on the results of the delineation, Williams will propose an appropriate remediation strategy.

LTE appreciates the opportunity to provide this proposed work plan to the NMOCD. If you have any questions or comments regarding this plan, do not hesitate to contact me at (970) 385-1096 or via email at aager@ltenv.com or Aaron Galer at Williams at (801) 584-6746 or Aaron.Galer@Williams.com.

Sincerely,

LT ENVIRONMENTAL, INC.

Ashley L. Ager

Ashley Ager
Senior Geologist

Attachment

Figure 1 – Site Location

FIGURE

LEGEND

- PROPOSED SOIL BORING
- AUGUST 2017 VISUAL OBSERVATION LOCATIONS (5 FT TRENCH)

IMAGE COURTESY OF ESRI

0 60 120

Feet

N

FIGURE 1
SITE MAP
ROYCE CANYON FORMER DRIP TANKS
RIO ARRIBA COUNTY, NEW MEXICO

WILLIAMS FOUR CORNERS, LLC

P:\Williams Four Corners\GIS\MXD_FORMER DRIP TANK_BILL SMITH.mxd

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 13, 2015

Kelsey Christiansen
Williams Field Services
188 Co. Rd 4900
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: Bill Smith 5 Point Composite OrderNo.: 1510207

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/6/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1510207**
Date Reported: **10/13/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Bill Smith 5 Point Composite
Lab ID: 1510207-001 **Matrix:** SOIL

Client Sample ID: Bill Smith 5 Point Composite
Collection Date: 10/5/2015 11:30:00 AM
Received Date: 10/6/2015 8:11:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	10/9/2015 2:00:34 PM	21767
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	1700	98		mg/Kg	10	10/9/2015 4:55:21 AM	21679
Surr: DNOP	0	57.9-140	S	%REC	10	10/9/2015 4:55:21 AM	21679
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/7/2015 9:12:49 PM	21694
Surr: BFB	90.0	75.4-113		%REC	1	10/7/2015 9:12:49 PM	21694
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.046		mg/Kg	1	10/7/2015 9:12:49 PM	21694
Toluene	ND	0.046		mg/Kg	1	10/7/2015 9:12:49 PM	21694
Ethylbenzene	ND	0.046		mg/Kg	1	10/7/2015 9:12:49 PM	21694
Xylenes, Total	ND	0.093		mg/Kg	1	10/7/2015 9:12:49 PM	21694
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	10/7/2015 9:12:49 PM	21694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1510207**

13-Oct-15

Client: Williams Field Services

Project: Bill Smith 5 Point Composite

Sample ID	**MB-21767**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**21767**	RunNo:	**29458**					
Prep Date:	**10/9/2015**	Analysis Date:	**10/9/2015**	SeqNo:	**895859**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-21767**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**21767**	RunNo:	**29458**					
Prep Date:	**10/9/2015**	Analysis Date:	**10/9/2015**	SeqNo:	**895860**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1510207**

13-Oct-15

Client: Williams Field Services

Project: Bill Smith 5 Point Composite

Sample ID **MB-21652**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **21652**	RunNo: **29273**
Prep Date: **10/5/2015**	Analysis Date: **10/5/2015**	SeqNo: **890900** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		78.7	57.9	140			

Sample ID **LCS-21652**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **21652**	RunNo: **29273**
Prep Date: **10/5/2015**	Analysis Date: **10/5/2015**	SeqNo: **890901** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.7	57.9	140			

Sample ID **MB-21679**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **21679**	RunNo: **29273**
Prep Date: **10/6/2015**	Analysis Date: **10/8/2015**	SeqNo: **894236** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		105	57.9	140			

Sample ID **LCS-21679**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **21679**	RunNo: **29273**
Prep Date: **10/6/2015**	Analysis Date: **10/8/2015**	SeqNo: **894238** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	57.4	139			
Surr: DNOP	5.6		5.000		112	57.9	140			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1510207**

13-Oct-15

Client: Williams Field Services

Project: Bill Smith 5 Point Composite

Sample ID **MB-21694**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **21694**	RunNo: **29364**
Prep Date: **10/6/2015**	Analysis Date: **10/7/2015**	SeqNo: **893258** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.0	75.4	113			

Sample ID **LCS-21694**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **21694**	RunNo: **29364**
Prep Date: **10/6/2015**	Analysis Date: **10/7/2015**	SeqNo: **893259** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	79.6	122			
Surr: BFB	960		1000		95.7	75.4	113			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1510207**

13-Oct-15

Client: Williams Field Services

Project: Bill Smith 5 Point Composite

Sample ID **MB-21694**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **21694**	RunNo: **29364**
Prep Date: **10/6/2015**	Analysis Date: **10/7/2015**	SeqNo: **893314** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID **LCS-21694**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **21694**	RunNo: **29364**
Prep Date: **10/6/2015**	Analysis Date: **10/7/2015**	SeqNo: **893315** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	96.8	80	120			
Toluene	0.93	0.050	1.000	0	93.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1510207 RcptNo: 1

Received by/date: 10/06/15

Logged By: Lindsay Mangin 10/6/2015 8:11:00 AM

Completed By: Lindsay Mangin 10/6/2015 10:03:08 AM

Reviewed By: CS 10/06/15

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

Chain-of-Custody Record

Client: WFS

Mailing Address: 188 CR 4900
Bloomfield Nm 87413

Phone #: 505 215 - 7433

email or Fax#: Kelsey.christiansen@williams.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name:
Bill Smith 5 point compsite

Project #:

Project Manager:
Kelsey Christiansen

Sampler: Morgan Killion

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1510207	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	C4 Levels				Air Bubbles (Y or N)
10/5/15	11:30	Soil	Bill Smith 5 point compsite	1-402	-	-001	X		4									X				

Analysis Request

Relinquished by:	Date	Time	Received by:	Date	Time
Morgan Killion	10/5/15	1327	Chant Walte	10/5/15	1327
Chant Walte	10/5/15	1900	[signature]	10/06/15	0811

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company Williams Four Corners LLC	Contact Michael Hannan
Address 1755 Arroyo Dr., Bloomfield, NM 87413	Telephone No. (505) 632-4807
Facility Name Horse Canyon	Facility Type Compressor Station

Surface Owner BLM	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	27	30N	9W					~~Rio Arriba~~ San Juan

Latitude 36.787621° N **Longitude** -107.761609° W NAD83

NATURE OF RELEASE

Type of Release Triethylene Glycol (TEG) mixed with rainwater and possibly minute amount of motor oil	Volume of Release 5-10 bbls	Volume Recovered 0 bbls
Source of Release Wastewater Evaporator Overflow Tank Secondary Containment	Date and Hour of Occurrence 7/27/2017 unknown hour	Date and Hour of Discovery 07/28/2017 11:45 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Cory Smith (NMOCD) Whitney Thomas (BLM); voice mail	OIL CONS. DIV DIST. 3
By Whom? Michael Hannan	Date and Hour 07/28/2017 12:30 PM (NMOCD) 07/28/2017 12:45 PM (BLM)	AUG 17 2017
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Upon arrival at the Horse Canyon Compressor Station on 7/28/17 at approximately 11:45 a.m., an offsite release was discovered. It was quickly ascertained that the release source was the wastewater evaporator overflow tank containment. The overflow tank contained a mixture of spent triethylene glycol (TEG), rainwater, and a possibly a minute amount of motor oil.

Liquids were immediately removed from the tank and secondary containment area. An incident investigation was conducted on 07/31/2017 (the Monday following the discovery). The causes of the incident were determined to be failure of both the wastewater evaporator and overflow tank high level switch shutoffs. Redesign of both systems has been completed and recurring preventive maintenance checks set up in the work order system. Additionally, procedures regarding managing the wastewater evaporation system have been revised. In addition to Williams' personnel, the revised procedures have been communicated to all water hauling companies that transport/offload wastewater to Horse Canyon.

Describe Area Affected and Cleanup Action Taken.*

Heavy precipitation the previous evening resulted in runoff that carried the material offsite for a distance of approximately 200 linear yards. A cleanup crew was immediately dispatched to the location and excavated visually contaminated soil. Approximately 130 cubic yards of excavated soil was disposed of in accordance with the applicable regulations. The NMOCD, in consultation with the BLM, directed sampling to take place on 08/01/2017 for the following constituents: BTEX, TPH (including MRO) and chlorides. The samples were to consist of a 5-point composite every 200 linear feet (i.e., one grab sample per 50 linear feet with every 4 samples being composited).

On 08/01/2017 at approximately 10 a.m., personnel from the relevant parties (i.e., Williams, NMOCD, BLM) arrived onsite to direct and observe sampling being conducted by Williams' contractor LT Environmental, Inc. (LTE). The collected samples were non-detect for all constituents for which analytical testing was conducted. LTE's report, including the lab results, is attached.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: Michael Hannan	Approved by Environmental Specialist:
Title: Engineer, Sr.	Approval Date: 8/31/2017 Expiration Date:
E-mail Address: michael.hannan@williams.com	Conditions of Approval: Attached ☐
Date: 08/14/2017 Phone: (505) 632-4807	–

* Attach Additional Sheets If Necessary

NVF1724339796

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental Inc.

848 East 2nd Avenue
Durango, Colorado 81301
T 970.385.1096 / F 970.385.1873

August 11, 2017

Mr. Michael Hannan
Williams Four Corners LLC
188 County Road 4900
Bloomfield, New Mexico 87413

RE: Soil Sampling Report
Williams Four Corners LLC
Horse Canyon CDP Release
San Juan County, New Mexico

Dear Mr. Hannan:

LT Environmental, Inc. (LTE) is pleased to present to Williams Four Corners LLC (Williams) the following letter report detailing the collection of soil samples on and off site at the Horse Canyon CDP in Section 27 of Township 30 North, Range 9 West in San Juan County, New Mexico (Figure 1). The purpose of the investigation was to assess impacts to soil after an evaporator and an overflow tank shutoff switch failed causing a release into a containment area. The release overflowed the containment and flowed across the pad down an unnamed drainage on July 28, 2017. LTE met Michael Hannan (Williams), Vanessa Fields (New Mexico Oil and Gas Conservation (NMOCD)), and Whitney Thomas (Bureau of Land Management (BLM) Farmington Field Office) to investigate potential impact to soil on August 1, 2017.

SOIL SAMPLING

LTE collected four soil samples at the Site on August 1, 2017. Three samples (CS-01, CS-02, and CS-03) were five-point composite samples with the aliquots collected approximately every 50 feet (Figure 2). Equal parts were collected from each location and mixed thoroughly in a Ziploc® bag. A grab sample (SS-01) was collected at the terminus (as indicated by Williams) of the release. Field screening of each sample was conducted with a photo-ionization detector (PID) equipped with a 10.6 electron volt lamp in accordance with the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, August 13, 1993. Field screening results are summarized in Table 1. Soil samples were collected in pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis and immediately placed on ice. The samples were delivered at 4 degrees Celsius (°C) under strict chain-of-custody procedures to Hall Environmental Analytical Laboratory Sciences (HEAL) in Albuquerque, New Mexico. The soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) 8021B, chloride by USEPA method 300.0, and total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) TPH-diesel range organics (DRO), and TPH-motor oil range organics (MRO) by USEPA Method 8015D.

FIELD AND ANALYTICAL RESULTS

No visual staining or hydrocarbon odors were observed in any samples collected. Field screening results were 0.0 parts per million (ppm) in all samples except CS-01 which had a reading of 0.7 ppm. Laboratory analytical results for all soil samples reported all analytes below laboratory detection limits. Analytical data are presented in Table 1, and the complete HEAL laboratory analytical report is included as Attachment 1.

CONCLUSIONS

Laboratory analytical results of soil samples collected within the release footprint indicate no impact to soil exists at the Site as a result of the release.

LTE appreciates the opportunity to provide this report to Williams. If you have any questions or comments regarding this plan, do not hesitate to contact me at (970) 385-1096 or via email at bherb@ltenv.com.

Sincerely,
LT ENVIRONMENTAL, INC.

Brooke Herb
Project Geologist

Ashley L. Ager, M.S.
Senior Geologist

Attachments (4)

FIGURES

LEGEND

IMAGE COURTESY OF ESRI/USGS

SITE LOCATION

0 2,000 4,000

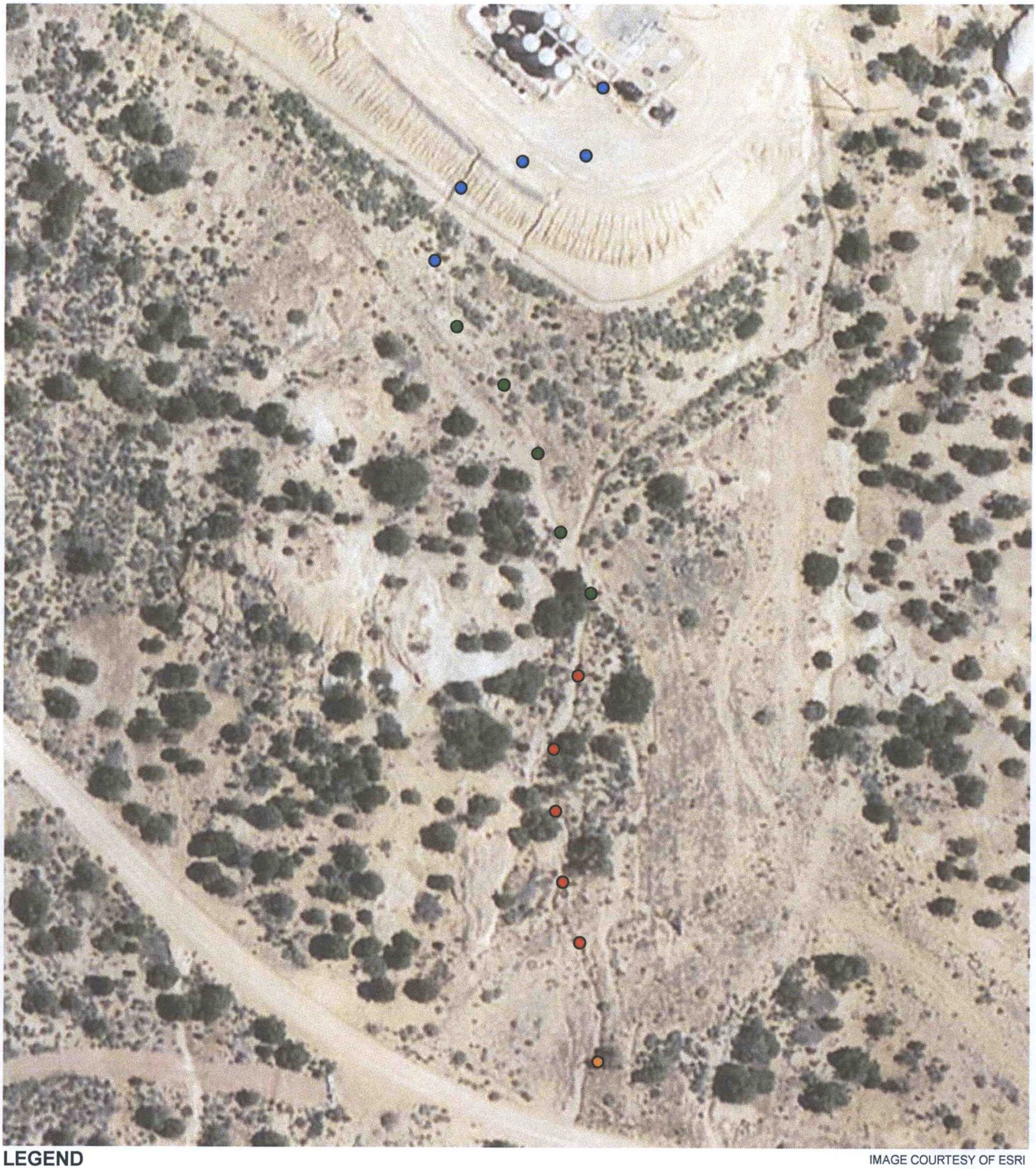
Feet

N

NEW MEXICO

FIGURE 1
SITE LOCATION MAP
HORSE CANYON CDP RELEASE
SEC 27 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC

P:\Williams Four Corners\GIS\MXD\034017003_HORSE CANYON\034017003_FIG01_SL.mxd



LEGEND

- SOIL SAMPLE SS-01
- COMPOSITE SOIL SAMPLE CS-01
- COMPOSITE SOIL SAMPLE CS-02
- COMPOSITE SOIL SAMPLE CS-03

IMAGE COURTESY OF ESRI

0 100 200

Feet

N

FIGURE 2
SITE MAP
HORSE CANYON CDP RELEASE
SEC 27 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC

P:\Williams Four Corners\GIS\MXD\034017003_HORSE CANYON\034017003_FIG02_SITE.mxd

TABLE

TABLE 1
SOIL LABORATORY ANALYTICAL RESULTS

HORSE CANYON CDP RELEASE
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC

Sample Name	Sample Date	Field Screening (ppm)	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)
NMOCD Action Level		**NE**	**NE**	**10**	**NE**	**NE**	**NE**	**100**		
CS-01	8/1/2017	0.7	<30	<0.024	<0.048	<0.048	<0.095	<4.8	<9.8	<49
CS-02	8/1/2017	0.0	<30	<0.024	<0.047	<0.047	<0.095	<4.7	<9.2	<46
CS-03	8/1/2017	0.0	<30	<0.023	<0.046	<0.046	<0.093	<4.6	<9.6	<48
SS-01	8/1/2017	0.0	<30	<0.023	<0.047	<0.047	<0.093	<4.7	<9.6	<48

Notes:
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilograms
MRO - motor oil range organics
NE - Not Established
NMOCD - New Mexico Oil Conservation Division
ppm - parts per million
TPH - total petroleum hydrocarbons
< - indicates result is less than laboratory reporting detection limit

ATTACHMENT 1

LABORATORY ANALYTICAL REPORT

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 10, 2017

Brooke Herb
Williams Four Corners
188 CR 4900
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: Horse Canyon CDP OrderNo.: 1708196

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/2/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1708196**
Date Reported: **8/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Horse Canyon CDP
Lab ID: 1708196-001 **Matrix:** SOIL

Client Sample ID: CS-01
Collection Date: 8/1/2017 10:30:00 AM
Received Date: 8/2/2017 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	8/7/2017 3:30:03 PM	33206
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/7/2017 11:33:08 AM	33181
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/7/2017 11:33:08 AM	33181
Surr: DNOP	87.5	70-130		%Rec	1	8/7/2017 11:33:08 AM	33181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/7/2017 9:53:59 AM	33180
Surr: BFB	94.4	54-150		%Rec	1	8/7/2017 9:53:59 AM	33180
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	8/7/2017 9:53:59 AM	33180
Toluene	ND	0.048		mg/Kg	1	8/7/2017 9:53:59 AM	33180
Ethylbenzene	ND	0.048		mg/Kg	1	8/7/2017 9:53:59 AM	33180
Xylenes, Total	ND	0.095		mg/Kg	1	8/7/2017 9:53:59 AM	33180
Surr: 4-Bromofluorobenzene	118	66.6-132		%Rec	1	8/7/2017 9:53:59 AM	33180

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Horse Canyon CDP
Lab ID: 1708196-002 **Matrix:** SOIL

Client Sample ID: CS-02
Collection Date: 8/1/2017 10:40:00 AM
Received Date: 8/2/2017 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	8/7/2017 4:07:17 PM	33206
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/7/2017 11:57:48 AM	33181
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/7/2017 11:57:48 AM	33181
Surr: DNOP	85.4	70-130		%Rec	1	8/7/2017 11:57:48 AM	33181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/7/2017 11:53:46 AM	33180
Surr: BFB	90.2	54-150		%Rec	1	8/7/2017 11:53:46 AM	33180
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	8/7/2017 11:53:46 AM	33180
Toluene	ND	0.047		mg/Kg	1	8/7/2017 11:53:46 AM	33180
Ethylbenzene	ND	0.047		mg/Kg	1	8/7/2017 11:53:46 AM	33180
Xylenes, Total	ND	0.095		mg/Kg	1	8/7/2017 11:53:46 AM	33180
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	8/7/2017 11:53:46 AM	33180

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Horse Canyon CDP
Lab ID: 1708196-003 **Matrix:** SOIL

Client Sample ID: CS-03
Collection Date: 8/1/2017 10:50:00 AM
Received Date: 8/2/2017 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	8/7/2017 4:19:42 PM	33206
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/7/2017 12:22:41 PM	33181
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/7/2017 12:22:41 PM	33181
Surr: DNOP	87.9	70-130		%Rec	1	8/7/2017 12:22:41 PM	33181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/7/2017 1:05:47 PM	33180
Surr: BFB	89.8	54-150		%Rec	1	8/7/2017 1:05:47 PM	33180
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	8/7/2017 1:05:47 PM	33180
Toluene	ND	0.046		mg/Kg	1	8/7/2017 1:05:47 PM	33180
Ethylbenzene	ND	0.046		mg/Kg	1	8/7/2017 1:05:47 PM	33180
Xylenes, Total	ND	0.093		mg/Kg	1	8/7/2017 1:05:47 PM	33180
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	8/7/2017 1:05:47 PM	33180

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: Horse Canyon CDP
Lab ID: 1708196-004 **Matrix:** SOIL

Client Sample ID: SS-01
Collection Date: 8/1/2017 10:55:00 AM
Received Date: 8/2/2017 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	8/7/2017 4:32:06 PM	33206
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/7/2017 12:47:31 PM	33181
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/7/2017 12:47:31 PM	33181
Surr: DNOP	89.0	70-130		%Rec	1	8/7/2017 12:47:31 PM	33181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/7/2017 1:29:50 PM	33180
Surr: BFB	87.9	54-150		%Rec	1	8/7/2017 1:29:50 PM	33180
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	8/7/2017 1:29:50 PM	33180
Toluene	ND	0.047		mg/Kg	1	8/7/2017 1:29:50 PM	33180
Ethylbenzene	ND	0.047		mg/Kg	1	8/7/2017 1:29:50 PM	33180
Xylenes, Total	ND	0.093		mg/Kg	1	8/7/2017 1:29:50 PM	33180
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	8/7/2017 1:29:50 PM	33180

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1708196**

10-Aug-17

Client: Williams Four Corners
Project: Horse Canyon CDP

Sample ID	**MB-33206**	SampType: **MBLK**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **33206**			RunNo: **44758**					
Prep Date:	**8/7/2017**	Analysis Date: **8/7/2017**			SeqNo: **1416566**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-33206**	SampType: **LCS**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **33206**			RunNo: **44758**					
Prep Date:	**8/7/2017**	Analysis Date: **8/7/2017**			SeqNo: **1416567**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1708196**

10-Aug-17

Client: Williams Four Corners
Project: Horse Canyon CDP

Sample ID **MB-33181**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **33181**	RunNo: **44747**
Prep Date: **8/4/2017**	Analysis Date: **8/7/2017**	SeqNo: **1415031** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.4	70	130			

Sample ID **LCS-33181**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **33181**	RunNo: **44747**
Prep Date: **8/4/2017**	Analysis Date: **8/7/2017**	SeqNo: **1415235** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.9	73.2	114			
Surr: DNOP	4.0		5.000		79.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1708196**

10-Aug-17

Client: Williams Four Corners
Project: Horse Canyon CDP

Sample ID **MB-33180**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **33180**	RunNo: **44753**
Prep Date: **8/4/2017**	Analysis Date: **8/7/2017**	SeqNo: **1415513** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.4	54	150			

Sample ID **LCS-33180**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **33180**	RunNo: **44753**
Prep Date: **8/4/2017**	Analysis Date: **8/7/2017**	SeqNo: **1415514** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.3	76.4	125			
Surr: BFB	1000		1000		102	54	150			

Sample ID **1708196-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **CS-02**	Batch ID: **33180**	RunNo: **44753**
Prep Date: **8/4/2017**	Analysis Date: **8/7/2017**	SeqNo: **1415517** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	5.0	25.00	0	73.6	77.8	128			S
Surr: BFB	1000		1000		101	54	150			

Sample ID **1708196-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **CS-02**	Batch ID: **33180**	RunNo: **44753**
Prep Date: **8/4/2017**	Analysis Date: **8/7/2017**	SeqNo: **1415518** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.8	23.97	0	81.4	77.8	128	5.92	20	
Surr: BFB	980		958.8		102	54	150	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1708196**

10-Aug-17

Client: Williams Four Corners

Project: Horse Canyon CDP

Sample ID **MB-33180**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **33180**	RunNo: **44753**
Prep Date: **8/4/2017**	Analysis Date: **8/7/2017**	SeqNo: **1415540** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		116	66.6	132			

Sample ID **LCS-33180**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **33180**	RunNo: **44753**
Prep Date: **8/4/2017**	Analysis Date: **8/7/2017**	SeqNo: **1415541** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		119	66.6	132			

Sample ID **1708196-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **CS-01**	Batch ID: **33180**	RunNo: **44753**
Prep Date: **8/4/2017**	Analysis Date: **8/7/2017**	SeqNo: **1415543** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.023	0.9124	0	90.8	80.9	132			
Toluene	0.84	0.046	0.9124	0.01010	91.4	79.8	136			
Ethylbenzene	0.85	0.046	0.9124	0.01516	91.8	79.4	140			
Xylenes, Total	2.6	0.091	2.737	0	95.5	78.5	142			
Surr: 4-Bromofluorobenzene	1.1		0.9124		119	66.6	132			

Sample ID **1708196-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **CS-01**	Batch ID: **33180**	RunNo: **44753**
Prep Date: **8/4/2017**	Analysis Date: **8/7/2017**	SeqNo: **1415544** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.023	0.9311	0	91.3	80.9	132	2.64	20	
Toluene	0.86	0.047	0.9311	0.01010	91.4	79.8	136	1.96	20	
Ethylbenzene	0.87	0.047	0.9311	0.01516	91.5	79.4	140	1.71	20	
Xylenes, Total	2.7	0.093	2.793	0	95.0	78.5	142	1.47	20	
Surr: 4-Bromofluorobenzene	1.1		0.9311		113	66.6	132	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FOUR CORN Work Order Number: 1708196 RcptNo: 1

Received By: Anne Thorne 8/2/2017 7:25:00 AM Anne Thorne

Completed By: Anne Thorne 8/3/2017 8:56:26 AM Anne Thorne

Reviewed By: 8/4/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes			

Chain-of-Custody Record

Client: Michael S. Hannan
Williams Four Corners
Mailing Address: 1755 Arroyo Dr
Bloomfield, NM 87402
Phone #: (505) 215-7274
email or Fax#:
QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____
Project Name: Horse Canyon CDP
Project #: 034017003
Project Manager: Brooke Herb
Sampler: Michael A Wicker
On Ice: ☒ Yes ☐ No
Sample Temperature: 4.6 CF 1.0 = 3.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1708196	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)		Chloride			Air Bubbles (Y or N)
8-1-17	1030	Soil	CS-01	1-4-oz	Cool	001	X		X										X			
↓	1040	↓	CS-02	↓	↓	002	↓		↓										↓			
	1050		CS-03			003																
↓	1055	↓	SS-01	↓	↓	004	↓		↓										↓			

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
8-1-17	1210			8/1/17	1210	Please cc: BHerb@LTEnv.com MWicker@LTEnv.com
Date:	Time:	Relinquished by:	Received by:	Date	Time	
	1814			08/02/17	0725	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Reid B2E**	Facility Type: **Pipeline**

Surface Owner: **BLM**	Mineral Owner	BLM Project No. **NM 041899**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	**31**	**29N**	**10W**					**San Juan**

Latitude 36.68480 Longitude -107.92178

NATURE OF RELEASE

Type of Release: **Natural Gas**	Volume of Release: **53 MCF**	Volume Recovered: **0 MCF**
Source of Release: **Pipeline**	Date and Hour of Occurrence: **07/05/2017 at 8:00 AM**	Date and Hour of Discovery: **07/05/2017 at 8:00 AM**
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? **NA**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Natural gas release from a pin hole leak in the pipeline discovered during a line leak survey. This section of pipe has been repaired.

Describe Area Affected and Cleanup Action Taken.*
Pipeline has been repaired and impacted area cleaned up. Please see attached documentation for further details.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 10/3/17 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: — Attached ☐
Date: **09/07/2017** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

NCS1721253535

OIL CONS. DIV DIST. 3

SEP 12 2017

12

Remediation Excavation and Sampling Form

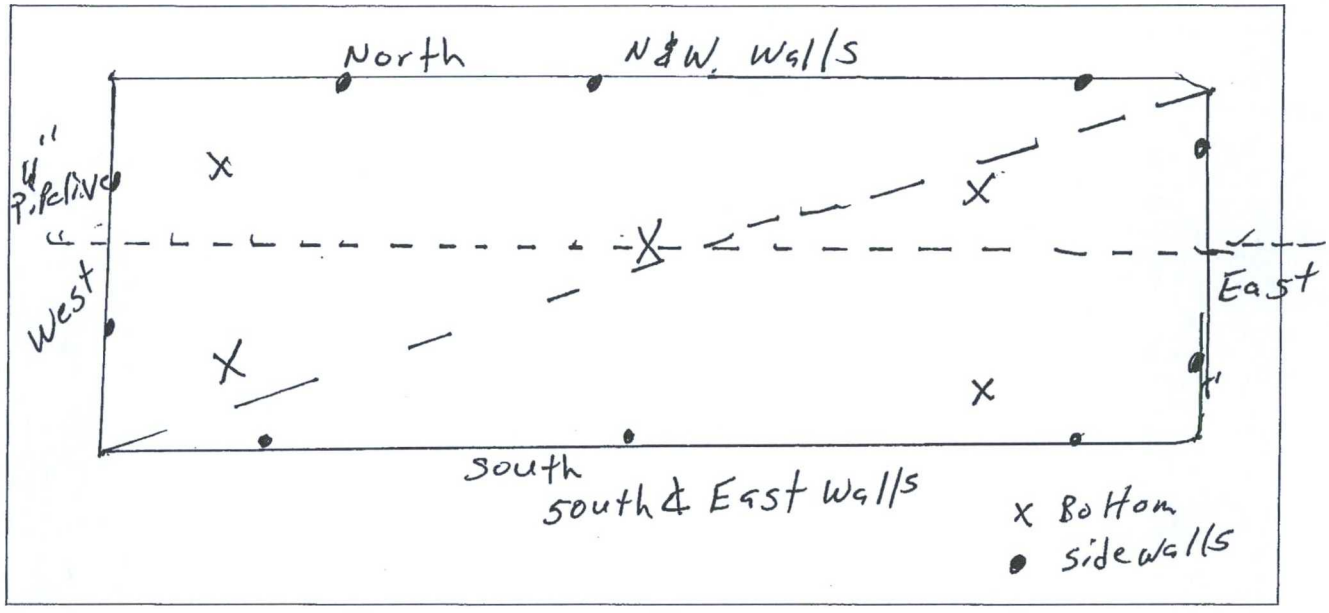
Site Name Reid B 2 E

Excavation Dimensions (feet)

25' Length 10' Width 9'-6" Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



Sample Information

OCD Witness Sampling Yes or (No)

Agency(s) Representative(s) spoke with corey smith and Recieve the go Ahead

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
001	7/21/17	Composite	N & W Sidewall	
002	7/21/17	Composite	S & E Sidewall	
003	7/21/17	Composite	Bottom	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 02, 2017

Kijun Hong
Williams Field Services
1755 Arroyo Dr.,
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: Reid B-2E OrderNo.: 1707B82

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/22/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1707B82**
Date Reported: **8/2/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Reid B-2E
Lab ID: 1707B82-001 **Matrix:** SOIL

Client Sample ID: Reid B 2 E N&W Walls
Collection Date: 7/21/2017 10:00:00 AM
Received Date: 7/22/2017 11:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	31	30		mg/Kg	20	7/28/2017 11:03:40 AM	33064
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/25/2017 4:59:11 PM	32977
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/25/2017 4:59:11 PM	32977
Surr: DNOP	80.2	70-130		%Rec	1	7/25/2017 4:59:11 PM	32977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/25/2017 6:43:27 PM	32967
Surr: BFB	93.2	54-150		%Rec	1	7/25/2017 6:43:27 PM	32967
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/25/2017 6:43:27 PM	32967
Toluene	ND	0.047		mg/Kg	1	7/25/2017 6:43:27 PM	32967
Ethylbenzene	ND	0.047		mg/Kg	1	7/25/2017 6:43:27 PM	32967
Xylenes, Total	ND	0.095		mg/Kg	1	7/25/2017 6:43:27 PM	32967
Surr: 4-Bromofluorobenzene	103	66.6-132		%Rec	1	7/25/2017 6:43:27 PM	32967

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Reid B-2E
Lab ID: 1707B82-002 **Matrix:** SOIL

Client Sample ID: Reid B 2 E S&E Walls
Collection Date: 7/21/2017 10:10:00 AM
Received Date: 7/22/2017 11:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	ND	30		mg/Kg	20	7/28/2017 11:40:54 AM	33064
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/25/2017 5:21:39 PM	32977
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2017 5:21:39 PM	32977
Surr: DNOP	87.4	70-130		%Rec	1	7/25/2017 5:21:39 PM	32977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/25/2017 7:07:36 PM	32967
Surr: BFB	90.8	54-150		%Rec	1	7/25/2017 7:07:36 PM	32967
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/25/2017 7:07:36 PM	32967
Toluene	ND	0.047		mg/Kg	1	7/25/2017 7:07:36 PM	32967
Ethylbenzene	ND	0.047		mg/Kg	1	7/25/2017 7:07:36 PM	32967
Xylenes, Total	ND	0.094		mg/Kg	1	7/25/2017 7:07:36 PM	32967
Surr: 4-Bromofluorobenzene	102	66.6-132		%Rec	1	7/25/2017 7:07:36 PM	32967

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Reid B-2E
Lab ID: 1707B82-003 **Matrix:** SOIL

Client Sample ID: Reid B 2 E Bottom
Collection Date: 7/21/2017 10:20:00 AM
Received Date: 7/22/2017 11:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	ND	30		mg/Kg	20	7/28/2017 12:05:43 PM	33064
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/25/2017 5:44:09 PM	32977
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/25/2017 5:44:09 PM	32977
Surr: DNOP	78.7	70-130		%Rec	1	7/25/2017 5:44:09 PM	32977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/25/2017 7:31:44 PM	32967
Surr: BFB	89.1	54-150		%Rec	1	7/25/2017 7:31:44 PM	32967
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/25/2017 7:31:44 PM	32967
Toluene	ND	0.047		mg/Kg	1	7/25/2017 7:31:44 PM	32967
Ethylbenzene	ND	0.047		mg/Kg	1	7/25/2017 7:31:44 PM	32967
Xylenes, Total	ND	0.094		mg/Kg	1	7/25/2017 7:31:44 PM	32967
Surr: 4-Bromofluorobenzene	104	66.6-132		%Rec	1	7/25/2017 7:31:44 PM	32967

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707B82**

02-Aug-17

Client: Williams Field Services

Project: Reid B-2E

Sample ID	**MB-33064**	SampType: **MBLK**		TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **33064**		RunNo: **44581**					
Prep Date:	**7/28/2017**	Analysis Date: **7/28/2017**		SeqNo: **1410134**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-33064**	SampType: **LCS**		TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **33064**		RunNo: **44581**					
Prep Date:	**7/28/2017**	Analysis Date: **7/28/2017**		SeqNo: **1410135**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707B82**

02-Aug-17

Client: Williams Field Services

Project: Reid B-2E

Sample ID **MB-32977**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **32977**	RunNo: **44468**
Prep Date: **7/24/2017**	Analysis Date: **7/25/2017**	SeqNo: **1406389** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.3	70	130			

Sample ID **LCS-32977**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **32977**	RunNo: **44468**
Prep Date: **7/24/2017**	Analysis Date: **7/25/2017**	SeqNo: **1406394** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.5	73.2	114			
Surr: DNOP	4.2		5.000		83.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707B82**

02-Aug-17

Client: Williams Field Services

Project: Reid B-2E

Sample ID **MB-32967**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **32967**	RunNo: **44476**
Prep Date: **7/24/2017**	Analysis Date: **7/25/2017**	SeqNo: **1406616** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.4	54	150			

Sample ID **LCS-32967**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **32967**	RunNo: **44476**
Prep Date: **7/24/2017**	Analysis Date: **7/25/2017**	SeqNo: **1406617** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	76.4	125			
Surr: BFB	970		1000		97.2	54	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707B82**

02-Aug-17

Client: Williams Field Services

Project: Reid B-2E

Sample ID **MB-32967** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **32967** RunNo: **44476**

Prep Date: **7/24/2017** Analysis Date: **7/25/2017** SeqNo: **1406632** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	66.6	132			

Sample ID **LCS-32967** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **32967** RunNo: **44476**

Prep Date: **7/24/2017** Analysis Date: **7/25/2017** SeqNo: **1406633** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.5	80	120			
Toluene	0.97	0.050	1.000	0	96.7	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	66.6	132			

Sample ID **1707B82-001AMS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **Reid B 2 E N&W Wa** Batch ID: **32967** RunNo: **44476**

Prep Date: **7/24/2017** Analysis Date: **7/25/2017** SeqNo: **1406635** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.023	0.9346	0	96.7	80.9	132			
Toluene	0.92	0.047	0.9346	0.01082	97.7	79.8	136			
Ethylbenzene	0.94	0.047	0.9346	0.009772	99.6	79.4	140			
Xylenes, Total	2.9	0.093	2.804	0.03046	101	78.5	142			
Surr: 4-Bromofluorobenzene	0.96		0.9346		103	66.6	132			

Sample ID **1707B82-001AMSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **Reid B 2 E N&W Wa** Batch ID: **32967** RunNo: **44476**

Prep Date: **7/24/2017** Analysis Date: **7/25/2017** SeqNo: **1406636** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9950	0	96.5	80.9	132	6.05	20	
Toluene	0.99	0.050	0.9950	0.01082	98.6	79.8	136	7.06	20	
Ethylbenzene	1.0	0.050	0.9950	0.009772	101	79.4	140	7.12	20	
Xylenes, Total	3.1	0.10	2.985	0.03046	103	78.5	142	7.72	20	
Surr: 4-Bromofluorobenzene	1.0		0.9950		105	66.6	132	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FOUR CORN Work Order Number: 1707B82 RcptNo: 1

Received By: Andy Freeman 7/22/2017 11:10:00 AM

Completed By: Ashley Gallegos 7/23/2017 1:29:32 PM

Reviewed By: ENM 7/24/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Yes			

Chain-of-Custody Record

Client: WFS

Mailing Address: 188 CR 4900
Bloom Field NM 87413

Phone #: 505

email or Fax#: Kijun_Hong@williams.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: Rid B-2E

Project #:

Project Manager: Kijun Hong

Sampler: Morgan Killion

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.7°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1707B82	BTEX + ~~MTBE~~ + ~~TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
7/21/17	10:00	soil	Rid B2E NEW walls	1-402	Cool	-001	X		X									X				
7/21/17	10:10	soil	Rid B2E SE walls	1-402	↓	-002	X		X									X				
7/21/17	10:20	soil	Rid B2E Bottom	1-402	↓	-003	X		X									X				

Date	Time	Relinquished by:	Received by:	Date	Time
7/21/17	1120	Morgan Killion	Chantel Ward	7/21/17	1120
7/21/17	1754	Chantel Walker		7/22/17	11:10

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company Williams Four Corners LLC	Contact Mitch Morris
Address 1755 Arroyo Drive	Telephone No. 505-632-4708
Facility Name Newsom B-4 Gathering Pipeline	Facility Type Pipeline

Surface Owner State of New Mexico	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	16	26N	8W					San Juan

Latitude 36.48300° N **Longitude** -107.68320° W

NATURE OF RELEASE

Type of Release Produced Water/Natural Gas	Volume of Release 40 cubic yards of soil removed/ 19.2 MCF	Volume Recovered 40 cubic yards of soil removed from the site/ 0 MCF
Source of Release Leak in pipeline	Date and Hour of Occurrence 9/7/2017, 12:30 PM MST	Date and Hour of Discovery 9/7/2017, 12:30 PM MST
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? Not Applicable	
By Whom? Not Applicable	Date and Hour Not Applicable	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. Not Applicable	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

OIL CONS. DIV DIST. 3

SEP 27 2017

Describe Cause of Problem and Remedial Action Taken.*

A pipeline leak was discovered during routine leak monitoring on the Newsom B-4 Pipeline. The initial lost gas volume was not a reportable quantity, but 40 cubic yards of impacted soil were taken to an approved NMOCD land farm as a result of the pipeline repair and cleanup.

Describe Area Affected and Cleanup Action Taken.*
A repair and cleanup crew was mobilized to the site. Please see the confirmation soil sample results attached to this report.

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

Mitch Morris Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: Mitch Morris	
Title: Environmental Specialist	Approval Date: 10/3/2017 Expiration Date:
E-mail Address: Mitch.Morris@williams.com	Conditions of Approval: Attached ☐
Date: 9/20/2017 Phone: 505-632-4708	

* Attach Additional Sheets If Necessary

NVF1727640072

9

Remediation Excavation and Sampling Form

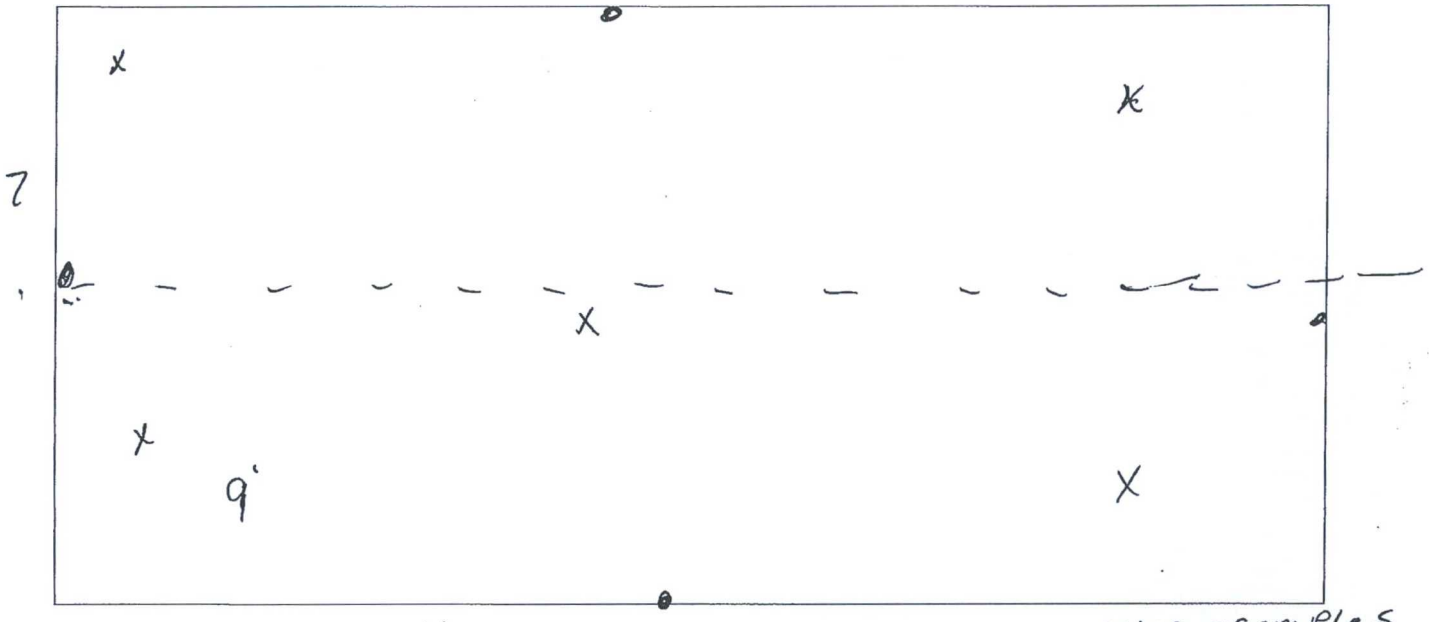
Site Name Newsome B-4

Excavation Dimensions (feet)

12 Length 7' Width 9' Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



Sample Information

OCD Witness Sampling (Yes) or No

Agency(s) Representative(s) Vanessa Field NMOCD

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
Newsome #B-4	9-6-17	composite	sidewalls	7.95 PPM
Newsome #B-4	9-6-17	composite	Floor	108 PPM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 11, 2017

Mitch Morris
Williams Field Services
188 Co. Rd 4900
Bloomfield, NM 87413
TEL:
FAX

RE: Newsome B-4 OrderNo.: 1709292

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/7/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1709292**
Date Reported: **9/11/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Newsome B-4
Lab ID: 1709292-001 **Matrix:** SOIL

Client Sample ID: Sidewalls
Collection Date: 9/6/2017 10:10:00 AM
Received Date: 9/7/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	9/7/2017 10:46:06 AM	33743
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	9/7/2017 12:25:07 PM	33725
Surr: BFB	89.0	70-130		%Rec	1	9/7/2017 12:25:07 PM	33725
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/7/2017 10:59:57 AM	33742
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/7/2017 10:59:57 AM	33742
Surr: DNOP	103	70-130		%Rec	1	9/7/2017 10:59:57 AM	33742
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.016		mg/Kg	1	9/7/2017 12:25:07 PM	33725
Toluene	ND	0.033		mg/Kg	1	9/7/2017 12:25:07 PM	33725
Ethylbenzene	ND	0.033		mg/Kg	1	9/7/2017 12:25:07 PM	33725
Xylenes, Total	ND	0.065		mg/Kg	1	9/7/2017 12:25:07 PM	33725
Surr: 1,2-Dichloroethane-d4	127	70-130		%Rec	1	9/7/2017 12:25:07 PM	33725
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	9/7/2017 12:25:07 PM	33725
Surr: Dibromofluoromethane	119	70-130		%Rec	1	9/7/2017 12:25:07 PM	33725
Surr: Toluene-d8	97.1	70-130		%Rec	1	9/7/2017 12:25:07 PM	33725

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Newsome B-4
Lab ID: 1709292-002 **Matrix:** SOIL

Client Sample ID: Bottom
Collection Date: 9/6/2017 10:20:00 AM
Received Date: 9/7/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	9/7/2017 10:58:30 AM	33743
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	15	3.4		mg/Kg	1	9/7/2017 12:54:06 PM	33725
Surr: BFB	105	70-130		%Rec	1	9/7/2017 12:54:06 PM	33725
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	310	9.3		mg/Kg	1	9/7/2017 11:22:08 AM	33742
Motor Oil Range Organics (MRO)	170	47		mg/Kg	1	9/7/2017 11:22:08 AM	33742
Surr: DNOP	108	70-130		%Rec	1	9/7/2017 11:22:08 AM	33742
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.017		mg/Kg	1	9/7/2017 12:54:06 PM	33725
Toluene	ND	0.034		mg/Kg	1	9/7/2017 12:54:06 PM	33725
Ethylbenzene	ND	0.034		mg/Kg	1	9/7/2017 12:54:06 PM	33725
Xylenes, Total	ND	0.069		mg/Kg	1	9/7/2017 12:54:06 PM	33725
Surr: 1,2-Dichloroethane-d4	124	70-130		%Rec	1	9/7/2017 12:54:06 PM	33725
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/7/2017 12:54:06 PM	33725
Surr: Dibromofluoromethane	121	70-130		%Rec	1	9/7/2017 12:54:06 PM	33725
Surr: Toluene-d8	94.0	70-130		%Rec	1	9/7/2017 12:54:06 PM	33725

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709292**

11-Sep-17

Client: Williams Field Services

Project: Newsome B-4

Sample ID	**MB-33743**	SampType:	**mblk**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**33743**		RunNo:	**45475**				
Prep Date:	**9/7/2017**	Analysis Date:	**9/7/2017**		SeqNo:	**1442603**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-33743**	SampType:	**lcs**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**33743**		RunNo:	**45475**				
Prep Date:	**9/7/2017**	Analysis Date:	**9/7/2017**		SeqNo:	**1442604**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709292**

11-Sep-17

Client: Williams Field Services
Project: Newsome B-4

Sample ID **LCS-33742**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **33742**	RunNo: **45468**
Prep Date: **9/7/2017**	Analysis Date: **9/7/2017**	SeqNo: **1440759** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.6	73.2	114			
Surr: DNOP	4.8		5.000		96.2	70	130			

Sample ID **MB-33742**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **33742**	RunNo: **45468**
Prep Date: **9/7/2017**	Analysis Date: **9/7/2017**	SeqNo: **1440760** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709292**

11-Sep-17

Client: Williams Field Services

Project: Newsome B-4

Sample ID **mb-33725**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **33725**	RunNo: **45482**
Prep Date: **9/6/2017**	Analysis Date: **9/7/2017**	SeqNo: **1442102** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.61		0.5000		122	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.6	70	130			
Surr: Dibromofluoromethane	0.60		0.5000		119	70	130			
Surr: Toluene-d8	0.48		0.5000		96.9	70	130			

Sample ID **lcs-33725**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **33725**	RunNo: **45482**
Prep Date: **9/6/2017**	Analysis Date: **9/7/2017**	SeqNo: **1442103** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	121	70	130			
Toluene	0.93	0.050	1.000	0	93.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.61		0.5000		123	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.2	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709292**

11-Sep-17

Client: Williams Field Services

Project: Newsome B-4

Sample ID **mb-33725**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **33725**	RunNo: **45482**
Prep Date: **9/6/2017**	Analysis Date: **9/7/2017**	SeqNo: **1441971** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	440		500.0		89.0	70	130			

Sample ID **lcs-33725**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **33725**	RunNo: **45482**
Prep Date: **9/6/2017**	Analysis Date: **9/7/2017**	SeqNo: **1441977** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	70	130			
Surr: BFB	470		500.0		93.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified