Administrative/Environmental Order



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: pJK1424834298

3RP - 1014

Williams Four Corners, LLC

3/1/2018

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

OIL CONS. DIV DIST. 3

AUG 21 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	\bowtie	Initial Report	\boxtimes	Final Report
Name of Company Williams Four Corners LLC	Contact Michael Hannan					
Address 1755 Arroyo Dr., Bloomfield, NM 874	Telephone No. (505) 632-4807					
Facility Name Milagro	Facility Type Gas Treating Plant					
Surface Owner Williams	Mineral Owner		A	PI No.		

Surface Owner Williams	Mineral Owner			

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
0	12	29N	11W					Rio Arriba

Latitude 36.735966° N Longitude -107.942329° W NAD83

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 157.44 MCF	Volume Recovered 0 MCF					
Source of Release Pressure Relief Valve	Date and Hour of Occurrence	Date and Hour of Discovery					
	08/04/2017 16:30 PM	08/04/2017 16:30 PM					
Was Immediate Notice Given?	If YES, To Whom?						
Yes No X Not Required							
By Whom?	Date and Hour						
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse.					
Yes X No							
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.*							
The Milagro Gas Treating Plant boilers went down, which in turn caused the steam turbine (electricity) generators to go down. The loss of electrical power							
caused a partial station ESD, which caused a gas release from the station outlet piping.							

Describe Area Affected and Cleanup Action Taken.*

No cleanup required on 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.

Mai	OIL CONSERVATION DIVISION
Signature:	Λ Λ \Box
Printed Name: Michael Hannan	Approved by Environmental Specialist:
Title: Engineer, Sr.	Approval Date: 8/23/17 Expiration Date:
E-mail Address: michael.hannan@williams.com	Conditions of Approval:
Date: 08/16/2017 Phone: (505) 632-4807	
Attach Additional Sheets If Necessary	31723542063

OIL CONS. DIV DIST. 3 Form C-141 AUG 07 2017 Revised August 8, 2011

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

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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

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 Reames A-1 Drip Tank	Facility Type Field Tank		

Surface Owner BLM

Mineral Owner

API No.

LOCATION OF RELEASE

Unit Letter A	Section 24	Township 26N	Range 6W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude <u>36.4755° N</u> Longitude -<u>107.4119° W</u>

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Estimated at 10-15 gallons	Volume Recovered 10-15 gallons					
Source of Release Tank	Date and Hour of Occurrence	Date and Hour of Discovery					
	3/10/2017, 1:00 PM MST	3/10/2017, 1:00 PM MST					
Was Immediate Notice Given?	If YES, To Whom? Cory Smith via	Telephone/follow-up email					
By Whom? Mitch Morris	Date and Hour 3/13/2017 3:52 pm						
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse.					
Yes X No	Not Applicable						
If a Watercourse was Impacted, Describe Fully.*							
Not Applicable							
Describe Cause of Problem and Remedial Action Taken.*							
An Operations Technician arrived on-site and discovered standing liquid near the field tank. Both block valves between the pipeline and tank were immediately isolated. A cleanup crew was quickly mobilized to excavate the extent of the release. Confirmation soil sample results have been obtained and will be submitted with the Final Report.							
Describe Area Affected and Cleanup Action Taken.* A cleanup crew was quickly mobilized to excavate the extent of impacted site.	soil. Please see the attached additiona	al information regarding remediation of this					
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							
	OIL CONSERV	ATION DIVISION /					
Mitch Morris	Approved by Environmental Specialis	t and the					
Printed Name: Mitch Morris							
Title: Environmental Specialist	Approval Date: 8/29/17	Expiration Date:					
E-mail Address: Mitch.Morris@williams.com	Conditions of Approval:	Attached					
Date: 08/01/2017 Phone: 505-632-4708	ſ						
Attach Additional Sheets If Necessary	720640095	$\left(\widehat{} \right)$					

Remediation Excavation and Sampling Form

Site Name _		Reams A-1	_Reams A-1 Drip Tank						
Excavation Dimensions (feet)									
	_20	Length	15	Width	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) _____ Unknown _____

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
1703B59-001	3/19/2017	Composite	North Sidewall	
1703B59-002	3/19/2017	Composite	South Sidewall	
1703B59-003	3/19/2017	Composite	East Sidewall	
1703B59-004	3/19/2017	Composite	West Sidewall	



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

March 24, 2017

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

RE: Lat H-16

OrderNo.: 1703B59

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/23/2017 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 <u>www.hallenvironmental.com</u> 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,

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Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1703B59Iall Environmental Analysis Laboratory, Inc.Date Reported: 3/24/2017								
CLIENT: Williams Field ServicesClient Sample ID: Lat H-16 North WallProject: Lat H-16Collection Date: 3/19/2017 9:25:00 AMLab ID: 1703B59-001Matrix: MEOH (SOIL)Received Date: 3/23/2017 7:20:00 AM								
Analyses	Result	PQL Qua	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	LGT		
Chloride	ND	30	mg/Kg	20	3/23/2017 11:51:12 AM	30864		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	s			Analyst	TOM		
Diesel Range Organics (DRO)	39	9.6	mg/Kg	1	3/23/2017 10:36:39 AM	30857		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/23/2017 10:36:39 AM	30857		
Surr: DNOP	110	70-130	%Rec	1	3/23/2017 10:36:39 AM	30857		
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB		
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	3/23/2017 11:45:28 AM	G41606		
Surr: BFB	91.0	54-150	%Rec	1	3/23/2017 11:45:28 AM	G41606		
EPA METHOD 8021B: VOLATILES					Analyst:	NSB		
Benzene	ND	0.017	mg/Kg	1	3/23/2017 11:45:28 AM	R41606		
Toluene	ND	0.035	mg/Kg	1	3/23/2017 11:45:28 AM	R41606		
Ethylbenzene	ND	0.035	mg/Kg	1	3/23/2017 11:45:28 AM	R41606		
Xylenes, Total	ND	0.069	mg/Kg	1	3/23/2017 11:45:28 AM	R41606		
Surr: 4-Bromofluorobenzene	109	66.6-132	%Rec	1	3/23/2017 11:45:28 AM	R41606		

Analytical Report

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

Qualifiers:	*	* Value exceeds Maximum Contaminant Level.		Analyte detected in the associated Method Blank		
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range		
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 1 of 8	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 age 1 01 0	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit		
S % Recovery outside of range due to dilution or matrix W Sample container		Sample container temperature is out of limit	as specified			

Analytical Report	
Lab Order 1703B59	

Date Reported: 3/24/2017

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Williams Field Services
 Client Sample ID: Lat H-16 South Wall

 Project:
 Lat H-16
 Collection Date: 3/19/2017 9:30:00 AM

 Lab ID:
 1703B59-002
 Matrix: MEOH (SOIL)
 Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	35	30	mg/Kg	20	3/23/2017 12:03:37 PM	30864
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S			Analyst:	том
Diesel Range Organics (DRO)	28	9.6	mg/Kg	1	3/23/2017 10:59:06 AM	30857
Motor Oil Range Organics (MRO)	49	48	mg/Kg	1	3/23/2017 10:59:06 AM	30857
Surr: DNOP	110	70-130	%Rec	1	3/23/2017 10:59:06 AM	30857
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	3/23/2017 12:09:01 PM	G41606
Surr: BFB	90.0	54-150	%Rec	1	3/23/2017 12:09:01 PM	G41606
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.019	mg/Kg	1	3/23/2017 12:09:01 PM	R41606
Toluene	ND	0.038	mg/Kg	1	3/23/2017 12:09:01 PM	R41606
Ethylbenzene	ND	0.038	mg/Kg	1	3/23/2017 12:09:01 PM	R41606
Xylenes, Total	ND	0.075	mg/Kg	1	3/23/2017 12:09:01 PM	R41606
Surr: 4-Bromofluorobenzene	109	66.6-132	%Rec	1	3/23/2017 12:09:01 PM	R41606

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 2 of 8
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 age 2 01 0
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit	t as specified

Hall En	ivironmental Analysis	s Labora	atory, Inc.			Date Reported: 3/24/201	17
CLIENT: Project:	Williams Field Services Lat H-16 1703B59-003	Matriv	MEOH (SOIL)	Client Samp Collection	le ID: Lat Date: 3/1	t H-16 East Wall 9/2017 9:35:00 AM	
Analyses	1105155-005	Result	PQL Qual	Units	Date: 5/2	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	LGT
Chloride		33	30	mg/Kg	20	3/23/2017 12:16:02 PM	30864
EPA METI	HOD 8015M/D: DIESEL RANGI		S			Analyst:	TOM
Diesel Ra	inge Organics (DRO)	ND	9.9	mg/Kg	1	3/23/2017 11:21:11 AM	30857
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	3/23/2017 11:21:11 AM	30857
Surr: D	NOP	106	70-130	%Rec	1	3/23/2017 11:21:11 AM	30857
EPA METI	HOD 8015D: GASOLINE RANG	Ε				Analyst:	NSB
Gasoline	Range Organics (GRO)	ND	3.6	mg/Kg	1	3/23/2017 12:32:35 PM	G41606
Surr: B	FB	90.1	54-150	%Rec	1	3/23/2017 12:32:35 PM	G41606
EPA METH	HOD 8021B: VOLATILES					Analyst:	NSB
Benzene		ND	0.018	mg/Kg	1	3/23/2017 12:32:35 PM	R41606
Toluene		ND	0.036	mg/Kg	1	3/23/2017 12:32:35 PM	R41606
Ethylbenz	ene	ND	0.036	mg/Kg	1	3/23/2017 12:32:35 PM	R41606
Xylenes,	Total	ND	0.072	mg/Kg	1	3/23/2017 12:32:35 PM	R41606
Surr: 4-	Bromofluorobenzene	110	66.6-132	%Rec	1	3/23/2017 12:32:35 PM	R41606

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	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	Page 3 of 8
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 age 5 01 0
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit	t as specified

Analytical Report Lab Order 1703B59

Hall Environmental Analysis	s Labora	atory, Inc.			Lab Order 1703B59 Date Reported: 3/24/201	17
CLIENT: Williams Field Services Project: Lat H-16 Lab ID: 1703B59-004	Matrix:	MEOH (SOIL)	Client Samp Collection Received	le ID: La Date: 3/1 Date: 3/2	t H-16 West Wall 9/2017 9:40:00 AM 3/2017 7:20:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	3/23/2017 12:28:27 PM	30864
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANIC	S			Analyst:	том
Diesel Range Organics (DRO)	28	9.6	mg/Kg	1	3/23/2017 11:43:32 AM	30857
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/23/2017 11:43:32 AM	30857
Surr: DNOP	108	70-130	%Rec	1	3/23/2017 11:43:32 AM	30857
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	3/23/2017 12:55:58 PM	G41606
Surr: BFB	91.0	54-150	%Rec	1	3/23/2017 12:55:58 PM	G41606
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.018	mg/Kg	1	3/23/2017 12:55:58 PM	R41606
Toluene	ND	0.036	mg/Kg	1	3/23/2017 12:55:58 PM	R41606
Ethylbenzene	ND	0.036	mg/Kg	1	3/23/2017 12:55:58 PM	R41606
Xylenes, Total	ND	0.072	mg/Kg	1	3/23/2017 12:55:58 PM	R41606
Surr: 4-Bromofluorobenzene	109	66.6-132	%Rec	1	3/23/2017 12:55:58 PM	R41606

Analytical Report

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 8
	ND	Not Detected at the Reporting Limit	Р	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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Client: Williams Field Services **Project:** Lat H-16

Sample ID MB-30864	SampType:	IBLK	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: PBS	Batch ID: 3	0864	F	RunNo: 4	1611				
Prep Date: 3/23/2017	Analysis Date:	3/23/2017	5	SeqNo: 1	305782	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND 1.	5							
	And the second se	the second se					and the second se		
Sample ID LCS-30864	SampType: L	CS	Tes	tCode: EF	PA Method	300.0: Anion	s		
Sample ID LCS-30864 Client ID: LCSS	SampType: L Batch ID: 3	CS 0864	Tes	tCode: EF	PA Method	300.0: Anion	S		
Sample ID LCS-30864 Client ID: LCSS Prep Date: 3/23/2017	SampType: L Batch ID: 3 Analysis Date:	CS 0864 3/23/2017	Tes F S	tCode: EF RunNo: 4 SeqNo: 1:	PA Method 1611 305783	300.0: Anion Units: mg/K	s		
Sample ID LCS-30864 Client ID: LCSS Prep Date: 3/23/2017 Analyte	SampType: L Batch ID: 3 Analysis Date: Result PQL	CS 0864 3/23/2017 SPK value	Tes F S SPK Ref Val	tCode: EF RunNo: 4 SeqNo: 1: %REC	PA Method 1611 305783 LowLimit	300.0: Anion Units: mg/K HighLimit	s g %RPD	RPDLimit	Qual

Qualifiers:

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

WO#: 1703B59

Page 5 of 8

24-Mar-17

Client:

Hall Environmental Analysis Laboratory, Inc.

Williams Field Services

Project:	Lat H-16										
Sample ID	MB-30857	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batc	h ID: 3	0857	F	RunNo: 4	1593				
Prep Date:	3/23/2017	Analysis E	Date: 3	3/23/2017	S	SeqNo: 1	304737	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10	1							
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		11		10.00		107	70	130			
Sample ID	LCS-30857	SampT	ype: L	cs	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	LCSS	Batch	h ID: 30)857	F	RunNo: 4	1593				
Prep Date:	3/23/2017	Analysis D	Date: 3	/23/2017	5	SeqNo: 1	304744	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	50	10	50.00	0	100	63.8	116			
Surr: DNOP		5.2		5.000		104	70	130			
Sample ID	LCS-30846	SampT	ype: Lo	cs	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 30	0846	F	RunNo: 4	1593				
Prep Date:	3/22/2017	Analysis D	ate: 3	/23/2017	5	SeqNo: 1	305627	Units: %Ree	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.2		5.000		103	70	130			
Sample ID	MB-30846	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	D: 30	846	R	RunNo: 4	1593				
Prep Date:	3/22/2017	Analysis D	ate: 3	/23/2017	S	SeqNo: 1	305628	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		105	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1703B59

24-Mar-17

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B59 24-Mar-17

Client: Project:	Williams Lat H-16	Field Ser	vices								
Sample ID RB		SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS		Batch ID: G41606 RunNo:			RunNo: 4	1606					
Prep Date:		Analysis [Date: 3/	23/2017	S	SeqNo: 1	305565	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO)	ND	5.0								
Surr: BFB		910		1000		91.2	54	150			
Sample ID 2.5UG G	RO LCS	SampT	Type: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS		Batc	h ID: G4	1606	F	RunNo: 4	1606				
Prep Date:		Analysis E	Date: 3/	23/2017	S	SeqNo: 1	305566	Units: mg/M	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO)	27	5.0	25.00	0	109	76.4	125			
Surr: BFB		1000		1000		99.6	54	150			

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
- W Sample container temperature is out of limit as specified

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

Project:	Lat H-16

Sample ID RB	Samp	Гуре: МВ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: R4	1606	F	RunNo: 4	1606				
Prep Date:	Analysis [Date: 3/	23/2017	5	SeqNo: 1	305574	Units: mg/h	(g		
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		112	66.6	132			
Sample ID 100NG BTEX L	.CS Samp1	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Sample ID 100NG BTEX L Client ID: LCSS	.CS SampT Batcl	Type: LC	S 1606	Tes F	tCode: El	PA Method 1606	8021B: Vola	tiles		
Sample ID 100NG BTEX L Client ID: LCSS Prep Date:	.CS Samp1 Batcl Analysis D	Type: LC h ID: R4 Date: 3/	S 1606 23/2017	Tes F S	tCode: El tunNo: 4 teqNo: 1	PA Method 1606 305575	8021B: Volat	tiles (g		
Sample ID 100NG BTEX L Client ID: LCSS Prep Date: Analyte	. CS SampT Batcl Analysis D Result	Type: LC h ID: R4 Date: 3/ PQL	S 1606 23/2017 SPK value	Tes F S SPK Ref Val	tCode: El tunNo: 4 teqNo: 1 %REC	PA Method 1606 305575 LowLimit	8021B: Volat Units: mg/K HighLimit	tiles (g %RPD	RPDLimit	Qual
Sample ID 100NG BTEX L Client ID: LCSS Prep Date: Analyte Benzene	CS SampT Batcl Analysis D Result 1.0	Type: LC h ID: R4 Date: 3/ PQL 0.025	s 1606 23/2017 SPK value 1.000	Tes F S SPK Ref Val 0	Code: El cunNo: 4 GeqNo: 1 %REC 102	PA Method 1606 305575 LowLimit 80	8021B: Volat Units: mg/K HighLimit 120	tiles (g %RPD	RPDLimit	Qual
Sample ID 100NG BTEX L Client ID: LCSS Prep Date: Analyte Benzene Toluene	CS SampT Batcl Analysis D Result 1.0 1.0	Type: LC h ID: R4 Date: 3/ PQL 0.025 0.050	S 1606 23/2017 <u>SPK value</u> 1.000 1.000	Tes F S SPK Ref Val 0 0	Code: El RunNo: 4 GeqNo: 1 <u>%REC</u> 102 102	PA Method 1606 305575 LowLimit 80 80	8021B: Volat Units: mg/k HighLimit 120 120	tiles (g %RPD	RPDLimit	Qual
Sample ID 100NG BTEX L Client ID: LCSS Prep Date: Analyte Benzene Toluene Ethylbenzene	CS SampT Batcl Analysis D Result 1.0 1.0 1.0	Type: LC h ID: R4 Date: 3/ PQL 0.025 0.050 0.050	S 1606 23/2017 SPK value 1.000 1.000 1.000	Tes F S SPK Ref Val 0 0 0 0	tCode: El tunNo: 4 GeqNo: 1: %REC 102 102 103	PA Method 1606 305575 LowLimit 80 80 80	8021B: Volar Units: mg/K HighLimit 120 120 120	tiles (g %RPD	RPDLimit	Qual
Sample ID 100NG BTEX L Client ID: LCSS Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	CS SampT Batcl Analysis D Result 1.0 1.0 1.0 3.1	Type: LC h ID: R4 Date: 3/ PQL 0.025 0.050 0.050 0.10	s 1606 23/2017 SPK value 1.000 1.000 1.000 3.000	Tes F SPK Ref Val 0 0 0 0 0	tCode: El tunNo: 4 seqNo: 1: %REC 102 102 103 103	PA Method 1606 305575 LowLimit 80 80 80 80 80	8021B: Volar Units: mg/K HighLimit 120 120 120 120	tiles (g %RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W

Page 8 of 8

WO#: 1703B59

24-Mar-17

ENVIRONMENTAL AI ANALYSIS TEL: 505-345-397 LABORATORY Website: www.l	4901 Hawkin buquerque, NM 8 75 FAX: 505-345- hallenvironmenta	alory as NE 37109 Sam 4107 L.com	ple Log-In Check List
Client Name: WILLIAMS FIELD SERVI Work Order Number	er: 1703B59		RcptNo: 1
Received by/date:			
Logged By: Lindsay Mahgin 3/23/2017 7:20:00 AM	vi	Julythigo	
Completed By: Lindsay Mangin 3/23/2017 8j31:08 All	M	Andythere	
Reviewed By: (
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 🗌	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗍	
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 🗹	# of preserved
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	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 🗌 I	Phone 🔄 Fax	In Person
Regarding:		V	ang ding and an and and a list of the state
Glient Instructions: 1		10 	
Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 1 1.7 Good Yes	Seal Date	Signed By	

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Client:	WF	3		E Standard	Z Rush	3-23-17						EI YS		S L	AB		RAT	TA	L ZY
Mailino	Address				1					WW	w.ha	llenv	ironr	nent	al.co	m			
MOHUS	Auuress	183	CR 4900	L=+- 1	7-16	l.	4901 Hawkins NE - Albuguerque, NM 87109												
BI	00m	Field	Nm 874/3	Project #:				Tel	505	-345-	3975	F	XS	505-	345-4	4107	-		
Phone f	Ħ:										A	Inaly	sis	Req	uest				
email or	r Fax带: /	mitch.	Morrig@Willion . ca	Project Mana	ger:		=	, fluc	RO				0	c/s					
QA/QC F	Package:			· · · · ·		~ S	802	SS	M		(S)		04.5	CB.					
C Stan	dard		Level 4 (Full Validation)	Mitch	morri	<u> </u>	- 5	0	R		SIN		2.P	22 P					
Accredi	tation	- 046-	_	Sampler:M	oggan K	11.60	TA	1 d		E E	270		N.	808					
	AP			On Ice:	/ Yes		S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				V or								
LIEUD	(Type)_			Sample tem	perature: /,	T	THE PARTY	ITB	B	pod pod	10	Aeta	CI.	ticid	8	7-in	S		
Data	Tinica	. h. f. acharta i	Consider Device at ID	Container	Preservative		1	2 +	015	Met	(83	81	S (F	best	2	Ser	4		
Date	lime	Matrix	Sample Request ID	Type and #	Туре	HEAL NO.	EX	Ш	H 8	H	H's	RA	ion	81	60E	20	T		
						1403859	8	BT	F		i a	K	An	80	82	82	V	·	
115/17	9:25	50,1	Let worthwall	1-402	Cool	-001	X		X								X		
1/17	9:30	Sail	Laf H-16	1-402	1	-002	X		X								X		
A/17	9-26-	Soil	hat H=16s will	1 1102		-102	X		X				1				X		
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 20, 2017

Mitch Morris Williams Field Services 1755 Arroyo Dr., Bloomfield, NM 87413 TEL: (505) 632-4442 FAX OIL CONS. DIV DIST. 3 APR 0 7 2017

RE: Lat H-16/Reames A1 Drip Tank Spill

OrderNo.: 1703794

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/15/2017 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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report	
Lab Order 1703794	

Date Reported: 3/20/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field ServicesProject:Lat H-16/Reames A1 Drip Tank SpillLab ID:1703794-001Matrix: SOIL

Client Sample ID: Lat H-16 Reames A-1 Sidewalls Collection Date: 3/14/2017 1:30:00 PM Received Date: 3/15/2017 7:20:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	3/17/2017 6:05:47 PM	30766
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	s			Analyst	MAB
Diesel Range Organics (DRO)	46	9.4	mg/Kg	1	3/16/2017 3:15:04 PM	30698
Motor Oil Range Organics (MRO)	49	47	mg/Kg	1	3/16/2017 3:15:04 PM	30698
Surr: DNOP	77.2	70-130	%Rec	1	3/16/2017 3:15:04 PM	30698
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/16/2017 2:12:46 PM	30712
Surr: BFB	88.0	54-150	%Rec	1	3/16/2017 2:12:46 PM	30712
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	3/16/2017 2:12:46 PM	30712
Toluene	ND	0.047	mg/Kg	1	3/16/2017 2:12:46 PM	30712
Ethylbenzene	ND	0.047	mg/Kg	1	3/16/2017 2:12:46 PM	30712
Xylenes, Total	ND	0.094	mg/Kg	1	3/16/2017 2:12:46 PM	30712
Surr: 4-Bromofluorobenzene	84.0	66.6-132	%Rec	1	3/16/2017 2:12:46 PM	30712

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 6
	ND	Not Detected at the Reporting Limit	Р	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	W	Sample container temperature is out of limit as specified

Hall Er	Hall Environmental Analysis Laboratory, Inc. Date Reported: 3/20/2017										
CLIENT: Project:	Williams Field Services Lat H-16/Reames A1 Drip 7	Tank Spill		C	lient Samp Collection	le ID: La Date: 3/1	t H-16 Reames A-1 Bc 4/2017 1:40:00 PM	ottom C			
Lab ID:	1703794-002	Matrix:	SOIL		Received	Date: 3/1	5/2017 7:20:00 AM				
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS						Analyst	MRA			
Chloride		ND	30		mg/Kg	20	3/17/2017 6:18:12 PM	30766			
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: MAR							MAB				
Diesel Ra	ange Organics (DRO)	29	10		mg/Kg	1	3/16/2017 3:44:16 PM	30698			
Motor Oil	Range Organics (MRO)	50	50		mg/Kg	1	3/16/2017 3:44:16 PM	30698			
Surr: D	DNOP	84.5	70-130		%Rec	1	3/16/2017 3:44:16 PM	30698			
EPA MET	HOD 8015D: GASOLINE RA	NGE					Analyst	NSB			
Gasoline	Range Organics (GRO)	17	4.7		mg/Kg	1	3/16/2017 9:11:41 PM	30712			
Surr: E	BFB	187	54-150	S	%Rec	1	3/16/2017 9:11:41 PM	30712			
EPA MET	HOD 8021B: VOLATILES						Analyst	NSB			
Benzene		ND	0.024		mg/Kg	1	3/16/2017 9:11:41 PM	30712			
Toluene		0.13	0.047		mg/Kg	1	3/16/2017 9:11:41 PM	30712			
Ethylben	zene	0.098	0.047		mg/Kg	1	3/16/2017 9:11:41 PM	30712			
Xylenes,	Total	1.4	0.095		mg/Kg	1	3/16/2017 9:11:41 PM	30712			
Surr: 4	-Bromofluorobenzene	84.6	66 6-132		%Rec	1	3/16/2017 9:11:41 PM	30712			

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 2 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 age 2 01 0
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of lim	it as specified

Analytical Report

Lab Order 1703794

1

Hall Environmental Analysis Laboratory, Inc.

and ricid Services
-16/Reames A1 Drip Tank Spill

Sample ID MB-30766	SampType: mblk	TestCode: EPA Method 3	300.0: Anions	
Client ID: PBS	Batch ID: 30766	RunNo: 41494		
Prep Date: 3/17/2017	Analysis Date: 3/17/2017	SeqNo: 1301155	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-30766	SampType: Ics	TestCode: EPA Method 3	300.0: Anions	
Sample ID LCS-30766 Client ID: LCSS	SampType: Ics Batch ID: 30766	TestCode: EPA Method 3 RunNo: 41494	300.0: Anions	
Sample ID LCS-30766 Client ID: LCSS Prep Date: 3/17/2017	SampType: Ics Batch ID: 30766 Analysis Date: 3/17/2017	TestCode: EPA Method 3 RunNo: 41494 SeqNo: 1301156	300.0: Anions Units: mg/Kg	
Sample ID LCS-30766 Client ID: LCSS Prep Date: 3/17/2017 Analyte	SampType: Ics Batch ID: 30766 Analysis Date: 3/17/2017 Result PQL SPK value	TestCode: EPA Method 3 RunNo: 41494 SeqNo: 1301156 SPK Ref Val %REC LowLimit	300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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1703794 20-Mar-17

WO#:

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703794

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20-Mar-17

Client:Williams Field ServicesProject:Lat H-16/Reames A1 Drip Tank Spill

Sample ID LCS-30698	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batcl	h ID: 30	698	F	RunNo: 4	1403				
Prep Date: 3/15/2017	Analysis D	Date: 3/	16/2017	S	SeqNo: 1	299328	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.8	63.8	116			
Surr: DNOP	5.1		5.000		102	70	130			
Sample ID MB-30698	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Sample ID MB-30698 Client ID: PBS	Samp1 Batcl	Гуре: МЕ h ID: 30	3LK 698	Tes F	tCode: El RunNo: 4	PA Method 14 <mark>03</mark>	8015M/D: Di	esel Rang	e Organics	
Sample ID MB-30698 Client ID: PBS Prep Date: 3/15/2017	SampT Batcl Analysis D	Гуре: МЕ h ID: 30 Date: 3/	BLK 698 16/2017	Tes F	tCode: El RunNo: 4 SeqNo: 1	PA Method 1403 299329	8015M/D: Di	esel Range (g	e Organics	
Sample ID MB-30698 Client ID: PBS Prep Date: 3/15/2017 Analyte	SampT Batcl Analysis D Result	Fype: ME h ID: 30 Date: 3/ PQL	BLK 698 16/2017 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 4 SeqNo: 1 %REC	PA Method 1403 299329 LowLimit	8015M/D: Di Units: mg/H HighLimit	esel Rang (g %RPD	e Organics RPDLimit	Qual
Sample ID MB-30698 Client ID: PBS Prep Date: 3/15/2017 Analyte Diesel Range Organics (DRO)	SampT Batcl Analysis E Result ND	Fype: ME h ID: 30 Date: 3 PQL 10	3LK 698 16/2017 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 4 SeqNo: 1 %REC	PA Method 1403 299329 LowLimit	8015M/D: Di Units: mg/k HighLimit	esel Rang (g %RPD	e Organics RPDLimit	Qual
Sample ID MB-30698 Client ID: PBS Prep Date: 3/15/2017 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	SampT Batcl Analysis E Result ND ND	Fype: ME h ID: 30 Date: 3/ PQL 10 50	BLK 698 16/2017 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 4 SeqNo: 1 %REC	PA Method 1403 299329 LowLimit	8015M/D: Di Units: mg/F HighLimit	esel Rang (g %RPD	e Organics	Qual

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
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Client: Williams Field Services Lat H-16/Reames A1 Drip Tank Spill **Project:** Sample ID MB-30712 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Batch ID: 30712 RunNo: 41422 Client ID: PBS Analysis Date: 3/16/2017 SeqNo: 1299218 Units: mg/Kg Prep Date: 3/15/2017 HighLimit %RPD **RPDLimit** Qual Result PQL SPK value SPK Ref Val %REC LowLimit Analyte ND 5.0 Gasoline Range Organics (GRO) Surr: BFB 730 1000 72.6 54 150 TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-30712 SampType: LCS Client ID: LCSS Batch ID: 30712 RunNo: 41422 Prep Date: Analysis Date: 3/16/2017 SeqNo: 1299221 Units: mg/Kg 3/15/2017 SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result PQL LowLimit Analyte 115 76.4 125 Gasoline Range Organics (GRO) 29 5.0 25.00 0 Surr: BFB 810 1000 81.3 54 150 Sample ID MB-30725 TestCode: EPA Method 8015D: Gasoline Range SampType: MBLK Client ID: PBS Batch ID: 30725 RunNo: 41456 Prep Date: 3/16/2017 Analysis Date: 3/17/2017 SeqNo: 1300833 Units: %Rec %REC %RPD **RPDLimit** Qual Result SPK value SPK Ref Val LowLimit HighLimit Analyte PQL Surr: BFB 690 1000 68.6 54 150 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-30725 Client ID: LCSS Batch ID: 30725 RunNo: 41456 Prep Date: 3/16/2017 Analysis Date: 3/17/2017 SeqNo: 1300834 Units: %Rec %REC %RPD RPDLimit SPK value SPK Ref Val HighLimit Qual Analyte Result PQL LowLimit Surr: BFB 880 1000 88.2 54 150

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
- W Sample container temperature is out of limit as specified

Page 5 of 6

20-Mar-17

WO#: 1703794

Hall	Environmental	Analysis	Laboratory, 1	Inc.

Client: Will	iams Field Services			
Project: Lat 1	H-16/Reames A1 Drip Tank Spill			
Sample ID MB-30712	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 30712	RunNo: 41422		
Prep Date: 3/15/2017	Analysis Date: 3/16/2017	SeqNo: 1299243	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	0.79 1.000	79.2 66.6	132	
Sample ID LCS-30712	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 30712	RunNo: 41422		
Prep Date: 3/15/2017	Analysis Date: 3/16/2017	SeqNo: 1299244	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Benzene	0.97 0.025 1.000	0 97.2 80	120	
Toluene	0.99 0.050 1.000	0 98.6 80	120	
Ethylbenzene	1.0 0.050 1.000	0 100 80	120	
Xylenes, Total	3.1 0.10 3.000	0 102 80	120	
Surr: 4-Bromofluorobenzene	0.85 1.000	84.5 66.6	132	
Sample ID MB-30725	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 30725	RunNo: 41456		
Prep Date: 3/16/2017	Analysis Date: 3/17/2017	SeqNo: 1300908	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.75 1.000	75.3 66.6	132	
Sample ID LCS-30725	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 30725	RunNo: 41456		
Prep Date: 3/16/2017	Analysis Date: 3/17/2017	SeqNo: 1300909	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.74 1.000	74.3 66.6	132	

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
- W Sample container temperature is out of limit as specified

Page 6 of 6

WO#: 1703794 20-Mar-17

HALL Hall Environ ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-34 Website: 1	mental Analysis Labora 4901 Hawkin Albuquerque, NM 8 15-3975 FAX: 505-345-4 www.hallenvironmental	atory s NE 7109 Samj 4107 .com	ple Log-In Che	eck List
Client Name: WILLIAMS FIELD SERVI Work Order N	umber: 1703794		RcptNo: 1	
Received by/date: AT C-3 15/15	1			·
Logged By: Lindsay Mangin 3/15/2017 7:20:	00 AM	Julythings		
Completed By: Lindsay Mangin 3/15/2017 12;35	5:22 PM	And Happ		
Reviewed By: 0315	17			1
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 🗌		
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 🗹	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🖌	No 🗆	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 /ia:eMailI	Phone 🗌 Fax	In Person	
17. Additional remarks:				
18. <u>Cooler Information</u> <u>Cooler No</u> Temp °C Condition Seal Intact Seal I 1 1.0 Good Yes	No Seal Date	Signed By		
Page 1 of 1				

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Client:	hain wFS	of-Cu	istody Record	Turn-Around	Time:					H	A		E		/IF			1E			-
Mailing Blo	Address	188 12/d	NM 87413	Project Name Lof H- Dr: P 7 Project #:	H / Re FONK SP	enes Al		490 Te	01 H	awki 5-34	www ns N 5-39	v.hal IE - 975 A	llenv Alb F	iron uqui ax sis	ment erqui 505- Req	al.co e, Ni 345- uesi	om M 87 -410	'109 7			
email o QA/QC I Stan	r Fax#: // Package: idard	nitch.	Devel 4 (Full Validation)	Project Mana <i>Mifck</i>	Morris		B's (8021)	H (Gas only)	DRO / MRO)			(SWIS)		D2,PO4,SO4)	82 PCB's						
	AP (Type)	Othe	r	On loe: Sample Tem	Yes perature:	-0	18E + 7N	BE + TP	3 (GRO/	cd 418.1)	od 504.1	0 or 8270	etals	CI,NO3,NC	cides / 80	A)	(VOV-	le l			(V or N)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + M	BTEX + MI	TPH 8015E	TPH (Meth	EDB (Meth	PAH's (831	RCRA 8 M	Anions (F,C	3081 Pestic	3260B (VO	3270 (Sem	Chlor.			Air Bubbles
3/10/17	1:30	5021	Lot H-16 Reenes A-1 Sidewall 3 cant.	1-402	Cool	- 001	7		×	·	_							×		1	Ê
3/14/17	1:40	5011	Lef H-16 Rockes Al BoHom comp.	1-402	Cost	-002	7		×									×			
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Date: 3/14/17 Date: 3/14/17	Time: 1725 Time: 1911	Relinquish Relinquish	ed ty: * Xellion + Delte	Received by:	Whete	Dete Time 3/1/17 1785 Date 03/15/17 - 0720	Rer	nark	S:			date									

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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	\boxtimes	Initial Report	\boxtimes	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: Bancos Compressor Station	Facility Type: Compressor Stati	ion			

Surface Owner:	State of NM
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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
B	36	32N	6W					Rio Arriba

Latitude 36.942652 Longitude -107.405361

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 206 MCF	Volume Recovered: 0 MCF
Source of Release: Pipeline	Date and Hour of Occurrence:	Date and Hour of Discovery:
	07/20/2017 at 8:30 AM	07/20/2017 at 8:30 AM
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 🗌 No 🛛 Not Required	NA	
By Whom? NA	Date and Hour: NA	
W W	ICVEC Malana Investing the Wet	
was a watercourse Reached?	If YES, volume impacting the water	ercourse.
	NA	
If a Watercourse was Impacted, Describe Fully.*		
NA		
Describe Cause of Problem and Remedial Action Taken.*		
Compressor fuel system valve failure causing release of natural gas to	atmosphere. Valve was replaced.	
Describe Area Affected and Cleanup Action Taken.*		
Release was only gas and no liquids. No soil impacts reported.		
I haraby cortify that the information given above is true and complete to the	a hast of my knowledge and understar	ad that purguant to NMOCD pulse and
regulations all operators are required to report and/or file certain release n	otifications and perform corrective acti	ions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report" d	loes not relieve the operator of liability
should their operations have failed to adequately investigate and remediate	e contamination that pose a threat to gr	round water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of responsi	ibility for compliance with any other
federal, state, or local laws and/or regulations.		
$n \mid n n$	OIL CONSERV	ATION DIVISION
L'in the	0115 0 011015101	
77 10	Approved by Environmental Specialist	::
Signature:		
Printed Name: Kijun Hong	Can	
Title: Environmental Specialist	Approval Date: 8 212017	Expiration Date:
E-mail Address: kijun.hong@williams.com	Conditions of Approval:	
		Attached
Date: 08/2/2017 Phone: (505) 632-4475		
Attach Additional Sheets If Necessary	NA 17711241212	
	NAF. 1940-1112	

OIL CONS. DIV DIST. 3 AUG 07 2017

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

OPFR	ATO	R
VILIN	\mathbf{AIU}	

	OPERATOR	\boxtimes	Initial Report	\boxtimes	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: A-59	Facility Type: Compressor Stati	on			

Surface Owner: BLM	Mineral Owner	BLM Project No. NMNM089361

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	19	31N	5W					Rio Arriba

Latitude 36.879771 Longitude -107.402171

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 188 MCF	Volume Recovered: 0 MCF
Source of Release: Compressor Engine	Date and Hour of Occurrence:	Date and Hour of Discovery:
	07/31/2017 at 11:30 AM	07/31/17 at 11:30 AM
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 🗌 No 🛛 Not Required	NA	
By Whom? NA	Date and Hour: NA	
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse.
Yes X No	NA	
If a Watercourse was Impacted, Describe Fully.*		
NA		
Describe Cause of Problem and Remedial Action Taken.*		
Manual fuel gas scrubber dump valve was left open by contractor after	er maintenance. The valve was imm	ediately shut upon discovery.
Describe Area Affected and Cleanup Action Taken *		
There were no liquids associated with this release. No contaminated s	oil or cleanun required	
There were no neuros associated with this release. No containnated s	on or cleanup required.	
I hereby certify that the information given above is true and complete to the	he best of my knowledge and understan	nd that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release ne	otifications and perform corrective act	ions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report" d	loes not relieve the operator of liability
should their operations have failed to adequately investigate and remediate	e contamination that pose a threat to gr	round water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report de	oes not relieve the operator of response	ibility for compliance with any other
rederal, state, or local laws and/or regulations.	OUL CONCERN	
	<u>OIL CONSERV</u>	ATION DIVISION
La An	A manual has Englished and a long stalling	
Signature:	Approved by Environmental Specialis	$\langle \rangle$
	() (
Printed Name: Kijun Hong	lan	- cu
	DIDIDIT	
Title: Environmental Specialist	Approval Date: 0 3 3	Expiration Date:
E mail Address hiter have Omillions and	Conditions of Annually	
E-man Address: Kijun.nong@wimams.com	Conditions of Approval:	Attached
Date: 08/09/2017 Phone: (505) 632-4475	-	
* Attach Additional Sheets If Necessary	NUT ITALIZUADO-	

OIL CONS. DIV DIST. 3 AUG 14 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

Release Notification and Corrective Action

OPERATOR

OIL CONS. DIV DIST. 3 Form C-17. Revised April 3, 2017

Initial Report

Final Report

			minut report	I mai respons
Name of Company Williams Four Corners LLC	Contact Michael Hannan	_		
Address 1755 Arroyo Dr., Bloomfield, NM 87413	Telephone No. (505) 632-4807			
Facility Name Trunk L Compressor Station	Facility Type Compressor Station			

Surface Owner BLM	Mineral Owner	API No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
Р	21&22	28N	5W					Rio Arriba

Latitude 36.643012° N Longitude -107.354571° W NAD83 NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 2,800 MCF	Volume Recovered 0 MCF
Source of Release Pressure Relief Valve	Date and Hour of Occurrence	Date and Hour of Discovery
	07/29/2017 11:30 PM	07/30/2017 1:00 AM
Was Immediate Notice Given?	If YES, To Whom?	
Yes 🗌 No 🗌 Not Required	Vanessa Fields (NMOCD)	
	Whitney Thomas (BLM); voice ma	il
By Whom? Michael Hannan	Date and Hour	
	07/31/2017 12:58 PM (BLM)	
	07/31/2017 1:02 PM (NMOCD)	
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse.
🗌 Yes 🖾 No		
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.*

The Trunk L compressor station experienced high discharge pressure, which caused the discharge recycle to reach its set point and engage. This resulted in discharge gas being diverted to the suction line. This eventually caused Unit X00107 (EU No. 4) to go down on high suction pressure. At this point, the discharge and suction pressures equalized and caused the inlet scrubber PSV to release gas to protect equipment. Operations immediately dispatched personnel to the site to block in and de-pressure the unit, thereby minimizing the duration of the release. To prevent recurrence, the control logic will be reprogrammed so that when a unit goes down on high suction pressure, the recycle valve is closed. This will prevent the suction and discharge pressures from equalizing and potentially exceeding the PSV set point.

Describe Area Affected and Cleanup Action Taken.*

No cleanup required on 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.

MAA		OIL CONSERVATION	DIVISION
Signature:			$\left(\right)$
Printed Name: Michael Hannan		Approved by Environmental Specialist	
Title: Engineer, Sr.		Approval Date: 8 3 807 Expiration	Date:
E-mail Address: michael.hannan@williams.	com	Conditions of Approval:	Attached
Date: 08/08/2017	Phone: (505) 632-4807	_	
Attach Additional Sheets If Necessary		1 7	

NVF1724347186

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 8750

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. 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 Lateral E-3 Facility Type Pipeline Surface Owner Jicarilla Apache Nation Mineral Owner API No. Image: County C
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 Lateral E-3 Facility Type Surface Owner Jicarilla Apache Nation Mineral Owner API No. LOCATION OF RELEASE Unit Letter Section Township Range Feet from the Feet from the East/West Line County F 13 Township Range Feet from the North/South Line Feet from the County
Name of Company Williams Four Corners LLC Contact Mitch Morris Address 1755 Arroyo Drive Telephone No. 505-632-4708 Facility Name Lateral E-3 Facility Type Pipeline Surface Owner Jian 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
Address 1755 Arroyo Drive Telephone No. 505-632-4708 Facility Name Lateral E-3 Facility Type Pipeline Surface Owner Jittigarial Apache Nation Mineral Owner API No. LOCATION OF RELEASE LOCATION OF RELEASE County County Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County It ZrN 3W Feet from the North/South Line Feet from the East/West Line County Type of Release Natural Gas Volume of Release Estimated at 100 MCF Volume Recovered Estimated at 0 MCF Volume Recovered Estimated at 0 MCF Source of Release Natural Gas Volume of Occurrence Date and Hour of Discovery 08/09/2016, 10:00 AM MST 08/09/2016, 10:00 AM MST Was Immediate Notice Given? If YES, Yolume Impacting the Watercourse. TBD – This is a natural gas release and impacts to soil will be determined upor excavation and repair. THe pinhole leak was located in a dry wash. Please see the attached Lateral E-3 Subsurface Investigation Report prepared by LT Environmental, Inc. Describe Cause of Problem and Remedial Action Taken.* A line survey along Lateral E-3 identified a pipeline leak located in a dry wash. No l
Facility Name Lateral E-3 Facility Type Pipeline Surface Owner Jicarilla Apache Nation 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 F 13 27N 3W Feet from the North/South Line Feet from the East/West Line County Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County Count
Surface Owner Jicarilla Apache Nation 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 Image: 3W Feet from the North/South Line Feet from the East/West Line County Image: 3W Feet from the North/South Line Feet from the East/West Line County ON Latitude 36.575383° N Longitude -107.098583° W MAR 1 Ø MAR 1 Ø ON NATURE OF RELEASE Type of Release Natural Gas Volume of Release Estimated at 1646.76 MCF Source of Release Pinhole leak in pipeline Date and Hour of Occurrence Date and Hour of Discovery 08/09/2016, 10:00 AM MST If YES, To Whom? Cory Smith via Telephone If YES, Volume Impacting the Watercourse. By Whom? Mitch Morris Date and Hour 08/09/2016 ~1:30 pm If YES, Volume Impacting the Watercourse. TBD – This is a natural gas release and impacts to soil will be determined upor excavation and repair. If YES, Volume Impacting the Watercourse.
LOCATION OF RELEASE Unit Letter F Section 13 Township 27N Range 3W Feet from the survey along Lateral E-3 identified a pipeline leak located in a dry wash. No liquids were observed at the ground surface. The pipeline has been de County Feet from the 27N County Feet from the 3W Feet from the leak in pipeline Feet from the 3W East/West Line OU County Count
Unit Letter Section Township Range 3W Feet from the North/South Line Feet from the East/West Line County County Image: Feet from the 13 Township 27N 3W Feet from the North/South Line Feet from the East/West Line County
F 13 27N 3W Image: Construct of the system of the s
Latitude 36.575383° N Longitude -107.098583° W MAR 10 Long NATURE OF RELEASE Type of Release Natural Gas Volume of Release Estimated at 1646.76 MCF Volume Recovered Estimated at 0 MCF Source of Release Pinhole leak in pipeline Date and Hour of Occurrence 08/09/2016, 10:00 AM MST Date and Hour of Discovery 08/09/2016, 10:00 AM MST Was Immediate Notice Given? If YES, To Whom? Cory Smith via Telephone If YES, To Whom? Cory Smith via Telephone By Whom? Mitch Morris Date and Hour 08/09/2016~1:30 pm If YES, Volume Impacting the Watercourse. TBD – This is a natural gas release and impacts to soil will be determined upor excavation and repair. If a Watercourse was Impacted, Describe Fully.* The pinhole leak was located in a dry wash. Please see the attached Lateral E-3 Subsurface Investigation Report prepared by LT Environmental, Inc. Describe Cause of Problem and Remedial Action Taken.* A line survey along Lateral E-3 identified a pipeline leak located in a dry wash. No liquids were observed at the ground surface. The pipeline has been de
NATURE OF RELEASE Type of Release Natural Gas Volume of Release Estimated at 1646.76 MCF Volume Recovered Estimated at 0 MCF Source of Release Pinhole leak in pipeline Date and Hour of Occurrence 08/09/2016, 10:00 AM MST Date and Hour of Discovery 08/09/2016, 10:00 AM MST Was Immediate Notice Given? If YES, To Whom? Cory Smith via Telephone By Whom? Mitch Morris Date and Hour 08/09/2016 ~1:30 pm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. TBD – This is a natural gas release and impacts to soil will be determined upor excavation and repair. If a Watercourse was Impacted, Describe Fully.* The pinhole leak was located in a dry wash. Please see the attached Lateral E-3 Subsurface Investigation Report prepared by LT Environmental, Inc. Describe Cause of Problem and Remedial Action Taken.* A line survey along Lateral E-3 identified a pipeline leak located in a dry wash. No liquids were observed at the ground surface. The pipeline has been de
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Was himediate Folder of Vent. Yes No Not Required By Whom? Mitch Morris Date and Hour 08/09/2016 ~1:30 pm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. TBD – This is a natural gas release and impacts to soil will be determined upon excavation and repair. If a Watercourse was Impacted, Describe Fully.* The pinhole leak was located in a dry wash. Please see the attached Lateral E-3 Subsurface Investigation Report prepared by LT Environmental, Inc. Describe Cause of Problem and Remedial Action Taken.* A line survey along Lateral E-3 identified a pipeline leak located in a dry wash. No liquids were observed at the ground surface. The pipeline has been determined in a dry wash.
By Whom? Mitch Morris Date and Hour 08/09/2016 ~1:30 pm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. TBD – This is a natural gas release and impacts to soil will be determined upon excavation and repair. If a Watercourse was Impacted, Describe Fully.* The pinhole leak was located in a dry wash. Please see the attached Lateral E-3 Subsurface Investigation Report prepared by LT Environmental, Inc. Describe Cause of Problem and Remedial Action Taken.* A line survey along Lateral E-3 identified a pipeline leak located in a dry wash. No liquids were observed at the ground surface. The pipeline has been determined at the ground surface.
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The pinhole leak was located in a dry wash. Please see the attached <i>Lateral E-3 Subsurface Investigation Report</i> prepared by LT Environmental, Inc. Describe Cause of Problem and Remedial Action Taken.* A line survey along Lateral E-3 identified a pipeline leak located in a dry wash. No liquids were observed at the ground surface. The pipeline has been de-
pressurized/isolated and is awaiting repair. Final Report Update: Please see the attached Lateral E-3 Subsurface Investigation Report confirming all potential impacted soil was addressed during initial response.
Describe Area Affected and Cleanup Action Taken.*
Initial excavation and repair of the pipeline is scheduled for 08-12-2016. Please see the attached <i>Lateral E-3 Subsurface Investigation Report</i> confirming all potential impacted soil was addressed during the initial response.
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.
OIL CONSERVATION DIVISION
Mitch Morris Mulle Mans Signature: Approved by Environmental Specialist:
- />
Printed Name: Mitch Morris
Printed Name: Mitch Morris Title: Environmental Specialist Approval Date: B 5 17 Expiration Date:
Printed Name: Mitch Morris Title: Environmental Specialist Approval Date: B-mail Address: Mitch.Morris@williams.com Conditions of Approval: SEPS Attached



LT Environmental, Inc.

848 East Second Avenue Durango, Colorado 81301 T 970.385.1096

January 10, 2017

Mr. Mitch Morris Williams Four Corners LLC 1755 Arroyo Drive Bloomfield, New Mexico 87413

RE: Lateral E-3 Subsurface Investigation Report Williams Four Corners LLC Rio Arriba County, New Mexico

Dear Mr. Morris:

LT Environmental, Inc. (LTE), on behalf of Williams Four Corners LLC (Williams), conducted a subsurface investigation following remediation of soil impacted by a release at the Lateral E-3 pipeline (Site). The purpose of the investigation was to confirm Williams addressed all potential soil impact during initial response actions and, because the release occurred in a dry wash with suspected shallow groundwater, confirm the absence of groundwater at depths where soil impact was originally observed. The investigation was conducted at the request of the New Mexico Oil Conservation Division (NMOCD) to better characterize the extent of the release.

Site Description and History

The Site is in the southeast quarter of the northwest quarter of Section 13, Township 27 North, and Range 3 West in Rio Arriba County, New Mexico, within the headwaters of Arroyo Compañero. as depicted on Figure 1. Arroyo Compañero drains into Largo Canyon, which eventually terminates into the San Juan River approximately 42 miles to the northwest.

On August 9, 2016, Williams personnel discovered a pinhole gas leak during a leak detection survey on the Lateral E-3 natural gas pipeline. Williams reported the release to the NMOCD on an initial *C-141 Release Notification and Corrective Action Form.* The volume of the release was estimated to be 1,646.76 thousand cubic feet (MCF). In response to the release, Williams abandoned approximately 300 feet of the existing pipeline in place and installed a new pipeline directly adjacent to the existing pipeline. Approximately 200 cubic yards of impacted soil were removed and disposed of offsite during the repairs. A composite soil sample from the walls and floor of the excavation was collected on August 16, 2016. Laboratory analytical results indicated no total petroleum hydrocarbons (TPH) or ethylbenzene were detected in the soil sample. Concentrations of benzene (0.12 milligrams per kilograms [mg/kg]), toluene (0.23 mg/kg), and total xylenes (0.3 mg/kg) were detected at concentrations compliant with NMOCD soil standards. Groundwater was not encountered during the repair of the pipeline, which reached a maximum depth of 14 feet below ground surface (bgs).



Morris, M. January 10, 2017 Page 2

Williams attempted to hand auger a borehole down gradient of the excavation to determine groundwater depth; however, the sand was too fine for recovery and hand auguring was unsuccessful.

Soil Sampling

LTE advanced one soil boring directly adjacent to the former release source on December 21, 2016, with a track-mounted Geoprobe[®] direct-push drilling rig operated by Earth Worx Environmental Services. The NMOCD requested that Williams confirm that potential soil impact during initial response actions were addressed and, because the release occurred in a dry wash with suspected shallow groundwater, confirm the absence of groundwater at depths where soil impact was originally observed. A site map with the soil boring location is depicted on Figure 2. The total depth of the soil boring was 20 feet bgs.

Continuous soil samples were collected from the borehole and logged by an LTE geologist using the Unified Soil Classification System (USCS). The intervals from immediately beneath the ground surface and then every two feet thereafter were screened for volatile aromatic hydrocarbons as well as any soil that was stained or had a hydrocarbon odor. Screening 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. The soil sample from the bottom of the borehole was collected in pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis and immediately placed on ice. The sample was shipped at 4 degrees Celsius (°C) under strict chain-of-custody procedures to Hall Environmental Analytical Laboratory Sciences (HEAL) in Albuquerque, New Mexico, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (USEPA) Method 8021 and TPH using USEPA Method 8015 within the required holding times. The borehole was filled with hydrated bentonite from total depth to ground surface upon completion.

Soil Analytical Results

Based on the Site being within 200 feet of a surface water body, the NMOCD ranking criteria triggers the following remediation action levels: 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total BTEX, and 100 mg/kg for total TPH.

Soil samples collected for field analysis during advancement of the soil boring were predominantly composed of pale to dark brown medium to course grained sand in the upper 8 feet of the borehole and transitioned to a sandy fat clay near the bottom of the borehole (20 feet bgs). The lithology decreased in grain size and increased in clay/silt content and plasticity with depth to 20 feet bgs. No visual staining, hydrocarbon odors, and/or elevated field screening results we observed in any of the samples logged in the borehole. The borehole log is included as Attachment 1.





P:Williams Four Comers/GIS/MXD/034016013_LATERAL_E3/034016013_FIG02_SITE.mxd

TABLE

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TABLE 1 SOIL ANALYTICAL RESULTS

LATERAL E-3 RIO ARRIBA COUNTY, NEW MEXICO WILLIAMS FOUR CORNERS LLC

Soil Sample ID	Sample Date	Depth (feet)	Vapor (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenze ne (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (GRO + DRO) (mg/kg)	MRO (mg/kg)	Chloride (mg/kg)
BH-1	12/21/2016	20	0	< 0.024	< 0.047	< 0.047	< 0.094	< 0.212	<4.7	<9.6	<14.3	NA	NA
Lat. E-3 Grab	8/16/2016	14	NA	0.12	0.2	< 0.032	0.300	0.650	<3.2	<9.7	<12.9	<48	<30
NMOCD Closur	re Criteria		NE	10	NE	NE	NE	50	NE	NE	100	NE	NE

NOTES:

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

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

DRO - diesel range organics analyzed by EPA Modified Method 8015

GRO - gasoline range organics analyzed by EPA Modified Method 8015

mg/kg - milligrams per kilogram

NA - Not Analyzed

NE - Not Established

NMOCD - New Mexico Oil Conservation Division

ppm - parts per million

TPH- total petroleum hydrocarbons (DRO + GRO)



ATTACHMENT 1 BOREHOLE LOG

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	STAN	n produce Na Skori						Date:	DII*I	Project Number:	12-5
				Sale					12/21/2016	03401	6013
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Elevation:	LO LACIEN	A REAL PROPERTY AND A REAL	Detector:					Drilling Me	thod:	Sampling Method:	
Gravel Pac	7,013		L	Mi	ni Rae Lit	e		Seal	Geoprobe	Continuous/	Soil Liner
Glaverrac	NA				•			Seat.	٨A	NA	•
Casing Typ	DC:						NO TO	Diameter:	Length:	Hole Diameter:	Depth to Liquid:
Screen Typ	INA ie:	(.)		Slot:	non inn na said		1.10	Diameter:	Length:	Total Depth:	Depth to Water:
	NA			١	A			1	NA NA	20'	NA
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/R	emarks	Well Completion
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	-								Boring/Well #	BH-1	
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11	E/	Compl	liance "	Engin	eering "	Remedia	atio	n	Project:	Lateral E-3	
C		LT En	vironn	nental	Inc.				Project #	034016012	
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	- Lith	ology/Remarks	Well Completion
					15		1499				1
	M	0	NO		16	12-16		CH	SAA w/6" of sand Sorted 50% Sar	of 50% finzs, then ladtocky	;
					17					NR	-
	M	ø	NO		. 18	16-20		CL	sandy fat clay 104R4/6 plas	50% sand 50% fines stic well scried	
	M	.0	NO	BH-1 C 1025	19			CH	Fut day w/son 10 YR 4/4	d (10-15%) course	
	·				20						
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ATTACHMENT 2

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LABORATORY ANALTYICAL REPORT



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

December 29, 2016

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

OrderNo.: 1612C35

Dear Brooke Herb:

RE: Lateral E-3

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/22/2016 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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order 1612C35

Date Reported: 12/29/2016

Analyst: NSB

Analyst: NSB

12/23/2016 9:06:09 PM 29355

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

•,

CLIENT:	Williams Four Corners	Client Sample ID: BH-1									
Project:	Lateral E-3			Collection	Date: 12	/21/2016 10:25:00 AN	1				
Lab ID:	1612C35-001	Matrix:	SOIL	Received	Date: 12	/22/2016 7:30:00 AM					
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Batch				
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS	5			Analys	том				
Diesel Ra	ange Organics (DRO)	ND	9.6	mg/Kg	1	12/28/2016 5:43:57 PM	29384				
Surr: D	DNOP	113	70-130	%Rec	1	12/28/2016 5:43:57 PM	29384				

4.7

68.3-144

0.024

0.047

0.047

0.094

80-120

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

ND

92.4

ND

ND

ND

ND

102

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 4
	ND	Not Detected at the Reporting Limit	Р	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	W	Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

Client:Williams Four CornersProject:Lateral E-3

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Sample ID LCS-29384	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 29	384	F	RunNo: 3	9672				
Prep Date: 12/23/2016	Analysis D	Date: 12	2/28/2016	S	SeqNo: 1	243438	Units: mg/k	٢g		
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	63.8	116			
Surr: DNOP	4.1		5.000		82.6	70	130			
Sample ID MB-29384	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Sample ID MB-29384 Client ID: PBS	SampT Batch	ype: ME	3LK 384	Tes	tCode: El RunNo: 3	PA Method 9672	8015M/D: Di	esel Range	e Organics	
Sample ID MB-29384 Client ID: PBS Prep Date: 12/23/2016	SampT Batch Analysis D	ype: ME 1D: 29: Date: 12	3LK 384 2/28/2016	Tes F S	tCode: El RunNo: 3 SeqNo: 1	PA Method 9672 243440	8015M/D: Di Units: mg/F	esel Rango (g	e Organics	
Sample ID MB-29384 Client ID: PBS Prep Date: 12/23/2016 Analyte	SampT Batch Analysis D Result	Type: ME n ID: 29: Date: 12 PQL	3LK 384 2/28/2016 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 3 SeqNo: 1 %REC	PA Method 9672 243440 LowLimit	8015M/D: Di Units: mg/F HighLimit	esel Rango (g %RPD	e Organics	Qual
Sample ID MB-29384 Client ID: PBS Prep Date: 12/23/2016 Analyte Diesel Range Organics (DRO)	SampT Batch Analysis D Result ND	ype: ME n ID: 29 Date: 12 PQL 10	3LK 384 2/28/2016 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 3 SeqNo: 1 %REC	PA Method 9672 243440 LowLimit	8015M/D: Di Units: mg/ł HighLimit	esel Rango (g %RPD	• Organics	Qual

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
- W Sample container temperature is out of limit as specified

1612C35 29-Dec-16

Page 2 of 4

WO#:

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Hall Environmental Analysis Laboratory, Inc.

Client: Williams Four Corners **Project:** Lateral E-3

Sample ID MB-29355	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	9	
Client ID: PBS	Batch	n ID: 29	355	F	RunNo: 3	9645				
Prep Date: 12/22/2016	Analysis D	ate: 12	2/23/2016	S	eqNo: 1	241869	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 900	5.0	1000		90.3	68.3	144			
Sample ID LCS-29355	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	9	
Sample ID LCS-29355 Client ID: LCSS	SampT Batch	ype: LC	S 355	Tes	tCode: EF	PA Method 9645	8015D: Gaso	line Rang	9	
Sample ID LCS-29355 Client ID: LCSS Prep Date: 12/22/2016	SampT Batch Analysis D	ype: LC n ID: 29 Date: 12	S 355 2/23/2016	Tes F S	Code: EF anNo: 39 agNo: 12	PA Method 9645 241870	8015D: Gaso Units: mg/K	line Rang	9	
Sample ID LCS-29355 Client ID: LCSS Prep Date: 12/22/2016 Analyte	SampT Batch Analysis D Result	ype: LC n ID: 29 Date: 12 PQL	S 355 2/23/2016 SPK value	Tes F S SPK Ref Val	Code: EF RunNo: 39 GeqNo: 12 %REC	PA Method 9645 241870 LowLimit	8015D: Gaso Units: mg/K HighLimit	line Rang G %RPD	e RPDLimit	Qual
Sample ID LCS-29355 Client ID: LCSS Prep Date: 12/22/2016 Analyte Gasoline Range Organics (GRO)	SampT Batch Analysis D Result 24	ype: LC n ID: 29 Date: 12 PQL 5.0	S 355 2/23/2016 SPK value 25.00	Tes F S SPK Ref Val 0	Code: EF RunNo: 39 GeqNo: 12 %REC 94.0	PA Method 9645 241870 LowLimit 74.6	8015D: Gaso Units: mg/K HighLimit 123	iline Rang Gg %RPD	e RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Page 3 of 4

29-Dec-16

Hall	Environmental	Analysis	Laboratory,	Inc.
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Client: Williams Four Corners Project: Lateral E-3

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Sample ID MB-29355	Samp	Гуре: МВ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 29	355	F	RunNo: 3	9645				
Prep Date: 12/22/2016	Analysis E	Date: 12	2/23/2016	S	SeqNo: 1	241911	Units: mg/k	۲g		
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	0.99		1.000		99.3	80	120			
		_								
Sample ID LCS-29355	Samp1	Type: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 29	355	F	RunNo: 3	9645				
Prep Date: 12/22/2016	Analysis E	Date: 12	2/23/2016	S	SeqNo: 1	241912	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	110	75.2	115			
Toluene	1.0	0.050	1.000	0	102	80.7	112			
Ethylbenzene	0.99	0.050	1.000	0	98.7	78.9	117			
Xylenes, Total	3.0	0.10	3.000	0	98.6	79.2	115			
0 15 1			4 000		100	00	100			

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
- W Sample container temperature is out of limit as specified

1612C35 29-Dec-16

Page 4 of 4

WO#: 1

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Analysis I 4901 H Albuquerque, TEL: 505-345-3975 FAX: 505 Website: www.hallenvironi	Laboratory Tawkins NE NM 87109 San San San San San	nple Log-In Cl	heck L
Client Name: WILLIAMS FOUR CORN	Work Order Number: 1612C3	35	RcptNo:	1
Received by/date:_/T_12/22/1	6			
Logged By: Anne Thorne	12/22/2016 7:30:00 AM	anne An	~	
Completed By: Anne Thorne Reviewed By:	12/22/2016 11:20:24 AM	anne In	~	
Chain of Custody	ct of the			
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?	Courie	<u>r</u>		
Log In				
4. Was an attempt made to cool the samples?	Yes	✔ No □		
5. Were all samples received at a temperature of	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 broker	n? Yes [No 🗹	# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	No 🗌	for pH: (<2 o	r >12 unles
13. Are matrices correctly identified on Chain of C	Custody? Yes	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?	Yes		Charles hu	
(If no, notify customer for authorization.)	Yes 1	NO L	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with the	nis order? Yes	No 🗌	NA 🗹	٦
Person Notified:	Date			
By Whom:	Via: 📋 eMail	Phone Fax		
Client Instructions:		e e constante e constante de la constante e const	A h h channess and a supply particular and a supply of the	
17. Additional remarks:				
18. <u>Cooler Information</u>	al Intact Seal No. Seal Date	e Signed By	1	
1 10 Good Ves		S Orgined by	-	

C ent:	hain Will	of-Cu	Fair Corners	Turn-Around I≫Standard	Time:					ŀ		LL AL	El YS	NV 519	/IF 5 L	20 .AE	NN 30	1E RA		AL	
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		Bloor	Mid DM	Project #:			1	Te	al. 50)5-34	15-3	975	F	ax	505-	345	4107	7			
one	#: 50	5-63	2-4442								-	A	naly	/sis	Req	uest	t				
nail o	r Fax#:			Project Mana	ger:		_	(ylr	(0)					0 ₄)							
√QC I ′Stan	Package: dard		Level 4 (Full Validation)	Brooke	Herb		s (8021	(Gas of	SO /-TAFF			SIMS)		PO4,SC	PCB's						
credi	itation AP	Othe	er	Sampler: 50	sh Ada	ms Tunna	+WB'	TPH	0/0	8.1)	4.1)	3270 5		3,NO2,	/ 8082		()				LN)
EDD	(Type)			Sample Tem	perature:		щ	н Ш	B	d 41	d 50	or	als	NON,	des		V0/				X O
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +-MTE	BTEX + MTE	TPH 8015B	TPH (Methoo	EDB (Metho	PAH's (8310	RCRA 8 Met	Anions (F,Cl	8081 Pestici	8260B (VOA	8270 (Semi-				Air Bubbies
21-6	1625	Seil	BH-1	(1) 402	6001	105-	X		X												
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ate:	Time:	Relinquish	ed by:	Received by:		Date Time	Rer	nark	<u> </u>		1.1		14								
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	Time:	Relinquish	ed by:	Received by.	han)	Date' Time	0	Air	et	R		L	4 f	lia	na si						

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

August 18, 2016

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

RE: Lat. E-3 Grab Bottom of Ditch

OrderNo.: 1608980

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/17/2016 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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis	Labora	tory, Inc.			Lab Order 1608980 Date Reported: 8/18/20	16
CLIENT: Williams Field Services Project: Lat. E-3 Grab Bottom of Ditch Lab ID: 1608980-001	Matrix:	C MEOH (SOIL)	Client Samp Collection Received	ole ID: La Date: 8/1 Date: 8/1	t. E-3 Grab 6/2016 12:50:00 PM 7/2016 8:20:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	8/17/2016 10:53:14 AM	27036
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	том
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/17/2016 10:12:31 AM	27028
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2016 10:12:31 AM	27028
Surr: DNOP	85.9	70-130	%Rec	1	8/17/2016 10:12:31 AM	27028
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	8/17/2016 11:23:18 AM	27006
Surr: BFB	84.0	68.3-144	%Rec	1	8/17/2016 11:23:18 AM	27006
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	0.12	0.016	mg/Kg	1	8/17/2016 11:23:18 AM	27006
Toluene	0.23	0.032	mg/Kg	1	8/17/2016 11:23:18 AM	27006
Ethylbenzene	ND	0.032	mg/Kg	1	8/17/2016 11:23:18 AM	27006
Xylenes, Total	0.30	0.064	mg/Kg	1	8/17/2016 11:23:18 AM	27006
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	8/17/2016 11:23:18 AM	27006

Analytical Report

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 4
	ND	Not Detected at the Reporting Limit	Р	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	W	Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1608980

Page 2 of 4

18-Aug-16

Client:	Willia	ms Field Servi	ces								
Project:	Lat. E-	-3 Grab Botton	n of D	oitch							
Sample ID	LCS-27019	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	iesel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 27	019	F	RunNo: 3	6556				
Prep Date:	8/16/2016	Analysis Da	te: 8/	17/2016	S	SeqNo: 1	132223	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.5		5.000		90.6	70	130			
Sample ID	MB-27019	SampTy	pe: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	iesel Rang	e Organics	
Client ID:	PBS	Batch	ID: 27	019	R	RunNo: 3	6556				
Prep Date:	8/16/2016	Analysis Da	te: 8/	17/2016	S	SeqNo: 1	132224	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.9		10.00		89.4	70	130			
Sample ID	LCS-27028	SampTy	pe: IC	s	Tes	Code: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Cumpione	200-21020	Gampiy					, , in other		5		
Client ID:	LCSS	Batch	ID: 27	028	R	unNo: 3	6557		5	5	
Client ID: Prep Date:	LCSS 8/17/2016	Batch I Analysis Da	ID: 27 te: 8/	028 (17/2016	R	tunNo: 3 SeqNo: 1	6557 132248	Units: mg/l	۲g		
Client ID: Prep Date: Analyte	LCSS 8/17/2016	Batch I Analysis Da Result	ID: 27 te: 8/ PQL	028 17/2016 SPK value	R S SPK Ref Val	RunNo: 3 SeqNo: 1 %REC	6557 132248 LowLimit	Units: mg/l HighLimit	≺g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range C	LCSS 8/17/2016 Drganics (DRO)	Batch I Analysis Da Result 52	ID: 27 te: 8/ PQL 10	028 117/2016 SPK value 50.00	R SPK Ref Val 0	RunNo: 3 SeqNo: 1 %REC 105	6557 132248 LowLimit 62.6	Units: mg/l HighLimit 124	∕g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range C Surr: DNOP	LCSS 8/17/2016 Drganics (DRO)	Analysis Da Result 52 4.8	ID: 27 te: 8/ PQL 10	028 17/2016 SPK value 50.00 5.000	R S SPK Ref Val 0	RunNo: 3 SeqNo: 1 %REC 105 96.2	6557 132248 LowLimit 62.6 70	Units: mg/l HighLimit 124 130	⟨g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range C Surr: DNOP	LCSS 8/17/2016 Drganics (DRO) MB-27028	Analysis Da Result 52 4.8 SampTy	D: 27 te: 8/ PQL 10	028 177/2016 SPK value 50.00 5.000 3LK	R S SPK Ref Val 0 Test	2unNo: 3 BeqNo: 1 %REC 105 96.2 Code: E	6557 132248 LowLimit 62.6 70 PA Method	Units: mg/l HighLimit 124 130 8015M/D: Di	Kg %RPD esel Rang	RPDLimit e Organics	Qual
Client ID: Prep Date: Analyte Diesel Range C Surr: DNOP Sample ID Client ID:	LCSS 8/17/2016 Drganics (DRO) MB-27028 PBS	Batch Analysis Da Result 52 4.8 SampTy Batch	ID: 27 te: 8/ PQL 10 pe: ME	028 17/2016 SPK value 50.00 5.000 BLK 028	R SPK Ref Val 0 Tesi	RunNo: 3 SeqNo: 1 %REC 105 96.2 Code: El	6557 132248 LowLimit 62.6 70 PA Method 6557	Units: mg/l HighLimit 124 130 8015M/D: Di	Kg %RPD	RPDLimit e Organics	Qual
Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date:	LCSS 8/17/2016 Drganics (DRO) MB-27028 PBS 8/17/2016	Batch Analysis Da Result 52 4.8 SampTy Batch I Analysis Da	PQL 10: 27 10 10 10 10 10: 27 10: 27 10: 27	028 17/2016 SPK value 50.00 5.000 3LK 028 17/2016	R S SPK Ref Val 0 Tesi R S	kunNo: 3 SeqNo: 1 %REC 105 96.2 Code: El kunNo: 3 SeqNo: 1	6557 132248 LowLimit 62.6 70 PA Method 6557 132249	Units: mg/l HighLimit 124 130 8015M/D: Di Units: mg/l	Kg %RPD lesel Rang	RPDLimit e Organics	Qual
Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte	LCSS 8/17/2016 Drganics (DRO) MB-27028 PBS 8/17/2016	Batch Analysis Da Result 52 4.8 SampTy Batch Analysis Da Result	ID: 27 te: 8/ PQL 10 pe: ME ID: 27 te: 8/ PQL	028 17/2016 SPK value 50.00 5.000 3LK 028 17/2016 SPK value	SPK Ref Val 0 Test SPK Ref Val	2unNo: 3 SeqNo: 1 %REC 105 96.2 Code: E cunNo: 3 SeqNo: 1 %REC	6557 132248 LowLimit 62.6 70 PA Method 6557 132249 LowLimit	Units: mg/l HighLimit 124 130 8015M/D: Di Units: mg/l HighLimit	<g %RPD esel Range (g %RPD</g 	RPDLimit e Organics	Qual
Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (LCSS 8/17/2016 Drganics (DRO) MB-27028 PBS 8/17/2016 Drganics (DRO)	Batch Analysis Da Result 52 4.8 SampTy Batch Analysis Da Result ND	D: 27 te: 8/ PQL 10 pe: ME D: 27 te: 8/ PQL 10	028 17/2016 SPK value 50.00 5.000 3LK 028 17/2016 SPK value	SPK Ref Val 0 Tesi SPK Ref Val	2unNo: 3 SeqNo: 1 %REC 105 96.2 Code: El 2unNo: 3 SeqNo: 1 %REC	6557 132248 LowLimit 62.6 70 PA Method 6557 132249 LowLimit	Units: mg/l HighLimit 124 130 8015M/D: Di Units: mg/l HighLimit	<g %RPD esel Range (g %RPD</g 	RPDLimit e Organics RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang	LCSS 8/17/2016 Drganics (DRO) MB-27028 PBS 8/17/2016 Drganics (DRO) pe Organics (MRO)	Batch Analysis Da Result 52 4.8 SampTy Batch Analysis Da Result ND ND	PQL 10: 27 te: 8/ 10 pe: ME D: 27 te: 8/ PQL 10 50	028 17/2016 SPK value 50.00 5.000 3LK 028 17/2016 SPK value	R SPK Ref Val 0 Tesi R SPK Ref Val	2unNo: 3 SeqNo: 1 %REC 105 96.2 Code: El 2unNo: 3 SeqNo: 1 %REC	6557 132248 LowLimit 62.6 70 PA Method 6557 132249 LowLimit	Units: mg/l HighLimit 124 130 8015M/D: Di Units: mg/l HighLimit	<g %RPD esel Range (g %RPD</g 	RPDLimit e Organics RPDLimit	Qual

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
- W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1608980

18-Aug-16

Client:WilliamProject:Lat. E-3	s Field Services Grab Bottom of	fDitch							
Sample ID MB-27006	SampType:	MBLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID:	27006	F	RunNo: 3	6570				
Prep Date: 8/16/2016	Analysis Date:	8/17/2016	S	SeqNo: 1	132895	Units: mg/M	g		
Analyte	Result PG	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5 850	5.0 1000		84.7	68.3	144			
Sample ID LCS-27006	SampType:	LCS	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID:	27006	F	RunNo: 30	6570				
Prep Date: 8/16/2016	Analysis Date:	8/17/2016	S	SeqNo: 1	132896	Units: mg/k	g		
Analyte	Result PG	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26 5	5.0 25.00	0	104	80	120			
Surr: BFB	900	1000		90.3	68.3	144			

Qualifiers:

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

Page 3 of 4

Reporting Detection Limit

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Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Hall	Environmen	ital Anal	ysis La	boratory,	Inc.

0.99

3.0

1.1

0.050

0.10

1.000

3.000

1.000

Client:	William	s Field Serv	vices										
Project:	Lat. E-3	Grab Botto	om of D	itch									
Sample ID	MB-27006	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles				
Client ID:	PBS	Batch	n ID: 27	006	RunNo: 36570								
Prep Date:	8/16/2016	Analysis D	ate: 8/	17/2016	S	SeqNo: 1	132930	Units: mg/M	(g				
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-Brom	ofluorobenzene	0.99		1.000		99.4	80	120					
Sample ID	LCS-27006	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	tiles				
Client ID:	LCSS	Batch	n ID: 27	006	F	RunNo: 3	6570						
Prep Date:	8/16/2016	Analysis D	ate: 8/	17/2016	S	SeqNo: 1	132931	Units: mg/k	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		0.83	0.025	1.000	0	83.2	75.3	123					
Toluene		0.92	0.050	1.000	0	92.1	80	124					

0

0

98.5

100

105

82.8

83.9

80

121

122

120

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Η 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

1608980

WO#:

Page 4 of 4

18-Aug-16

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Alb TEL: 505-345-397; Website: www.hu	l Analysi 4901 uquerqu 5 FAX: 5 allenvire	s Labora Hawkins e. NM 87 05-345-4 nmental.	1679 NE 1709 Sam 1707 com	ple Log-In Ch	eck List
Client Name: WILLIAMS FIELD SERVI	Work Order Number	1608	980		ReptNo:	1
Received by/date: AJ	08/17/16					
Logged By: Michelle Garcia	8/17/2016 8:20:00 AM			-Mirell Go	muia	
Completed By: Michelle Garcia	8/17/2016 8:49:30 AM	1		minul Go	mun	
Reviewed By: QCJ	08/17/16					
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?		Cour	ier			
Log In						
4. Was an attempt made to cool the samples?		Yes	V	No	NA	
5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	V	No	NA	
6. Sample(s) in proper container(s)?		Yes	V	No 🗌		
7. Sufficient sample volume for indicated test(s	:)?	Yes		No 🗌		
8. Are samples (except VOA and ONG) proper	ly 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 broke	en?	Yes		No 🗹	# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗆	for pH: (<2 or	>12 unless note
13. Are matrices correctly identified on Chain of	Custody?	Yes	$\mathbf{\overline{N}}$	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?		Yes	\mathbf{V}	No 🗌		
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes	V	No	Checked by:	
Special Handling (if applicable)						
16. Was client notified of all discrepancies with t	his order?	Yes		No 🗌	NA 🗹	
Person Notified:	Date	welden verfahr men				
By Whom:	Via:	🗌 eMa	il 🗌 F	hone 🗌 Fax	In Person	
Regarding:						
Client Instructions:						
17. Additional remarks:						
18. Cooler Information						
Cooler No Temp C Condition Se	al Intact Seal No	Seal Da	ite	Signed By		
1 1.4 Good Yes						

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С	hain	of-Cu	stody Record	Turn-Around	Time:	Same Day				н			F		TE	20	NF	ME	NT	-	
lient:	WF	5		□ Standard	Rush	8-17-16		2			N		Y	STS	11	AF	30	R/	TC		Y
				Project Name	ə:							hal	lony	iron	moni	tal c	om				·
ailing	Address	: 128	A 4900	1at 6	-2 608	Bally OF lity		100	11 11	ouki			Alle		nem		M 97	7100			
7100	- Li	100	10 27412	Project #:	J OVAD	Doffer or artic	14	490		5 34	5.30	075	AIL	Fax	505	345	410	7			
2100	# CDS	- 62)	-11708				120	16	1. 50	5-54	0-0:	A 2	nal	vsis	Rea	ues	-410	/			
mail o	r Fax#:	mitch	MARTIS@ Will EAS CON	Project Mana	der:			()	6					4)							
A/QC	Package:			i rejectivane	90		021)	uo s	MR			-		SO,	B's						
I Stan	idard		Level 4 (Full Validation)	mitch	morris		6 (8((Gaș	102			SIMS		PO	PC						
ccredi	itation			Sampler: Mo	19gn		MB	H	DF	=	÷	70 S		VO ₂ ,	3082						7
NEL	AP	□ Othe	r	On Ice:	Yes	🗆 No	+	+	RO	t18.	504.	r 82	0	03,1	s / 8		(A)	J			or
EDD	(Type)	,		Sample Tem	perature:	1.400		BE	0	pd 4	po	0 0	etal	N'N	cide	A	N-1	de			Z
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	EX + MI	EX + MT	H 8015B	H (Metho	B (Meth	H's (831	RA 8 M	ons (F,C	31 Pestic	SOB (VO	70 (Semi	-h lon			Bubbles
						1608980	BT	BT	TP	TP		PA	RC	Ani	808	826	827	V			Air
416	12:50	501	Let. E-3 Grab	1-402	('00'	-001	X		X									X			
,																		L)			
																				-	
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ate:	Time:		ed by:	Received by:	Wart	Date Time	Rem	arks	5:												
ate:	Time:	Relinquish	ed by:	Received by:	hun o	8/+6/16 0820															
	f necessary,	samples subr	mitted to Hall Environmental may be subc	ontracted to other a	ccredited laboratorie	s. This serves as notice of this	possib	ility. A	Any su	b-cont	racted	data	will be	e clear	ly nota	ated or	n the a	nalytic	al repor	t.	

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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.

API No.

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 Jicarilla 150 #1	Facility Type Pipeline		

Surface Owner Jicarilla Apache Nation Mineral Owner

LOCATION OF RELEASE

Unit Letter M	Section 1	Township 26N	Range 5W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba

Latitude <u>36.50976° N</u> Longitude -<u>107.31513° W</u>

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release Estimated at 883 MCF	Volume Recovered Estimated at 0 MCF
Source of Release Pinhole leak in pipeline	Date and Hour of Occurrence 09/27/2016, 2:30 PM MST	Date and Hour of Discovery 09/27/2016, 2:30 PM MST
Was Immediate Notice Given? 🛛 Yes 🗌 No 🗌 Not Required	If YES, To Whom? Vanessa Fields	s via Telephone
By Whom? Mitch Morris	Date and Hour 10/07/2016 ~9:22 a	m spict 3
Was a Watercourse Reached?	If YES, Volume Impacting the Wa Not Applicable	tercoole. CONS. DIV DIST. 0
If a Watercourse was Impacted, Describe Fully.*		SEP 1 2011
Not Applicable		
Describe Cause of Problem and Remedial Action Taken.*		
A routine leak survey crew identified a leak on the Jicarilla 150 #1 pipel	line. The line was immediately isolated	and de-pressurized, stopping the leak.
Describe Area Affected and Cleanup Action Taken.*		
Ine pipeline has been repaired. This leak was discovered in late 2016, r of Way surrounded by earthen berms. Samples were obtained in 2017 o as NMOCD was unable to witness. Confirmation soil samples are attack I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release	repaired and was left exposed until 2017 on both the excavation as well as the soi hed to this report. Please see the addition the best of my knowledge and understate notifications and perform corrective ac	7. Excavated soil was laid out on the Right l pile under Hobson Sandoval's supervision, onal information attached to this report. and that pursuant to NMOCD rules and ttions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedi- or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	the NMOCD marked as "Final Report" ate contamination that pose a threat to g t does not relieve the operator of respon	does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other
	OIL CONSERV	VATION DIVISION
Mitch Morris	Approved by Environmental Speciali	st: Par and i
Signature.	-	C
Printed Name: Mitch Morris		/
Title: Environmental Specialist	Approval Date: 9/13/17	Expiration Date:
E-mail Address: Mitch.Morris@williams.com	Conditions of Approval:	Attached
Date: 08/01/2017 Phone: 505-632-4708		
Attach Additional Sheets If Necessary #NUF 16322	38319	$(\overline{12})$

Remediation Excavation and Sampling Form

Site Name	Jicarilla 150	#1			
Excavation Dime	nsions (feet)				
20	Length	10	Width	4	Depth
20	Length	10	width	4	_

Excavation Diagram and Sample Locations

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



Composite soil sample locations



Sample Information

OCD Witness Sampling Yes or No Agency(s) Representative(s)

		Туре	Location	
Sample ID	Sample Date	(Composite, Grab)	(Floor, Sidewall)	Comments
1706417-001	6/7/2017	Composite	Sidewall Composite	
1705C39-001	5/23/2017	Composite	Excavated soil	
			composite	
1705C39-002	5/23/2017	Composite	Excavated soil	
			composite	

Ranking Score Determination
Legal (Unit, Sec, Twn, Rng) <u>SW //4</u> Sec. 1 T2C N - R SW GPS Coordinates 36, 5997, -107, 31,51

Ranking Score based on NMOCD Guidelines for Remediation of Leaks, Spllis, 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:	186	DTGW		\bigcirc
Depth to Grou	undwater	<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.

No water servers w/in # 1,000 Ft. Notes:

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

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. intermittert Arear

to

030 Notes: **Distance to Surface** <200 horizontal feet 200-1.000 >1,000/horizontal feet Water Body 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 5,000,mg/kg 1,000 mg/kg

Ranking Completed by (print and sign) Date 11-8-2016

Sources: **GPS** Conversion Tool New Mexico Water Rights Reporting System -- Water Column/Average Depth to Water Report New Mexico Oil and Gas Map

Hall Environmental Analysis	Labora	tory, In	с.	Lai Da	o Order 1706417 te Reported: 6/9/2017
CLIENT: Williams Field Services Project: Jic 150 #1 Line Leak Lab ID: 1706417-001	Matrix:	SOT	Client Sample Collection D Received D	ED: JIc 15	0 #1 Sidewalls 17 11:35:00 AM 17 7:15:00 AM
Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	s			Analyst: TOM
Diesel Range Organics (DRO)	19	9.7	maKa	1	6/8/2017 10:27:25 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/8/2017 10:27:25 AM
Sur: DNOP	88.5	70-130	%Rec	1	6/8/2017 10:27:25 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9	mgKg	1	6/8/2017 11:58:41 AM
Surr: BFB	132	54-150	%Rec	1	6/8/2017 11:58:41 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	6/8/2017 11:58:41 AM
Toluene	ND	0.039	mg/Kg	1	6/8/2017 11:58:41 AM
Ethylbenzene	ND	0.039	mg/Kg	1	6/8/2017 11:58:41 AM
Xylenes, Total	ND	0.077	mg/Kg	1	6/8/2017 11:58:41 AM
Surr: 4-Bromofluorobenzene	127	66.6-132	%Rec	1	6/8/2017 11:58:41 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	98	30	mg/Kg	20	6/8/2017 1:01:14 PM

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

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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 Page 1 of 6

Analytical Report

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analys	sis Labora	tory, In	ic.		Lab Date	Order 1706417 e Reported: 6/9/2017
CLIENT: Williams Field ServicesProject:Jic 150 #1 Line LeakLab ID:1706417-002	Matrix:	SOIL	C	lient Sample Collection I Received I	e ID: Jic 150 Date: 6/7/201 Date: 6/8/201	#1 Bottom 7 11:40:00 AM 7 7:15:00 AM
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst: TOM
Diesel Range Organics (DRO)	32	9.5		mg/Kg	1	6/8/2017 10:49:44 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/8/2017 10:49:44 AM
Surr: DNOP	91.3	70-130		%Rec	1	6/8/2017 10:49:44 AM
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	4.7	3.6		mg/Kg	1	6/8/2017 12:22:41 PM
Surr: BFB	153	54-150	S	%Rec	1	6/8/2017 12:22:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	6/8/2017 12:22:41 PM
Toluene	ND	0.036		mg/Kg	1	6/8/2017 12:22:41 PM
Ethylbenzene	ND	0.036		mg/Kg	1	6/8/2017 12:22:41 PM
Xylenes, Total	0.23	0.072		mg/Kg	1	6/8/2017 12:22:41 PM
Surr: 4-Bromofluorobenzene	129	66.6-132		%Rec	1	6/8/2017 12:22:41 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	30		ma/Ka	20	6/8/2017 1:38:27 PM

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

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- * 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 J

Analytical Report

- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified



May 26, 2017 Mitch Morris Williams Field Services 1755 Arroyo Dr., Bloomfield, NM 87413 TEL: (505) 632-4442 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Jic 150 #1 Land Farm

OrderNo.: 1705C39

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/24/2017 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 <u>www.hallenvironmental.com</u> 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,

Andia

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc. Analytical Report Lab Order 1705C39 Date Reported: 5/26/2017											
CLIENT: Williams Field Services			(Client Samp	e ID: Jic	150 #1 Land Farm Co	mp S-1				
Project: Jic 150 #1 Land Farm Lab ID: 1705C39-001	Matrix:	MEOH (Se	OIL)	Collection Received	Date: 5/2 Date: 5/2	3/2017 2:00:00 PM 4/2017 7:15:00 AM					
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS						Analyst	LGT				
Chloride	ND	30		mg/Kg	20	5/24/2017 3:19:40 PM	31936				
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S				Analyst	TOM				
Diesel Range Organics (DRO)	400	9.3		mg/Kg	1	5/25/2017 8:38:30 AM	31943				
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/25/2017 8:38:30 AM	31943				
Surr: DNOP	104	70-130		%Rec	1	5/25/2017 8:38:30 AM	31943				
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	NSB				
Gasoline Range Organics (GRO)	50	4.0		mg/Kg	1	5/24/2017 6:58:13 PM	G43026				
Surr: BFB	333	54-150	S	%Rec	1	5/24/2017 6:58:13 PM	G43026				
EPA METHOD 8021B: VOLATILES						Analyst	NSB				
Benzene	ND	0.020		mg/Kg	1	5/24/2017 6:58:13 PM	B43026				
Toluene	ND	0.040		mg/Kg	1	5/24/2017 6:58:13 PM	B43026				
Ethylbenzene	ND	0.040		mg/Kg	1	5/24/2017 6:58:13 PM	B43026				
Xylenes, Total	ND	0.080		mg/Kg	1	5/24/2017 6:58:13 PM	B43026				
Surr: 4-Bromofluorobenzene	133	66.6-132	S	%Rec	1	5/24/2017 6:58:13 PM	B43026				

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Bla	ank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 1 of 7
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	age 1 01 /
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as	s specified

Hall Environmental Analysis Laboratory, Inc. Analytical Report Lab Order 1705C39 Date Reported: 5/26											
CLIENT: Williams Field Services Project: Jic 150 #1 Land Farm Lab ID: 1705C39-002	Matrix:	MEOH (Se	(DIL)	Client Sampl Collection D Received D	e ID: Jic Date: 5/2 Date: 5/2	150 #1 Land Farm Co 3/2017 2:05:00 PM 4/2017 7:15:00 AM	mp N-2				
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS						Analyst	LGT				
Chloride	ND	30		mg/Kg	20	5/24/2017 3:32:05 PM	31936				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	TOM				
Diesel Range Organics (DRO)	600	9.7		mg/Kg	1	5/25/2017 9:00:56 AM	31943				
Motor Oil Range Organics (MRO)	61	48		mg/Kg	1	5/25/2017 9:00:56 AM	31943				
Surr: DNOP	107	70-130		%Rec	1	5/25/2017 9:00:56 AM	31943				
EPA METHOD 8015D: GASOLINE RAM	IGE					Analyst	NSB				
Gasoline Range Organics (GRO)	93	3.6		mg/Kg	1	5/24/2017 7:22:12 PM	G43026				
Surr: BFB	1020	54-150	S	%Rec	1	5/24/2017 7:22:12 PM	G43026				
EPA METHOD 8021B: VOLATILES						Analyst	NSB				
Benzene	ND	0.018		mg/Kg	1	5/24/2017 7:22:12 PM	B43026				
Toluene	ND	0.036		mg/Kg	1	5/24/2017 7:22:12 PM	B43026				
Ethylbenzene	ND	0.036		mg/Kg	1	5/24/2017 7:22:12 PM	B43026				
Xylenes, Total	ND	0.071		mg/Kg	1	5/24/2017 7:22:12 PM	B43026				
Surr: 4-Bromofluorobenzene	139	66.6-132	S	%Rec	1	5/24/2017 7:22:12 PM	B43026				

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Refe	r to th	e QC Summary report and sample login checklis	st for flagg	ed QC data and preservation inform	ation.
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 2 of 7
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 age 2 01 /
	R	RPD outside accepted recovery limits	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: Project:	Wil Jic	lliams Field Service 150 #1 Land Farm	S							(x)	
Sample ID	MB-31936	SampType	: ME	BLK	Tes	tCode: E					
Client ID:	PBS	Batch ID	31	936	F	RunNo: 4	3028				
Prep Date:	5/24/2017	Analysis Date	5/	24/2017	SeqNo: 1355112 Units: mg/Kg				g		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-31936	SampType	: LC	S	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID	319	936	F	RunNo: 4	3028				
Prep Date:	5/24/2017	Analysis Date	5/	24/2017	S	SeqNo: 1	355113	Units: mg/k	g		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.4	90	110			

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
- W Sample container temperature is out of limit as specified

Page 3 of 7

WO#: 1705C39 26-May-17

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Hall Environmental Analysis Laboratory, Inc.

Project:	Jic 150 #	1 Land Fa	rm								
Sample ID	LCS-31943	SampT	Type: LO	cs	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	h ID: 31	943	F	RunNo: 4	3051				
Prep Date:	5/24/2017	Analysis D	Date: 5	/25/2017	5	SeqNo: 1	354741	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Surr: DNOP	Organics (DRO)	42 4.8	10	50.00 5.000	0	84.8 95.2	73.2 70	114 130			
Sample ID	MB-31943	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	• Organics	
Client ID:	PBS	Batch	h ID: 31	943	F	RunNo: 4	3051				
Prep Date:	5/24/2017	Analysis D	ate: 5	/25/2017	S	SeqNo: 1	354742	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		9.6		10.00		96.1	70	130			
Sample ID	LCS-31932	SampT	ype: LC	cs	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 31	932	R	RunNo: 4	3051				
Prep Date:	5/24/2017	Analysis D	ate: 5	/25/2017	S	SeqNo: 1	355829	Units: %Red	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.5		5.000		89.3	70	130			
Sample ID	MB-31932	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	n ID: 31	932	R	RunNo: 4	3051				
Prep Date:	5/24/2017	Analysis D	ate: 5	/25/2017	S	SeqNo: 1	355830	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.4		10.00		94.4	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Η 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 4 of 7

WO#:

Hall Environmental Analysis Laboratory, Inc.

Client:	Williams	Field Servi	ices								
Project:	Jic 150 #1	Land Far	m								
Sample ID	MB-31921	SampTy	pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	le	
Client ID:	PBS	Batch	ID: 31	921	F	RunNo: 43026					
Prep Date:	5/23/2017	Analysis Da	ate: 5/	24/2017	S	SeqNo: 1	354470	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		980		1000		97.8	54	150			
Sample ID	LCS-31921	SampTy	pe: LC	s	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	LCSS	Batch	ID: 31	921	R	unNo: 43	3026				
Prep Date:	5/23/2017	Analysis Da	ate: 5/	24/2017	S	eqNo: 1	354471	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		106	54	150			
Sample ID	RB	SampTy	pe: ME	BLK	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	je	
Client ID:	PBS	Batch	ID: G4	3026	R	unNo: 43	3026				
Prep Date:		Analysis Da	ate: 5/	24/2017	S	eqNo: 1:	354482	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0	1000		00.4		150			
Surr: BFB		990		1000		99.1	54	150			
Sample ID	2.5UG GRO LCS	SampTy	pe: LC	s	Test	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: G4	3026	R	unNo: 43	3026				
Prep Date:		Analysis Da	ate: 5/	24/2017	S	eqNo: 13	354483	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	5.0	25.00	0	96.3	76.4	125			
Sull. DFD	-	1100		1000		112	54	150			
Sample ID	1705C39-001AMS	SampTy	pe: MS	6	Test	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	Jic 150 #1 Land Fa	ar Batch	ID: G4	3026	R	unNo: 43	3026				
Prep Date:		Analysis Da	ate: 5/	24/2017	S	eqNo: 13	354485	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	72 2900	4.0	20.11	49.80	355	77.8	128 150			S
		2000		001.0			01	100			0
Sample ID	1705C39-001AMSE	SampTy	pe: MS	SD	Test	Code: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	Jic 150 #1 Land Fa	ar Batch	ID: G4	3026	R	unNo: 43	3026	11-11			
Prep Date:		Analysis Da	ate: 5/	24/2017	S	eqNo: 13	354486	Units: mg/K	g		
Analyte	0	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	69	4.0	20.11	49.80	94.3	11.8	128	4.75	20	

Qualifiers:

Surr: BFB

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

2800

804.5

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

352

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

54

150

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WO#: 1705C39

26-May-17

Hall Environmental Analysis Laboratory, Inc.

Client:	Williams	Field Ser	vices								
Project:	Jic 150 #	Land Fa	ırm								
Sample ID	MB-31921	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Bato	h ID: 31	921	F	RunNo: 4	3026				
Prep Date:	5/23/2017	Analysis I	Date: 5/	24/2017	5	SeqNo: 1	354496	Units: %Re	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	1.2		1.000		117	66.6	132			
Sample ID	LCS-31921	Samp	Type: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSS	Batc	h ID: 31	921	F	RunNo: 4	3026				
Prep Date:	5/23/2017	Analysis I	Date: 5/	24/2017	S	SeqNo: 1	354497	Units: %Re	с		
Analyte		Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	1.3		1.000		127	66.6	132			
Sample ID	RB	Samp	Type: MF	N K	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Bato	h ID: B4	3026	F		3026	00210. 0010			
Pren Date:	100	Analysis I	Date: 5/	24/2017	, ,		354508	Units: ma/k	a		
Fiep Date.		Analysis	Jale. J	24/2017			334300	onito. mg/r	.y		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
loluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	1.1		1.000		115	66.6	132			
Sample ID	100NG BTEX LCS	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batc	h ID: B4	3026	F	RunNo: 4	3026				
Prep Date:		Analysis [Date: 5/	24/2017	S	SeqNo: 1	354509	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	102	80	120			
Toluene		1.0	0.050	1.000	0	103	80	120			
Ethylbenzene		1.0	0.050	1.000	0	104	80	120			
Xylenes, Total		3.2	0.10	3.000	0	105	80	120			
Surr: 4-Brom	nofluorobenzene	1.2		1.000		116	66.6	132			
Sample ID	1705C39-002AMS	Samp	Type: MS	3	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	Jic 150 #1 Land Fa	ar Batc	h ID: B4	3026	R	unNo: 4	3026				
Prep Date:		Analysis [Date: 5/	24/2017	S	SeqNo: 1	354512	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.74	0.018	0.7128	0	103	61.5	138			
Toluene		0.75	0.036	0.7128	0	106	71.4	127			
Ethylbenzene		0.88	0.036	0.7128	0	124	70.9	132			
Xylenes, Total		2.4	0.071	2.138	0	110	76.2	123			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н 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
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 7

WO#: 26-May-17

Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Williams F	ield Servic	es						
Troject.	510 150 111	L'una i unin							
Sample ID	1705C39-002AMS	SampTyp	e: MS	Tes	Code: E	PA Method	8021B: Volat	iles	
Client ID:	Jic 150 #1 Land Far	Batch ID	: B43026	R	unNo: 4	3026			
Prep Date:	ŀ	Analysis Date	e: 5/24/2017	S	g				
Analyte		Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Surr: 4-Bron	nofluorobenzene	<mark>1.</mark> 1	0.7128		148	66.6	132		
Sample ID	1705C39-002AMSD	SampTyp	e: MSD	Test	Code: E	PA Method	8021B: Volat	iles	
Client ID:	Jic 150 #1 Land Far	Batch ID	: B43026	R	unNo: 4	3026			
Prep Date:	F	Analysis Date	e: 5/24/2017	S	eqNo: 1	354513	Units: mg/K	g	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.73	0.018	0.7128	0	102	61.5	138	1.36	20		
Toluene	0.74	0.036	0.7128	0	104	71.4	127	1.50	20		
Ethylbenzene	0.88	0.036	0.7128	0	123	70.9	132	0.868	20		
Xylenes, Total	2.3	0.071	2.138	0	108	76.2	123	1.34	20		
Surr: 4-Bromofluorobenzene	1.1		0.7128		147	66.6	132	0	0	S	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1705C39

> Qual S

Page 7 of 7

26-May-17

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuc TEL: 505-345-3975 I Website: www.hall	Inalysi 4901 querqu FAX: 5 lenviro	s Laborato Hawkins e, NM 871 05-345-41 nmental.co	NE 09 Sam 07 07	ple Log-In C	Check List
Client Name: WILLIAMS FIELD SERVI	Work Order Number:	1705	C39		RcptNo	: 1
Received By: Anne Thorne 5/2	24/2017 7:15:00 AM			anne Hann	_	
Completed By: Andy Jansson 5/2	24/2017 8:41:41 AM			who		
Reviewed By:	24117					
Chain of Custody						
1. Custody seals intact on sample bottles?		Yes		No 🗆	Not Present 🗹	
2. Is Chain of Custody complete?		Yes	\checkmark	No 🗌	Not Present	
3. How was the sample delivered?		Cour	ier			
Log In				_	_	
4. Was an attempt made to cool the samples?		Yes	\checkmark	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 p	reserved?	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 🗹	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗌	bottles checked for pH: (<2	or >12 unless note
13. Are matrices correctly identified on Chain of Cu	stody?	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		and the last on a second second			-
By Whom:	Via:	eMa	iil 🗌 Pl	none 🗌 Fax	In Person	
Regarding:			internation and a state of the			
Client Instructions:	-(-)-(-)-(-)			NEW COMPANY OF COMPANY OF COMPANY	anna a tha ann an an ann an ann an ann ann ann a	
17. Additional remarks:						
18. <u>Cooler Information</u> Cooler No Temp °C Condition Seal I	ntact Seal No S	eal Da	ite	Signed By		
1 1.3 Good Yes						

. . . .

Client:	Chain-of-Custody Record			Turn-Around Time:						F	łA	LL	E	NV	/IF	20	N	ИE	NT	AL	
	WF.	S		Standard	Rush	5-25-17				A	N	AL	YS	SIS	S L	A	30	R/	TC	R	Y
Mailing Address: 188 CR 4900 Bloom Field Nm 87413 Phone #: 505-632-4208				Tic 150 #1 Land Farm			www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107														
email o	#. 00	2-1030 mitch-	marrisewillians.com	Project Mana	cer:			2	6					4)	Tieg	ues					
QA/QC Package: □ Standard □ Level 4 (Full Validation)				mitch	morris		's (8021)	(Gas on	RO / MR			(SIMS)		PO4,SO	2 PCB's						
Accred	itation AP	□ Othe	er	Sampler: Mo	Yes Kil	ふ~ □ No	+ FMB	Hd1 + 3	RO / DI	118.1)	504.1)	8270		O3,NO2	s / 8082		(A)				or N)
Date	Time	Matrix	Sample Request ID	Sample Tem Container Type and #	Preservative Type	HEAL NO. 1705C39	BTEX + MFBE	BTEX + MTBE	TPH 8015B (GI	TPH (Method 4	EDB (Method 5	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,N(8081 Pesticides	8260B (VOA)	8270 (Semi-VO	Chlande			Air Bubbles (Y
5/23/17	2:00	soil	Jic 150 # 1 3 AL	1-402	(00)	-001	X		×									X			T
51/17	205	5011	Tic 150 t 1 N-2 Land Farm N-2 (North)	1-422	Casl	_02	X		*									X			
Date:	Time: 735 Time:	Relinquish Mor Relinquish	ed by: WKillin ed by:	Received by:	lat _	Date Time 5/23/17 /735 Date Time	Rer	mark	S:												
5/23/17	1910	R	History	(An	ni X	05/24/17												an .			

-

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

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	\boxtimes	Final Report					
Name of Company Williams Four Corners LLC		Contact Michael Hannan								
Address 1755 Arroyo Dr., Bloomfield, NM 874	13	Telephone No. (505) 632-4807								
Facility Name Lateral S-67		Facility Type Pipeline								
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
М	26	29N	5W					Rio Arriba

Latitude 36.6914° N Longitude -107.3353° W NAD83

NATU.	RE OF RELEASE									
Type of Release Natural Gas	Volume of Release 12,127 MCF Volume Recovered None									
Source of Release Pipeline	Date and Hour of Occurrence Date and Hour of Discovery									
	10/06/2017 9:02 AM 10/07/2017 4:00 PM									
Was Immediate Notice Given?	If YES, To Whom?									
🛛 Yes 🗌 No 🗌 Not Requ	ired Vanessa Fields (OCD), Whitney Thomas (BLM)									
By Whom? Michael Hannan	Date and Hour 10/09/17 10:05 AM (OCD)									
	10/09/17 2:11 PM (BLM)									
	COND. 2011									
Was a Watercourse Reached?	If YES, Volume Impacting the Waterourse.									
🗌 Yes 🛛 No	UCIA									
If a Watercourse was Impacted, Describe Fully.*	V									
Describe Cause of Problem and Remedial Action Taken.*										
On October 7th 2017 at 1400 Williams FCA Gas Control received a call from third party reporting a release of natural gas on a Williams pipeline in area near our SJ 29-5 Unit 14G well location. Gas Control dispatched the on call personnel from the Twin Peaks Gathering District. Upon arrival from first op/tech the pipeline damage was identified and a work plan was established for isolation. After the isolation was complete, further investigation was performed to find that the pipeline damage was demonstrated from a large head of a complete release of the pipeline of the										
boulder struck the pipeline, it appears that it contacted a pipeline sea	m, opening a large hole in the pipeline.									
The nineline is not accessible due to it being about 15' off of canyon floor. So in order to estimate the release volume photographs were taken of the										
damage. The photos were provided to a Williams Sr. Designer, who location data was trended to determine the duration of the release and and estimated gas loss to be 12.127 MMCF. There was no evidence	used AutoCAD to estimate the area of the hole size (18.86 in2). The nearest well d operating pressures during the release. A Williams Engineer III received all data of the release of liquids from the pipeline.									
On October 9th 2017, Operations developed a work plan to repair the of pipeline failure, which would allow all but the single immediate u There is a single well location upstream of the pipeline damage, this	e pipeline. It was decided to cut and install a riser with isolation valve downstream pstream well to be brought back online. This was executed on October 9th 2017. well will remain shut in until it is decided on how to repair the pipeline.									
Describe Area Affected and Cleanup Action Taken.*										
There were no liquids associated with this release. No cleanup action	as 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									
orginature.	Approved by Environmental Specialists / dans / 1 - 1									
Printed Name: Michael Hannan	Approved by Environmental Specialist:									
#Nes1229637	.325									

Title: Engineer, Sr.		Approval Date: 10 23/17	Expiration D	Date:
E-mail Address: michael.hannan(williams.com	Conditions of Approval:		Attached
Date: 10/13/2017	Phone: (505) 632-4807	-	-	
Attach Additional Sheets If Ne	Cessary			

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

es Form C-141 Revised April 3, 2017 OIL CONSTIT 1 Copy to appropriate District Office in DEC 05 2000 dance with 19.15.29 NMAC.

Santa Fe, NM 87505

Release Notification and Corrective Action

	OPERATOR	\boxtimes	Initial Report	\boxtimes	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 31-6 CDP	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
N	1	30N	6W					Rio Arriba

Latitude 36.83592° N Longitude -107.42001° W NAD83

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 203.7 MCF	Volume Recovered None
Source of Release Glycol Recirculation Pump	Date and Hour of Occurrence 11/25/2017 5:00 PM	Date and Hour of Discovery 11/25/2017 7:00 PM
Was Immediate Notice Given?	If YES, To Whom?	
Yes No X Not Required		
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse.
🗌 Yes 🖾 No		
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
Vibration broke a nipple on a dehy glycol recirculation pump, causing the	e release of an estimated 203.67 MCF	The dehydrator was blocked in so that
no further gas would enter the equipment and leak from the pump. The p	ump was replaced and the unit returne	d to service.
Describe Area Affected and Cleanup Action Taken.*		
There were no liquids associated with this release. No cleanup actions ne	cessary.	
I hereby certify that the information given above is true and complete to the	he best of my knowledge and understar	nd that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release ne	otifications and perform corrective act	ions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report" d	loes not relieve the operator of liability
should their operations have failed to adequately investigate and remediate	e contamination that pose a threat to gr	cound water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of responsi	ibility for compliance with any other
iederal, state, or local laws and/or regulations.	OUL CONGERN	A TION DIVISION
	<u>OIL CONSERV</u>	ATION DIVISION
Signature: Michael Hannan		$() \land)$
	Annual by Environmental Specialize	
Printed Name: Michael Hannan	Approved by Environmental Specialis	har
	1011.015	
Title: Engineer, Sr.	Approval Date: De Con	Expiration Date:
E mail Address: michael hennen@williams.com	Conditions of Americal	
E-mail Address. michael.naiman@wimains.com	Conditions of Approval:	Attached
Date: 11/28/2017 Phone: (505) 632-4807		
Attach Additional Sheets If Necessary		6.0
reader readershar brooks in recessary	NN+1 (340420	363
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

OIL CONS. DIV DIST. 3 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

DEC 12 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

API No.

Release Notification and Corrective Action

	OPERATOR	\boxtimes	Initial Report	\boxtimes	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 Sims Mesa	Facility Type Compressor Station				

Surface Owner Bureau of Land Management Mineral Owner

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County			
А	22	30N	7W					Rio Arriba			

Latitude 36.805198° N Longitude -107.549568° W NAD83

Type of Release Natural Gas	Volume of Release 379.9 MCF	Volume Recovered None
Source of Release Pressure Relief Valve	Date and Hour of Occurrence	Date and Hour of Discovery
	11/20/2017 04:15 AM	11/20/2017 07:00 AM
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 🔲 No 🖾 Not Required		
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	tercourse.
🗌 Yes 🖾 No		
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
	high annual the DDV to 110 Th	in a line to be the sect of the DDV
A compressor pressure release valve (PRV) had a partial cooler freeze w	hich caused the PRV to lift. The press	sure relieved, but the seat of the PRV
was damaged and could not re-seal allowing gas to continue to escape. A	and the PRV was rebuilt and placed	s was released over 4 nours. The
compressor was blocked in and blown down, the FKV sear was replaced,	, and the FKV was rebuilt and placed	back into service.
Describe Area Affected and Cleanup Action Taken.*		
There were no liquids associated with this release. No cleanup actions new	cessary.	
I hereby certify that the information given above is true and complete to the	he best of my knowledge and understa	nd that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release no	otifications and perform corrective ac	tions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relieve the operator of hability
or the environment. In addition NMOCD acceptance of a C-141 report d	e containination that pose a tilleat to g	sibility for compliance with any other
federal state or local laws and/or regulations	bes not reneve the operator of respons	soundy for compliance with any other
icaciai, state, or iotal laws and or regulations.	OIL CONSERV	ATION DIVISION
7.1.1 1.11	<u>OIL CONSERV</u>	VATION DIVISION
Signature: Muchael Hannan		
	Approved by Environmental Speciali	st:
Printed Name: Michael Hannan		ance
	1210120	
Title: Engineer, Sr.	Approval Date: 21 400 1	Expiration Date:
E-mail Address: michael hannen@williams.com	Conditions of Approval:	
	Conditions of Approval.	Attached
Date: 11/28/2017 Phone: (505) 632-4807		
Attach Additional Sheets If Necessary	NUT 177 2251	107
	144-1120201	

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

Form C-141 2018 Revised August 8, 2011 5 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

		OPERATOR	\boxtimes	Initial Report	\boxtimes	Final Report
Name of Company: Williams Four Corners LL	C	Contact: Kijun Hong				
Address: 1755 Arroyo Dr., Farmington, NM 87	7413	Telephone No.: (505) 632-4475				
Facility Name: Jicarilla B-10		Facility Type: Meter				
Surface Owner: Jicarilla Tribe	Mineral Own	ner	B	LM Project No.		

Surface Owner: Jicarilla Tribe Mineral Owner

LUCATION OF M	LLEAS	Ľ
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Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
Α	36	26N	4W			· · · · · · · · · · · · · · · · · · ·		Rio Arriba

Latitude 36.4473 Longitude -107.1967

Type of Release: Natural Gas	Volume of Release: 176.0 MCF	Volume Recovered: 0 MCF
Source of Release: Broken meter tube	Date and Hour of Occurrence:	Date and Hour of Discovery:
	12/11/2017 at 8:00 AM	12/11/2017 at 8:00 AM
Was Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 🗌 No 🗌 Not Required	Vanessa Fields	
By Whom? Mitch Morris	Date and Hour: 12/12/2017@4:09P	M
	0	
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse.
🗌 Yes 🖾 No	NA	
If a Watercourse was Impacted, Describe Fully.*		
NA		
Describe Cause of Problem and Remedial Action Taken.*		
Meter tube failure due to freeze. Section was isolated and repaired.		
Describe Area Affected and Cleanup Action Taken *		
No signs of liquids impact. Only gas release		
to signs of inquites impact. Only gas release.		
I hereby certify that the information given above is true and complete to t	the best of my knowledge and understa	nd that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release r	notifications and perform corrective act	tions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the	ne NMOCD marked as "Final Report" of	does not relieve the operator of liability
should their operations have failed to adequately investigate and remediat	te contamination that pose a threat to g	round water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of respons	ability for compliance with any other
rederal, state, or local laws and/or regulations.	OIL CONCERN	
NM	OIL CONSERV	ATION DIVISION
Ko to	American I Santalia	4
Signature:	Approved by Environmental specialis	
Printed Name: Kijun Hong	la	zi
	In Decidence	
Litle: Environmental Specialist	Approval Date:	Expiration Date:
E-mail Address: kijun hong@williams.com	Conditions of Approval:	
D-man / waress. Aljun.nong a wimams.com		
	Conditions of Approval.	Attached
Date: 12/28/2017 Phone: (505) 632-4475	Conditions of Approval.	Attached
Date: 12/28/2017 Phone: (505) 632-4475 Attach Additional Sheets If Necessary		Attached

State of New Mexico **Energy Minerals and Natural Resources**

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

Release Notification and Corrective Action

Form C-141 Revised August 8, 2011

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

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: SJ 29-5 #4 Facility Type: Meter 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 29N 5W **Rio Arriba** L 6 Latitude 36.75207 Longitude -107.40458 NATURE OF RELEASE Type of Release: Natural Gas and Condensate Volume of Release: 111.6 MCF Volume Recovered: 0 MCF 40 gal Condensate 0 gal Source of Release: Broken meter tube Date and Hour of Occurrence: Date and Hour of Discovery: 12/11/2017 at 2:00 PM 12/11/2017 at 2:00 PM Was Immediate Notice Given? If YES, To Whom? Yes No Not Required **Cory Smith** By Whom? Kijun Hong Date and Hour: 12/11/2017 @ 6:31PM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. 🗌 Yes 🛛 No NA OIL CONS. DIV DIST. 3 If a Watercourse was Impacted, Describe Fully.* NA Describe Cause of Problem and Remedial Action Taken.* Meter tube failure due to freeze. Section was isolated and repaired. Describe Area Affected and Cleanup Action Taken.* 35ftx50ft area impacted by spray. Cleanup 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. OIL CONSERVATION DIVISION Approved by Environmental Specialist Signature: Printed Name: Kijun Hong Expiration Date: Approval Date: **Title: Environmental Specialist** Conditions of Approval: SAmple E-mail Address: kijun.hong@williams.com Attached 🕅 505) 632-4475 For TRIL, Bick, Benzene # NXS 180165 2190 Phone: (505) 632-4475 Date: 12/28/2017 * Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on $\frac{1/2}{14}$ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number $\frac{165290}{165290}$ 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 <u>division-approved corrective action</u> 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; C₆ thru C₃₆), 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; C₆ thru C₃₆), 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

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	\boxtimes	Initial Report	\boxtimes	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: Jicarilla 117E-2B	Facility Type: Meter				

Surface Owner: Jicarilla Tribe

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	
B	33	26N	3W					Rio Arriba	

Latitude 36.448582 Longitude -107.146706

Type of Release: Natural Gas	Volume of Release: 86.2 MCF	Volume Recovered: 0 MCF
Source of Release: Broken meter tube, due to freeze	Date and Hour of Occurrence:	Date and Hour of Discovery:
	1/24/2018 at 12:15 PM	1/24/2018 at 12:15 PM
Was Immediate Nation Cineral	ISVES To Whom?	Gas loss calculated on 2/6/2018
was immediate Notice Given?	IT YES, TO WHOM?	그는 그 방송을 많이야 한다.
By Whom? NA	Date and Hour: NA	
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse.
🗌 Yes 🛛 No	NA	
If a Watercourse was Impacted Describe Fully *		
NA		
Describe Cause of Problem and Remedial Action Taken.*		
Meter tube failure due to freeze. Section was isolated and repaired.		
Describe Area Affected and Cleanup Action Taken.*		
No signs of liquids impact. Only gas release.		
I hereby certify that the information given above is true and complete to the	he best of my knowledge and understa	nd that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release no	otifications and perform corrective act	tions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report" of	does not relieve the operator of liability
should their operations have failed to adequately investigate and remediate	e contamination that pose a threat to g	round water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report de	bes not relieve the operator of respons	ibility for compliance with any other
rederar, state, or local laws and/or regulations.	OIL CONSERV	ATION DIVISION
11-12	<u>OIL CONSERV</u>	ATION DIVISION
to to	Approved by Environmental Specialis	t.
Signature:	Approved by Environmental Specialis	
		S -
Printed Name: Kijun Hong	Car	
Title: Environmental Securialist	7122 1220	Fuir d'a Data
Title: Environmental Specialist	Approval Date: CCOCOS	Expiration Date:
E-mail Address: kijun hong@williams.com	Conditions of Approval:	
D mun radiess. Rijunnong winninsteon	contactions of Approval.	Attached
Date: 2/13/2018 Phone: (505) 632-4475	Chater Submit	lach
Attach Additional Sheets If Necessary	2/2 4.6/2 Z1201/2	and
	OIL CONS ON D	IST 3
	VIL VUILO. UT D	NVE1905938757
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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

i	OPERATOR	Initial Report	\boxtimes	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: SJ 29-5 #4	Facility Type: Meter			

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	6	29N	5W					Rio Arriba	

Latitude 36.75207 Longitude -107.40458

Type of Release: Natural Gas and Condensate	Volume of Release: 111.6 MCF	Volume Recovered: 0 MCF							
	40 gal Condensate	0 gal							
Source of Release: Broken meter tube	Date and Hour of Occurrence:	Date and Hour of Discovery:							
	12/11/2017 at 2:00 PM	12/11/2017 at 2:00 PM							
Was Immediate Notice Given?	If YES, To Whom?								
🛛 Yes 📋 No 📋 Not Required	Cory Smith								
By Whom? Kijun Hong	Date and Hour: 12/11/2017 @ 6:31PM								
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.							
🗌 Yes 🖾 No	NA								
If a Watercourse was Impacted, Describe Fully.*									
NA									
Describe Cause of Problem and Remedial Action Taken.*									
Meter tube failure due to freeze. Section was isolated and repaired.									
Describe Area Affected and Cleanup Action Taken.*									
30ftx10ft area impacted by spray. All surface impacts have been ren	noved and replaced with clean dirt.	. Please see confirmation sample report							
and sampling form for further detail.									
	1								
I hereby certify that the information given above is true and complete to the	e best of my knowledge and understa	and that pursuant to NMOCD rules and							
regulations all operators are required to report and/or file certain release no	NMOCD marked as "Eight Depart"	ctions for releases which may endanger							
public health of the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relieve the operator of liability							
should their operations have failed to adequately investigate and remediate	containination that pose a threat to g	sibility for compliance with any other							
federal state or local laws and/or regulations	bes not reneve the operator of respons	sionity for compliance with any other							
	OIL CONSERV	VATION DIVISION							
1. Ch	OIL CONSER	VATION DIVISION							
10 10	Approved by Environmental Speciali	st [·]							
Signature:	ipproved by Environmental special	Marce /							
		CALA							
Printed Name: Kijun Hong	1								
Title: Environmental Specialist	Approval Date: 2/27/18	Expiration Date:							
E-mail Address: kijun hong@williams.com	Conditions of Approval:								
	conditions of Approval.	Attached							
Date: 2/13/2018 Phone: (505) 632-4475									
Attach Additional Sheets If Necessary		DIST. 3							
HING 80165 2190		niv Dist.							
The	OIL CONS	18							
	UIL	2019							
	FEL								
		(\mathcal{D})							

	Remec	liation Excavation an	d Sampling Form	
Site Name	5.J. 29	3-5 4		
Excavation Di	mensions (feet)			
3	گ Length	10	Width	Depth
Excavation Dia (Depict notable sit	agram and Sam te features, excavati	ple Locations on extents, visual observat	ions, sample locations, 1	north arrow, etc.)
		x		
	*	meter		
		X	5	
Exem	19710n Al	îeh	x sample	points
Sample Inform	ation			
OCD Witness Sa Agency(s) Repr	ampling Yes or esentative(s)	Cory w/ c	ILD GAVE UP,	bel ok to sample
Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
S.J. 29-5-4 -	20mp. 1-10-18	LOMP.	Floor	
		•		

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

January 24, 2018

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

RE: SJ2954

OrderNo.: 1801693

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/12/2018 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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical	Report
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Lab Order 1801693

Date Reported: 1/24/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services Project: S J 29 5 4

1801693-001

Lab ID:

Client Sample ID: SJ 29-5-4-COMP Collection Date: 1/10/2018 12:00:00 PM Received Date: 1/12/2018 8:05:00 AM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	30	mg/Kg	20	1/22/2018 7:40:03 PM	36137
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	11	9.4	mg/Kg	1	1/16/2018 10:49:06 PM	36031
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/16/2018 10:49:06 PM	36031
Surr: DNOP	102	70-130	%Rec	1	1/16/2018 10:49:06 PM	36031
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/16/2018 10:17:55 PM	36020
Surr: BFB	106	15-316	%Rec	1	1/16/2018 10:17:55 PM	36020
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	1/16/2018 10:17:55 PM	36020
Benzene	ND	0.024	mg/Kg	1	1/16/2018 10:17:55 PM	36020
Toluene	ND	0.049	mg/Kg	1	1/16/2018 10:17:55 PM	36020
Ethylbenzene	ND	0.049	mg/Kg	1	1/16/2018 10:17:55 PM	36020
Xylenes, Total	ND	0.098	mg/Kg	1	1/16/2018 10:17:55 PM	36020
Surr: 4-Bromofluorobenzene	91.6	80-120	%Rec	1	1/16/2018 10:17:55 PM	36020

Matrix: SOIL

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.		Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 5
	ND	Not Detected at the Reporting Limit	Р	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: S J 29 5 4

Sample ID MB-36137	SampType: m	PA Method	300.0: Anion	s					
Client ID: PBS	Batch ID: 36137 RunNo: 48603								
Prep Date: 1/22/2018	Analysis Date: 1	/22/2018	5	564123	Units: mg/M	g			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND 1.5								
Sample ID LCS-36137	SampType: Ic	s	Tes	tCode: El	PA Method	300.0: Anion	s		
Sample ID LCS-36137 Client ID: LCSS	SampType: Ic Batch ID: 3	s 6137	Tes	tCode: El	PA Method 8603	300.0: Anion	S		
Sample ID LCS-36137 Client ID: LCSS Prep Date: 1/22/2018	SampType: Ic Batch ID: 30 Analysis Date: 1	s 6137 /22/2018	Tes F S	tCode: ER RunNo: 4 SeqNo: 1	PA Method 8603 564124	300.0: Anion Units: mg/K	s		
Sample ID LCS-36137 Client ID: LCSS Prep Date: 1/22/2018 Analyte	SampType: Ic Batch ID: 3 Analysis Date: 1 Result PQL	s 5137 /22/2018 SPK value	Tes F S SPK Ref Val	tCode: ER RunNo: 44 SeqNo: 14 %REC	PA Method 8603 564124 LowLimit	300.0: Anion Units: mg/K HighLimit	s íg %RPD	RPDLimit	Qual

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

Page 2 of 5

WO#: **1801693**

24-Jan-18

Hall Environmental Analysis Laboratory, Inc.

Client: Williams Field Services Project: S J 29 5 4

Sample ID LCS-36031	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 36031	RunNo: 48463								
Prep Date: 1/15/2018	Analysis Date: 1/16/2018	SeqNo: 1559069	Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	43 10 50.00	0 85.7 70	130							
Surr: DNOP	4.6 5.000	92.2 70	130							
Sample ID MB-36031 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: PBS	Batch ID: 36031 RunNo: 48463									
Prep Date: 1/15/2018	Analysis Date: 1/16/2018	SeqNo: 1559070	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	10 10.00	101 70	130							
Sample ID MB-36084	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 36084	RunNo: 48529								
Prep Date: 1/17/2018	Analysis Date: 1/18/2018	SeqNo: 1560963	Units: %Rec							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Surr: DNOP	10 10.00	105 70	130							
Sample ID LCS-36084	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 36084	RunNo: 48529								
Prep Date: 1/17/2018	Analysis Date: 1/18/2018	SeqNo: 1561380	Units: %Rec							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Surr: DNOP	5.0 5.000	101 70	130							

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

1801693

WO#:

Page 3 of 5

24-Jan-18

Hall Environmental Analysis Laboratory, Inc.

Client: Williams Field Services **Project:** SJ 2954

Sample ID MB-36020	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 36020	RunNo: 48490								
Prep Date: 1/15/2018	Analysis Date: 1/16/2018	SeqNo: 1558517 Units: mg/Kg								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								
Gasoline Range Organics (GRO)	ND 5.0	ja								
Surr: BFB	910 1000	90.8 15 316								
Sample ID LCS-36020	ple ID LCS-36020 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch ID: 36020	RunNo: 48490								
Prep Date: 1/15/2018	Analysis Date: 1/16/2018	SeqNo: 1558518 Units: mg/Kg								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								
Gasoline Range Organics (GRO)	24 5.0 25.00	0 96.3 75.9 131								
Surr: BFB	1000 1000	101 15 316								
Sample ID MB-36033	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 36033	RunNo: 48490								
Prep Date: 1/15/2018	Analysis Date: 1/16/2018	SeqNo: 1558542 Units: %Rec								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								
Surr: BFB	870 1000	86.8 15 316								
Sample ID LCS-36033	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 36033	RunNo: 48490								
Prep Date: 1/15/2018	Analysis Date: 1/16/2018	Seqino: 1558543 Units: %Rec								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								
Surr: BFB	940 1000	94.2 15 316								

Qualifiers:

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

1801693

WO#:

Page 4 of 5

24-Jan-18

Hall Environmental Analysis Laboratory, Inc.

Williams Field Services **Client:**

Project: SJ 2954

Sample ID MB-36020	SampType: MBLK TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS	Batch ID: 36020	RunNo: 48490									
Prep Date: 1/15/2018	Analysis Date: 1/16/2018	SeqNo: 1558554	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	1.0 1.000	100 80	120								
Sample ID LCS-36020	SampType: LCS	Type: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batch ID: 36020	RunNo: 48490									
Prep Date: 1/15/2018	Analysis Date: 1/16/2018	SeqNo: 1558555	Units: mg/Kg								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual								
Methyl tert-butyl ether (MTBE)	0.93 0.10 1.000	0 92.9 70.1	121								
Benzene	1.0 0.025 1.000	0 102 77.3	128								
Toluene	1.0 0.050 1.000	0 101 79.2	125								
Ethylbenzene	0.99 0.050 1.000	0 99.2 80.7	127								
Xylenes, Total	3.0 0.10 3.000	0 101 81.6	129								
Surr: 4-Bromofluorobenzene	1.0 1.000	102 80	120								
Sample ID MB-36033	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles								
Client ID: PBS	Batch ID: 36033	RunNo: 48490									
Prep Date: 1/15/2018	Analysis Date: 1/16/2018	SeqNo: 1558579	Units: %Rec								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual								
Surr: 4-Bromofluorobenzene	0.96 1.000	96.4 80	120								
Sample ID LCS-36033	SampType: LCS	TestCode: EPA Method	8021B: Volatiles								
Client ID: LCSS	Batch ID: 36033	RunNo: 48490									
Prep Date: 1/15/2018	Analysis Date: 1/16/2018	SeqNo: 1558580	Units: %Rec								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual								
Surr: 4-Bromofluorobenzene	0.98 1.000	97.8 80	120								

Qualifiers:

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

24-Jan-18

WO#:

Page 5 of 5

1801693

HALL Environmental Analysis Laboratory	Hall Environmental A Albu TEL: 505-345-3975 i Website: www.hal	Analys 490) querqu FAX: :	is Laborator Hawkins N ue, NM 8710 505-345-410 onmental.com	ample Log-In Check List						
Client Name: WILLIAMS FIELD SERVI	Work Order Number:	1801	693			RcptNo:	1			
Received By: Isaiah Ortiz Completed By: Sophia Campuzano Reviewed By: DDS	1/12/2018 8:05:00 AM 1/12/2018 11:44:05 AM したしての			I G	ing-					
 <u>Chain of Custody</u> 1. Is Chain of Custody complete? 2. How was the sample delivered? 		Yes <u>Couri</u>	⊘ ier	No		Not Present				
Log In 3. Was an attempt made to cool the samples?		Yes		No						
4. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes		No						
5. Sample(s) in proper container(s)?		Yes		No						
6. Sufficient sample volume for indicated test(s)	?	Yes		No [
7. Are samples (except VOA and ONG) properly	preserved?	Yes		No [
8. Was preservative added to bottles?		Yes		No		NA 🗆				
9. VOA vials have zero headspace?		Yes		No [No VOA Vials 🗹				
10. Were any sample containers received broker	1?	Yes		No						
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No (for pH:	>12 unless noted)			
12. Are matrices correctly Identified on Chain of C	Custody?	Yes		No		Adjusted?	:			
13. Is it clear what analyses were requested?		Yes		No						
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No		Checked by:				
Special Handling (if applicable)										
15. Was client notified of all discrepancies with the	his order?	Yes		No		NA 🗹				
Person Notified: By Whom: Regarding:	Date:] eMa	ail 🗌 Pho	ne 📋	Fax [In Person				
16. Additional remarks:										
17. <u>Cooler Information</u> Cooler No Temp °C Condition Se 1 0.3 Good Yes	al Intact Seal No Se	eal Da	ate S	igned B	y					

Client:	Chain-of-Custody Record Turn-Around Time: Client: Williams Fizzo Standard Rush Project Name: SJ. 25-5 #4							IAL IAL	. El YS	NV 519	VIR 5 L ment	AE al.co	N 30	RA	TO	AL	,			
BloomField NEW MEXICO Phone #: 55-1032-4475 87413			NEW MEXICO NEW MEXICO 175 87413	Project #: 1112017437336				490 Tel	1 Ha . 505	wkins -345-3	NE -	Alb F	ax Fax	erque 505-	e, NI 345-	M 87 4107	'109 7			
email or QA/QC F	Fax#: Package: dard	21jun - 1	Level 4 (Full Validation)	Project Mana	nger: Hong		's (8021)	(Gas only)	RO / MRO)		SIMS)		PO4,SO4)	2 PCB's	uest					
Accreditation I NELAP Other		Sampler: /	M. Stake		+ TMB	+ TPH	RO / DI	04.1)	8270		03, NO2	s / 808;		(V)				Or N)		
Date	(Type) _	Matrix	Sample Request ID	Sample Tem Container Type and #	Preservative Type	-0.9 (CF) 03 HEAL NO	3TEX + MTBE	3TEX + MTBE	TPH 8015B (G	EDB (Method 5	AH's (8310 or	RCRA 8 Metals	Anions (F,CI,N	081 Pesticide	(XOA) 8093	3270 (Semi-VC	CALOriDA			Vir Bubbles (Y
1-16-18	(2:00	sail	5529-5-4-10mp	402	1KR	-001	+		×				1				7		+	4
Date: 11/15 Date: 1/11/15	Time: 1551 necessary	Relinquish Relinquish	ed by: ind by: where Walts mitted to Hall Environmental may be subc	Received by: Received by: I Official Contracted to other a	Counier 	Date Time <u>Julis Time</u> Date Time <u>Julis 0805</u> a. 1.8 0805 as. This serves as notice of the	Ren	bility. A	ry sub-	contract	əd dətə	wil be	e clear	ly nota	ited on	the ar	nalytica	I report.		

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