

**3R-1014**

**Release Report/ General  
Correspondence**

**Williams RA**

**Date: Jul-Sep 2015**

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

SEP 14 2015

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

## OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Williams Four Corners LLC	Contact: Kelsey Christiansen
Address: 188 CR 4900, Bloomfield, NM 87413	Telephone No.: (505) 632-4606
Facility Name: Jicarilla B6E Inlet Pipeline	Facility Type: Pipeline
Surface Owner: Jicarilla Apache Nation	Mineral Owner
API No.	

## LOCATION OF RELEASE

Unit Letter C	Section 22	Township 26N	Range 5W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude 36.47596° N Longitude -107.35086° W

## NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 692 MCF Natural Gas	Volume Recovered: 0 MCF Natural gas
Source of Release: Pinhole	Date and Hour of Occurrence: Estimated 08/18/15	Date and Hour of Discovery: 09/01/15 at 10:00 AM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jonathan Kelly, NMOCD Bryce Hammond, Jicarilla Oil and Gas	
By Whom? Kelsey Christiansen	Date and Hour: ASAP on 09/09/15 at 04:00 PM MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Not Applicable

Describe Cause of Problem and Remedial Action Taken.\*


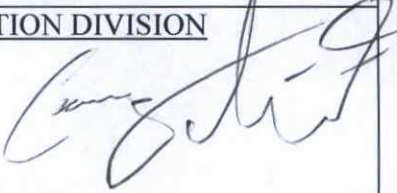
On September 1, 2015 Williams personnel discovered a suspected pinhole leak on the Jicarilla B6E Pipeline which caused the release of natural gas. Once repairs and excavation was complete the gas loss was calculated to be approximately 692 MCF natural gas. Confirmation soil samples were collected to insure cleanup standards are met and the results are attached.

Describe Area Affected and Cleanup Action Taken.\*

Remediation activities will take place in direct coordination with the Jicarilla Apache Tribe.

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

Signature: 	Approved by Environmental Specialist: 	
Printed Name: Kelsey Christiansen		
Title: Environmental Specialist	Approval Date: <u>10/21/15</u>	Expiration Date:
E-mail Address: kelsey.christiansen@williams.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 09/10/15 Phone: (505) 632-4606		

\* Attach Additional Sheets If Necessary

#NCS 1529449029

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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](http://www.hallenvironmental.com)

September 09, 2015

Kelsey Christiansen  
Williams Field Services  
188 Co. Rd 4900  
Bloomfield, NM 87413  
TEL: (505) 632-4442  
FAX

RE: Jic B #1 Line Leak

OrderNo.: 1509131

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/3/2015 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1509131

Date Reported: 9/9/2015

**CLIENT:** Williams Field Services**Client Sample ID:** Jic B #1 bottom Compositte**Project:** Jic B #1 Line Leak**Collection Date:** 9/2/2015 1:40:00 PM**Lab ID:** 1509131-001**Matrix:** SOIL**Received Date:** 9/3/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	9/8/2015	21151
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	30		mg/Kg	20	9/8/2015 6:39:37 PM	21182
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/4/2015 4:07:48 PM	21127
Surr: BFB	108	70-130		%REC	1	9/4/2015 4:07:48 PM	21127
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/4/2015 3:05:16 PM	21121
Surr: DNOP	105	57.9-140		%REC	1	9/4/2015 3:05:16 PM	21121
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: DJF
Benzene	0.050	0.049		mg/Kg	1	9/4/2015 4:07:48 PM	21127
Toluene	0.11	0.049		mg/Kg	1	9/4/2015 4:07:48 PM	21127
Ethylbenzene	ND	0.049		mg/Kg	1	9/4/2015 4:07:48 PM	21127
Xylenes, Total	0.12	0.097		mg/Kg	1	9/4/2015 4:07:48 PM	21127
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	9/4/2015 4:07:48 PM	21127
Surr: 4-Bromofluorobenzene	96.4	70-130		%REC	1	9/4/2015 4:07:48 PM	21127
Surr: Dibromofluoromethane	112	70-130		%REC	1	9/4/2015 4:07:48 PM	21127
Surr: Toluene-d8	96.4	70-130		%REC	1	9/4/2015 4:07:48 PM	21127

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 1 of 8
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S % Recovery outside of range due to dilution or matrix		



**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1509131

Date Reported: 9/9/2015

**CLIENT:** Williams Field Services**Client Sample ID:** Jic B #1 Sidewall Compsite**Project:** Jic B #1 Line Leak**Collection Date:** 9/2/2015 1:50:00 PM**Lab ID:** 1509131-002**Matrix:** SOIL**Received Date:** 9/3/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	9/8/2015	21151
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	30		mg/Kg	20	9/8/2015 6:52:02 PM	21182
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: DJF
Gasoline Range Organics (GRO)	9.4	4.9		mg/Kg	1	9/4/2015 5:30:04 PM	21127
Surr: BFB	104	70-130		%REC	1	9/4/2015 5:30:04 PM	21127
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/4/2015 3:32:30 PM	21121
Surr: DNOP	106	57.9-140		%REC	1	9/4/2015 3:32:30 PM	21121
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: DJF
Benzene	ND	0.049		mg/Kg	1	9/4/2015 5:30:04 PM	21127
Toluene	ND	0.049		mg/Kg	1	9/4/2015 5:30:04 PM	21127
Ethylbenzene	ND	0.049		mg/Kg	1	9/4/2015 5:30:04 PM	21127
Xylenes, Total	0.11	0.098		mg/Kg	1	9/4/2015 5:30:04 PM	21127
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%REC	1	9/4/2015 5:30:04 PM	21127
Surr: 4-Bromofluorobenzene	89.7	70-130		%REC	1	9/4/2015 5:30:04 PM	21127
Surr: Dibromofluoromethane	108	70-130		%REC	1	9/4/2015 5:30:04 PM	21127
Surr: Toluene-d8	93.6	70-130		%REC	1	9/4/2015 5:30:04 PM	21127

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509131

09-Sep-15

Client: Williams Field Services

Project: Jic B #1 Line Leak

Sample ID	MB-21182	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	21182	RunNo:	28712					
Prep Date:	9/8/2015	Analysis Date:	9/8/2015	SeqNo:	870259	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21182	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	21182	RunNo:	28712					
Prep Date:	9/8/2015	Analysis Date:	9/8/2015	SeqNo:	870260	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- 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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509131

09-Sep-15

Client: Williams Field Services

Project: Jic B #1 Line Leak

Sample ID	MB-21151	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	21151	RunNo:	28697					
Prep Date:	9/4/2015	Analysis Date:	9/8/2015	SeqNo:	869534	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID	LCS-21151		SampType: LCS		TestCode: EPA Method 418.1: TPH					
Client ID:	LCSS		Batch ID: 21151		RunNo: 28697					
Prep Date:	9/4/2015		Analysis Date: 9/8/2015		SeqNo: 869535		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	110	83.6	116			

Sample ID	LCSD-21151	SampType: LCSD			TestCode: EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID: 21151			RunNo: 28697					
Prep Date:	9/4/2015	Analysis Date: 9/8/2015			SeqNo: 869536		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	113	83.6	116	2.49	20	

## 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509131

09-Sep-15

Client: Williams Field Services

Project: Jic B #1 Line Leak

Sample ID	MB-21121	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21121	RunNo:	28657					
Prep Date:	9/3/2015	Analysis Date:	9/4/2015	SeqNo:	868052	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		105	57.9	140			

Sample ID	LCS-21121		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	21121		RunNo:	28657				
Prep Date:	9/3/2015		Analysis Date:	9/4/2015		SeqNo:	868053		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	42	10	50.00	0	84.9	57.4	139				
Surr: DNOP	5.0		5.000		99.7	57.9	140				

Sample ID	MB-21123	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	21123		RunNo:	28658				
Prep Date:	9/3/2015	Analysis Date:	9/4/2015		SeqNo:	868356		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		99.5	57.9	140			

Sample ID	LCS-21123		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	21123		RunNo:	28658				
Prep Date:	9/3/2015		Analysis Date:	9/4/2015		SeqNo:	868359		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	5.1		5.000		102	57.9	140				

## 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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509131

09-Sep-15

Client: Williams Field Services

Project: Jic B #1 Line Leak

Sample ID	mb-21127		SampType:	MBLK		TestCode:	EPA Method 8260B: Volatiles Short List				
Client ID:	PBS		Batch ID:	21127		RunNo:	28679				
Prep Date:	9/3/2015		Analysis Date:	9/4/2015		SeqNo:	868766		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130				
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.9	70	130				
Surr: Dibromofluoromethane	0.60		0.5000		121	70	130				
Surr: Toluene-d8	0.49		0.5000		98.3	70	130				

Sample ID	lcs-21127		SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS		Batch ID: 21127		RunNo: 28679					
Prep Date:	9/3/2015		Analysis Date: 9/4/2015		SeqNo: 868768		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	111	70	130			
Toluene	0.98	0.050	1.000	0	98.4	70	130			
Ethylbenzene	1.0	0.050	1.000	0	100	70	130			
Xylenes, Total	3.0	0.10	3.000	0	99.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.8	70	130			
Surr: Dibromofluoromethane	0.60		0.5000		119	70	130			
Surr: Toluene-d8	0.48		0.5000		95.7	70	130			

Sample ID	1509131-002ams		SampType: MS		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	Jic B #1 Sidewall C		Batch ID: 21127		RunNo: 28679					
Prep Date:	9/3/2015		Analysis Date: 9/4/2015		SeqNo: 869015		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9843	0	114	70	130			
Toluene	1.0	0.049	0.9843	0	106	70	130			
Ethylbenzene	1.1	0.049	0.9843	0	111	70	130			
Xylenes, Total	3.3	0.098	2.953	0.1085	110	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.4921		96.3	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.4921		91.8	70	130			
Surr: Dibromofluoromethane	0.56		0.4921		115	70	130			
Surr: Toluene-d8	0.45		0.4921		91.6	70	130			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
| S % Recovery outside of range due to dilution or matrix |   |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509131

09-Sep-15

Client: Williams Field Services

Project: Jic B #1 Line Leak

Sample ID	1509131-002amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	Jic B #1 Sidewall C	Batch ID:	21127	RunNo:	28679					
Prep Date:	9/3/2015	Analysis Date:	9/4/2015	SeqNo:	869032	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9756	0	114	70	130	1.19	20	
Toluene	1.1	0.049	0.9756	0	111	70	130	4.33	20	
Ethylbenzene	1.1	0.049	0.9756	0	114	70	130	1.73	0	
Xylenes, Total	3.5	0.098	2.927	0.1085	115	70	130	3.62	0	
Surr: 1,2-Dichloroethane-d4	0.52		0.4878		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.41		0.4878		84.9	70	130	0	0	
Surr: Dibromofluoromethane	0.55		0.4878		113	70	130	0	0	
Surr: Toluene-d8	0.48		0.4878		98.0	70	130	0	0	

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
| S % Recovery outside of range due to dilution or matrix |   |



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509131

09-Sep-15

Client: Williams Field Services

Project: Jic B #1 Line Leak

Sample ID	mb-21127	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	21127	RunNo:	28679					
Prep Date:	9/3/2015	Analysis Date:	9/4/2015	SeqNo:	869145	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	570		500.0		115	70	130			

Sample ID	lcs-21127	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	21127	RunNo:	28679					
Prep Date:	9/3/2015	Analysis Date:	9/4/2015	SeqNo:	869146	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	5.0	25.00	0	71.6	70	123			
Surr: BFB	500		500.0		99.7	70	130			

Sample ID	1509131-001ams	SampType:	MS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	Jic B #1 bottom Co	Batch ID:	21127	RunNo:	28679					
Prep Date:	9/3/2015	Analysis Date:	9/4/2015	SeqNo:	869148	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.44	1.712	76.0	54.9	131			
Surr: BFB	520		488.8		106	70	130			

Sample ID	1509131-001amsd	SampType:	MSD	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	Jic B #1 bottom Co	Batch ID:	21127	RunNo:	28679					
Prep Date:	9/3/2015	Analysis Date:	9/4/2015	SeqNo:	869149	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.70	1.712	76.3	54.9	131	1.37	20	
Surr: BFB	540		494.1		109	70	130	0	0	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit



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

## Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI

Work Order Number: 1509131

RcptNo: 1

Received by/date: CM 09/03/15

Logged By: Anne Thorne 9/3/2015 7:00:00 AM

Completed By: Anne Thorne 9/3/2015

Reviewed By: [Signature]

09/03/15

[Signature]

[Signature]

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

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

17. Additional remarks:

### 18. Cooler Information

Cooler No.	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	2.3	Good	Yes			



Chain-of-Custody Record		Turn-Around Time:
Client: <u>WFS</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Mailing Address: <u>188 CR 4900</u>		Project Name: <u>JIC B#1 LinchcoK</u>
<u>Bloomfield NM 87413</u>		Project #: <u></u>
Phone #: <u>505-215-7433</u>		Project Manager: <u>Kelsey Christiansen</u>
email or Fax#: <u>Kelsey.Christiansen@williams</u>		
QA/QC Package: <u>2</u>		
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation) <u>1</u>		
Accreditation <input type="checkbox"/> NELAP <input type="checkbox"/> Other <u></u>		Sampler <u>Morgan Killian</u>
<input type="checkbox"/> EDD (Type) <u></u>		On Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Sample Temperature <u>3.3</u> <u>Dec-23</u>

☒ Standard      ☐ Rush

JIC B#1 Line Log K

Project #:

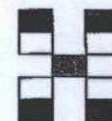
**Project Manager:**

Kelsey christiansen

Sampler: *Morgan Killion*

On Ice: ☒ Yes ☐ No

Sample Temperature: 3, 2-100 = 2.3



[www.hallenvironmental.com](http://www.hallenvironmental.com)


4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
2/15	5:30	Mary Killion	Mary Killion	2/15	1730

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/2/15	1804	Christie Weller		09/03/15	0700

Remarks:

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