

AE Order Number Banner

Report Description

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



App Number: pJK1424834050

3RP - 1013

Williams Four Corners, LLC

1/19/2017

3R-1013

Release Report/ General Correspondence

Williams SJ

Date: Jan-Mar 2017

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.

BLM Project No.

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company: Williams Four Corners LLC	Contact: Kijun Hong		
Address: 1755 Arroyo Dr., Farmington, NM 87413	Telephone No.: (505) 632-4475		
Facility Name: Angel Peak 1H-20	Facility Type: Pipeline		

Surface Owner: Bureau of Land Management Mineral Owner

LOCATION OF PELEASE

LOCATION OF RELEASE								
Unit Letter K	Section 01	Township 27N	Range 10W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan

Latitude 36.60168 Longitude -107.84013

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 199.34 MCF	Volume Recovered: 0 MCF
Source of Release: Pipeline	Date and Hour of Occurrence:	Date and Hour of Discovery:
	01/08/17 at 3:00 PM MST	01/11/17 at 6:00 AM MST
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 🗌 No 🔀 Not Required	Not Applicable	
By Whom? Not Applicable	Date and Hour: Not Applicable	
Was a Watercourse Reached?	If YES, Volume Impacting the Water Not Applicable	TONS: DIV DIST. 3
If a Watercourse was Impacted, Describe Fully.* Not Applicable		JAN 2 3 2017
Describe Cause of Problem and Remedial Action Taken.* Williams's personnel discovered a gas leak from a frozen meter run.	The section was immediately isolated	and shut-in.
Describe Area Affected and Cleanup Action Taken.* The meter run has been repaired. There was no soil impacts as the fai	iled equipment was located above gro	ound and there was no liquids loss.
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report do federal, state, or local laws and/or regulations.	otifications and perform corrective actions NMOCD marked as "Final Report" do e contamination that pose a threat to group	ons for releases which may endanger bes not relieve the operator of liability bund water, surface water, human health
Signature:	OIL CONSERVA	ATION DIVISION
Printed Name: Kijun Hong	Car	-und
Title: Environmental Specialist	Approval Date: 26 201 E	xpiration Date:
E-mail Address: kijun.hong@williams.com	Conditions of Approval:	Attached
Date: 01/19/2017 Phone: (505) 632-4475	NVF1702635103	

* Attach Additional Sheets If Necessary

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 Michael Hannan	•	
Address 1755 Arroyo Dr., Bloomfield, NM 87413	Telephone No. 505-632-4807		
Facility Name Hare Compressor Station	Facility Type Compressor Station		

Surface Owner William	s Mineral Owner

API No.

LOCATION OF RELEASE

Unit Letter F	Section 24	Township 29N	Range 10W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude <u>36.71406° N</u> Longitude <u>107.84118° W</u>

NATURE OF RELEASE

Source of Release Compressor Engine Date and Hour of Ocurrence 08/30/16, 10:00 PM MDT Date and Hour of Discovery 08/30/16, 10:00 PM MDT Was Immediate Notice Given? If YES, To Whom? Vanessa Fields, NMOCD (voice mail) By Whom? Mitch Morris Date and Hour: 8/31/2016 2:44 PM MDT Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* If YES, Volume Impacting the Watercourse. Not Applicable OIL CONS. DIV DIST, 3 Describe Cause of Problem and Remedial Action Taken.* SEP 1 2 2016 A compressor rod broke and pushed the head cylinder off. SEP 1 2 2016 Describe Area Affected and Cleanup Action Taken.* SEP 1 2 2016 No clean-up required for natural gas releases vented to atmosphere. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operation shave failed to adequately investigate and remediate contamination that pose as threat to ground water, surface water, human health or the environment. The acceptance of a C-141 report does not relieve the operator of insbility should their operations have failed to adequately investigate and remediate contamination	Type of Release Natural Gas	Volume of Release 1,467 MCF	Volume Recovered 0 MCF
Was Immediate Notice Given? If YES, To Whom? Was a Marcourse Reached? If YES, To Whom? Was a Watercourse Reached? Date and Hour: &/31/2016 2:44 PM MDT If a Watercourse Reached? If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* Not Applicable Describe Cause of Problem and Remedial Action Taken.* OIL CONS. DIV DIST. 3 Describe Cause of Problem and Remedial Action Taken.* SEP 1 2 2016 Describe Area Affected and Cleanup Action Taken.* No clean-up required for natural gas releases vented to atmosphere. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. The acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Signature: Printed Name: Michael Hannan Approval Date: 3 Approval Date: 3 Approval Date: 3 Approval: Attached Lattached Lattached Lattached Lattached	Source of Release Compressor Engine	Date and Hour of Occurrence	Date and Hour of Discovery
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Printed Name: Michael Hannan Approval Date: 38,203 Expiration Date: Title: Engineer, Sr. Approval Date: 38,203 Expiration Date: E-mail Address: michael.hannan@williams.com Conditions of Approval: Attached			
E-mail Address: michael.hannan@williams.com Conditions of Approval: Attached	Printed Name: Michael Hannan	Approved by Environmental Specialis	the state
E-mail Address: michael.hannan@williams.com Conditions of Approval: Attached		214745	
Attached	litle: Engineer, Sr.	Approval Date: 0 00 1 1	Expiration Date:
Attached	E mail Addresses michael hannen@williams.com	Conditions of Approval	
NUC TO CONT	E-man Autress. michael.naman(@wimams.com		Attached
Date: 09/07/16 Phone: 505-632-4807 NVF 106 3 7004	Date: 00/07/16 Phone: 505 632 4807	NVF 170673782	L L

* Attach Additional Sheets If Necessary

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: Monica Sandoval Address: 1755 Arroyo Drive, Bloomfield, NM 87413 Telephone No.: (505) 632-4625 Facility Name: Trunk N Facility Type: Compressor Station API No.

Surface Owner: BLM Mineral Owner

LOCATION OF R	ELEASI	£
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Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	17	32N	7W					San Juan

Latitude <u>36.98303° N</u> Longitude <u>-107.58655° W</u>

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 100 bbls of	Volume Recovered: 100 bbls of produced
Source of Release: Storage Tank	produced water Date and Hour of Occurrence:	water Date and Hour of
Source of Release. Storage Talik	1/18/2017 hour unknown	Discovery: 1/19/2017
Was Immediate Notice Given?	If YES, To Whom?	7:30am
Yes No Not Required	Vanessa Fields, NMOCD	
	Voicemail	
By Whom? Monica Sandoval	Date and Hour: 1/19/2017 4:01 pm	
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse. N/A
🗌 Yes 🛛 No		OUL CONC DIVIDICT 2
If a Watercourse was Impacted, Describe Fully.*		OIL CONS. DIV DIST. 3
N/A		FEB 0 1 2017
Describe Cause of Problem and Remedial Action Taken.*		the other sectors and
Describe Cause of Problem and Remedial Action Taken."		
Pig stuck in line due to up and down stream operating conditions. The stud	k pig caused abnormal operating cond	litions which surged liquid into the tank.
The Tank was over-run and 100 barrels of produced water released into th		
lined containment area. Operations verified that the secondary lined contain		
board available.		
Describe Asso Affected and Oleanny Astice Talan *		
Describe Area Affected and Cleanup Action Taken.*		
Two truckloads equaling 100 barrels of produced water removed from the	be lined containment on 1/19/2017	
The ducines equiling for current of produced mater removed from t	te mied containment on 1772017.	
I hereby certify that the information given above is true and complete to the		
regulations all operators are required to report and/or file certain release no		
public health or the environment. The acceptance of a C-141 report by the	NMOCD marked as "Final Report" d	oes not relieve the operator of liability
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	OIL CONSERV	ATION DIVISION
Manicasandasa	OIL CONSERT	ATTOM DIVISION
Signature:	(
	Approved by Environmental Specialist	
Printed Name: Monica Sandoval		Jes a
	21.12.2	4 h
Title: Environmental Specialist	Approval Date: 31201 I	Expiration Date:
E-mail Address: monica.sandoval@williams.com	Conditions of Approval:	Attached
	0100,0001,00	Attached
Date: 1/26/2017 Phone: (505) 632-4625	~ 10CS1102655	277
Attach Additional Sheets If Necessary	nspectarea to en liner integ	5.00
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OIL CONS. DIV DIST. 3

FEB 13 2017

Form C-141 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

State of New Mexico Energy Minerals and Natural Resources

> 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	\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: Knauff 1	Facility Type: Pipeline				

Surface Owner: Bureau of Land Management	Mineral Owner	BLM Project No. NMNM035779
		or NMNM046429

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
С	31	28N	10W					San Juan

Latitude 36.6232 Longitude -107.9400

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 199.34 MCF	Volume Recovered: 0 MCF				
Source of Release: Pipeline	Date and Hour of Occurrence:	Date and Hour of Discovery:				
	01/28/17 at 9:30 AM MST	01/31/17 at 9:30 AM MST				
Was Immediate Notice Given?	If YES, To Whom?					
Yes 🗌 No 🗌 Not Required	Cory Smith					
By Whom? Kijun Hong	Date and Hour: 1/31/2017 @ 3:55 Pl	М				
Was a Watercourse Reached?	If YES, Volume Impacting the Water	rcourse.				
🗌 Yes 🖾 No	Not Applicable					
If a Watercourse was Impacted, Describe Fully.*						
Not Applicable						
Describe Cause of Problem and Remedial Action Taken.*						
Natural gas release due to meter freeze and split. The section was im	mediately isolated and shut-in upon d	liscovery.				
Describe Area Affected and Cleanup Action Taken.*						
The meter has been repaired. There were no soil impacts as the failed	equipment was located above ground	d and there was no liquids loss.				
I hereby certify that the information given above is true and complete to the	a hast of my knowledge and understan	d that automat to NMOCD rules and				
regulations all operators are required to report and/or file certain release n						
public health or the environment. The acceptance of a C-141 report by the	NMOCD marked as "Final Report" do	bes not relieve the operator of liability				
	ate contamination that pose a threat to ground water, surface water, human health					
	does not relieve the operator of responsibility for compliance with any other					
federal, state, or local laws and/or regulations.	r r					
21 10	OIL CONSERV	ATION DIVISION				
TO TO	Approved by Environmental Specialist:					
Signature:						
Printed Name: Kijun Hong						
Title: Environmental Specialist	21122					
Title: Environmental Specialist	Approval Date: 5 60 E	Expiration Date:				
E-mail Address: kijun.hong@williams.com	Conditions of Approval:					
<i>a b y</i>	10012101200	Attached				
Date: 02/09/2017 Phone: (505) 632-4475	1025170315112	5				

* Attach Additional Sheets If Necessary

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 8, 2011 Copy to appropriate District Office in

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 La Jara Compressor Station	Facility Type Compressor Statio	n			

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			
М	1	30N	9W					San Juan			

Latitude <u>36.81754° N</u> Longitude <u>107.49144° W</u>

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 103.78 MCF	Volume Reco	overed 0 MCF				
Source of Release Emergency Safety Device (ESD)	Date and Hour of Occurrence	Date and Hou	ur of Discovery				
	02/13/17, 10:24 AM MST	02/13/17, 10:	:24 AM MST				
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 Wate	ercourse.					
Yes X No							
If a Watercourse was Impacted, Describe Fully.*							
Not Applicable			DIV DICT 2				
		OIL CONS.	DIV DIST. 3				
Describe Cause of Problem and Remedial Action Taken.*		i.					
		FEB	2 2 2017				
La Jara – Faulty air dryer inlet actuators caused tripped ESD. The faulty a	actuators were replaced.						
Describe Area Affected and Cleanup Action Taken.*							
No clean-up required for natural gas releases vented to atmosphere.							
I hereby certify that the information given above is true and complete to t	he best of my knowledge and understa	nd that nursuan	at to NMOCD rules and				
regulations all operators are required to report and/or file certain release r	notifications and perform corrective act	ions for release	es 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 remedia	te contamination that pose a threat to gr	ound water, su	urface water, human health				
or the environment. In addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of responsi	ibility for comp	pliance with any other				
federal, state, or local laws and/or regulations.							
mu	OIL CONSERV	ATION DI	IVISION				
Signature:							
		1 1					
Printed Name: Michael Hannan Approved by Environmental Specialist:							
	21010 0						
Title: Engineer, Sr.	Approval Date: 33301	Expiration Date	e:				
E-mail Address: michael.hannan@williams.com	Conditions of Approval:		_				
			Attached				
Date: 02/13/17 Phone: 505-632-4807	NVF 170623493						

* Attach Additional Sheets If Necessary

OIL CONS. DIV DIST. 3

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

FEB 13 201/

Form C-141 Revised August 8, 2011

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

BLM Project No. NMNM041898

Attached

Release Notification and Corrective Action

	OPERATOR	\boxtimes	Initial Report	Final Report
Name of Company: Williams Four Corners LLC	Contact: Kijun Hong			
Address: 1755 Arroyo Dr., Farmington, NM 87413	Telephone No.: (505) 632-4475			
Facility Name: Reid B1-E	Facility Type: Pipeline			

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				
G	31	29N	10W					San Juan				

Latitude <u>36.68330</u> Longitude <u>-107.92170</u>

NATURE OF RELEASE Volume of Release: 277.81 MCF Type of Release: Natural Gas Volume Recovered: 0 MCF Date and Hour of Occurrence: Date and Hour of Discovery: Source of Release: Pipeline 01/23/17 at 10:00 AM MST 01/26/17 at 10:00 AM MST Was Immediate Notice Given? If YES, To Whom? Yes No X Not Required Not Applicable By Whom? Not Applicable Date and Hour: Not Applicable Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes X No Not Applicable If a Watercourse was Impacted, Describe Fully.* Not Applicable Describe Cause of Problem and Remedial Action Taken.* Failure in pipeline caused a release of natural gas. The section was immediately isolated and shut-in. Describe Area Affected and Cleanup Action Taken.* Pipeline has been repaired. There were no signs of soil impacts or liquids loss. 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 **Title: Environmental Specialist** Approval Date **Expiration Date:**

Conditions of Approval:

* Attach Additional Sheets If Necessary

Date: 02/9/2017

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

Phone: (505) 632-4475

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.

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 La Jara Compressor Station	Facility Type Compressor Statio	n			
Facility Name La Jara Compressor Station	Facility Type Compressor Statio	n		_	

Surface Owner Bureau of Land Management Mineral Owner

LOCATION	OF RELEASE	
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Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	1	30N	9W	1				San Juan

Latitude <u>36.81754° N</u> Longitude <u>107.49144° W</u>

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 103.78 MCF	Volume Recovered 0 MCF
Source of Release Emergency Safety Device (ESD)	Date and Hour of Occurrence	Date and Hour of Discovery
	02/11/17, 12:10 PM MST	02/11/17, 12:10 PM MST
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 Wate	ercourse.
🗌 Yes 🛛 No		
If a Watercourse was Impacted, Describe Fully.*		
Not Applicable		
Not Applicable		OIL CONS. DIV DIST. 3
Describe Cause of Problem and Remedial Action Taken.*		
La Jara – Faulty gas detection sensor in Building 1A tripped ESD. The fa	ulty sensor was replaced.	FEB 2 2 2017
Describe Area Affected and Cleanup Action Taken.*		
No clean-up required for natural gas releases vented to atmosphere.		
I hereby certify that the information given above is true and complete to t		
regulations all operators are required to report and/or file certain release r		
public health or the environment. The acceptance of a C-141 report by the		
should their operations have failed to adequately investigate and remediat or the environment. In addition, NMOCD acceptance of a C-141 report of		
federal, state, or local laws and/or regulations.	loes not reneve the operator of respons	ionity for compnance with any other
	OIL CONSERV	ATION DIVISION
Mu		
Signature:		
	Approved by Environmental Specialist	the is
Printed Name: Michael Hannan		Conessa 5
Title: Engineer, Sr.	Approval Date: 33/2017	Expiration Date:
The Digition, Or		
E-mail Address: michael.hannan@williams.com	Conditions of Approval:	Attrached D
	NUFITOLDO	Attached
Date: 02/13/17 Phone: 505-632-4807	NVF1706229989	

* Attach Additional Sheets If Necessary

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	X Initial Report	Final Repor
Name of Company: Williams Four Corners LLC	Contact: Monica Sandoval		
Address: 1755 Arroyo Drive, Bloomfield, NM 87413	Telephone No.: (505) 632-4625		
Facility Name: Trunk N	Facility Type: Compressor Station		

Surface Owner: BLM

Mineral Owner

API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	17	32N	7W					San Juan

Latitude <u>36.98303° N</u> Longitude <u>-107.58655° W</u>

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 24,400 mcf	Volume Recovered: 0
Source of Release: Station Discharge Header PSV	Date and Hour of Occurrence:	Date and Hour of Discovery:
	1/26/2017 2:30am	1/26/2017 5:30am
Was Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 🗌 No 🗌 Not Required		
	BLM Whitney Thomas, Voicemail	follow up conversation 1/27/2017
	@3:46pm	
By Whom? Monica Sandoval	Date and Hour: 1/26/2017 3:20pm	
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse. N/A
🗌 Yes 🖾 No		
If a Watercourse was Impacted, Describe Fully.*		
N/A		
Describe Cause of Problem and Remedial Action Taken.*		
Pilot line on the pilot operated PSV had liquid in it an due to cold temper	atures froze and caused an opening of t	he PSV at 375 lbs. Pressure never reached
the set point of 500 lbs. Gas loss 24.4 mmcf (24,400 mcf).		
Station was already shutdown due to cold weather.		OIL CONS DU
		DIV DIST 2
Describe Area Affected and Cleanup Action Taken.*		OIL CONS. DIV DIST. 3 FEB 2 2 2017
		FEB 22 2017
Pipeline blocked in to prevent further release. PSV replaced.		- 11
	he best of my knowledge and understa	
I hereby certify that the information given above is true and complete to t		nd that pursuant to NMOCD rules and
I hereby certify that the information given above is true and complete to t regulations all operators are required to report and/or file certain release r public health or the environment. The acceptance of a C-141 report by th	notifications and perform corrective act e NMOCD marked as "Final Report" d	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability
I hereby certify that the information given above is true and complete to tregulations all operators are required to report and/or file certain release r public health or the environment. The acceptance of a C-141 report by th should their operations have failed to adequately investigate and remediate	notifications and perform corrective act the NMOCD marked as "Final Report" of the contamination that pose a threat to g	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability round water, surface water, human health
I hereby certify that the information given above is true and complete to tregulations all operators are required to report and/or file certain release republic health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediation the environment. In addition, NMOCD acceptance of a C-141 report of the environment.	notifications and perform corrective act the NMOCD marked as "Final Report" of the contamination that pose a threat to g	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability round water, surface water, human health
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I hereby certify that the information given above is true and complete to tregulations all operators are required to report and/or file certain release republic health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediat or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective act the NMOCD marked as "Final Report" of the contamination that pose a threat to go loes not relieve the operator of response	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability round water, surface water, human health ibility for compliance with any other
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release of public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective act the NMOCD marked as "Final Report" of the contamination that pose a threat to go loes not relieve the operator of respons OIL CONSERV	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability round water, surface water, human health ibility for compliance with any other
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release in public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	Approved by Environmental Specialis	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability round water, surface water, human health ibility for compliance with any other
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release in public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	Approved by Environmental Specialis	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability round water, surface water, human health ibility for compliance with any other ATION DIVISION
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release in public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	Approved by Environmental Specialis	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability round water, surface water, human health ibility for compliance with any other
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release in public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	Approved by Environmental Specialis	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability round water, surface water, human health ibility for compliance with any other ATION DIVISION
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release of public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	Approval Date: 31990001	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability round water, surface water, human health ibility for compliance with any other ATION DIVISION

* Attach Additional Sheets If Necessary

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

Revised August 8, 2011

Form C-141

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: Monica Sandoval			
Address: 1755 Arroyo Drive, Bloomfield, NM 87413	Telephone No.: (505) 632-4625			
Facility Name: N 37 Line Leak	Facility Type: Pipeline			

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		
D	9	31N	6W					San Juan		

Latitude N36.9188 Longitude W-107.4772

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 549.6 mcf	Volume Recovered: 0
Source of Release: Pipeline leak	Date and Hour of Occurrence:	Date and Hour of Discovery:
	3/7/2017	3/7/2017
Was Immediate Notice Given?	If YES, To Whom?	
Yes No Not Required	3/8/2017 4:10 pm Voicemail left wi	ith Cory Smith
	3/8/2017 4:20pm spoke with Whitn	
By Whom? Monica Sandoval	Date and Hour:	
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse. N/A
Yes X No		
	UI	L CONS. DIV DIST. 3
If a Watercourse was Impacted, Describe Fully.*		0101.0
		MAD 9 9 CONT
N/A		MAR 2 3 2017
		Sandora in 🔹
Describe Cause of Problem and Remedial Action Taken.*		
On 3/7/2017 operations personnel discovered leak, stopped leak and bloc	ked in gas, until repairs could be made	e. Excavation and repairs on 3/8/2017. Gas
loss 549.6 mcf.		
Describe Area Affected and Cleanup Action Taken.*	· · · · · · · · · · · · · · · · · · ·	
Repairs on 3/8/2017. Sample on 3/9/2017 awaiting sample results.		
Repairs on 5/6/2017. Sample on 5/9/2017 awaiting sample results.		
I hereby certify that the information given above is true and complete to t	he best of my knowledge and understa	nd that nursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release n		
public health or the environment. The acceptance of a C-141 report by th		
should their operations have failed to adequately investigate and remediat		
or the environment. In addition, NMOCD acceptance of a C-141 report d		
federal, state, or local laws and/or regulations.	loes not relieve the operator of respons	ionity for compliance with any other
rederal, state, or local laws and/or regulations.	OU CONCERN	
	OIL CONSERV	ATION DIVISION
Mancasandaval		
Signature:	1	
	Approved by Environmental Specialis	
Printed Name: Monica Sandoval		h
	2.12	
Title: Environmental Specialist	Approval Date: 320807	Expiration Date:
	Approvar Date. Skappin	
E mail Address manice condevel@williams com	Conditions of Approval:	
E-mail Address: monica.sandoval@williams.com	Conditions of Approval:	Attached
	NVFIDD992798	
Date: 3/17/2017 Phone: (505) 632-4625		

* Attach Additional Sheets If Necessary

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.

Address: 1755 Arroyo Drive, Bloomfield, NN 87413 Telephone No: (505) 632-625 Facility Name: SJ 32-7 26M Line Leak Facility Type: Pipeline Surface Owner: BLM Mineral Owner API No. LOCATION OF RELEASE County San Juan Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County San Juan Latitude N3655.9606 Longtude W10731.8049 NATURE OF RELEASE Volume of Release: Volume Recovered: 0 Source of Release: Pipeline leak Date and Hour of Discovery: 21/2017 If YES, To Mhon? Date and Hour of Discovery: 21/2017 Was Immediate Notice Given? If Yes No Int Required Notife MMOCD Cory Smith, upon discovery 2/20/2017 Sect follow up email to Cory on 2/21/2017 By Whon? Monica Sandoval Date and Hour: If YES, To Mhon? Not Was a Waterourse Reached? Yes No If YES, Volume Impacting the Waterourse. N/A By Whon? Annica Sandoval Date and Hour: If YES, Volume Impacting the Waterourse. N/A Was a waterourse was Impacted, Describe Fully.* OIL CONS. DIV DIST. 3 N/A Describe Cause of Problem and Remedial Action Taken.* </th <th>220 S. St. Flancis</th> <th>DI., Santa</th> <th>re, INIM 07505</th> <th></th> <th>S</th> <th>anta Fe</th> <th>e, NM 875</th> <th>05</th> <th></th> <th></th> <th></th> <th></th> <th></th>	220 S. St. Flancis	DI., Santa	re, INIM 07505		S	anta Fe	e, NM 875	05						
Name of Company: Williams Four Corrers LLC Contact: Monica Sandoval Address: 1755 Aroyo Drive, Bloomfield, NM 87413 Telephone No: (505) 632-4625 Facility Name: SJ 32-7 26M Line Leak Facility Type: Pipeline Surface Owner: BLM Mineral Owner API No. LOCCATION OF RELEASE San Juan Unit Letter Section Township Range 35 32N Range Feet from the Feet from the East/West Line County 36 Township Range Feet from the East/West Line County San Juan Latitude N3655.9606 Longitude W10731.8049 NATURE OF RELEASE Volume Recovered: 0 113.2005mcf Source of Release: Natural Gas Volume of Release: Date and Hour of Occurrence: Date and Hour of Discovery: 21/2017 Was Immediate Notice Given? Yes Not Required Not Required Not Required Was a Watercourse Reached? Yes No Not Required Not Required Was a Watercourse was Impacted, Describe Fully.* OIL CONS, DIV DIST. 3 N/A MAR 0 6 2017 Describe Cause of Problem and Remedial Action Taken.* Pipeline leak discove				Rele	ease Notifi	catior	and Co	orrective A	ction					
Name of Company: Williams Four Corners LLC Contact: Monica Sandoval Address: 1752 ArroyD Drive, Bloomfield, NM 87413 Telephone No.: (505) 632-4625 Facility Name: SJ 32-7 26M Line Leak Facility Type: Pipeline Surface Owner: BLM Mineral Owner API No. LOCCATION OF RELEASE San Juan San Juan Unit Letter Section Township Range 7W Feet from the North/South Line Feet from the East/West Line County San Juan Latitude N3655.9606 Longitude W10731.8049 Nature OF RELEASE Volume Recovered: 0 Type of Release: Natural Gas Value Nor Gelease: Value Recovered: 0 113.2005mcf Date and Hour of Discovery: 2//2017 Source of Release: Pipeline leak Ury Sing To Whom? Not Required Not Required Not Required Was Immediate Notice Given? Yes 🖾 No If YES, To Whom? Not Required Not Required Was a Watercourse was Impacted, Describe Fully.* Not Required and Hour If YES, Yolume Impacting the Watercourse. N/A If a Watercourse was Impacted, Describe Fully.* NA MAR 0 6 2017 Describe Cause of Problem and Remedial Action Taken.* Pipeline leak discovered on 2/							OPERA7	ſOR	\boxtimes	Initi	al Report	Fina Fina	al Report	
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Operator/Responsible Party,

The OCD has received the form C-141 you provided on $\frac{3/6/17}{1600}$ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number $\frac{100629353}{100629353}$ 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 $\frac{4}{27}$. 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 7

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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

JI

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

1220 S. St. Franc	Santa Fe, NM 87505 Santa Fe, NM 87505											
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						OPERA			🗌 Initia	al Report	\boxtimes	Final Report
		Villiams Fou				Contact: Kij						
		o Dr., Farmi	ington, N	IM 87413			No.: (505) 632-4	475				
Facility Nan	ne: Reid	B1-E]	Facility Type	e: Pipeline					
Surface Own	ner: Bure	au of Land M	Manager	ment Mineral	Owner	r			BLM P	roject No. N	NMNN	4041898
				LOCA	IOITA	N OF REL	EASE					
Unit Letter G	Section 31	Township 29N	Range 10W	Feet from the		/South Line	Feet from the	East/V	West Line	County San Juan		
- Mar		-		Latitude <u>36</u>	68330	Longitud	e <u>-107.92170</u>					
				NAT	URE	OF RELE	EASE					
Type of Relea							Release: 277.81 N		Volume R	Recovered: 0	MCF	
Source of Rel	ease: Pipel	ine					lour of Occurrence t 10:00 AM MST			Hour of Disc at 10:00 AM		
Was Immedia	te Notice (If YES, To	Whom?					
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Describe Area Pipeline has I				ken.* gns of soil impact	s or liqu	uids loss.						
I hereby certif	fy that the i	nformation gi	ven above	e is true and compl	lete to th	ne best of my	knowledge and u	nderstar	nd that purs	suant to NMC	OCD ru	les and
regulations all public health should their o or the environ	l operators a or the envir operations ha ment. In a	are required to ronment. The ave failed to a	o report an acceptance adequately OCD accept	nd/or file certain re ce of a C-141 repo v investigate and re otance of a C-141 r	elease no ort by the emediate	otifications an e NMOCD ma e contaminatio	ad perform correct arked as "Final Re on that pose a thre e the operator of r	tive acti eport" d eat to gr responsi	tions for rele does not relia round water sibility for co	eases which r ieve the opera r, surface wat ompliance wi	may end ator of ter, hun vith any	danger liability nan health
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Printed Name	: Kijun Ho	ng					1		2	YE	5	
Title: Enviro					4	Approval Date	e:3114120	N	Expiration I	Date:	~	
E-mail Addre	ss: <mark>kijun.h</mark>	ong@william	s.com			Conditions of Approval: Attached						
Date: 03/1/20			one: (505)	632-4475	7	Nesi	703935	280	8			
Attach Addit	Attach Additional Sheets If Necessary											



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

February 24, 2017

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

RE: Reid B-1-E

OrderNo.: 1702833

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/18/2017 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued February 23, 2017.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1702833

Date Reported: 2/24/2017

Hall Environmental Analysis Laboratory, Inc.

*

 CLIENT:
 Williams Field Services
 Client Sample ID: Reid B-1-E Northside

 Project:
 Reid B-1-E
 Collection Date: 2/17/2017 11:50:00 AM

 Lab ID:
 1702833-001
 Matrix:
 SOIL
 Received Date: 2/18/2017 9:35:00 AM

 Analyses
 Result
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EPA METHOD 8015M/D: DIESEL RANG		6			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/22/2017 9:54:28 AM	30319
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/22/2017 9:54:28 AM	30319
Surr: DNOP	106	70-130	%Rec	1	2/22/2017 9:54:28 AM	30319
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/21/2017 4:38:36 PM	30297
Surr: BFB	77.5	54-150	%Rec	1	2/21/2017 4:38:36 PM	30297
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	2/21/2017 4:38:36 PM	30297
Toluene	ND	0.048	mg/Kg	1	2/21/2017 4:38:36 PM	30297
Ethylbenzene	ND	0.048	mg/Kg	1	2/21/2017 4:38:36 PM	30297
Xylenes, Total	ND	0.097	mg/Kg	1	2/21/2017 4:38:36 PM	30297
Surr: 4-Bromofluorobenzene	83.9	80-120	%Rec	1	2/21/2017 4:38:36 PM	30297

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
H 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

Analytical Report

Lab Order 1702833

Date Reported: 2/24/2017

Batch

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services Client Sample ID: Reid B-1-E Southside Collection Date: 2/17/2017 11:55:00 AM **Project:** Reid B-1-E 1702833-002 Lab ID: Matrix: SOIL Received Date: 2/18/2017 9:35:00 AM **DF** Date Analyzed Result **PQL Qual Units** Analyses

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EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	5			Analyst	том
Diesel Range Organics (DRO)	22	9.7	mg/Kg	1	2/22/2017 10:59:29 AM	30319
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/22/2017 10:59:29 AM	30319
Surr: DNOP	106	70-130	%Rec	1	2/22/2017 10:59:29 AM	30319
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/21/2017 8:08:14 PM	30297
Surr: BFB	85.5	54-150	%Rec	1	2/21/2017 8:08:14 PM	30297
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	2/21/2017 8:08:14 PM	30297
Toluene	ND	0.048	mg/Kg	1	2/21/2017 8:08:14 PM	30297
Ethylbenzene	ND	0.048	mg/Kg	1	2/21/2017 8:08:14 PM	30297
Xylenes, Total	ND	0.097	mg/Kg	1	2/21/2017 8:08:14 PM	30297
Surr: 4-Bromofluorobenzene	90.4	80-120	%Rec	1	2/21/2017 8:08:14 PM	30297

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Comple Diluted Due to Matrix

- 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
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1702833

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Reid B-1-E

Project:

Date Reported: 2/24/2017 Client Sample ID: Reid B-1-E Stockpile Collection Date: 2/17/2017 12:00:00 PM Received Date: 2/18/2017 9:35:00 AM

Lab ID: 1702833-003	Matrix:	SOIL	Received 1	Date: 2/1	18/2017 9:35:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	том
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/22/2017 11:21:07 AM	30319
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/22/2017 11:21:07 AM	30319
Surr: DNOP	105	70-130	%Rec	1	2/22/2017 11:21:07 AM	30319
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/21/2017 8:34:18 PM	30297
Surr: BFB	82.8	54-150	%Rec	1	2/21/2017 8:34:18 PM	30297
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	2/21/2017 8:34:18 PM	30297
Toluene	ND	0.047	mg/Kg	1	2/21/2017 8:34:18 PM	30297
Ethylbenzene	ND	0.047	mg/Kg	1	2/21/2017 8:34:18 PM	30297
Xylenes, Total	ND	0.093	mg/Kg	1	2/21/2017 8:34:18 PM	30297
Surr: 4-Bromofluorobenzene	92.4	80-120	%Rec	1	2/21/2017 8:34:18 PM	30297

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 3 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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1702833

24-Feb-17

Client: Project:	Williams Reid B-1-	Field Servic E	es								
Sample ID	1702833-001AMS	SampTyp	e: MS	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	Reid B-1-E Norths	id Batch II	D: 30	319	F	RunNo: 4	0900				
Prep Date:	2/21/2017	Analysis Date	e: 2/	22/2017	5	SeqNo: 1	281337	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	57	9.6	48.08	6.419	106	51.6	130			64 50 U
Surr: DNOP		5.0		4.808		104	70	130			
Sample ID	LCS-30319	SampTyp	e: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch II	D: 30	319	F	RunNo: 4	0900				
Prep Date:	2/21/2017	Analysis Date	e: 2/	22/2017	S	SeqNo: 1	281338	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	49	10	50.00	0	97.5	63.8	116			
Surr: DNOP		4.8		5.000		95.6	70	130			
Sample ID	MB-30319	SampTyp	e: Me	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch II): 30	319	R	unNo: 4	0900				
Prep Date:	2/21/2017	Analysis Date	e: 2/	22/2017	S	eqNo: 1	281339	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	ND	10								
	e Organics (MRO)	ND	50								
Surr: DNOP		10		10.00		104	70	130			
Sample ID	1702833-001AMSD	SampTyp	e: MS	SD	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	Reid B-1-E Norths	id Batch II): 30	319	R	unNo: 4	0900				
Prep Date:	2/21/2017	Analysis Date	e: 2/	22/2017	S	eqNo: 1	281340	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	49	9.5	47.66	6.419	90.3	51.6	130	14.5	20	
Surr: DNOP		4.9		4.766		103	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
- W Sample container temperature is out of limit as specified

Page 4 of 6

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Williams	Field Ser	vices								
Project:	Reid B-1-	-E									
Sample ID ME	B-30297	Samp	Гуре: МІ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PE	BS	Batc	h ID: 30	297	RunNo: 40879						
Prep Date: 2	/20/2017	Analysis [Date: 2/	/21/2017	5	SeqNo: 1	280787	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	ND	5.0								
Surr: BFB		700		1000		70.4	54	150			
Sample ID LC	S-30297	Samp	Type: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LC	ss	Batc	h ID: 30	297	F	RunNo: 4	0879				
Prep Date: 2	/20/2017	Analysis D	Date: 2/	21/2017	S	SeqNo: 1	280788	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	28	5.0	25.00	0	111	76.4	125			
Surr: BFB		990		1000		99.2	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

WO#: 1702833 24-Feb-17

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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Williams Field Services

Project: Reid	1 B-1-E									
Sample ID MB-30297	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 30	297	F	RunNo: 4	0879				
Prep Date: 2/20/2017	Analysis [Date: 2/	21/2017	S	SeqNo: 1	280834	Units: mg/K	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	0.77		1.000		76.6	80	120			S
Sample ID LCS-30297	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 30	297	R	unNo: 4	0879				
Prep Date: 2/20/2017	Analysis [Date: 2/	21/2017	S	eqNo: 1	280836	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.9	75.2	115			
Toluene	0.98	0.050	1.000	0	97.7	80.7	112			
Ethylbenzene	0.96	0.050	1.000	0	96.0	78.9	117			
Xylenes, Total	2.9	0.10	3.000	0	97.4	79.2	115			

75.8

80

120

Qualifiers:

Client:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D

Surr: 4-Bromofluorobenzene

- 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
- B 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

WO#: 1702833

24-Feb-17

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albua TEL: 505-345-3975 I Website: www.hal	4901 yueryu +AX: 3	Hawkins NE e, NM 87109 05-345-4107	Sam	ple Log-In C	heck List
Client Name: WILLIAMS FIELD SERVI	Work Order Number:	1702	333		RoptNo:	1
Received by/date: LM C	12/02/17				an a	a a su tha an ann an a
	2/18/2017 9:35:00 AM		a	stran		
Reviewed By:	02/20/17					
Chain of Custody						a consequences and an an an and and
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	of >0° C to 6.0°C	Yes		No 🗌	NA 🗌	
6. Sample(s) in proper container(s)?		Yes		No 🗌		
7. Sufficient sample volume for indicated test(s)	?	Yes		No 🕅		
8. Are samples (except VOA and ONG) properly	preserved?	Yes	×	No 🗌		
9. Was preservative added to bottles?		Yes		No 🗹	NA	
10. VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials 🗹	
11, Were any sample containers received broken	1?	Yes		No 🗹	# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗆	for pH:	r >12 unless noted)
13. Are matrices correctly identified on Chain of C	ustody?	Yes	\checkmark	No 🗌	Adjusted?	
14, Is it clear what analyses were requested?		Yes		No 🗌		
 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 th	is order?	Yes		No 🗌	NA 🗹	
Person Notified:	Date			and the second		
By Whom:	Via:	eMa	il Phon	e 🗍 Fax	In Person	
Regarding:						
Client Instructions: 17. Additional remarks:						
18. <u>Cooler Information</u> <u>Cooler No</u> <u>Temp °C</u> <u>Condition</u> <u>Sea</u> <u>1</u> 2.8 Good Yes	il Intact Seal No S	ieal Da	ite Sig	ned By		
	and the second				an a	

Page 1 o	of l
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. . . 6

C	Chain	-of-Cu	stody Record	Turn-Around	Time:]						-							
Client:	WFS			Standard	🗆 Rush															
		char an a		Project Name											ment			RP		
Mailing	Address	: 175	5 ARROYO DR	Deid	B-2-1	F		10	01 L								M 87	100		
RID	om Fir.	12 NA	y 87413	Project #:			-		el. 50								4107			
			4475-	1	Toda	ijun Hong uli7		16	-1. JU			and the second second			Req		Contraction of the owner			
			Howg Qwillions-com	Project Mana				(y)	ଚି											
	Package:		<u> </u>				021	s on	MH			ŝ		4.SC	B'S					
□ Star	ndard		Level 4 (Full Validation)	Kijun			-S (8)	(Ga	RO			SIMS)		PO	2 PC					
Accred			-		Killin		TMB's (8021)	TPH (Gas only)	0/1	F.	F.	8270		NO	808				al a second	Î
			۲	On Ice;	Pres perature: 21		+	+	GRC	418	504	or 8.	S	K03.	es /		(YO		for advertise at a	or
	O (Type)		l .	Sample Tent		8	- H	ATBI	5B ((poq	poul	310	Meta	CI.I	licid	(AO	V-in		Construction of the	es ()
Date	Time	Matrix	Sample Request ID	Container	Preservative	HEAL No.	+	V +)	801	(Mei	(Me	s (8:	A 8 I	IS (F	Pes	3 2	(Se			Iqqr
				Type and #	Туре	MOZ833	BTEX + M TBE	BTEX + MTBE +	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Attions (F.Cl.NO ₃ .NO ₂ .PO ₄ .SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
17/17	11:50	50:1	Reidborthsec	1-402	Cool	-001	X		X	-	-		<u>u</u> _	4	8	8	8			
11/17	11:55	18	Reid Bit-E south side	1-402	1	-002	X		X											ere de la décadora de la Condición II.
12/17		501	Reid Bitti-Le	1-402	+	-003	X		X											
701			T	1-100			1													
							1													
																		1		
			i in season an shi da dha an																	
Date	Time:	Reinquish	ed by:	Received by:	,]	Date Time		nark	s:											
1/17	1421	Mor	4 Fillon	Must	Walta	2/17/17 1/21														
Date:	Time:	Reinquish		Flece ved by:	A	Date Time														
411/17	1751	1 you	iste Waller		731	02/18/17 0935														

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 deally notated on the analytical report.

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

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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

Final Report

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

Release Notification and Corrective Action

OPERATOR Initial Report

Contact: Kijun Hong
Telephone No.: (505) 632-4475
Facility Type: Pipeline

Surface Owner: Bureau of Land Management 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
Μ	01	27N	10W					San Juan

Latitude <u>36.60421</u> Longitude <u>-107.85379</u>

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 7.4 MCF	Volume Recovered: 0 MCF
Source of Release: Pipeline	Date and Hour of Occurrence:	Date and Hour of Discovery:
	03/01/16 at 12:25 PM MST	03/01/16 at 12:25 PM MST
Was Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 🗌 No 🗌 Not Required	Cory Smith and Vanessa Fields, N	MOCD
	Katherina Diemer, BLM	
By Whom? Kelsey Christiansen		M MST
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	rcoursell, CONS. DIV DIST. 3
🗌 Yes 🖾 No	Not Applicable	DIV DIST. 3
If a Watercourse was Impacted, Describe Fully.*		JAN 23 2017
Not Applicable		0414 20 2017
Describe Cause of Problem and Remedial Action Taken.*		
Williams's personnel discovered a minor gas leak during a leak locati	ng survey on the Galt MN Pipeline, y	which runs across an unnamed wash. No
liquids were observed and the gas loss was calculated to be 7.4 MCF.		
Describe Area Affected and Cleanup Action Taken.*		
The leaking section of pipeline was repaired and the excavation was le	ft open for sampling. Before a confi	rmation sample could be collected,
heavy rains filled the excavation with rain water and soil. To confirm		
collected. These samples demonstrate that the soil impacts due to the		
Please see attached report for details.		
-		
I hereby certify that the information given above is true and complete to the		
regulations all operators are required to report and/or file certain release ne		
public health or the environment. The acceptance of a C-141 report by the		
should their operations have failed to adequately investigate and remediate		
or the environment. In addition, NMOCD acceptance of a C-141 report de	oes not relieve the operator of responsi	bility for compliance with any other
federal, state, or local laws and/or regulations.		
11 MA	OIL CONSERV	ATION DIVISION
		\square
	Approved by Environmental Specialist	
Signature:		\square
	lang V .	\sim
Printed Name: Kijun Hong	Can	
	$\int 2 \log 1$	
Title: Environmental Specialist	Approval Date: 324/17 I	Expiration Date:
E-mail Address: kijun.hong@williams.com	Conditions of Approval:	Attached
Date: 01/19/2017 Phone: (505) 632-4475		
Attach Additional Sheets If Necessary	25757	
HNJ+16082	20 15 5	



Y

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: Galt MN H-1 Subsurface Investigation Williams Four Corners LLC San Juan County, New Mexico

Dear Mr. Morris:

LT Environmental, Inc. (LTE), on behalf of Williams Four Corners LLC (Williams), conducted a subsurface investigation consisting of soil borings and soil sampling at the Galt MN H-1 (Site). The investigation was conducted at the request of the New Mexico Oil Conservation Division (NMOCD) to confirm that initial response actions by Williams removed all impacted soil and to investigate for the presence or absence of groundwater at or above the observed depth of soil impact.

Site Description and History

The Site is in the southwest quarter of the northwest quarter of Section 1, Township 27 North, and Range 10 West in San Juan County, New Mexico, approximately 0.7 miles east of Armenta Canyon as depicted on Figure 1. Armenta Canyon drains into the San Juan River approximately 6.5 miles to the north.

On March 2, 2016, Williams discovered a release from the Galt MN H-1 natural gas pipeline where it crosses a dry wash. Williams excavated impacted soil resulting in an excavation approximately 20 feet by 20 feet in extent and 13 feet deep. The excavation filled in with rain and soil during a heavy storm event before Williams could collect confirmation soil samples for laboratory analysis. To meet confirmation soil sampling requirements for approved site closure, the NMOCD requested Williams collect six soil samples (five from the excavation area and one downgradient) from 18 feet below ground surface (bgs) to determine if soil removal successfully remediated the soil and confirm groundwater had not been impacted.

Soil Sampling

LTE advanced a total of six soil borings on December 20, 2016, with a track-mounted Geoprobe[®] direct-push drilling rig operated by Earth Worx Environmental Services. A site map with soil boring locations in relation to the pipeline and former excavation is depicted on Figure 2. The total depths of the soil borings ranged between 7 feet and 20 feet bgs based on auger refusal.



1

Morris, M. January 6, 2017 Page 2

Continuous soil samples were logged by an LTE geologist and described 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 samples from the bottom of each borehole were collected in pre-cleaned glass jars, labeled with location, date, time, sampler and method of analysis and immediately placed on ice. The samples were 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 total petroleum hydrocarbons (TPH) using USEPA Method 8015 within the required holding times. Boreholes were 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 during advancement of the soil borings were predominantly composed of pale to dark brown medium to course grained sand with varying amounts of clay/silt from the ground surface to 20 feet bgs. The lithology increased in grain size and clay/silt content with depth as bedrock was encountered. The shallowest borehole (BH-4) was advanced 7 feet bgs before refusal and the deepest borehole (BH-1) to 20 feet bgs. LTE observed 7 feet to 20 feet of alluvial sediment overlying sandstone bedrock. Organic materials and orange iron oxide staining were observed in soil samples and indicate an aerobic environment. No visual staining, odors, or elevated field screening results indicative of hydrocarbon impact were observed in any of the six boreholes. Borehole logs are included as Attachment 1.

Laboratory analytical results for soil samples BH-1, BH-2, BH-3, BH-4, BH-5, and BH-6 indicated no concentrations of benzene, total BTEX, and TPH were detected. Laboratory analytical results are presented in Table 1, and the complete HEAL laboratory analytical report is included as Attachment 2.

Conclusions

Five boreholes (BH-1, BH-2, BH-3, BH-4, and BH-5) were advanced in the area of the original excavation and laboratory analytical results from soil samples collected in those boreholes confirmed soil impacted by the release was removed during the initial response excavation. Additionally, Borehole BH-6 was advanced downgradient of the original



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Morris, M. January 6, 2017 Page 3

excavation, and the laboratory results from a soil sample collected at 18 feet bgs indicated no impacted soil existed outside of the initial excavation. Groundwater was not encountered in any of the boreholes ranging from 7 feet bgs in BH-4 upgradient of the pipeline to 20 feet bgs in BH-1 immediately adjacent to the former release, and no petroleum hydrocarbon impacted soil was observed. Based on these results, Williams successfully addressed soil impacted by the former pipeline release and no groundwater was affected. LTE recommends Williams request no further action and approval by the NMOCD for closure of this Site.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Joh Adams

Josh Adams Staff Geologist

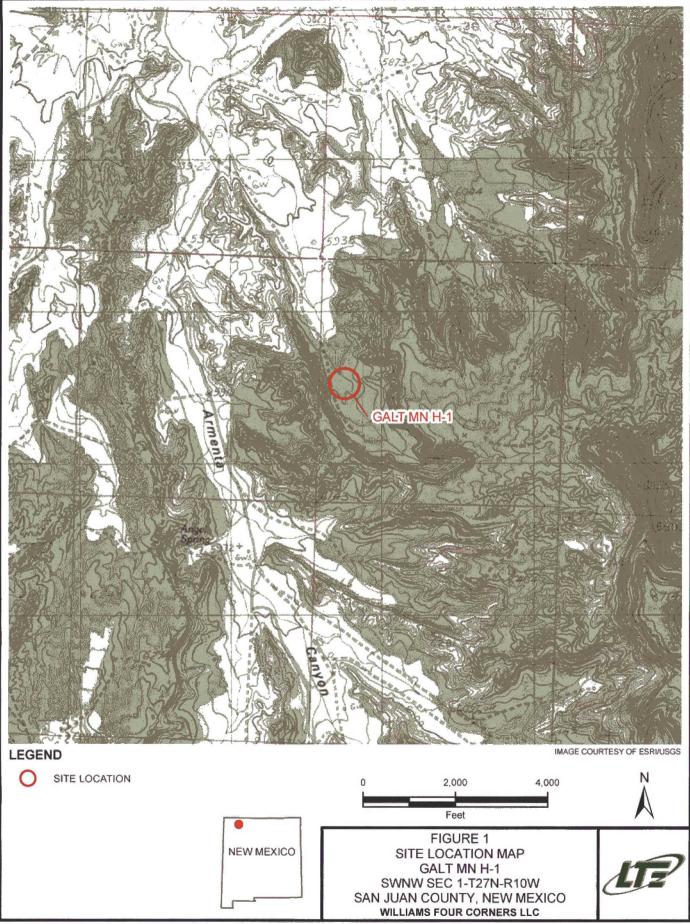
Brooke Herb Project Geologist

Attachments:

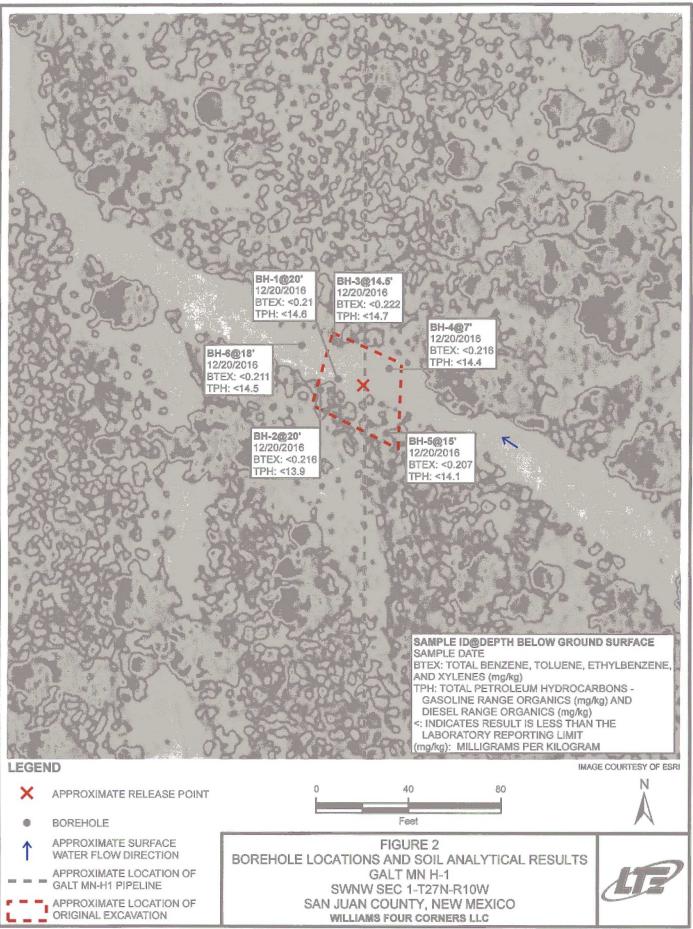
Figure 1 – Site Location Map Figure 2 – Borehole Locations and Soil Analytical Results Table 1 – Soil Analytical Results Attachment 1 – Borehole Logs Attachment 2 – Laboratory Analytical Report

FIGURES

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P:Williams Four Corners/GIS/MXD/034016012_GALT_MN_SOIL SAMPLING/034016012_FIG01_SL



P:Williams Four ComeraV3ISVMXDI034016012_GALT_MN_SOIL SAMPLING/034016012_FIG02_BH_SOIL_ANALYTICAL_122016.mxd

TABLE

TABLE 1 SOIL ANALYTICAL RESULTS

GALT MN H-1 SAN JUAN COUNTY, NEW MEXICO WILLIAMS FOUR CORNERS LLC

Soil Sample Identification	Sample Date	Depth (feet)	Vapor (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)
BH-1	12/20/2016	20	0.0	< 0.023	< 0.047	< 0.047	< 0.093	<0.210	<4.7	<9.9	<14.6
BH-2	12/20/2016	20	0.0	< 0.024	< 0.048	< 0.048	< 0.096	<0.216	<4.8	<9.1	<13.9
BH-3	12/20/2016	14.5	0.0	< 0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.8	<14.7
BH-4	12/20/2016	7	0.0	< 0.024	< 0.048	<0.048	< 0.096	<0.216	<4.8	<9.6	<14.4
BH-5	12/20/2016	15	0.0	< 0.023	< 0.046	< 0.046	< 0.092	<0.207	<4.6	<9.5	<14.1
BH-6	12/20/2016	18	0.0	< 0.023	< 0.047	< 0.047	<0.094	<0.211	<4.7	<9.8	<14.5
NMOCD Closu	are Criteria			10	NE	NE	NE	50	NE	NE	100

NOTES:

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

BTEX - benzene, toluene, ethylbenzene, 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

NE - Not Established

NMOCD - New Mexico Oil Conservation Division

ppm - parts per million

TPH- total petroleum hydrocarbons (GRO + DRO)



ATTACHMENT 1 BOREHOLE LOGS

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Î. ₽							Û	Compliance "Engineering "Remediation LT Environmental, Inc. 4600 W. 60th Avenue Arvada, Colorado 80003				
Elevation Gravel Pa	6015		Detector: PID					BORIN Boring/We Date: Logged By: Drilling Me Seal:	I Number BH - 1 12/20/2016 Josh Adams	ELL COMPLETION DIAGRAM Project: GALF GTAT MN H-1 Project Number: Q34016012 Drilled By: Louis Trujillo/Larhwary Sampling Method: Continuous / Soil Liner Grout:		
Casing Ty	NA							Diameter:	NA Length: NA NA	NA Hole Diameter: 2-inch	Depth to Liquid:	
Screen Ty	NA	1	Slot: NA					Diameter:	Length: Na NA	Total Depth:	Depth to Water:	
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Re	marks	Well Completion	
					0			SW	(no recovery) Ight brown and, Vry It	I silt, well school		
	M	8	NO		-4 		4	215% Coarse	10 YR 5/6 yellowish	<u> </u>		
			r.		5 _ 6 _ 7 _ 8	4-8	8		No recovery, Sand in upsh texcavation to soft, not competent enough to stick in- sleeve. We tried another- 4' hole to see if more leaver			
					9 10 11	812		could be achieved, but failed same resulf. Uncompacted soil due to excavation being filled by sediment during storm ever NO HC identified on Sloeve or in scampte above or below				
	M	Ø	NÒ		12 13 14 15	 2-16		SW-5C	lghtbriun snd, little well sorted, well, W/clay	silt INN	- - - -	

									Boring/Well # BH - 1		
Compliance " Engineering " Remediation									Project:	Galt MN	
LT Environmental, Inc.								Project #	. 034016012 12/20/2016		
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Date Litho	Well Completion	
					15		3.5		Ctd. from pravious in HA.		
		Ø			16	-			Ctd. From pr	-	
	M	ø	NO		17	-	Ю.	SU 2158 course	light brewn sound w/day well gredel : mirdium grained 10YR 17/3		-
	M	Ø	NO	BH-1 1005	19	16-20			SAA (same as above)		-
					21			\$			-
					²² 23					-	
					24					-	
					25					-	-
					26					. +	-
					27 28					-	
					29					-	
			3		30					+	
					31					+	
					32					+	
					33 <u>-</u> 34 <u>-</u>					+	
					35					+	
					36					-	
					37					· +	

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								Compliance " Engineering " Remediation LT Environmental, Inc. 4600 W. 60th Avenue Arvada, Colorado 80003					
		938						BORING LOG/MONITORING WELL COMPLETION DIAG					
				A. C. S.			15 178		BH-2	Project Number:	I H-1		
	The .			Constant of	A True			Date:	12/20/2016	. ()34016	012		
			1.2316		S. T. Alam	Coogle Google	Fartt	Logged By	Josh Adams	Drilled By: Louis Ti	ujillo/Earthworx		
Elevation	6015		Detector:	F	J.D			Drilling Me	ethod: Geoprobe	Sampling Method: Continuous/Soil L	iner		
Gravel					1			Seal:	NA	Grout: NA			
Casing								Diameter:	Length: NA NA	Hole Diameter: 2-inch	Depth to Liquid:		
Screen								Diameter:	Length: Na NA	Total Depth: 201	Depth to Water:		
Penetration		Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery		Lithology/Rei		Well Completion		
					0	Ľ							
					1				NIZ	-			
	M	E.	ND		3 _	04		SW 4156 (cross	lightbrewn sand w 10YR 5/6	chy (RHO)			
	-				5 _				NR	-	-		
	M	Ø	NO		7 _	4-8		sur.	SAA w/oran Stringers	ge oxide			
					9		1		NR		-		
	M	Ø	NO		10 11 12	8-12		sw	light brown sand w/a Sorted, well nound Oxide stringers, black	dy (5%) vell ad, Orange - Corganics	-		
	-				13 14				NR	-	-		
	_				15				see next	rage .			

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							-					
	-								Boring/We	Conceptual Name	BH-Z	
1	F	Compl	iance "	Engine	ering "	Remedia	atio	n	Project:	the second se	Galt MN 34016012	
0	1	LIEN	vironn	iental,	inc.				Project # Date		12/20/2016	
50									Date		12/20/2010	
Penetration Resistance	Moisture Content	5 🔒	Staining	Sample #	Depth	Sample	Recovery	Soil/Rock Type				Well
letr	ont	Vapor (ppm)	tain	du	(ft. bgs.)		ŝ	Typ		Litho	ology/Remarks	Completion
Per Re	ΣO	-0	S1	Sa	(Re	°S.	-			
					15		Ind					
	M	Ø	1100			12-16		SW	Verypole	brown	sand, 10% silt	-1
-	/	2	NO		16			-	10	YR 7	1/3	-
					17	ſ				4	10	4
					- ''					N	JIK	+
					18							†
				B#1,2		11.00		1			1.00	I
	M	Ø	NÒ	1030	19	6.20		SM	SAA	but	w/15%silt	I I
	/	0	100	ica)				~~			·	1
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					- +	.						+
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						1	ľ					+
					26			N				1
					I							T I
					27	4						+
					28							+
					20 +	1 1						+ 11
					29							†
			4		T	1						T II
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					36							+
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						I	-					

	le l								Compliance « Engineering « Remediation LT Environmental, Inc. 4600 W. 60th Avenue Arvada, Colorado 80003					
		R		Titt				BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
									Il Number: BH -4	Galt_MM	y H-1			
					A D at			Date:	12/20/2016	Project Number: 714	5012			
			3. 3. C	a > f	n an	Gdogle Gdogle	Fard	Logged By:	Josh Adams	Drilled By: Louis T	rujillo			
Elevation	6015	.`	Detector:	P.	‡D			Drilling Me	thod: Geoprobe	Sampling Method: Soil 1	liner			
Gravel Pa	ick: NA				•			Seal:	NA	Grout: NA				
Casing Ty	nsing Type: NA							Diameter:	Length: NA NA	Hole Diameter: 2-inch	Depth to Liquid:			
Screen Ty	creen Type: Slot: NA NA							Diameter:	Length: Na NA	Total Depth: 7	Depth to Water:			
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/F	Remarks	Well Completion			
					0	Į	100							
	-				۱ _ 2				NR					
	M	Ø	ND			0-4		SP-54	light brown sand some aganics, 10	W Ares (10%) >YR 3/6				
	M	Ø	NO		5	· *		5P.Y.	· SAA		+			
	M	ø	NO	BH-4 1105	6 _	4-8		5P-5(.	iOYR 7/3 organ	ics tooliche)- 			
					8 9 10 11	-			Refusal @ 7': holes, both @ 7'bgs compacts and/sa	tried two refused recou	r ₩y			
					12 13 14 15									

								6	Ľ	Compliance " E LT Environme 4600 W. 60th Arvada, Color	Avenue	nediation		
		R.				<u>, 805</u>		BC	BORING LOG/MONITORING WELL COMPLETION DIAGRAM Boring/Well Number: BH-3 Project: Logal - MN H-1 Project: Project: Project:					
				Les (P		No. 1. S. C.		Bori	ng/Wel	H-1				
				V. Fr	ASS.	No Star		Date	:	12/20/2016	Project Number: 1 ()34016	12		
				1 A	and the second	Coog e	E a di	Logg	ed By:	Josh Adams	Drilled By:	ujillo/Earthworx		
Elevation:	6015	5015 PID							ing Me		Sampling Method:			
Gravel Pac	Pack:							Seal:			Grout:			
Casing Ty								Diam	eter:	Length:	NA Hole Diameter:	Depth to Liquid:		
Screen Typ	Creen Type: Slot:							Diam		A NA Length:	2-inch Total Depth: 11151	NA Depth to Water:		
	NA		1	N	A		_	_	1	Na NA	Total Depth: 14.5'	NA		
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock	Type	Lithology/Rem	narks	Well Completion		
					0	4				an de la companya a substantia de la companya de la				
					۱ _ 		•••			NR	-	-		
······································	M	ø	NO		3 _	0-4		Śı	J.	light brown sound w/s sorted, some oner stringers. 10 YR5	14(5%) well. xx=0xide - 16	- - -		
	an.				5 _	-				NR	-	-		
	Μ	Ø	NO		78	4-8				SAA w/ black	organics	-		
					9					NR	-			
	M	ø	NO		11 <u> </u>	8.12		SU	ł	SAA verypalebicium sand caliche, 101R7/3 u	w/chw/(15%)			
	M	Ø	NO	D#-3 1045	13 14	12-145	F	S	M	SAA W/increa	sed fines (20%)	-		
					15					71 surdistone /se	mi-consplidated	and		
										Refusal @ 14.	5'			

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		1			J.			L	Compliance LT Environm 4600 W. 60th Arvada, Colo	Avenue	nediation		
		R.S.S.				COL ST		BORI	NG LOG/MONITORING W	and the second se	and the second se		
									boring/Well Number: BH-5 Project Galt MV H-1				
								Date:	12/20/2016	034016	0120		
			TX SKA			Coogle	Eant	Logged By:	Josh Adams	Drilled By: Louis Tr	ujillo Ea An wor		
Elevation:	6015		Detector:	P	ID		1.1	Drilling Me	thod: Geoprobe	Sampling Method, (DN hinkows/Soil L			
Gravel Pa					4			Seal:	NA	Grout: NA			
Casing Ty	pe:							Diameter:	Length:	Hole Diameter: 2-inch	Depth to Liquid:		
Screen Typ				Slot:				Diameter:	Length:	Total Depth: 15'	Depth to Water:		
5	NA	2	NA					1	Na NA				
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Ren	narks	Well Completion		
					0								
					1 -				NR				
	Μ	ø	NÔ		3 _	- O-4		SC.	Very pale brown clay 10 YR 7/3, calid thee root in sound	e, red/bour-			
					5_		1		NR	-			
	M	Ø	NO		7 _	4-8		SW-5C	lightbookin sandy sorted 10 YR 5,				
					9		•		NR	-	-		
	Μ	Ð	NO		11	8-12		Sw-SC	SAA		-		
					13				NR	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1	*		
Mentervene	M.	Ø	NO	BH-5 1120		12.15		SL	very pale brown some iOVR 7/3, calidre, 5 color change happen	Ly chy (20%). icmiplasticfine in 1st 2" of s	s		
					nonananana arta tarta	Anto Postariantente			Refusal @ 51, Se	mi-consolidate	xsana/		

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						E. K.			Ľ	LT Enviro 4600 W. 6	e " Engineering " Re nmental, Inc. 0th Avenue colorado 80003	mediation
			NS &		T. Cr.				BORIN	IG LOG/MONITORIN	and the second se	ON DIAGRAM
					Sector 1					Number:BH -6	Project: Galt M Project Number;	NH-I
						192	\$10	S.C.	Date:	12/20/2016	03401	
				L. S. R. R.	1. 1. M	. Town	Google	Fanth	Logged By:	Josh Adams	Drilled B	rujillo
	Elevation:	6015		Detector:	. P	ID			Drilling Me	lhod: Geoprobe	Sampling Method: Soil L	iner
	Gravel Pac	NA				1			the second se	A	Grout: NA	
1	Casing Typ	NA							No. of Concession, name	Length: NA NA	Hole Diameter: 2-inch	Depth to Liquid:
	Screen Typ	NA			Slot:	IA			Diameter:	Length: Na NA	Total Depth:	Depth to Water:
	Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology	/Remarks	Well Completion
						0	/ /			4 + 0		Service and the second second
						1 _	- .,,			NR		
		M	Ø	NO	*****	3 -	04		SW-SC	lightbrown san opangeoxide, b well sorted	uk wychay (10%) Waak organics,	-
						5 _				NR		
		M	Ø	ND		78	4.8		SWX	SAA w/mare sove a	z organicst which z new bolton	-
						9	:			NR		-
		M	ø	ND		11	8-12		Sw:sc	SAA (0.4') Oxide stringer	but heavy orang	-
						13				NR		
E						15 -		199 B.		Next pace		-

									Decision and and	PULIA	
	\frown	Compl	ianco	Engine	ering "	Pomodi	otio		Boring/Well # Project:	BH-CO Galt MN	
	2	LTEn	vironn	nental	Inc	Remean	allo	"	Project # 034016012		
				.onul,					Date	12/20/2016	
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	• Litho	ology/Remarks	Well Completion
	m	P	NO		15	12-16	P	SC	cokrohange in 1	op 1 to very rakebrown y(20%) 10 YR 7/3	
	m	Ø	NO	BH-G 140		16.18	F	56		aliche @ bottom,	-
					<u>• 18</u>						-
					19	-			71 San	dstone /semi-con.	-
					20				Refusal	dotone /semi-lon. @ 18'	-
					21					-	
					22	-				-	-
					23 24					-	-
		· ·			25					1	
					26					-	
					27					-	
					28					+	-
					29					-	-
					30					-	-
					31					1	
					32 33					+	
					34					+	
					35					-	
					36					-	
					37					+	

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

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

RE: Galt MN

OrderNo.: 1612B77

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 6 sample(s) on 12/21/2016 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
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Lab Order 1612B77 Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

L 1 1

CLIENT:	Williams Four Corners			Client Samp	le ID: BI	H-1		
Project:	Galt MN			Collection	Date: 12	/20/2016 10:05:00 A	M	
Lab ID:	1612B77-001	Matrix: SOIL Received Date: 12/21/2016 8:00:00 AM						
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch	
	OD 8015M/D: DIESEL RAI	NGE ORGANICS				Analy	/st: TOM	
Diesel Rar	nge Organics (DRO)	ND	99	ma/Ka	1	12/24/2016 12:23:00	AM 29359	

Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/24/2016 12:23:00 AM	29359
Surr: DNOP	99.3	70-130	%Rec	1	12/24/2016 12:23:00 AM	29359
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/23/2016 9:53:03 PM	29352
Surr: BFB	93.0	68.3-144	%Rec	1	12/23/2016 9:53:03 PM	29352
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	12/23/2016 9:53:03 PM	29352
Toluene	ND	0.047	mg/Kg	1	12/23/2016 9:53:03 PM	29352
Ethylbenzene	ND	0.047	mg/Kg	1	12/23/2016 9:53:03 PM	29352
Xylenes, Total	ND	0.093	mg/Kg	1	12/23/2016 9:53:03 PM	29352
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	12/23/2016 9:53:03 PM	29352

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 9
	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

Analytical	Report
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Lab Order 1612B77 Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Williams Four Corners			Client Samp	e ID: BH-2	
Project:	Galt MN	Collection Date: 12/20/2016 10:30:00 AM				
Lab ID:	1612B77-002	Matrix: S	SOIL	Received	Date: 12/21/2016 8:00:00 AM	M
Analyses		Result	PQL	Qual Units	DF Date Analyzed	Batch
EPA MET	THOD 8015M/D: DIESEL RAM	IGE ORGANICS			Analy	st: TOM
	ange Organics (DRO)	ND	9.1	mg/Kg	1 12/24/2016 12:44:37	AM 20250

Surr: DNOP	93.9	70-130	%Rec	1	12/24/2016 12:44:37 AM 29359
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/23/2016 10:16:31 PM 29352
Surr: BFB	92.8	68.3-144	%Rec	1	12/23/2016 10:16:31 PM 29352
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/23/2016 10:16:31 PM 29352
Toluene	ND	0.048	mg/Kg	1	12/23/2016 10:16:31 PM 29352
Ethylbenzene	ND	0.048	mg/Kg	1	12/23/2016 10:16:31 PM 29352
Xylenes, Total	ND	0.096	mg/Kg	1	12/23/2016 10:16:31 PM 29352
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	12/23/2016 10:16:31 PM 29352

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix		Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 9
	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

Analy	tical	Report	

Lab Order 1612B77

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

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EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analy	st: TOM
Analyses	Result	PQL	Qual	Units	DF Date Analyzed	Batch
Lab ID: 1612B77-003	Matrix:	SOIL		Received	Date: 12/21/2016 8:00:00 AM	M
Project: Galt MN				Collection	Date: 12/20/2016 10:45:00 A	M
CLIENT: Williams Four Corners		Client Sample ID: BH-3				

Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/24/2016 1:05:57 AM 29359
Surr: DNOP	90.6	70-130	%Rec	1	12/24/2016 1:05:57 AM 29359
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/27/2016 12:47:09 PM 29352
Surr: BFB	97.5	68.3-144	%Rec	1	12/27/2016 12:47:09 PM 29352
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/27/2016 12:47:09 PM 29352
Toluene	ND	0.049	mg/Kg	1	12/27/2016 12:47:09 PM 29352
Ethylbenzene	ND	0.049	mg/Kg	1	12/27/2016 12:47:09 PM 29352
Xylenes, Total	ND	0.099	mg/Kg	1	12/27/2016 12:47:09 PM 29352
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	12/27/2016 12:47:09 PM 29352

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 3 of 9
	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

Analytical	l Report
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Lab Order **1612B77** Date Reported: **12/29/2016**

Hall Environmental Analysis Laboratory, Inc.

1 C 1

CLIENT: Williams Four Corners	Client Sample ID: BH-4				
Project: Galt MN			Collecti	on Date: 12/20/2016 11:05:00 AM	
Lab ID: 1612B77-004	Matrix:	SOIL	Receiv	ed Date: 12/21/2016 8:00:00 AM	
Analyses	Result	PQL	Qual Units	DF Date Analyzed	Batch

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: 1						
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/24/2016 1:27:21 AM	29359
Surr: DNOP	94.8	70-130	%Rec	1	12/24/2016 1:27:21 AM	29359
EPA METHOD 8015D: GASOLINE RANG	Analyst:	NSB				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/27/2016 1:10:42 PM	29352
Surr: BFB	97.0	68.3-144	%Rec	1	12/27/2016 1:10:42 PM	29352
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	12/27/2016 1:10:42 PM	29352
Toluene	ND	0.048	mg/Kg	1	12/27/2016 1:10:42 PM	29352
Ethylbenzene	ND	0.048	mg/Kg	1	12/27/2016 1:10:42 PM	29352
Xylenes, Total	ND	0.096	mg/Kg	1	12/27/2016 1:10:42 PM	29352
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	12/27/2016 1:10:42 PM	29352

Qualifiers:	*	Value exceeds Maximum Contaminant Level.		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 4 of 9
	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

Analytical	Report
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Lab Order 1612B77

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

2 1 F A

 CLIENT:
 Williams Four Corners
 Client Sample ID: BH-5

 Project:
 Galt MN
 Collection Date: 12/20/2016 11:20:00 AM

 Lab ID:
 1612B77-005
 Matrix: SOIL
 Received Date: 12/21/2016 8:00:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF Date Analyzed
 Batch

					2 1100 1 21101 9 20 0	
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	s			Analyst	том
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/24/2016 1:48:46 AM	29359
Surr: DNOP	94.8	70-130	%Rec	1	12/24/2016 1:48:46 AM	29359
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/27/2016 1:34:16 PM	29352
Surr: BFB	98.3	68.3-144	%Rec	1	12/27/2016 1:34:16 PM	29352
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	12/27/2016 1:34:16 PM	29352
Toluene	ND	0.046	mg/Kg	1	12/27/2016 1:34:16 PM	29352
Ethylbenzene	ND	0.046	mg/Kg	1	12/27/2016 1:34:16 PM	29352
Xylenes, Total	ND	0.092	mg/Kg	1	12/27/2016 1:34:16 PM	29352
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	12/27/2016 1:34:16 PM	29352

Qualifiance	*	Value avecede Maximum Contaminant Laural	D	And the detected in the DM (d. 10) - 1
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 5 of 9
	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

Analytical	Report
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Lab Order 1612B77

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

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Analyses		Result	PQL	Qual	Units	DF Date Analyzed	Batch
Lab ID:	1612B77-006	Matrix:	SOIL		Received	Date: 12/21/2016 8:00:00 AM	1
Project:	Galt MN				Collection	Date: 12/20/2016 11:40:00 A	M
CLIENT:	Williams Four Corners			C	lient Samp	le ID: BH-6	

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EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst:	том
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/24/2016 2:10:25 AM	29359
Surr: DNOP	93.7	70-130	%Rec	1	12/24/2016 2:10:25 AM	29359
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/27/2016 1:57:46 PM	29352
Surr: BFB	96.9	68.3-144	%Rec	1	12/27/2016 1:57:46 PM	29352
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	12/27/2016 1:57:46 PM	29352
Toluene	ND	0.047	mg/Kg	1	12/27/2016 1:57:46 PM	29352
Ethylbenzene	ND	0.047	mg/Kg	1	12/27/2016 1:57:46 PM	29352
Xylenes, Total	ND	0.094	mg/Kg	1	12/27/2016 1:57:46 PM	29352
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	12/27/2016 1:57:46 PM	29352

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 6 of 9
	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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1612B77 29-Dec-16

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Client: William Project: Galt M	ns Four Corner N	rs								
Sample ID LCS-29359	SampTyp	e: LCS	3	Tes	Code: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch ID	D: 293	59	R						
Prep Date: 12/22/2016	Analysis Date	e: 12/	23/2016	S	eqNo: 1	241856	Units: mg/M	ζg		
Analyte	Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.3	63.8	116			
Surr: DNOP	4.3		5.000		86.0	70	130			
Sample ID MB-29359	SampTyp	e: MBI	LK	Test	Code: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Batch ID	D: 293	59	R	unNo: 3	9589				
Prep Date: 12/22/2016	Analysis Date	e: 12/	23/2016	S	eqNo: 1	241857	Units: mg/k	(g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.4		10.00		94.4	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
- 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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WO#: 1612B77

Client: Project:	Williams Galt MN	Four Corne	ers								
Sample ID	MB-29352	SampTy	pe: ME	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 29	352	F	RunNo: 3	9645				
Prep Date:	12/22/2016	Analysis Da	ite: 12	2/23/2016	S	SeqNo: 1	241888	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 930	5.0	1000		92.5	68.3	144			
Sample ID	LCS-29352	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	ID: 29	352	F	RunNo: 3	9645				
Prep Date:	e: 12/22/2016 Analysis Date: 12/23/2016 SeqNo: 1241889 Units: mg/Kg										
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	26	5.0	25.00	0	106	74.6	123			
Surr: BFB		1000		1000		101	68.3	144			
Sample ID	1612B77-001AMS	D SampTy	pe: MS	SD	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	BH-1	Batch	ID: 29	352	F	aunNo: 3	9645				
Prep Date:	12/22/2016	Analysis Da	te: 12	2/23/2016	5	eqNo: 1	241893	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	4.9	24.30	0	107	61.3	150	4.63	20	
Surr: BFB		980		971.8		101	68.3	144	0	0	
Sample ID	1612B77-001AMS	SampTy	pe: M \$	3	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	D: BH-1 Batch ID: 29352 RunNo: 39645										
Prep Date:	12/22/2016	Analysis Da	te: 12	2/23/2016	S	eqNo: 1	241951	Units: mg/M	(g		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	27	4.7	23.32	0	117	61.3	150			
Surr: BFB		950		932.8		102	68.3	144			

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1612B77 29-Dec-16

Client:WilliaProject:Galt M	ams Four Corr MN	ners								
Sample ID MB-29352	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	h ID: 29	352	R	unNo: 3					
Prep Date: 12/22/2016	Analysis D	Date: 12	2/23/2016	S	eqNo: 1	241930	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	Ethylbenzene ND 0.050									
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			
Sample ID LCS-29352	SampT	ype: LC	S	Test	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	h ID: 29	352	R	unNo: 3	9645				
Prep Date: 12/22/2016	Analysis D	Date: 12	2/23/2016	S	eqNo: 1	241931	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	75.2	115			
Toluene	1.0	0.050	1.000	0	102	80.7	112			
Ethylbenzene	0.98 0.050 1.000				98.3	78.9	117			
Xylenes, Total 3.0 0.10 3.000				0	98.6	79.2	115			
Surr: 4-Bromofluorobenzene										

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
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- W Sample container temperature is out of limit as specified

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuq TEL: 505-345-3975 F Website: www.hall	4901 querqu FAX: 5	Hawkins i e, NM 871 05-345-41	NE 105 Sam	ple Log-In Ch	eck List
Client Name: WILLIAMS FOUR CORN	Work Order Number:				RcptNo: 1	
Received by/date: AS	12/21/12/2					
Logged By: Lindsay Mangin	12/21/2016 8:00:00 AM			, Andy Hago		
Completed By: Lindsay Mangin	12/21/2016 2:30:19 PM			Junky Harpo		
Reviewed By: aI	12/22/16	•		0.00		
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		No []	NA	
5. Were all samples received at a temperature	re 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	t(s)?	Yes		No		
8. Are samples (except VOA and ONG) prop	erly 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 bro	ken?	Yes		No 🗹	# of preserved	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗔	bottles checked for pH:	>12 unless noted)
13. Are matrices correctly identified on Chain of	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.\	Nas client notified of all discrepancies with this order?	Yes L. No NA M
	Person Notified:	Date:
	By Whom:	Via: [] eMail [] Phone [] Fax [] In Person
	Regarding:	
	Client Instructions:	
17.	Additional remarks:	
18.	Cooler Information	
	Cooler No Temp ºC Condition Seal Intact	Seal No Seal Date Signed By

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Good

Yes

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С	hain-	of-Cu	stody Record	Turn-Around	Time:					н		F	NV	TE	20		1FI	NTA		
lient:	Wi	lliame	Fair Comers	Standard	🗆 Rush	and the second												TO		,
				Project Name): 		www.hallenvironmental.com													
ailing	Address	1770	55 Arexo Dr.	E Go	It MIV		4901 Hawkins NE - Albuquerque, NM 87109													
		Bicon		Project #:				Tel. 505-345-3975 Fax 505-345-4107												
hone #	#: FD		2-4442				Analysis Request													
	r Fax#:	~ ~ .14		Project Manager: Brooke Herb																
A/QC F	Package:				Dad	e feb	+ TMB's (8021)	as ol	I		(S	·	4,S(PCB's						
Kstan	dard		□ Level 4 (Full Validation)						2		SIMS)		PO PO							
CCredi		C Othe	۲	Sampler: Josh Adams On Ice: Vies No				+ TPH (Gas only)	S	18.1)	8270		3,NO	/ 808		(A				or N)
EDD	(Type)			North Constant Constant	A R R AL R ALL ALL AND SEA	-0°C		H	5	d 4	o 0 50	tals	NUC	ides	7	NON-				2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO HEAL	BTEX / MTBE	BTEX + MTBE	TPH 8015B (GRO DRO HIRO	TPH (Method 418.1)	EDB (Method 504.1) PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles
20-16	1005	Soil	BH-1	(Noz	cool	-001	X		X											
1	1030		BH-2			-00Z	X		X											
	1045		BH-3			-003	X		X											\square
+	1105		BH-4			-004	X		X										+	
1	NZO		BH-5			-005	X		Ŷ											
\checkmark	1140	V	BH-G		J. J.		X		X											
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ate: 20-6	2140	Relinquish	allens	Thaste	Warts	12/20/14 1400	Remarks: CC: Bherbeltonv.com jadams@ltenv.com													
ate: Time: Refinquished by:			Received by: Date Time Date Time																	
'elle	10-1	1 AIM	mitted to Hall Environmental may be sub	contracted to other a	ccredited laboratori	ap This same as notice of thi	s nossi	biliby	Any e		acted de	ta will t		dy not	ated or	n the a	nalytic:	al report		'

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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.