# **3R-1013**

# **Release Report/ General Correspondence**

# Williams SJ

# Date: Oct-Dec 2016



Form C-141 Revised August 8, 2011

Final Report

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**

Name of Company Williams Four Corners LLC	Contact Mitch Morris
Address 1755 Arroyo Drive, Bloomfield, NM 87413	Telephone No. 505-632-4708
Facility Name Kutz Canyon Gas Plant	Facility Type Natural Gas Processing Plant

Surface Owner Bureau of Land Management Mineral Owner

API No.

Initial Report

#### LOCATION OF RELEASE

Unit Letter D	Section 13	Township 28N	Range 11W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude  $\underline{36^{\circ} 40.064 N}$  Longitude  $\underline{107^{\circ} 57.795 W}$ 

#### NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 75.6 MCF	Volume Recovered 0
Source of Release Pressure Relief Valve (PRV)	Date and Hour of Occurrence 9/29/2016, 05:00 PM MST	Date and Hour of Discovery 9/29/2016, 05:00 PM MST
Was Immediate Notice Given?	If YES, To Whom?	A CARLEND AND A CA
Yes No X Not Required	Not Applicable	
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.
Yes X No	Not Applicable	OIL CONS. DIV DIST. 3
If a Watercourse was Impacted, Describe Fully.*		
		OCT 1 3 2016
Describe Cause of Problem and Remedial Action Taken.*		001101000
Incorrect valve calibration caused a pressure exceedance releasing 75.6 M normalized as quickly as possible, and the valve closed.	ICF of natural gas to atmosphere through	ugh a pressure safety device. Pressure was
Describe Area Affected and Cleanup Action Taken.*		
No cleanup required with a gas release.		
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 n	otifications and perform corrective ac	ctions for releases which may endanger
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	notifications and perform corrective ac e NMOCD marked as "Final Report"	tions for releases which may endanger does not relieve the operator of liability
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	notifications and perform corrective ac e NMOCD marked as "Final Report" the contamination that pose a threat to g	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health
regulations all operators are required to report and/or file certain release m 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	notifications and perform corrective ac e NMOCD marked as "Final Report" the contamination that pose a threat to g	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health
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	notifications and perform corrective ac e NMOCD marked as "Final Report" the contamination that pose a threat to g loes not relieve the operator of response	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other
regulations all operators are required to report and/or file certain release m 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	notifications and perform corrective ac e NMOCD marked as "Final Report" the contamination that pose a threat to g loes not relieve the operator of response	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health
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regulations all operators are required to report and/or file certain release m 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 of federal, state, or local laws and/or regulations.	notifications and perform corrective ac e NMOCD marked as "Final Report" the contamination that pose a threat to g loes not relieve the operator of response	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other <u>VATION DIVISION</u>
regulations all operators are required to report and/or file certain release m 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.	notifications and perform corrective active active NMOCD marked as "Final Report" the contamination that pose a threat to get the operator of responsion of responsion of the constant of the	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other <u>VATION DIVISION</u>
regulations all operators are required to report and/or file certain release m 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.	notifications and perform corrective active active NMOCD marked as "Final Report" the contamination that pose a threat to get the operator of responsion of responsion of the constant of the	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other <u>VATION DIVISION</u>
regulations all operators are required to report and/or file certain release m 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 of federal, state, or local laws and/or regulations.	notifications and perform corrective active active NMOCD marked as "Final Report" the contamination that pose a threat to get the operator of responsion of responsion of the constant of the	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other <u>VATION DIVISION</u>
regulations all operators are required to report and/or file certain release m 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.	Approved by Environmental Speciality	etions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other <u>VATION DIVISION</u> est:
regulations all operators are required to report and/or file certain release m 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.	notifications and perform corrective active active NMOCD marked as "Final Report" the contamination that pose a threat to get the operator of responsion of responsion of the constant of the	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other <u>VATION DIVISION</u>
regulations all operators are required to report and/or file certain release m 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.	Approved by Environmental Speciality	etions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other VATION DIVISION st: Expiration Date:
regulations all operators are required to report and/or file certain release m 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.	Approved by Environmental Special Approval Date:	etions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other <u>VATION DIVISION</u> est:

\* 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: Kelsey Christiansen Address: 188 CR 4900, Bloomfield, NM 87413 Telephone No.: (505) 632-4606 Facility Name: Newsom 2 Location Facility Type: Trunk Q Pipeline Surface Owner: Bureau of Land Management Mineral Owner API No. LOCATION OF RELEASE Unit Letter Feet from the North/South Line Feet from the Section Township East/West Line Range County M 17 26N 08W San Juan Latitude 36.48331° N Longitude -107.71145° W NATURE OF RELEASE Type of Release: Produced Water/Paraffin Volume of Release: Unknown Volume Recovered: 0 Source of Release: Pipeline pinhole Date and Hour of Occurrence: Date and Hour of Discovery: Estimated 01/12/16 at 11:56 AM 01/12/16 at 11:56 PM MST MST OIL CONS. DIV DIST. 3 Was Immediate Notice Given? If YES, To Whom? Yes No Not Required Cory Smith, NMOCD AUG 1 1 2016 Katherina Diemer, BLM National Response Center (NRC) By Whom? Kelsey Christiansen Date and Hour: 1/12/16 at 03:00 PM MST Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes No Unnamed ephemeral wash If a Watercourse was Impacted, Describe Fully.\* Approximately one gallon of produced water/paraffin mix impacted ephemeral wash located approximately 20 feet from what is believed to be the release source. Immediate response included hand excavation of the impacted soil and utilizing dirt within the wash to build a berm to prevent potential run off. Describe Cause of Problem and Remedial Action Taken.\* Williams personnel discovered surfaced liquids at the Newsom 2 Location during routine maintenance. After some snow removal upon further discovery the surfaced liquids appeared to have run into a local dry ephemeral wash approximately 20 feet away. Immediate action was taken to stop any potential further run on into the wash by building an earthen berm and utilizing booms and sorbent materials. Immediate notification was given to the NMOCD, BLM and NRC via telephone. Describe Area Affected and Cleanup Action Taken.\* Williams was able to remediate and repair the release and re-installed the pipeline below the wash to prevent a future incident. Confirmation soil samples were collected from the four sidewalls and base of the excavation. BLM and NMOCD representatives were onsite to witness the sampling event. Attached are the soil analytical results showing the concentrations are below regulatory standards. 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 DIVI** Lelang Christian Approved by Environmental Specialist: Signature: Printed Name: Kelsey Christiansen Title: Environmental Specialist Approval Date: **Expiration Date:** E-mail Address: kelsey.christiansen@williams.com Conditions of Approval: Attached Date: 03/15/16 Phone: (505) 632-4606 \* Attach Additional Sheets If Necessary ±115 1601337973



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 19, 2016

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

OrderNo.: 1602665

Dear Ashley Ager:

RE: Newsom 2

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/17/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analyti	cal Report
A REALLY CAN	car report

Date Reported: 2/19/2016

#### Hall Environmental Analysis Laboratory, Inc.

# CLIENT: Williams Four Corners Client Sample ID: N Wall Project: Newsom 2 Collection Date: 2/16/2016 2:25:00 PM Lab ID: 1602665-001 Matrix: SOIL Received Date: 2/17/2016 7:50:00 AM Analyses Result PQL Qual Units DF Date Analyzed Batch

						10000
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	59	30	mg/Kg	20	2/17/2016 11:25:56 AM	23798
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANIC	S			Analyst	KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/17/2016 10:13:13 AM	23771
Surr: DNOP	85.2	70-130	%Rec	1	2/17/2016 10:13:13 AM	23771
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	2/17/2016 9:48:33 AM	A32204
Surr: BFB	90.7	66.2-112	%Rec	1	2/17/2016 9:48:33 AM	A32204
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.040	mg/Kg	1	2/17/2016 9:48:33 AM	B32204
Toluene	ND	0.040	mg/Kg	1	2/17/2016 9:48:33 AM	B32204
Ethylbenzene	ND	0.040	mg/Kg	1	2/17/2016 9:48:33 AM	B32204
Xylenes, Total	ND	0.079	mg/Kg	1	2/17/2016 9:48:33 AM	B32204
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	2/17/2016 9:48:33 AM	B32204

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 12
	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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Date Reported: 2/19/2016

2/17/2016 10:12:04 AM B32204

2/17/2016 10:12:04 AM B32204

2/17/2016 10:12:04 AM B32204

### Hall Environmental Analysis Laboratory, Inc.

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

CLIENT: Williams Four Corners Project: Newsom 2	Client Sample ID: S Wall Collection Date: 2/16/2016 2:15:00 PM							
Lab ID: 1602665-002	Matrix:	SOIL		Received Date: 2/17/2016 7:50:00 AM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	LGT		
Chloride	ND	30	mg/Kg	20	2/17/2016 11:38:20 AM	23798		
EPA METHOD 8015M/D: DIESEL RANG		S			Analyst	KJH		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/17/2016 10:34:59 AM	23771		
Surr: DNOP	81.5	70-130	%Rec	1	2/17/2016 10:34:59 AM	23771		
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB		
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	2/17/2016 10:12:04 AM	A32204		
Surr: BFB	90.5	66.2-112	%Rec	1	2/17/2016 10:12:04 AM	A32204		
EPA METHOD 8021B: VOLATILES					Analyst	NSB		
Benzene	ND	0.044	mg/Kg	1	2/17/2016 10:12:04 AM	B32204		
Toluene	ND	0.044	mg/Kg	1	2/17/2016 10:12:04 AM	B32204		

0.044

0.088

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

ND

ND

104

	-			
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 2 of 12
	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

<b>Analytical Report</b>
Lab Order 1602665

#### Date Reported: 2/19/2016

2/17/2016 10:56:41 AM 23771

2/17/2016 10:56:41 AM 23771

2/17/2016 10:35:34 AM A32204

2/17/2016 10:35:34 AM A32204

2/17/2016 10:35:34 AM B32204

Analyst: NSB

Analyst: NSB

#### Hall Environmental Analysis Laboratory, Inc.

**Diesel Range Organics (DRO)** 

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

**EPA METHOD 8021B: VOLATILES** 

EPA METHOD 8015D: GASOLINE RANGE

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

CLIENT: Williams Four Corners	ams Four Corners Client Sample ID: E Wall					
Project: Newsom 2	Collection Date: 2/16/2016 2:20:00 PM					
Lab ID: 1602665-003	Matrix: S	OIL	Received	Date: 2/17/2016 7:50:00 AM		
Analyses	Result	PQL Qual	Units	DF Date Analyzed Batch		
EPA METHOD 300.0: ANIONS				Analyst: LGT		
Chloride	ND	30	mg/Kg	20 2/17/2016 11:50:45 AM 23798		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS			Analyst: KJH		

9.9

4.0

70-130

66.2-112

0.040

0.040

0.040

0.081

80-120

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

ND

82.0

ND

91.3

ND

ND

ND

ND

107

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 12
	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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Date Reported: 2/19/2016

### Hall Environmental Analysis Laboratory, Inc.

# CLIENT: Williams Four Corners Client Sample ID: W Wall Project: Newsom 2 Collection Date: 2/16/2016 2:10:00 PM Lab ID: 1602665-004 Matrix: SOIL Received Date: 2/17/2016 7:50:00 AM Analyses Result PQL Qual Units DF Date Analyzed Batch

					v	
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	39	30	mg/Kg	20	2/17/2016 12:03:10 PM	23798
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst:	KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/17/2016 11:18:32 AM	23771
Surr: DNOP	75.6	70-130	%Rec	1	2/17/2016 11:18:32 AM	23771
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/17/2016 10:59:11 AM	A32204
Surr: BFB	92.4	66.2-112	%Rec	1	2/17/2016 10:59:11 AM	A32204
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.046	mg/Kg	1	2/17/2016 10:59:11 AM	B32204
Toluene	ND	0.046	mg/Kg	1	2/17/2016 10:59:11 AM	B32204
Ethylbenzene	ND	0.046	mg/Kg	1	2/17/2016 10:59:11 AM	B32204
Xylenes, Total	ND	0.092	mg/Kg	1	2/17/2016 10:59:11 AM	B32204
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	2/17/2016 10:59:11 AM	B32204

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 12
	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	Ar	aly	tica	l Re	port
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Date Reported: 2/19/2016

#### Hall Environmental Analysis Laboratory, Inc.

# CLIENT: Williams Four Corners Client Sample ID: Bottom Project: Newsom 2 Collection Date: 2/16/2016 2:35:00 PM Lab ID: 1602665-005 Matrix: SOIL Received Date: 2/17/2016 7:50:00 AM Analyses Result PQL Qual Units ·DF Date Analyzed Batch

EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	69	30	mg/Kg	20	2/17/2016 12:15:34 PM	23798
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/17/2016 11:40:15 AM	23771
Surr: DNOP	78.7	70-130	%Rec	1	2/17/2016 11:40:15 AM	23771
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/17/2016 11:22:40 AM	A32204
Surr: BFB	88.6	66.2-112	%Rec	1	2/17/2016 11:22:40 AM	A32204
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.047	mg/Kg	1	2/17/2016 11:22:40 AM	B32204
Toluene	ND	0.047	mg/Kg	1	2/17/2016 11:22:40 AM	B32204
Ethylbenzene	ND	0.047	mg/Kg	1	2/17/2016 11:22:40 AM	B32204
Xylenes, Total	ND	0.094	mg/Kg	1	2/17/2016 11:22:40 AM	B32204
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	2/17/2016 11:22:40 AM	B32204

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

\*

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1602665

#### Date Reported: 2/19/2016

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners			<b>Client Sampl</b>	e ID: Wa	ash	
Project: Newsom 2			Collection	Date: 2/1	6/2016 2:30:00 PM	
Lab ID: 1602665-006	Matrix:	SOIL	Received	Date: 2/1	7/2016 7:50:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	2/17/2016 12:27:59 PM	23798
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	6			Analyst	KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/17/2016 4:01:00 PM	23771
Surr: DNOP	86.4	70-130	%Rec	1	2/17/2016 4:01:00 PM	23771
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/18/2016 10:00:48 AM	23786
Surr: BFB	90.8	66.2-112	%Rec	1	2/18/2016 10:00:48 AM	23786

**EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.048 mg/Kg 2/18/2016 10:00:48 AM 23786 1 Toluene ND 0.048 mg/Kg 2/18/2016 10:00:48 AM 23786 1 Ethylbenzene ND 0.048 mg/Kg 2/18/2016 10:00:48 AM 23786 1 Xylenes, Total 0.096 2/18/2016 10:00:48 AM 23786 ND mg/Kg 1 Surr: 4-Bromofluorobenzene 105 80-120 %Rec 1 2/18/2016 10:00:48 AM 23786

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 12
	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#: **1602665** *19-Feb-16* 

Client: Project:	Willian Newso	ms Four Corners om 2								
Sample ID	MB-23798	SampType:	MBLK	Tes	tCode: EPA	A Method	300.0: Anion	s		
Client ID:	PBS	Batch ID:	23798	F	unNo: 322	237				
Prep Date:	2/17/2016	Analysis Date:	2/17/2016	S	eqNo: 985	5576	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID	LCS-23798	SampType:	LCS	Tes	Code: EPA	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID:	23798	F	unNo: 322	237				
Prep Date:	2/17/2016	Analysis Date:	2/17/2016	5	eqNo: 985	5577	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	95.6	90	110			

Qualifiers:

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

**Client:** Williams Four Corners **Project:** Newsom 2

Sample ID MB-23771	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 23	771	F	RunNo: 3	2179				
Prep Date: 2/17/2016	Analysis D	ate: 2/	17/2016	S	SeqNo: 9	84150	Units: mg/l	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	7.3		10.00		73.4	70	130			
Sample ID LCS-23771	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 23	771	F	RunNo: 3	2179				
Prep Date: 2/17/2016	Analysis D	ate: 2/	17/2016	S	SeqNo: 9	84152	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.8	65.8	136			
0										
Surr: DNOP	3.7		5.000		73.3	70	130			
		ype: MS		Tes			130 8015M/D: Di	esel Rang	e Organics	
Surr: DNOP	S SampT	ype: MS	3			PA Method		esel Range	e Organics	
Surr: DNOP	S SampT	n ID: 23	3 771	F	tCode: El	PA Method 2199			e Organics	
Surr: DNOP Sample ID 1602665-001AMS Client ID: N Wall	S SampT Batch	n ID: 23	3 771 17/2016	F	tCode: El RunNo: 3 SeqNo: 9	PA Method 2199	8015M/D: Di		e Organics	Qual
Surr: DNOP Sample ID 1602665-001AMS Client ID: N Wall Prep Date: 2/17/2016	S SampT Batch Analysis D	ate: 2/	3 771 17/2016	F	tCode: El RunNo: 3 SeqNo: 9	PA Method 2199 84485	8015M/D: Di Units: mg/ł	<g< td=""><td></td><td>Qual</td></g<>		Qual
Surr: DNOP Sample ID 1602665-001AMS Client ID: N Wall Prep Date: 2/17/2016 Analyte	S SampT Batch Analysis D Result	DID: 23 Pate: 2/ PQL	5 771 17/2016 SPK value	R S SPK Ref Val	tCode: El RunNo: 3 SeqNo: 9 %REC	PA Method 2199 84485 LowLimit	8015M/D: Di Units: mg/h HighLimit	<g< td=""><td></td><td>Qual</td></g<>		Qual
Surr: DNOP Sample ID 1602665-001AMS Client ID: N Wall Prep Date: 2/17/2016 Analyte Diesel Range Organics (DRO)	S SampT Batch Analysis D Result 48 3.7	DID: 23 Pate: 2/ PQL	5 771 17/2016 SPK value 48.83 4.883	F S SPK Ref Val 4.890	tCode: El RunNo: 3: SeqNo: 9: %REC 87.3 76.7	PA Method 2199 84485 LowLimit 31.2 70	8015M/D: Di Units: mg/F HighLimit 162	⟨g %RPD	RPDLimit	Qual
Surr: DNOP Sample ID 1602665-001AMS Client ID: N Wall Prep Date: 2/17/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP	S SampT Batch Analysis D Result 48 3.7 SD SampT	n ID: 23 pate: 2/ PQL 9.8	5 771 17/2016 SPK value 48.83 4.883 5D	F S SPK Ref Val 4.890 Test	tCode: El RunNo: 3: SeqNo: 9: %REC 87.3 76.7	PA Method 2199 84485 LowLimit 31.2 70 PA Method	8015M/D: Di Units: mg/ł HighLimit 162 130	⟨g %RPD	RPDLimit	Qual
Surr: DNOP Sample ID 1602665-001AMS Client ID: N Wall Prep Date: 2/17/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1602665-001AMS	S SampT Batch Analysis D Result 48 3.7 SD SampT	PQL 9.8 7ype: MS	5 771 17/2016 8PK value 48.83 4.883 5D 771	F S SPK Ref Val 4.890 Tesi F	tCode: El RunNo: 3 SeqNo: 9 %REC 87.3 76.7 tCode: El	PA Method 2199 84485 LowLimit 31.2 70 PA Method 2199	8015M/D: Di Units: mg/ł HighLimit 162 130	(g %RPD esel Range	RPDLimit	Qual
Surr: DNOP Sample ID 1602665-001AMS Client ID: N Wall Prep Date: 2/17/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1602665-001AMS Client ID: N Wall	S SampT Batch Analysis D Result 48 3.7 SD SampT Batch	PQL 9.8 7ype: MS	S 771 17/2016 SPK value 48.83 4.883 SD 771 17/2016	F S SPK Ref Val 4.890 Tesi F	tCode: El RunNo: 3 SeqNo: 9 %REC 87.3 76.7 tCode: El RunNo: 3 SeqNo: 9	PA Method 2199 84485 LowLimit 31.2 70 PA Method 2199	8015M/D: Di Units: mg/ł HighLimit 162 130 8015M/D: Di	(g %RPD esel Range	RPDLimit	Qual
Surr: DNOP Sample ID 1602665-001AMS Client ID: N Wall Prep Date: 2/17/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1602665-001AMS Client ID: N Wall Prep Date: 2/17/2016	S SampT Batch Analysis D Result 48 3.7 SD SampT Batch Analysis D	PQL 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	S 771 17/2016 SPK value 48.83 4.883 SD 771 17/2016	R S SPK Ref Val 4.890 Tes R S	tCode: El RunNo: 3 SeqNo: 9 %REC 87.3 76.7 tCode: El RunNo: 3 SeqNo: 9	PA Method 2199 84485 LowLimit 31.2 70 PA Method 2199 84486	8015M/D: Di Units: mg/k HighLimit 162 130 8015M/D: Di Units: mg/k	(g %RPD esel Range	RPDLimit	

Qualifiers:

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

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WO#: 1602665

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Client: Project:	Williams Newsom 2	Four Corne 2	ers								
Sample ID 5	ML RB	SampTy	ype: MI	BLK	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	е	
Client ID: PI	BS	Batch	ID: A3	2204	F	RunNo: 3	32204				
Prep Date:		Analysis Da	ate: 2/	17/2016	5	SeqNo: 9	84873	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range C Surr: BFB	Drganics (GRO)	ND 920	5.0	1000		92.4	66.2	112			
Sample ID 2.	5UG GRO LCS	SampTy	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID: LO	CSS	Batch	ID: A3	2204	F	RunNo: 3	32204				
Prep Date:		Analysis Da	ate: 2/	17/2016	5	SeqNo: 9	984874	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range C	Organics (GRO)	26	5.0	25.00	0	104	79.6	122			
Surr: BFB		980		1000		98.4	66.2	112			
Sample ID 16	602665-001AMS	SampTy	/pe: MS	3	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID: N	Wall	Batch	ID: A3	2204	F	RunNo: 3	32204				
Prep Date:		Analysis Da	ate: 2/	17/2016	5	SeqNo: 9	84875	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	Organics (GRO)	21	4.0	19.76	0	106	59.3	143			
Surr: BFB		790		790.5		100	66.2	112			
Sample ID 16	602665-001AMSD	SampTy	/pe: M\$	SD	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: N	Wall	Batch	ID: A3	2204	F	RunNo: 3	32204				
Prep Date:		Analysis Da	ate: 2/	17/2016	S	SeqNo: 9	84876	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	Organics (GRO)	21	4.0	19.76	0	106	59.3	143	0.679	20	
Surr: BFB		790		790.5		100	66.2	112	0	0	
Sample ID M	B-23786	SampTy	pe: MF	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: PE	BS		ID: 23		F	RunNo: 3	32245				
Prep Date: 2	2/17/2016	Analysis Da	ate: 2/	18/2016	S	SeqNo: 9	85875	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O Surr: BFB	Organics (GRO)	ND 910	5.0	1000		91.1	66.2	112			
Sample ID LC	CS-23786	SampTy	/pe: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: LC	CSS	Batch	ID: 23	786		RunNo: 3			U		
									-		
Prep Date: 2	2/17/2016	Analysis Da	ate: 2/	18/2016	5	SeqNo: 9	85876	Units: mg/k	g		

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- J Analyte detected below quantitation limits
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- P Sample pH Not In RangeRL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Client:Williams Four CornersProject:Newsom 2

Sample ID LCS-23786	SampT	ype: LC	S	Test	e					
Client ID: LCSS	Batch	ID: 23	786	R	unNo: 3	2245				
Prep Date: 2/17/2016	Analysis D	ate: 2/	18/2016	S	eqNo: 9	85876	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.0	79.6	122			
Surr: BFB	990		1000		98.6	66.2	112			

Qualifiers:

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#### **Client:** Williams Four Corners **Project:** Newsom 2

Sample ID 5M	IL RB	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PB	BS	Batch	h ID: <b>B3</b>	2204	F	RunNo: 3	2204				
Prep Date:		Analysis D	Date: 2/	17/2016	S	SeqNo: 9	84890	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bromofluc	orobenzene	1.1		1.000		111	80	120			
Sample ID 100	ONG BTEX LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LC:	SS	Batch	h ID: B3	2204	F	RunNo: 3	2204				
Prep Date:		Analysis D	Date: 2/	17/2016	5	SeqNo: 9	84891	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.050	1.000	0	94.4	80	120			
Toluene		1.1	0.050	1.000	0	107	80	120			
Ethylbenzene		1.1	0.050	1.000	0	108	80	120			
Xylenes, Total		3.2	0.10	3.000	0	108	80	120			
Alfoniou, rotan								100			
Surr: 4-Bromofluo	orobenzene	1.1		1.000		112	80	120			
Surr: 4-Bromofluo	orobenzene 02665-002AMS		ype: MS		Tes			8021B: Volat	tiles		
Surr: 4-Bromofluo Sample ID 160		SampT	Type: MS	5			PA Method		tiles		
Surr: 4-Bromofluo Sample ID 160	02665-002AMS	SampT	h ID: <b>B3</b>	s 2204	F	tCode: El	PA Method 2204				
Surr: 4-Bromofluo Sample ID 160 Client ID: SV	02665-002AMS	Samp1 Batch	h ID: <b>B3</b>	5 2204 17/2016	F	tCode: El	PA Method 2204	8021B: Volat		RPDLimit	Qual
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date:	02665-002AMS	SampT Batch Analysis D	h ID: B3 Date: 2/	5 2204 17/2016	F	tCode: El RunNo: 3 SeqNo: 9	PA Method 2204 84892	8021B: Volat	g	RPDLimit	Qual
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte	02665-002AMS	SampT Batcl Analysis D Result	h ID: <b>B3</b> Date: <b>2/</b> PQL	3 2204 17/2016 SPK value	F S SPK Ref Val	tCode: ER RunNo: 3 SeqNo: 9 %REC	PA Method 2204 84892 LowLimit	8021B: Volat Units: mg/K HighLimit	g	RPDLimit	Qual
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene	02665-002AMS	SampT Batcl Analysis D Result 0.96	h ID: <b>B3</b> Date: <b>2/</b> PQL 0.044	2204 17/2016 SPK value 0.8842	F SPK Ref Val 0	tCode: Ef RunNo: 3: SeqNo: 9: %REC 109	PA Method 2204 84892 LowLimit 71.5	8021B: Volat Units: mg/K HighLimit 122	g	RPDLimit	Qual
Surr: 4-Bromofluc Sample ID 160 Client ID: S W Prep Date: Analyte Benzene Toluene	02665-002AMS	SampT Batch Analysis D Result 0.96 1.0	h ID: <b>B3</b> Date: <b>2/</b> PQL 0.044 0.044	5 2204 17/2016 SPK value 0.8842 0.8842	F SPK Ref Val 0 0	tCode: Ef RunNo: 3: SeqNo: 9 %REC 109 116	PA Method 2204 84892 LowLimit 71.5 71.2	8021B: Volat Units: mg/K HighLimit 122 123	g	RPDLimit	Qual
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene Toluene Ethylbenzene	02665-002AMS Wall	SampT Batcl Analysis D Result 0.96 1.0 1.0	h ID: <b>B3</b> Date: <b>2</b> / PQL 0.044 0.044 0.044	2204 17/2016 SPK value 0.8842 0.8842 0.8842	F S SPK Ref Val 0 0 0	tCode: Ef RunNo: 3: SeqNo: 9: %REC 109 116 113	PA Method 2204 84892 LowLimit 71.5 71.2 75.2	8021B: Volat Units: mg/K HighLimit 122 123 130	g	RPDLimit	Qual
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc	02665-002AMS Wall	SampT Batch Analysis D Result 0.96 1.0 1.0 3.0 1.0	h ID: <b>B3</b> Date: <b>2</b> / PQL 0.044 0.044 0.044	2204 17/2016 SPK value 0.8842 0.8842 0.8842 2.653 0.8842	F SPK Ref Val 0 0 0 0	tCode: Ef RunNo: 3: SeqNo: 98 %REC 109 116 113 115 117	PA Method 2204 34892 LowLimit 71.5 71.2 75.2 72.4 80	8021B: Volat Units: mg/K HighLimit 122 123 130 131	íg %RPD	RPDLimit	Qual
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID 160	02665-002AMS Wall	SampT Batch Analysis D Result 0.96 1.0 1.0 3.0 1.0 SampT	Date: 2/ PQL 0.044 0.044 0.044 0.044	2204 17/2016 SPK value 0.8842 0.8842 0.8842 2.653 0.8842 2.653	F SPK Ref Val 0 0 0 0 Tes	tCode: Ef RunNo: 3: SeqNo: 98 %REC 109 116 113 115 117	2204 2204 84892 LowLimit 71.5 71.2 75.2 75.2 72.4 80 20 Method	8021B: Volat Units: mg/K HighLimit 122 123 130 131 120	íg %RPD	RPDLimit	Qual
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID 160	02665-002AMS Wall lorobenzene 02665-002AMSD	SampT Batch Analysis D Result 0.96 1.0 1.0 3.0 1.0 SampT	Date: 2/ PQL 0.044 0.044 0.044 0.044 0.088	2204 17/2016 SPK value 0.8842 0.8842 0.8842 2.653 0.8842 2.653 0.8842	F SPK Ref Val 0 0 0 0 0 Tes F	tCode: Ef RunNo: 3: SeqNo: 96 %REC 109 116 113 115 117 tCode: Ef	PA Method 2204 84892 LowLimit 71.5 71.2 75.2 72.4 80 PA Method 2204	8021B: Volat Units: mg/K HighLimit 122 123 130 131 120	kg %RPD	RPDLimit	Qual
Surr: 4-Bromofluc Sample ID 160 Client ID: S W Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID 160 Client ID: S W	02665-002AMS Wall lorobenzene 02665-002AMSD	SampT Batcl Analysis D Result 0.96 1.0 1.0 3.0 1.0 SampT Batcl Analysis D Result	Date: 2/ PQL 0.044 0.044 0.044 0.044 0.088	2204 17/2016 SPK value 0.8842 0.8842 0.8842 2.653 0.8842 2.653 0.8842 2204 17/2016 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	tCode: Ef RunNo: 3: SeqNo: 93 %REC 109 116 113 115 117 tCode: Ef RunNo: 3: SeqNo: 93 %REC	2204 2204 34892 LowLimit 71.5 71.2 75.2 72.4 80 2204 34893 LowLimit	8021B: Volat Units: mg/K HighLimit 122 123 130 131 120 8021B: Volat Units: mg/K HighLimit	Gg %RPD tiles Gg %RPD	RPDLimit	Qual
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date:	02665-002AMS Wall lorobenzene 02665-002AMSD	SampT Batch Analysis D Result 0.96 1.0 1.0 3.0 1.0 SampT Batch Analysis D	PQL 0.044 0.044 0.044 0.044 0.088 Type: MS bh ID: B3 Date: 2/	2204 17/2016 SPK value 0.8842 0.8842 0.8842 2.653 0.8842 2.653 0.8842 5D 2204 17/2016	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	tCode: EF RunNo: 3: SeqNo: 94 %REC 109 116 113 115 117 tCode: EF RunNo: 3: SeqNo: 95	PA Method 2204 84892 LowLimit 71.5 71.2 75.2 72.4 80 PA Method 2204 84893 LowLimit 71.5	8021B: Volat Units: mg/K HighLimit 122 123 130 131 120 8021B: Volat Units: mg/K HighLimit 122	5g %RPD tiles 5.18	RPDLimit 20	
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte	02665-002AMS Wall lorobenzene 02665-002AMSD	SampT Batcl Analysis D Result 0.96 1.0 1.0 3.0 1.0 SampT Batcl Analysis D Result	PQL 0.044 0.044 0.044 0.044 0.088 Type: MS 0 TD: B3 Date: 2/ PQL	2204 17/2016 SPK value 0.8842 0.8842 0.8842 2.653 0.8842 2.653 0.8842 2204 17/2016 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	tCode: Ef RunNo: 3: SeqNo: 93 %REC 109 116 113 115 117 tCode: Ef RunNo: 3: SeqNo: 93 %REC	PA Method 2204 84892 LowLimit 71.5 71.2 75.2 72.4 80 PA Method 2204 84893 LowLimit 71.5 71.2	8021B: Volat Units: mg/K HighLimit 122 123 130 131 120 8021B: Volat Units: mg/K HighLimit	5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	RPDLimit 20 20	
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene	02665-002AMS Wall lorobenzene 02665-002AMSD	SampT Batcl Analysis D Result 0.96 1.0 1.0 3.0 1.0 SampT Batcl Analysis D Result 0.91	PQL 0.044 0.044 0.044 0.044 0.088 Type: MS of ID: B3 Date: 2/ PQL 0.044	2204 17/2016 SPK value 0.8842 0.8842 0.8842 2.653 0.8842 2.653 0.8842 2204 17/2016 SPK value 0.8842	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	tCode: Ef RunNo: 3: SeqNo: 93 %REC 109 116 113 115 117 tCode: Ef RunNo: 3: SeqNo: 93 %REC 103	PA Method 2204 84892 LowLimit 71.5 71.2 75.2 72.4 80 PA Method 2204 84893 LowLimit 71.5 71.2 75.2	8021B: Volat Units: mg/K HighLimit 122 123 130 131 120 8021B: Volat Units: mg/K HighLimit 122	5.18 3.04 2.33	RPDLimit 20 20 20	
Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID 160 Client ID: S V Prep Date: Analyte Benzene Toluene	02665-002AMS Wall lorobenzene 02665-002AMSD	SampT Batcl Analysis D Result 0.96 1.0 1.0 3.0 1.0 3.0 1.0 SampT Batcl Analysis D Result 0.91 1.0	PQL 0.044 0.044 0.044 0.044 0.088 Type: MS of ID: B3 Date: 2/ PQL 0.044 0.044	2204 17/2016 SPK value 0.8842 0.8842 0.8842 2.653 0.8842 2.653 0.8842 2204 17/2016 SPK value 0.8842 0.8842	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0 0	tCode: Ef RunNo: 3: SeqNo: 9 %REC 109 116 113 115 117 tCode: Ef RunNo: 3: SeqNo: 9 %REC 103 113	PA Method 2204 84892 LowLimit 71.5 71.2 75.2 72.4 80 PA Method 2204 84893 LowLimit 71.5 71.2	8021B: Volat Units: mg/K HighLimit 122 123 130 131 120 8021B: Volat Units: mg/K HighLimit 122 123	5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	RPDLimit 20 20	

#### Qualifiers:

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

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19-Feb-16

WO#: 1602665

QC DUMMINI INI INI UNI	
Hall Environmental Analysis Laboratory	, Inc.

WO#: **1602665** *19-Feb-16* 

Client: Project:	Williams Newsom	Four Corr 2	ners											
Sample ID	MB-23786	SampT	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID:	PBS	Batcl	h ID: 23	786	F	RunNo: 3	2245							
Prep Date:	2/17/2016	Analysis D	Date: 2/	18/2016	5	SeqNo: 9	85887	Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		ND	0.050											
Toluene		ND	0.050											
Ethylbenzene		ND	0.050											
Xylenes, Total		ND	0.10											
Surr: 4-Bron	nofluorobenzene	1.0		1.000		104	80	120						
Sample ID	LCS-23786	SampT	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles					
Client ID:	LCSS	Batcl	h ID: 23	786	F	RunNo: 3	2245							
Prep Date:	2/17/2016	Analysis D	Date: 2/	18/2016	5	SeqNo: 9	85888	Units: mg/k	٢g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		1.1	0.050	1.000	0	114	80	120						
Toluene		1.2	0.050	1.000	0	118	80	120						
Ethylbenzene		1.1	0.050	1.000	0	115	80	120						
Xylenes, Total		3.4	0.10	3.000	0	114	80	120						
Surr: 4-Bron	nofluorobenzene	1.1		1.000		114	80	120						
Sample ID	1602665-006AMS	SampT	Type: MS	6	Tes	tCode: El	PA Method	8021B: Vola	tiles					
Client ID:	Wash	Batch	h ID: 23	786	F	RunNo: 3	2245							
Prep Date:	2/17/2016	Analysis D	Date: 2/	18/2016	5	SeqNo: 9	85890	Units: mg/k	۲g		1			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		1.2	0.049	0.9737	0	121	71.5	122						
Toluene		1.3	0.049	0.9737	0	129	71.2	123			S			
Ethylbenzene		1.2	0.049	0.9737	0	126	75.2	130						
Xylenes, Total		3.7	0.097	2.921	0	125	72.4	131						
Surr: 4-Bron	nofluorobenzene	1.1		0.9737		116	80	120						
Sample ID	1602665-006AMSE	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles					
Client ID:	Wash	Batch	h ID: 23	786	F	RunNo: 3	2245							
Prep Date:	2/17/2016	Analysis D	)ate: 2/	18/2016	5	SeqNo: 9	85891	Units: mg/M	(g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		1.2	0.049	0.9775	0	123	71.5	122	1.60	20	S			
Toluene		1.3	0.049	0.9775	0	133	71.2	123	3.68	20	S			
Ethylbenzene		1.3	0.049	0.9775	0	131	75.2	130	4.57	20	S			
Xylenes, Total		3.8	0.098	2.933	0	130	72.4	131	4.07	20				
Surr: 4-Brom	ofluorobenzene	1.1		0.9775		116	80	120	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
- Page 12 of 12

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.ha	4901 Hawkins Iquerque, NM 87 FAX: 505-345-41		ple Log-In Cł	eck List
Client Name: WILLIAMS FOUR CORN	Work Order Number.	1602665		RcptNo:	1
Received by/date: AT 02/17//	6				
Logged By: Anne Thorne	2/17/2016 7:50:00 AM		anne Hom	-	
Completed By: Anne Thorne	2/17/2016		ame Am	-	
Reviewed By:	02/17/16		Carle Jour		
Chain of Custody	00111110				
1. Custody seals intact on sample bottles?		Yes	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🖌	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool the samples	?	Yes 🗹	No 🗌		
5. Were all samples received at a temperatur	e of >0° C to 6.0°C	Yes 🗹	No 🗌		
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated test	(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) prope	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 brok	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	f Custody?	Yes 🗹	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🗹	No 🗌		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicable)					
16. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	

n Person
reisuit

17. Additional remarks:

4

18. Cooler Information

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

Page 1 of 1

lient: ailing	Kelse Willin Address Bloom P	Y CI NMS F 188 R Held, N	Istody Record nvistiansen our Corners Coad 4900 IM 87413 5-1096	Turn-Around Wath - Stand D Standard Project Name Neu Project #:	Time: Al lava Al <b>Rush</b> :: JSOM 2	1 Others Same 2/17/16 Day				A	NA www. ns NB	halle E - 75	YS envii Albu Fa	ronr uque	<b>5 L</b> ment erque	AE al.co e, NI	30 om M 87 -4107	109		AL	r
Mail or A/QC F Stan ccredi	r Fax#: ∮ Package: dard tation	(élsey.	<u>Christiansen@Williamŝ</u> , com □ Level 4 (Full Validation) r	ASUle Sampler: M On lice Sample Tem	y Ager	hckev No		BE + TPH (Gas only)	(GRO / DRO / MERC)	od 418.1)	od 504.1)	SIMS)		Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's				~		(Y or N)
Date	Time	Matrix	Sample Request ID	ACONTAINER Type and # Meatl Krb	Preservative Type	HEAL NO.	BTEX + MTBE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,C	8081 Pestic	8260B (VOA)	8270 (Semi-VOA)	-	( hlondes		Air Bubbles (Y or N)
6-16	1425	Soil	N-Wall	2 Javs	Cool	-201	1		-							2		_			
+	1415		S-Wall			202					_	_	_	_					Ц_	+	$\vdash$
	1420		E-Wall			013					_		-+							_	
-	1416		W- Wall			-704	11_			_	$\rightarrow$	_	_								
	1435		totasta Boitom			705	1					_			-1 x					$\perp$	
$\vee$	1430	V	Wash	$\Psi$	V	7006	V		V		+	-	+						<u>v</u>	+-	
												_									
											+									+	
			1 11 12	_	1																
ate: 5~16	Time:	Relinquishe	hill	Received by:	Jolt	Date Time 2/16/14 )614		nark	s: (	CC:	N/	NW 4 An	evi	Cer A	O I_T	LT	En	1.20 M	m		
	Time:	Relinquishe	ed by: A WALLEX mitted to Hall Environmental may be subt	Received by:	mo	Date Time 02/17/16 0750												e i i denome d			

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 8, 2011

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

4

API No.

#### **Release Notification and Corrective Action**

OPERATOR	🛛 Initial Report	Final Report
Contact Michael Hannan		
Telephone No. 505-632-4807		
Facility Type Compressor Station	1	
	ContactMichael HannanTelephone No.505-632-4807	Contact Michael Hannan

Surface Owner Bureau of Land Management Mineral Owner

#### LOCATION OF RELEASE

Unit Letter M	Section	Township 30N	Range 9W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
M	1	5014	211					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			
	10/24/16, 11:20 PM MT	10/24/16, 11:20 PM MT			
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 Watercourse.				
🗌 Yes 🖾 No		OIL CONS. DIV DIST. 3			
If a Watercourse was Impacted, Describe Fully.*					
Not Applicable		NOV 0 4 2016			
Describe Cause of Problem and Remedial Action Taken.*					
A gas detection caused a station to ESD. 103.78 MCF of Natural Gas released due to ESD.					
Describe Area Affected and Cleanup Action Taken.*					
No clean-up required for natural gas releases vented to atmosphere.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Signature: Mu	OIL CONSERA	ATION DIVISION			
Printed Name: Michael Hannan	Approved by Environmental Specialist				
Title: Engineer, Sr.	Approval Date: DIADO Expiration Date:				
E-mail Address: michael.hannan@williams.com	Conditions of Approval:	Attached			
Date: 11/01/16 Phone: 505-632-4807	NVF16344321	99			

\* 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

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Surface Owner Bureau of Land Management Mineral Owner

API No.

#### LOCATION OF RELEASE

tter Section Township Range 1 30N 9W	Feet from the North/South Line	Feet from the East/West Line	County San Juan
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Latitude 36.81754° N Longitude 107.49144° W

#### NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 2,550 MCF	Volume Recovered 0 MCF			
Source of Release Pressure Regulator Vent	Date and Hour of Occurrence	Date and Hour of Discovery			
	11/28/16, 10:19 PM MT	11/29/16, 2:00 PM MT			
Was Immediate Notice Given?	If YES, To Whom?				
🛛 Yes 🗌 No 🗌 Not Required	Cory Smith (NMOCD)				
	Whitney Thomas (BLM)				
By Whom? Michael Hannan	Date and Hour: NMOCD 11/30/16 1	0:20 AM MT (voice mail); BLM 11/30/16			
	10:23 PM MT (voice mail)				
Was a Watercourse Reached?	10:23 PM MT (voice mail) If YES, Volume Impacting the Wate	TCONFE. CONC DIVIDION			
🗌 Yes 🖾 No		OIL CONS. DIV DIST. 3			
If a Weterstein Describe Fulle *					
If a Watercourse was Impacted, Describe Fully.*		DEC 06 2016			
Not Applicable Describe Cause of Problem and Remedial Action Taken.*		220 00 2010			
	to he continue of Le Terre and interesting of	manual aminud anaite at 2:00 PM. The			
On 11/29/16, the 3 phase separator pressure regulator vent was observed					
suction scrubber VS-10302 level control valve (LV-10302B) was stuck in					
phase separator, where it was vented through the 4" pressure regulator for PM, and the venting was stopped. The level control valve most likely stud					
PM the previous evening. Liquids pushed by the pig would've generated Once the liquid level was properly drained, the liquid level control value					
The vented volume is estimated at 15.67 hours x 163 MSCFH = $2.55$ MM		to enter the 5 phase separator.			
		areannal immediately responded by			
Normal personnel operating rounds led to the discovery of the event, thus adjusting the level control valve to restore normal function.	s minimizing the duration. Operations p	ersonner immediately responded by			
	trol valve with a newer more reliable a	ontrol valve assembly			
After this recurrence, Williams is taking steps to replace the old level control valve with a newer, more reliable control valve assembly. Describe Area Affected and Cleanup Action Taken.*					
Desenve Area Anecieu and Cleanup Action Taken.					
No clean-up required for natural gas releases vented to atmosphere.					
no orean ap required for natural gas releases vented to annosphere.					
I hereby certify that the information given above is true and complete to t	he best of my knowledge and understan	d that pursuant 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 does not relieve the operator of responsibility for compliance with any other					
federal, state, or local laws and/or regulations.					
11.	OIL CONSERV	ATION DIVISION			
Signature:	OIL CONSERV	ATION DIVISION			
Printed Name: Michael Hannan	Approved by Environmental Specialist	110200			
	Approved by Environmental Specialist	Un ins			
Title Engineer Sr	Approval Date: 219 206 H	Surfaction Date:			
Title: Engineer, Sr.	Approval Date: 01000 1	Expiration Date:			
E mail Addresser michael hannen@williams.com	Conditions of Approval:				
E-mail Address: michael.hannan@williams.com	Conditions of Approval:	Attached			
Date: 12/1/16 Phone: 505-632-4807	NVF16244221	80			
	111. 201 1.000				
Attach Additional Sheets If Necessary					