3R-1013

Release Report/ General Correspondence

Williams SJ

Date: Apr-Jun 2016



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

APR 0 5 2016

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.

							orrective A	CELOIR	0/		
						OPERA'	TOR	₩	Initia	al Report	Final Re
		Villiams Fou				Contact	Mitch Morris				
			oomfield	, NM 87413			No. 505-632-47				
Facility Na	me Buena	Vista				Facility Typ	e Compressor	Station			
Surface Ov	vner Burea	u of Land M	1anageme	ent Mineral (Owner			A	PI No).	
				LOC	ATION	OF RE	LEASE				
Unit Letter A	Section 32	Township 24N	Range 8W	Feet from the		South Line	Feet from the	East/West	Line	County San Juan	
				Latitude	e <u>36.275</u>	6 Longitud	le <u>-107.698</u>				
				NAT	FURE	OF REL	EASE				
	ease Natura					Volume of	Release 328.51	MCF		ıme Recover	
Source of Re	elease Valve	e					Hour of Occurrence	e		and Hour of	
Was Immed	iate Notice (Given?				If YES, To	10:00 AM Whom?		3/14	/2016, 10:00	AM
ii do minio	s Immediate Notice Given? ☐ Yes ☐ No ☒ Not Requ						whom:				
By Whom?	Whom? N/A						Hour N/A				
Was a Water	rcourse Read						olume Impacting	he Watercou	urse.		
			Yes 🗵	No		N/A					
		em and Reme			g natural	gas to vent a	t the hydrocarbon	liquid stora	ge tank	. The valve	was closed as so
A valve on a as this disco	n inlet scrub very was ma	ober was inad	vertently leng the gas	eft open, allowing release to atmosp		gas to vent at	t the hydrocarbon	liquid storaș	ge tank	. The valve	was closed as so
A valve on a as this disco	ea Affected required with the influence of the environment. In a	and Cleanup A h gas release to information giver required to ronment. The	Action Takes of atmosphilic acceptance adequately OCD accept	eft open, allowing release to atmosp cen.* ers is true and compador file certain record a C-141 reprinted and record and	olete to the release no ort by the remediate	ne best of my otifications as with NMOCD mes contaminati	knowledge and und perform correct arked as "Final R on that pose a three the operator of	nderstand th tive actions eport" does eat to ground responsibilit	nat purs for rek not reli d water y for co	suant to NMC eases which n ieve the opera- r, surface wat ompliance w	OCD rules and may endanger ator of liability ter, human health ith any other
A valve on a as this disco	an inlet scrub very was ma ea Affected required with ify that the ill operators or the envi- operations homent. In a cor local law	and Cleanup A h gas release to information giver required to ronment. The	Action Takes of atmosphility and atmosphility acceptance adequately OCD accept	eft open, allowing release to atmosp cen.* ers is true and compador file certain record a C-141 reprinted and record and	olete to the release no ort by the remediate report do	ne best of my otifications and NMOCD me contaminations not reliev	knowledge and und perform correct arked as "Final R on that pose a three the operator of OIL CON	nderstand the tive actions eport does at to ground responsibility	nat purs for rek not reli d water y for co	suant to NMC eases which n ieve the opera- r, surface wat ompliance w	OCD rules and may endanger ator of liability ter, human health ith any other
A valve on a as this disco	an inlet scrub very was ma ea Affected required with ify that the ill operators or the envi- operations homent. In a cor local law	and Cleanup And agas release to the same required to a same regular to a same regular to many and/or regular to a same r	Action Takes of atmosphility and atmosphility acceptance adequately OCD accept	eft open, allowing release to atmosp cen.* ers is true and compador file certain record a C-141 reprinted and record and	olete to the release no ort by the remediate report do	ne best of my otifications and NMOCD me contaminations not reliev	knowledge and und perform correct arked as "Final R on that pose a three the operator of	nderstand the tive actions eport does at to ground responsibility	nat purs for rek not reli d water y for co	suant to NMC eases which i ieve the opera- r, surface wat ompliance w	OCD rules and may endanger ator of liability ter, human health ith any other
A valve on a as this disco	ea Affected required with the idl operators or the environment. In a control of the idl operators of the environment of the idl operators of the environment. In a control of the idl operators of the environment operations humanity or local law.	and Cleanup of h gas release to the same required to a to the same failed to the	Action Takes of atmosphility and atmosphility acceptance adequately OCD accept	eft open, allowing release to atmosp cen.* ers is true and compador file certain record a C-141 reprinted and record and	olete to the release no ort by the remediate report do	ne best of my otifications and NMOCD me contaminations not reliev	knowledge and und perform correct arked as "Final R on that pose a three the operator of OIL CON Environmental S	nderstand the tive actions eport" does eat to ground responsibility	nat purs for rek not reli d water y for co	suant to NMO eases which releve the operary, surface wat compliance with	OCD rules and may endanger ator of liability ter, human health ith any other
A valve on a as this disconnection of the second of the se	ea Affected required with the infly that the infly	and Cleanup of h gas release to the same required to a to the same failed to the	Action Takes at a control of the gas of the	eft open, allowing release to atmosp cen.* ers is true and compador file certain record a C-141 reprinted and record and	olete to the release no ort by the remediate report do	ne best of my otifications and e NMOCD me e contamination oes not reliev	knowledge and und perform correct arked as "Final R on that pose a three the operator of OIL CON Environmental S	nderstand the tive actions eport" does eat to ground responsibility	nat purs for rele not reli d water y for co	suant to NMO eases which releve the operary, surface wat compliance with	OCD rules and may endanger ator of liability er, human health ith any other

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State of New Mexico Energy Minerals and Natural Resources

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

Release Notification and Corrective Action

APR 1 1 2016

Form C-141 Revised August 8, 2011

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

						OPERA'			Initi	al Report		Final Rep
		Villiams Fou				Contact	Matt Webre					
		o Drive, Blo	omfield, l	NM 87413			No. 505-632-44					
Facility Na	me Milagi	ro Gas Plant				Facility Typ	e Gas Treatin	g Plant				
Surface Ow	ner Privat	te		Minera	l Owner				API No	D.		
				LOC	CATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/\	West Line	County		
0	12	29N	11W							San Juan		
			I	atitude 36.7	35966° N	Longitud	e - <u>107.942329</u> °	W				
				NA	TURE	OF REL	EASE					
Type of Rele	ase Natura	al Gas				Volume of	Release 59 MC	F		Recovered 0		
Source of Re	elease Regu	ilator/Valve					Hour of Occurrence t 1:31 PM MST	ce		Hour of Diseat 1:31 PM		
Was Immedi	ate Notice (If YES, To			02/04/10	ut 1.511141	101	
	☐ Yes ☐ No ☒ Not Requi											
By Whom?							Hour NA					
Was a Water	as a Watercourse Reached? Yes No						olume Impacting	the Wat	ercourse.			
		em and Reme										
Operator disc service. The	covered regi release was	ulator leaking	on inlet sa have occur	imple location red over a perio			e was no longer n mately 59 MCF v					
Operator disc service. The Describe Are	covered regi release was	ulator leaking estimated to l	on inlet sa have occur Action Tak	imple location red over a perio	od of 3 we							
Operator disc service. The Describe Are No clean-up I hereby cert regulations a public health should their of or the enviro	required for ify that the i ill operators or the environment. In a	ulator leaking estimated to land Cleanup A ratural gas re information gives are required to ronment. The nave failed to a	on inlet sa have occur Action Tak eleases ver iven above o report an acceptance adequately OCD accep	is true and cor d/or file certain e of a C-141 re investigate and	nere. In release neport by the diremediate	the best of my notifications a ne NMOCD mete contaminati	knowledge and und perform correctarked as "Final Rights on that pose a three the operator of	understar ctive act teport" deat to gr	nd that pursions for rel does not rel round wate ibility for c	suant to NM0 leases which lieve the oper r, surface was	OCD ru may enc ator of tter, hun vith any	les and langer liability
Operator disc service. The Describe Are No clean-up hereby cert regulations a public health should their or or the enviro	required for ify that the i ill operators or the environment. In a	ulator leaking estimated to land Cleanup A ratural gas re information gi are required to ronment. The nave failed to a addition, NMC	on inlet sa have occur Action Tak eleases ver iven above o report an acceptance adequately OCD accep	is true and cor d/or file certain e of a C-141 re investigate and	nere. In release neport by the diremediate	the best of my notifications a ne NMOCD mete contaminati	knowledge and und perform correctarked as "Final Right from that pose a thr	understar ctive act teport" deat to gr	nd that pursions for rel does not rel round wate ibility for c	suant to NM0 leases which lieve the oper r, surface was	OCD ru may enc ator of tter, hun vith any	les and langer liability
Operator disc service. The Describe Are No clean-up I hereby cert regulations a public health should their of or the enviro	required for ify that the i ill operators or the environment. In a	ulator leaking estimated to land Cleanup A ratural gas re information gi are required to ronment. The nave failed to a addition, NMC	on inlet sa have occur Action Tak eleases ver iven above o report an acceptance adequately OCD accep	is true and cor d/or file certain e of a C-141 re investigate and	nere. In release neport by the diremediate	the best of my notifications a ne NMOCD mete contaminati	knowledge and und perform correctarked as "Final Rights on that pose a three the operator of	understar ctive act teport" deat to gr	nd that pursions for rel does not rel round wate ibility for c	suant to NM0 leases which lieve the oper r, surface was	OCD ru may enc ator of tter, hun vith any	les and langer liability nan health
Describe Are No clean-up Thereby certifications a public health should their or the environment of the envir	required for iffy that the iffy that the interpretations in the environment. In a control or in the environment, in a control or in the environment. In a control or in the environment is the environment of the env	ulator leaking estimated to land Cleanup Ar natural gas reinformation gi are required to ronment. The nave failed to a addition, NMC was and/or regu	on inlet sa have occur Action Tak eleases ver iven above o report an acceptance adequately OCD accep	is true and cor d/or file certain e of a C-141 re investigate and	nere. Implete to the release neport by the diremediate the report direction of the report direction o	the best of my notifications a ne NMOCD m the contamination	knowledge and und perform correctarked as "Final Rights on that pose a three the operator of	understanctive act teport" deat to great to grespons	and that pursions for rel does not rel round wate ibility for c	suant to NM0 leases which lieve the oper r, surface was	OCD ru may enc ator of tter, hun vith any	les and langer liability nan health
Operator disc service. The Describe Are No clean-up Thereby certifications a public health should their of the enviro- cederal, state	required for iffy that the iffy that the iffy that the interpretations in the environment. In a control of the environment, and it is in the interpretations in the environment. In a control law in the interpretation in the environment. In a control law in the interpretation in the inte	ulator leaking estimated to land Cleanup Ar natural gas reinformation gi are required to ronment. The nave failed to addition, NMC was and/or regulators.	on inlet sa have occur Action Tak eleases ver iven above o report an acceptance adequately OCD accep	is true and cor d/or file certain e of a C-141 re investigate and	nere. Implete to the release neport by the dremediate of the report described in the report described	the best of my notifications a ne NMOCD m the contamination	knowledge and und perform correct arked as "Final Right on that pose a three the operator of OIL CON	understantive active ac	and that pursions for rel does not rel round wate ibility for c	suant to NM0 eases which ieve the oper r, surface wa compliance w	OCD ru may enc ator of tter, hun vith any	les and langer liability nan health
Describe Are Describe Are No clean-up Thereby certifications a public health should their or the environmental, state. Printed Name Title: EH&S	required for iffy that the iffy that the iffy that the interpretations in the environment. In a condition or local law we. Matt We	ulator leaking estimated to land Cleanup Ar natural gas reinformation gi are required to ronment. The nave failed to addition, NMC was and/or regulators.	on inlet sa have occur Action Tak eleases ven iven above o report an acceptance adequately OCD acceptalations.	is true and cor d/or file certain e of a C-141 re investigate and	nplete to the release neport by the dremediate of the report desired to the report desir	the best of my notifications a le NMOCD me te contamination of reliev	knowledge and und perform correctarked as "Final Right on that pose a three the operator of OIL CON Environmental Stee: 512124	understantive active ac	and that pursions for relidees not relivently for control of the c	suant to NM0 eases which ieve the oper r, surface wa compliance w	OCD rumay endrator of later, hunvith any	les and langer liability nan health

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Revised August 8, 2011

Form C-141

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Release Notification and Corrective Action

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

						OPERA	ГOR		Initi	al Report	\bowtie	Final Re
Name of Co	ompany W	illiams Four	Corners	LLC		Contact	Monica Sando	oval				
Address			oomfield,	NM 87413			No. 505-632-46	525				
Facility Na	me La	iteral N-2				Facility Typ	e Pipeline					
Surface Ow Wildlife Ar		al- Middle N	1esa	Mineral (Owner				API No).		
				LOCA	ATIO	OF RE	LEASE					
Unit Letter	Section 32	Township 32N	Range 6W	Feet from the		South Line	Feet from the	East/V	Vest Line	County San Juan	1	
				Latitude (36.9379	Longitud	e <u>-107.4811</u>					
				NAT	TURE	OF REL	EASE					
Type of Rele	ase Natura	l Gas				Volume of	Release 250 MC	CF		Recovered 0		
							lour of Occurrence 8:59AM MST	ce		Hour of Dise 6, 8:59AM M		
	s Immediate Notice Given? ☐ Yes ☐ No ☒ Not Requ Whom?						Whom?			OIL CONS	DIV	DIST.
By Whom?							lour					
Was a Water	whom? as a Watercourse Reached? ☐ Yes ☒ No						olume Impacting to cable	the Wate	ercourse.	MAY	18	2016
a valve open Describe Are	To preven		Williams	's personnel rem			at cows had recer he piping.	itty been	moved to	the area and	a cow	nad bump
I hereby cert regulations a public health	ify that the i	nformation gi are required t	ven above	is tour and some								
or the enviro	nment. In a	ave failed to a	acceptand dequately CD accep	nd/or file certain re te of a C-141 repo investigate and r	release nort by the remediate	otifications a e NMOCD m e contaminati	knowledge and und perform correct arked as "Final R on that pose a three the operator of	ctive acti eport" d eat to gr	ons for rel oes not rel ound water	eases which ieve the oper r, surface wa	may er ator of ter, hu	danger liability man healt
or the enviro federal, state Signature:	nment. In a or local law	ave failed to a ddition, NMC ws and/or regu	acceptand dequately CD accep	nd/or file certain re te of a C-141 repo investigate and r	release nort by the remediate report de	otifications a e NMOCD m e contaminati oes not reliev	nd perform correct arked as "Final R on that pose a three the operator of OIL CON Environmental S	etive active period de la contractive de la cont	ons for reliones not relioned water bility for control	eases which ieve the oper r, surface wa ompliance w	may er rator of ter, hu rith any	danger liability man healtl
or the environgederal, state. Signature:	Noncas e: Monica S	ave failed to a ddition, NMC ws and/or regu and/oval	acceptand dequately CD accep	nd/or file certain re te of a C-141 repo investigate and r	release nort by the	otifications a e NMOCD m e contamination oes not reliev Approved by	on that pose a three the operator of OIL CON Environmental S	etive active active port" detective active port" detective per seponsion si seponsion	ons for relices not relices not relices not relices not relices not relices out out water bility for control of the control of	eases which ieve the oper r, surface was ompliance w	may er rator of ter, hu rith any	danger liability man health
Signature: Printed Name	NMCOS e: Monica S onmental Sp	ave failed to a ddition, NMC ws and/or regu and/or regu andoval	acceptance adequately OCD acceptalations.	ad/or file certain ree of a C-141 repoinvestigate and retained of a C-141	release nort by the	otifications a e NMOCD m e contamination oes not reliev Approved by	on that pose a three the operator of OIL CON Environmental S te: 1512016	etive active active port" detective active port" detective per seponsion si seponsion	ons for reliones not relioned water bility for control	eases which ieve the oper r, surface was ompliance w	may er rator of ter, hu rith any	danger liability man healtl
Signature: Printed Name	NMCOS e: Monica S onmental Sp	ave failed to a ddition, NMC ws and/or regu and/oval	acceptance adequately OCD acceptalations.	ad/or file certain ree of a C-141 repoinvestigate and retained of a C-141	release nort by the	otifications a e NMOCD m e contamination oes not reliev Approved by	on that pose a three the operator of OIL CON Environmental S te: 1512016	etive active active port" detective active port" detective per seponsion si seponsion	ons for relices not relices not relices not relices not relices not relices out out water bility for control of the control of	eases which ieve the oper r, surface was ompliance w	may er ator of ter, hu vith any	danger liability man healtl

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			Rel	ease Notific	catio	n and Co	rrective A	ction	
						OPERA'	FOR	₩ Ir	nitial Report
		illiams Fou				Contact	Mitch Morris		
		yo Dr, Bloor	nfield, N	M 87413			No. 505-632-47		alina
Facility Na	me Irunk	Q Pipeline				Facility Typ	e Natural Gas	Gathering Pip	enne
Surface Ow	ner BLM			Mineral (Owner			API	No.
				LOCA	ATIO	N OF RE	LEASE		
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	e County		
0	28	26N	08W						San Juan
				Latitude 36.34	1494° N	Longitud	107 660 97 ° V	X/	
						OF REL		···	
Type of Rele	ase Conde	nsate and Nati	ural Gas	1112	CILL		Release Approx	imately 5	Volume Recovered Approx. 5
					*		ensate and 140 M		bbls of condensate
Source of Re	urce of Release Pipeline						Iour of Occurrence 11:30 AM MST		Date and Hour of Discovery 04/22/16 at 11:30 AM MST
Was Immedi	as Immediate Notice Given?						Whom?		04/22/10 at 11.50 AW W51
			Yes [No Not R	equired	Not Applie	able		
By Whom?						Date and F			OIL CONS. DIV DIST. 3
Was a Water	course Read		Yes 🗵	1 No		Not Applie	lume Impacting t	the Watercourse	
						Not Applie	abic		MAY 1 8 2016
Not Applical		pacted, Descr	ibe Fully.	•					
Describe Car	use of Probl	em and Reme							
Williams Op down to atm			driving in	the vicinity of the	Trunk	Q Pipeline an	d noticed a leak.	The pipeline wa	s immediately shut-in and blown
		and Cleanup	Action Ta	ken.*					4
A crew was	immediately	dispatched to	o commen	ce cleanup and re	pair of t	the pipeline. A	Attached are the se	oil analytical res	sults demonstrating that
concentration	ns are belov	v the NMOCE	cleanup	standards.					
									oursuant to NMOCD rules and
									releases which may endanger relieve the operator of liability
									ater, surface water, human health
or the enviro	nment. In a	ddition, NMC	OCD accep						or compliance with any other
federal, state	, or local la	ws and/or regi	ulations.				OIL CON	SERVATIO	ON DIVISION
			1.	,			OIL CON	SLKVATIO	N DIVISION
	-//	11/	111						
Signature:	Mhu	ul a	Man	4		Approved by	Environmental S	pecialist:	
Printed Nam							bas	ASSO I	
Title: Enviro	onmental S	pecialist				Approval Da			on Date:
E-mail Addr	ess: Mitch.	Morris@willi	ams.com			Conditions o	Approval:	,	Attached

Phone: 505-632-4708

05/06/2016 * Attach Additional Sheets If Necessary

NVF1614137666





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

OrderNo.: 1605107

May 05, 2016

Mitch Morris Williams Field Services 188 Co. Rd 4900 Bloomfield, NM 87413 TEL: FAX

RE: Trunk Q Line Leak

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/4/2016 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 www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/5/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Trunk Q Side Comp Site

Project: Trunk Q Line Leak

Collection Date: 5/3/2016 10:20:00 AM

Lab ID: 1605107-001

Matrix: SOIL

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst: KJH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/4/2016 12:08:07 PM
Surr: DNOP	99.0	70-130	%Rec	1	5/4/2016 12:08:07 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	5/4/2016 10:06:46 AM
Surr: BFB	92.6	80-120	%Rec	1	5/4/2016 10:06:46 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.022	mg/Kg	1	5/4/2016 10:06:46 AM
Toluene	ND	0.044	mg/Kg	1	5/4/2016 10:06:46 AM
Ethylbenzene	ND	0.044	mg/Kg	1	5/4/2016 10:06:46 AM
Xylenes, Total	ND	0.087	mg/Kg	1	5/4/2016 10:06:46 AM
Surr: 4-Bromofluorobenzene	93.4	80-120	%Rec	1	5/4/2016 10:06:46 AM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	63	30	mg/Kg	20	5/4/2016 11:39:45 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/5/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Trunk Q Bottom Comp Site

Trunk Q Line Leak Project:

Collection Date: 5/3/2016 10:30:00 AM

Lab ID: 1605107-002

Matrix: SOIL

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/4/2016 12:30:35 PM
Surr: DNOP	100	70-130	%Rec	1	5/4/2016 12:30:35 PM
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	5/4/2016 10:30:11 AM
Surr: BFB	93.4	80-120	%Rec	1	5/4/2016 10:30:11 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	5/4/2016 10:30:11 AM
Toluene	ND	0.041	mg/Kg	1	5/4/2016 10:30:11 AM
Ethylbenzene	ND	0.041	mg/Kg	1	5/4/2016 10:30:11 AM
Xylenes, Total	ND	0.083	mg/Kg	1	5/4/2016 10:30:11 AM
Surr: 4-Bromofluorobenzene	93.9	80-120	%Rec	1	5/4/2016 10:30:11 AM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	5/4/2016 11:52:10 AM

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

- 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
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/5/2016

CLIENT: Williams Field Services

Client Sample ID: Trunk Q Off of Row

Project: Trunk Q Line Leak

Collection Date: 5/3/2016 10:45:00 AM

Lab ID: 1605107-003

Matrix: SOIL

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst: KJH
Diesel Range Organics (DRO)	14	9.5	mg/Kg	1	5/4/2016 12:52:31 PM
Surr: DNOP	98.8	70-130	%Rec	1	5/4/2016 12:52:31 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	5/4/2016 10:53:34 AM
Surr: BFB	94.9	80-120	%Rec	1	5/4/2016 10:53:34 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.022	mg/Kg	1	5/4/2016 10:53:34 AM
Toluene	ND	0.044	mg/Kg	1	5/4/2016 10:53:34 AM
Ethylbenzene	ND	0.044	mg/Kg	1	5/4/2016 10:53:34 AM
Xylenes, Total	ND	0.089	mg/Kg	1	5/4/2016 10:53:34 AM
Surr: 4-Bromofluorobenzene	95.4	80-120	%Rec	1	5/4/2016 10:53:34 AM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	5/4/2016 12:04:35 PM

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

- 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 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605107

05-May-16

Client:

Williams Field Services

Project:

Trunk Q Line Leak

Sample ID MB-25147

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 25147

RunNo: 34005

HighLimit

Prep Date: 5/4/2016

Analysis Date: 5/4/2016

SeqNo: 1047798

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

Result

Sample ID LCS-25147

SampType: LCS

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 25147

RunNo: 34005

Prep Date: 5/4/2016

Result

SeqNo: 1047799

Units: mg/Kg

Analyte

Analysis Date: 5/4/2016

Qual

PQL SPK value SPK Ref Val %REC

94.3

Chloride

1.5

%RPD

15.00

LowLimit

HighLimit 110 %RPD

RPDLimit

Qualifiers:

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

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605107

05-May-16

Client:

Williams Field Services

Project:

Trunk Q Line Leak

Sample ID LCS-25140	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	n ID: 25	140	R	tunNo: 3	3966						
Prep Date: 5/4/2016						SeqNo: 1047132 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	46	10	50.00	0	93.0	65.8	136					
Surr: DNOP	4.7		5.000		94.2	70	130					

Sample ID MB-25140	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	h ID: 25	140	F	RunNo: 3	3966				
Prep Date: 5/4/2016	Analysis D	Date: 5/	4/2016	S	SeqNo: 1	047133	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.8		10.00		97.9	70	130			

Sample ID 16051	07-001AMS	SampType:	MS	Tes	stCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: Trunk	Q Side Comp	Batch ID:	25140	1	RunNo: 3	3966				
Prep Date: 5/4/2	2016 A	nalysis Date:	5/4/2016		SeqNo: 1	047158	Units: mg/K	g		
Analyte		Result PO	QL SPK valu	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO)	51	9.5 47.7	1 0	108	33.9	141			
Surr: DNOP		4.6	4.77	1	95.4	70	130			

Sample ID 1	1605107-001AMSD	SampTy	pe: MS	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: 1	Trunk Q Side Com	p Batch	ID: 25	140	F	RunNo: 3	3966				
Prep Date:	5/4/2016	Analysis Da	ate: 5/	/4/2016	S	SeqNo: 1	047160	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	ganics (DRO)	51	9.8	48.88	0	105	33.9	141	0.409	20	
Sur: DNOP		4.6		4.888		94.7	70	130	0	0	

- * 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 5 of 7

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605107

05-May-16

Client:

Williams Field Services

Project:

Trunk Q Line Leak

Sample ID MB-25130	Samp	Type: ME	BLK	Test	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batcl	h ID: 25	130	R	RunNo: 3	3977				
Prep Date: 5/3/2016	Analysis D	Date: 5/	4/2016	S	SeqNo: 1	047281	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.4	80	120			

Sample ID LCS-25130	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: LCSS	Batch	n ID: 25	130	R	RunNo: 3	3977				
Prep Date: 5/3/2016	Analysis D	ate: 5/	4/2016	S	SeqNo: 1	047282	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.8	80	120			
Surr: BFB	970		1000		97.2	80	120			

Qualifiers:

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

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605107

05-May-16

Client:

Williams Field Services

Project:

Trunk Q Line Leak

Sample ID LCS-25130		ype: LC		MBC			8021B: Volat			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	80	120			
Xylenes, Total	ND	0.10								
Ethylbenzene	ND	0.050								
Toluene	ND	0.050								
Benzene	ND	0.025								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 5/3/2016	Analysis [Date: 5/	4/2016	8	SeqNo: 1	047315	Units: mg/K	(g		
Client ID: PBS	Batc	n ID: 25	130	F	RunNo: 3	3977				
Sample ID MB-25130	Samp	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		

Sample ID LCS-25130	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 25	130	F	RunNo: 3	3977				
Prep Date: 5/3/2016	Analysis [Date: 5/	4/2016	8	SeqNo: 1	047316	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	75.3	123			
Toluene	0.93	0.050	1.000	0	93.3	80	124			
Ethylbenzene	0.88	0.050	1.000	0	88.0	82.8	121			
Xylenes, Total	2.6	0.10	3.000	0	87.2	83.9	122			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	80	120			

Qualifiers:

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

Page 7 of 7



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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI	Work Order Number	: 1605107		RcptNo:	1
Received by/date: 1 M 05/	104/16				
Logged By: Anne Thorne	5/4/2016 7:55:00 AM		anne Am	_	
Completed By: Anne Thorne	5/4/2016		anne Am	-	
Reviewed By:	05/04/16		Cina Di Ca		
Chain of Custody	0707/16				
1. Custody seals intact on sample bottles?		Yes	No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool the samples?	,	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) proper	rly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to bottles?		Yes	No 🗹	NA 🗆	
10.VOA vials have zero headspace?		Yes	No 🗆	No VOA Vials	
11. Were any sample containers received broke	en?	Yes	No 🗸	# of preserved	
				bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH: (<2 or	>12 unless noted)
13. Are matrices correctly identified on Chain of	Custody?	Yes 🗸	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🔽	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)					
Special Handling (if applicable)					
16. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail	Phone Fax	in Person	
Regarding:	ha taken a care				
Client Instructions:					
17. Additional remarks:					
18. Cooler Information					
	eal Intact Seal No	Seal Date	Signed By		
1 1.4 Good Ye					

-		-of-Cu	stody Record	Turn-Around	Time:	Same Day				н	AI	I F	N	/TE	20	NI	1E	NT	AL	
lient:	WF:	S		□ Standard	Rush	5-4-16												TO		
				Project Name	O Lin	5-4-16 1 e Leak	П					haller								
ailing	Address	s: 188	CR 4900	IRUNI				49	01 H			E - A					109			
1			NM 87413	Project #:	11.58131		1			5-34			Fax							
		Commence of the Commence of th	- 4768					100					lysis	_						
			morris Quillians - con	Project Mana	ger:		=	only)	MRe)				04)							
	Package: ndard		☐ Level 4 (Full Validation)	mitch	morris		k (8021)	(Gas	DRO / M			SIMS)	PO4,S	PCB's						
ocred	itation AP	□ Othe	er	Sampler: M	Organ K	;'/(;`6 H □ No	+ TAMB'S	+ TPH	_	418.1)		8270	3,NO2	8 / 8082		A)	1			or N)
EDD	(Type)			Sample Ten	perature: 14		MIBE	ш	(GRO	pd 4	od 5	0 or	N,	ides	F	9	do			5
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALING HEALING	BTEX + MJ	BTEX + MTBI	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH's (8310 or 8270	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chlorida			Air Bubbles (Y or N)
716	1020	Soil	FRUNK Q: 5: de compsite	1-402	Cool	701	X		X					1	-		X			
116	1030	soil	TRUNK Compsite	1-402	1	702	X		χ		\top						X			
-	1045	501	TRUNKQ OFF	1-402	1	703	X		X								X	#	1	
		-					-				-	+	+					+	+	
													1						+	
ate:	Time:	Relinquish	_	Received by:	()	Date Time	Rei	mark	s:											
3/16	1535	Morga		Mistro	Waste	2/3/16 1535	1													
3/14		Relinquish	stu Watter	Received by:	X 05	Date Time 04/ 04/ 04/55														
	If necessary	samples sub	mitted to Half Environmental may be sub-	contracted to other a	ccredited laboratoric	es. This serves as notice of the	is poss	ibility.	Any su	ıb-contr	racted	data will	be clea	rly not	ated or	the a	nalytica	l report.		

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

APR 11 2016

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.

			Rele	ease Notific	atio	n and Co	rrective A	ction		
						OPERA	ГOR	×	Initi	al Report Final Rep
		illiams Fou				Contact: Mi				
				nfield, NM 874	413		No.: (505) 632-4			
Facility Nar	ne: Chaco	Compressor	Station			Facility Typ	e: Compressor	Station		
Surface Ow	ner: BLM			Mineral C)wner				API No),
				LOCA	TIO	N OF RE	LEASE			
Unit Letter N	Section 27	Township 29N	Range 11W	Feet from the	Norti	h/South Line	Feet from the	East/We:	st Line	County San Juan
			I	atitude 36.690				W		
D 0D 1	0 1			NAT	UKE	OF REL			37.1	D 1 0 DDI
Type of Rele	ase: Conder	nsate				Volume of condensate	Release: 8 BBL		0.000	me Recovered: 8 BBL
Source of Re	lease: Stora	ge vessel				Date and I Estimated	Hour of Occurrence 03/23/2016 at 10:		Estim	and Hour of Discovery: atted 03/23/2016 at 10:10 AM
Was Immedia	ata Nation (Circon?	_			MST If YES, To	Whom?		MST	
as milleun	are 140tice (Yes	No Not Re	equired		WHOIII:			
By Whom?						Date and F	Hour:			
Was a Water	course Read		Yes 🛛	No			olume Impacting	the Waterco	ourse.	
f a Wataraay	rea mag Im	pacted, Descr	iba Eully 8							
Williams per	sonnel disco	em and Reme overed a relea into the lined	se of cond		ling co	ompany missing	g a scheduled unle ed condensate wa	oading ever	nt. Appr	roximately 10 BBLs of vacuum truck.
		and Cleanup				_			-	
		issues observentis required.		e secondary conta	inment	t liner. The cor	ndensate was rem	oved from	the lined	1 secondary containment,
regulations a public health should their o	or the environment. In a	are required to ronment. The ave failed to ddition, NMC	o report ar acceptance adequately OCD accep	nd/or file certain r se of a C-141 repo investigate and r	elease ort by the emedia	notifications a he NMOCD m ate contaminati	nd perform correct tarked as "Final R fron that pose a three the operator of	etive action deport" does eat to grou- responsibil	s for rel s not rel nd water ity for c	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other
Signature:	This	>					OIL CON	SERVA	TION	DIVISION
Printed Name	e: Matt Web	ore				Approved by	Environmental S	pecialist:)00	
Title: EH&S	Supervisor					Approval Da	te:5/3/1201	6 Ex	piration	Date:
E-mail Addre	ess: matt.we	bre@william	s.com			Conditions o	f Approval:			Attached
Date: 04/07/2	2016	PI	none: (505) 632-4442		_	_			
Attach Addi	tional Shee	ets If Necess	sary			NOF	161525	378	6	

(1)

District I
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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.

X Initial Report

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 Ov	wner API No.
LOCA	TION OF RELEASE
Unit Letter D Section Township Range 13 28N 11W Feet from the	North/South Line Feet from the East/West Line County San Juan
	.064 N Longitude 107° 57.795 W URE OF RELEASE
Type of Release Natural Gas	Volume of Release 226.908 MCF Volume Recovered 0
Source of Release Pressure Relief Valve (PRV)	Date and Hour of Occurrence Date and Hour of Discovery 5/01/2016, 04:16 AM MST 5/01/2016, 04:16 AM MST
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Req	If YES, To Whom?
By Whom?	Date and Hour
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse. Not Applicable OIL CONS. DIV DIST. 3
If a Watercourse was Impacted, Describe Fully.*	MAY 18 2010
recycle mode. A Pressure Relief Valve (PRV) opened when one of are designed to open at a predetermined set point to protect the integestablished, pressures in the plant normalized allowing the PRV to 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 comple regulations all operators are required to report and/or file certain religible health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and remainded.	the to the best of my knowledge and understand that pursuant to NMOCD rules and lease notifications and perform corrective actions for releases which may endanger to by the NMOCD marked as "Final Report" does not relieve the operator of liability mediate contamination that pose a threat to ground water, surface water, human health eport does not relieve the operator of responsibility for compliance with any other
Signature: Mitch Morris	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Title: Environmental Specialist	Approval Date: 0000 Expiration Date:
E-mail Address: Mitch.Morris@williams.com	Conditions of Approval:

NVF 1615937683

OIL CONS. DIV DIST, 3

District I
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State of New Mexico Energy Minerals and Natural Resources

APR 25 2016

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

						OPERA	ГOR	☐ In	itial Report	\boxtimes	Fina	al Repor
		illiams Four				Contact	Mitch Morris					
N. A. S. A. S.		yo Dr, Bloor		A ALL COURT INTO A STATE OF THE			No. 505-632-47					
Facility Na	me Crow I	Mesa Compi	essor Sta	tion		Facility Typ	e Compressor	Station				
Surface Ow	ner State	of NM		Mineral Ov	wner			API	No.			
				LOCA	TIO	N OF REI	LEASE					
Unit Letter E	Section 02	Township 24N	Range 08W			/South Line	Feet from the	East/West Lin	County San Juan			
				Latitude <u>36.344</u>	84° N	Longitud	e - <u>107.66087° V</u>	<u>v</u>				
				NATU	URE	OF REL	EASE					
		nsate and Natu	ıral Gas			bbls Conde Natural Ga	513V	MCF of	Volume Reco Condensate as mixture from containment	nd Prod second:	luced v ary	water
Source of Re	elease Stora	ge Tank					lour of Occurrence 06:30 PM MST	ee	Date and Hou 02/29/16 at 06			
Was Immedi	ate Notice C		Yes [No Not Req	quired	If YES, To Cory Smith	Whom? and Vanessa Fie	elds, NMOCD				
By Whom?	Kelsey Chr	istiansen					lour 03/01/16 at 3					3-2
Was a Water	course Reac		Yes 🗵	No		If YES, Vo	lume Impacting t able	he Watercourse				
If a Watercon Not Applical		pacted, Descr	ibe Fully.								1	
hand excaval Describe Are The secondar containment, area impacte below the NI I hereby cert regulations a public health should their or the enviro	te and constructed at Affected a ry containmed. Impacted so d within the MOCD clean if y that the ill operators a or the environment. In a	ruct temporary and Cleanup A ent liner was oil was remove facility and on nup standards information give are required to comment. The	y earthen I Action Takinspected and two end and two one from the ven above o report an acceptance adequately OCD accep	side of the secondar perms to prevent poten.* and demonstrated in confirmation soil are area outside the finistrue and complete ad/or file certain relies of a C-141 report investigate and reritance of a C-141 re	ntegriti samp facility ete to t lease n t by th mediat	ty. Therefore, les were colle y. Attached are the best of my notifications are le NMOCD m te contaminations not reliev	the release did no cted on March 14 e the soil analytic knowledge and und perform correct arked as "Final R on that pose a three the operator of	and 15, 2016. (all results demonstrated that parties actions for eport" does not eat to ground waresponsibility for	eneath the lined One sample was astrating that co oursuant to NM releases which relieve the ope ater, surface was or compliance v	occupation of the second occupation occu	dary eted fro ations ules ar ndange f liabil man h	om the are
Printed Name	e: Mitch M	orris					Jam	ي ر	>			
Title: Enviro	onmental Sp	pecialist				Approval Dat	e:4[27]20	(Expiration	on Date:		W.	
	50	Morris@willia				Conditions of	Approval:		Attached			
Date: Attach Addi	04/21/2016 tional Shee	ets If Necess		hone: 505-632-470	8	NIII	11 5000	()1).0~				
						INA	160833	OPPH				



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

March 16, 2016

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

FAX

RE: Crow Mesa CDP Inside Fence

OrderNo.: 1603698

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2016 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 www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1603698

Date Reported: 3/16/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Crow Mesa cdp Inside Fence

Project: Crow Mesa CDP Inside Fence Collection Date: 3/14/2016 1:15:00 PM

Lab ID:

1603698-001

Matrix: MEOH (SOIL)

Received Date: 3/15/2016 8:00:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	3/15/2016 11:19:36 AM	24265
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	s			Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/15/2016 10:49:41 AM	24246
Surr: DNOP	84.6	70-130	%Rec	1	3/15/2016 10:49:41 AM	24246
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	3/15/2016 8:43:35 AM	24232
Surr: BFB	107	66.2-112	%Rec	1	3/15/2016 8:43:35 AM	24232
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.018	mg/Kg	1	3/15/2016 8:43:35 AM	24232
Toluene	ND	0.037	mg/Kg	1	3/15/2016 8:43:35 AM	24232
Ethylbenzene	ND	0.037	mg/Kg	1	3/15/2016 8:43:35 AM	24232
Xylenes, Total	ND	0.074	mg/Kg	1	3/15/2016 8:43:35 AM	24232
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	3/15/2016 8:43:35 AM	24232

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

- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 5 J

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603698

16-Mar-16

Client:

Williams Field Services

Project:

Crow Mesa CDP Inside Fence

Result

Sample ID MB-24265

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 24265

RunNo: 32825

Prep Date: 3/15/2016

Analysis Date: 3/15/2016

PQL

SeqNo: 1006047

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

Qual

Analyte Chloride

ND 1.5

Sample ID LCS-24265

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 24265

RunNo: 32825

Prep Date: 3/15/2016

Analysis Date: 3/15/2016

1.5

SeqNo: 1006048

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte

LowLimit

110

Chloride

14

15.00

SPK value SPK Ref Val %REC 0

SPK value SPK Ref Val %REC LowLimit

94.0

- 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
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 2 of 5

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603698

16-Mar-16

Client:

Williams Field Services

Project:

Crow Mesa CDP Inside Fence

Sample ID	MB-24246

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS

Batch ID: 24246

RunNo: 32789

Prep Date: 3/15/2016

SeaNo: 1004733

Units: mg/Kg

Analyte

Analysis Date: 3/15/2016

130

Diesel Range Organics (DRO)

Result PQL ND 10 SPK value SPK Ref Val %REC LowLimit

8.0

10.00

5.000

80.3

70

70

31.2

70

%RPD **RPDLimit** HighLimit

Qual

Sur: DNOP

Sample ID LCS-24246

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS

Batch ID: 24246

RunNo: 32789

Prep Date: 3/15/2016

Analysis Date: 3/15/2016

35

39

Result

Result

33

3.6

SegNo: 1004810

Units: mg/Kg

136

130

Diesel Range Organics (DRO) Surr: DNOP

10

77.5

Analyte

Result POL

SPK value SPK Ref Val 50.00 0

%REC LowLimit HighLimit 70.8 65.8

%RPD **RPDLimit**

Qual

Sample ID 1603698-001AMS

SampType: MS

TestCode: EPA Method 8015M/D: Diesel Range Organics

%RPD

Prep Date:

Client ID: Crow Mesa cdp Insi

Batch ID: 24246

RunNo: 32789 SeqNo: 1004960

69.6

76.0

Units: mg/Kg

Analyte

3/15/2016

Analysis Date: 3/15/2016

PQL

94

SPK value SPK Ref Val

47.21

4.721

%REC LowLimit HighLimit

162

130

RPDLimit

Qual

Diesel Range Organics (DRO)

SampType: MSD

0

0

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID 1603698-001AMSD Client ID:

Surr: DNOP

Crow Mesa cdp Insi

RunNo: 32789

Prep Date: 3/15/2016 Analyte

Batch ID: 24246 Analysis Date: 3/15/2016

%REC

SeqNo: 1004961 LowLimit

Units: mg/Kg HighLimit

%RPD

RPDLimit Qual

Diesel Range Organics (DRO) Surr: DNOP

POL 9.6 37 3.6

47.98 4.798

SPK value SPK Ref Val

77.0 74.7 31.2 70 162 11.7 130 0

31.7

Qualifiers: Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified

E Value above quantitation range

Analyte detected below quantitation limits

Page 3 of 5

P Sample pH Not In Range

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603698

16-Mar-16

Client:

Williams Field Services

Project:

Crow Mesa CDP Inside Fence

Sample ID MB-24232 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 24232 RunNo: 32794 Analysis Date: 3/15/2016 Prep Date: 3/14/2016 SegNo: 1005398 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1100 1000 108 66.2 112

Sample ID LCS-24232	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: LCSS	Batcl	1D: 24	232	R	RunNo: 3	2794				
Prep Date: 3/14/2016	Analysis D	ate: 3/	15/2016	S	SeqNo: 1	005399	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80	120			
Surr: BFB	1200		1000		116	66.2	112			S

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 4 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603698

16-Mar-16

Client:

Williams Field Services

Project:

Crow Mesa CDP Inside Fence

Sample ID MB-24232	Samp	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 24	232	F	RunNo: 3	2794				
Prep Date: 3/14/2016	Analysis [Date: 3/	15/2016	8	SeqNo: 1	005415	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	1.2		1.000		115	80	120			

Sample ID LCS-24232	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 24	232	F	RunNo: 3	2794				
Prep Date: 3/14/2016	Analysis [Date: 3/	15/2016	\$	SeqNo: 1	005416	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	118	80	120			
Toluene	1.1	0.050	1.000	0	109	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			
Surr: 4-Bromofluorobenzene	1.2		1.000		122	80	120			S

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 5 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI	Work Order Number:	1603698		RcptNo	1
Received by/date:	15/16				j
Logged By: Lindsay Mangin 3/1	5/2016 8:00:00 AM		of the state of		
Completed By: Lindsay Mangin 3/1	5/2016 8:08:00 AM		July Hago		!
Reviewed By:	03/18/14		000		
Chain of Custody		**	1		
1. Custody seals intact on sample bottles?		Yes 🗌 ·	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🔽	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool the samples?		Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
7. Sufficient sample volume for indicated test(s)?		Yes 🗸	No 🗆		
8. Are samples (except VOA and ONG) properly pr	reserved?	Yes 🗸	No 🗆		
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials ✓	
11. Were any sample containers received broken?		Yes	No 🗹	# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH:	or >12 unless noted)
13. Are matrices correctly identified on Chain of Cus	stody?	Yes 🗸	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🗹	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)					
16. Was client notified of all discrepancies with this	order?	Yes	No 🗆	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding:					
Client Instructions:		*****			
17. Additional remarks:		•		100000000000000000000000000000000000000	
	ntact Seal No S	Seal Date	Signed By		
1 2.9 Good Yes					
Page 1 of 1				*	

ent:	Address	188 Field	CR 4900 Nm 874/3	Project #:	I √Rush e: Mesa C	Same Day 3-15-16 JUSIDE DP FENCE		Te	el. 50	A	www.	AL v.hal VE -	YS lenv Alb	rironi	menterque	tal.co	om M 87	RA	AL	
Stan credi NEL	Package: dard tation		Christianson@william • Com □ Level 4 (Full Validation)	Kelse	Y ciristi organ Ki organ Ki		MTBE + FMB's (8021)	+ MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	od 418.1)	od 504.1)	PAH's (8310 or 8270 SIMS)	stals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	A)	-VOA)	do		(Y or N)
)ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MT	BTEX + MT	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (831	RCRA 8 Metals	Anions (F,C	8081 Pestic	8260B (VOA)	8270 (Semi-VOA)	Chloride		Air Bubbles (Y or N)
1/16	1:15	soil	Crow McSa adp =Nside Fonce	1-402	Cool		X		+									×		
te: 1/16 te:	Time: 1545 Time: 1821	Relinquish Relinquish	y- Zellion	Received by:	aet	Date Time 3/14/11, 1545 Date Time B 15/16/000	×	nark		ih anat	trantan	I date	mail ha	- done	h nois	lad or	The o	nahdir		



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

March 24, 2016

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

FAX

RE: Crow Mesa CDP Outside Fence

OrderNo.: 1603848

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/16/2016 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 www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1603848

Date Reported: 3/24/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Crow Mesa CDP Outside Fence

Project: Crow Mesa CDP Outside Fence

Collection Date: 3/15/2016 1:45:00 PM

Lab ID: 1603848-001

Matrix: SOIL Received Date: 3/16/2016 7:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	3/22/2016 7:02:51 PM	24388
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/18/2016 9:42:35 AM	24294
Surr: DNOP	89.9	70-130	%Rec	1	3/18/2016 9:42:35 AM	24294
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/18/2016 9:27:44 PM	24316
Surr: BFB	91.3	66.2-112	%Rec	1	3/18/2016 9:27:44 PM	24316
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/18/2016 9:27:44 PM	24316
Toluene	ND	0.047	mg/Kg	1	3/18/2016 9:27:44 PM	24316
Ethylbenzene	ND	0.047	mg/Kg	1	3/18/2016 9:27:44 PM	24316
Xylenes, Total	ND	0.095	mg/Kg	1	3/18/2016 9:27:44 PM	24316
Surr: 4-Bromofluorobenzene	113	80-120	%Rec	1	3/18/2016 9:27:44 PM	24316

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603848

24-Mar-16

Client:

Williams Field Services

Project:

Crow Mesa CDP Outside Fence

Sample ID MB-24388

Sample ID LCS-24388

LCSS Prep Date: 3/22/2016 SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 24388

RunNo: 33002

SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val %REC

Prep Date:

3/22/2016

Analysis Date: 3/22/2016

SeqNo: 1012346

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

Result PQL ND 1.5

SampType: LCS

TestCode: EPA Method 300.0: Anions

RunNo: 33002

Units: mg/Kg

Analyte

Client ID:

Analysis Date: 3/22/2016

SeqNo: 1012347

HighLimit

RPDLimit

%RPD

%RPD

Qual

Chloride

PQL

Batch ID: 24388

14

110

1.5 15.00

Qualifiers:

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

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603848

24-Mar-16

Client:

Williams Field Services

Project:

Crow Mesa CDP Outside Fence

Sample ID LCS-24294 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 24294 RunNo: 32883 Prep Date: 3/17/2016 Analysis Date: 3/18/2016 SeqNo: 1008135 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit Diesel Range Organics (DRO) 47 10 50.00 0 94.3 65.8 136 Surr: DNOP 3.8 5.000 76.8 70 130

Sample ID MB-24294	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 24	294	F	RunNo: 3	2883				
Prep Date: 3/17/2016	Analysis D)ate: 3/	18/2016	S	SeqNo: 1	008137	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr DNOP	8.6		10.00		86.1	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

Page 3 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603848

24-Mar-16

Client:

Williams Field Services

Project:

Analyte

Surr: BFB

Crow Mesa CDP Outside Fence

Result

1100

Sample ID MB-24321

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: Prep Date:

PBS

3/17/2016

3/17/2016

Batch ID: 24321 Analysis Date: 3/18/2016

POL

RunNo: 32893

SPK value SPK Ref Val

1000

1000

1000

66.2

LowLimit

SeqNo: 1008613 %REC

Units: %Rec HighLimit

Sample ID LCS-24321

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Client ID: LCSS

Batch ID: 24321

RunNo: 32893 SeqNo: 1008614

108

112

Units: %Rec

RPDLimit

Qual

Qual

Analyte Surr: BFB

Prep Date:

1200

PQL

SPK value SPK Ref Val %REC 117

LowLimit

HighLimit 112

RPDLimit %RPD

S

Sample ID MB-24316

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range RunNo: 32893

Prep Date:

Client ID: PBS 3/17/2016

Batch ID: 24316 Analysis Date: 3/18/2016

Analysis Date: 3/18/2016

SeqNo: 1008621

Units: mg/Kg

HighLimit

Analyte Gasoline Range Organics (GRO)

Result PQL

ND

1100

SPK value SPK Ref Val %REC

LowLimit

%RPD

RPDLimit

Qual

Surr: BFB

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

66.2

Sample ID LCS-24316 Client ID: LCSS

Batch ID: 24316

5.0

RunNo: 32893

Prep Date: 3/17/2016

Analysis Date: 3/18/2016

26

1100

SeqNo: 1008622

106

Units: mg/Kg

112

Qual

Analyte Gasoline Range Organics (GRO) Result PQL

SPK value SPK Ref Val

%REC LowLimit 103

HighLimit 80

120

%RPD **RPDLimit**

Surr: BFB

5.0 1000

25.00

0

114 66.2

112

S

Page 4 of 5

Qualifiers:

Value exceeds Maximum Contaminant Level.

% Recovery outside of range due to dilution or matrix

- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Sample pH Not In Range
- Sample container temperature is out of limit as specified
- Analyte detected below quantitation limits
- Reporting Detection Limit RL

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603848

24-Mar-16

Client:

Williams Field Services

Project:

Crow Mesa CDP Outside Fence

Sample ID MB-24321

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID:

PBS

Batch ID: 24321

RunNo: 32893

Prep Date: 3/17/2016

Analysis Date: 3/18/2016

LowLimit

80

Units: %Rec

HighLimit

Analyte

PQL

SeqNo: 1008645

%RPD

%RPD

%RPD

Qual

Surr: 4-Bromofluorobenzene

Result 1.1

1.000

1.000

SPK value SPK Ref Val

TestCode: EPA Method 8021B: Volatiles

Sample ID LCS-24321

SampType: LCS

%REC

113

120

Prep Date:

Client ID: LCSS

Batch ID: 24321

RunNo: 32893

Units: %Rec

120

Analyte

3/17/2016

Analysis Date: 3/18/2016

SeqNo: 1008646 SPK value SPK Ref Val %REC

HighLimit

RPDLimit

RPDLimit

Qual S

Surr: 4-Bromofluorobenzene

Sample ID MB-24316

1.2

Result

SampType: MBLK

PQL

121

TestCode: EPA Method 8021B: Volatiles

LowLimit

Prep Date: Analyte

Client ID: 3/17/2016

PBS

Batch ID: 24316 Analysis Date: 3/18/2016

RunNo: 32893 SeqNo: 1008653

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg HighLimit

RPDLimit

Qual

Benzene

Result PQL ND 0.025

Toluene ND 0.050 Ethylbenzene ND 0.050

Xylenes, Total Surr: 4-Bromofluorobenzene

1.000

1.000

1.000

3.000

1.000

TestCode: EPA Method 8021B: Volatiles

80

Sample ID LCS-24316

Client ID: LCSS

Prep Date: 3/17/2016

Surr: 4-Bromofluorobenzene

SampType: LCS Batch ID: 24316

0.10

ND

1.1

0.98

0.99

2.9

1.2

RunNo: 32893

Units: mg/Kg

Qual

Analyte Benzene Toluene Ethylbenzene

Xylenes, Total

Result PQL 1.0 0.025

0.050

0.050

0.10

Analysis Date: 3/18/2016 SPK value SPK Ref Val 1.000

SeqNo: 1008654

0

0

0

0

%REC

102

97.7

98.9

98.1

116

LowLimit HighLimit 80 120 %RPD

RPDLimit

80 120 80 120 120 80

120

Qualifiers:

R

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- Value above quantitation range
- Analyte detected below quantitation limits
- Page 5 of 5

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number	: 1603848		RcptNo: 1
Received by/date: OS IIe III			
Logged By: Lindsay Mangin 3/16/2016 7:45:00 AM	I	Strady Harges	
Completed By: Lindsay Mangin 3/16/2016 3:11:43 PM	l	Street of Hadapo	
Reviewed By: Qu 03/17/1/			
Chain of Custody			
Custody seals intact on sample bottles?	Yes	No 🗆	Not Present ✓
2. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present
3. How was the sample delivered?	Courier		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆	
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆	
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗌
10.VOA vials have zero headspace?	Yes	No 🗆	No VOA Vials ✓
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved
			bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗀	for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:
Special Handling (if applicable)			
16. Was client notified of all discrepancies with this order?	Yes	No 🗆	NA 🗹
Person Notified: Date			
By Whom: Via:	eMail	Phone Fax	☐ In Person
Regarding:			Ch. Addition to the state of th
Client Instructions:			A TOTAL CONTRACTOR OF THE PARTY
17. Additional remarks:		\$100.00 BO	***************************************
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	
1 1.3 Good Yes	Cour Date	Oignou Dy	

	hain	-of-Cu	ustody Record	Turn-Around	Time:					H	IA	LL	E	NV	TE	20	NI	4E	NTA	AL
ient:	WFS			■ Standard	□ Rush_		_												TO	
				Project Name	e:	FENCE	-					v.hal								
ailing	Address	: 188	CR4900	crow	mesten	Fence Pout Side		49	901 H	lawki	ins N	NE -	Alb	uque	erqu	e, NI	M 87	109		
310	DOM		NM 87413	Project #:)5-34						345-				
			5-7400						-			Α	naly	ysis	Req	uest	1			
nail o	r Fax#: /	Kc15ex. (hristianson Quillians	Project Mana	ager:		=	- Sign	MRO)					04)	10	6- 1				
	Package:		□ Level 4 (Full Validation)	Kelsel	christin	ensen	(8021)	TPH (Gas only)	10 / MT			SIMS)		PO4,S	PCB's					
	itation				organ Kill		HAD.	H	DRO		=	0.8		102,	082					
NEL	AP	□ Othe	er	On Ice:	Z Yes	□ No	F	F	8	418.1)	04.	8270		J3,N	8/8		8			l Z
EDD	(Type)			Sample Tem	perature: Z;	3-1,0c==1:	3 #	MTBE	(GRO	4 b	od 5	0 or	tals	N,	ides	8	9	3		3
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	3 KX + WHEE	+	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CA1000de		Air Bubbles (Y or N)
1/6	1:45	soil	crow Mesa CDP outside Fence	1-402	Cool	-001	X		X		П	LL.		1	ω.	ω.	8	X		
		-					+												+	
-	_					-	-	+										\vdash	+	
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ite:	Time:	Relinquish	ed by:	Received by:	11.	Date Time		mark	s:											
/L	150 / Time:	Relinquish	ed by:	Received by:	host	3/15/16 150 Date Time	57													
TIL	1847	11/20	the lighters	4	45 a	3/16/16 074	15													
1	f necessary.	samples sub	mitted to Hall Environmental may be subo	contracted to other a	ccredited laboratories		f this pos	sibility.	Any se	ub-cont	racted	d data	will be	clear	ly nota	sted on	the a	nalytica	report.	

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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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** Final Report Initial Report Name of Company Williams Four Corners LLC Mitch Morris Contact Telephone No. 505-632-4708 Address 1755 Arroyo Drive, Bloomfield, NM 87413 Facility Type Natural Gas Processing Plant Facility Name Kutz Canyon Gas Plant 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 11W San Juan D 13 28N Latitude 36° 40.064 N Longitude 107° 57.795 W NATURE OF RELEASE Type of Release Natural Gas Volume of Release 50.424 MCF Volume Recovered 0 Source of Release Pressure Relief Valve (PRV) Date and Hour of Occurrence Date and Hour of Discovery 4/29/2016, 03:55 AM MST 4/29/2016, 03:55 AM MST If YES, To Whom? Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required Not Applicable By Whom? Date and Hour If YES, Volume Impacting the Watercourse CONS. DIV DIST. 3 Was a Watercourse Reached? ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* MAY 18 4410 Describe Cause of Problem and Remedial Action Taken.* Loss of compression at Kutz Plant caused an over-pressure situation in the recycle gas stream. Pressure Relief Valves (PRV) are designed to open at a predetermined set point to protect the integrity of equipment and ensure safe operating conditions. When compression was re-established, pressures in the plant normalized allowing the PRV to close automatically. 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 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:

05/06/2016 Attach Additional Sheets If Necessary

E-mail Address: Mitch.Morris@williams.com

Printed Name: Mitch Morris

Title: Environmental Specialist

NVF1615938029

Expiration Date:

Attached

Approval Date:

Phone: 505-632-4708

Conditions of Approval:



OIL CONS. DIV DIST. 3

District I 1625 N. French Dr., Hobbs, NM 88240 1625 N. French Dr., Hobbs, NM 88240

District II
811 S. First St., Artesia, NM 88210

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1000 Rio Brazos Road, Aztec, NM 87410

District IV
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State of New Mexico Energy Minerals and Natural Resources

JUN 1 0 2016

Form C-141 Revised August 8, 2011

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

Santa Fe, NM 87505 Release Notification and Corrective Action

						OPERA'	ГOR	🔀 I	nitial Report	\boxtimes	Final Repo
		illiams Four				Contact	Mitch Morris				
			oomfield	NM 87413			No. 505-632-47				
Facility Na	me Buena	Vista				Facility Typ	e Compressor	Station			
Surface Ow	ner Burea	u of Land M	lanageme	nt Mineral	Owner			API	No.		
						N OF DE	EACE				
Halle I addain	T C	Township	Danas	Feet from the		N OF RE	Feet from the	East/West Li	no County		
Unit Letter A	Section 32	Township 24N	Range 8W	reet from the	North	South Line	reet from the	East West Li	ne County San Juan		
				Latitud	e 36.275	56 Longitud	e -107.698				
wno of Pole	ase Natura	1 Gas		NA	TURE	OF REL	Release 539 MC	TE I	Volume Recove	red 0 N	ACF.
Source of Re							lour of Occurrent		Date and Hour		
ource of ite	rease varve					5/20/2016,		100	5/20/2016, 10:3		,
Was Immedi	ate Notice (If YES, To					
		\boxtimes	Yes	No Not I	Required	Cory Smith	n, NMOCD via P	hone Call and i	follow-up Emai		
By Whom?							Iour: Email 5/20/				
Was a Water	course Read						olume Impacting	the Watercours	e.		
			Yes 🗵	No		N/A					
f a Waterco	urse was Im	pacted, Descr	ibe Fully.	ŧ							
T/A											
N/A											
BLM Busine	ess Lease No		Action Tal								
I have be	16. at -1 1	- C		in tour and	mlata ta	ha heat a C	Imanula das and	undonoton dalla e	mumment to ND	OCD	alon and
regulations a public health should their or the enviro	or the environment. In a	are required to ronment. The ave failed to	o report as acceptant adequately OCD accep	nd/or file certain ce of a C-141 reprinted investigate and	release n port by th remediat	notifications a ne NMOCD m te contaminati	knowledge and und perform correct arked as "Final Roon that pose a three the operator of	etive actions for deport" does not eat to ground v responsibility f	r releases which t relieve the ope vater, surface w for compliance	may er erator of ater, hu with any	danger liability man health
							OIL CON	SERVATION	ON DIVIST	ON	1
	111	111						1			
Signature: #	ffeel &	Many	7				F 16	1			_
						Approved by	Environmental S	pecialist:	300	1	-
Printed Nam	e: Mitch M	orris						V	Mark ,	L	
Γitle: Enviro	onmental Sp	ecialist				Approval Da	106115A	Sile Expirat	tion Date:		
E-mail Addr	ess: mitch.r	norris@willia	ms.com			Conditions o	f Approval:		Attached	1 🗆	
Date: June 2	2 2016		Phon	e: 505-632-4708	R		_				
		ets If Necess		JUJ-UJZ-4/00			1818	2011	,		
much Audi	inonai bile	VIS 11 1 100033	ui j			NVE	16/67	330 14	\$		
						1 - 4 1	10.0	00			

OIL CONS. DIV DIST. 3

District I
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State of New Mexico Energy Minerals and Natural Resources

JUN 1 0 2016

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.

						OPERA			Initi	al Report Final Re
		Villiams Fou				Contact	Kijun Hong			
		N		i, NM 87413			No. 505-632-44			
Facility Na	me Hubb	ard 3A Met	er			Facility Typ	e Natural Ga	s Pipel	ine	
Surface Ow	ner Priva	ite		Mineral (Owner				API No),
				LOC	ATIO	N OF RE	LEASE			
Unit Letter E	Section 15	Township 32N	Range 12W	Feet from the	North	South Line	Feet from the	East/\	West Line	County San Juan
VI.						3 Longitud	e <u>-108.08944</u> EASE			
	ase Natur					Volume of	Release 134.502	MCF		Recovered 0
Source of Re	elease Brok	ken ¼ inch sa	mple port				Hour of Occurrence 11:00 AM MST		The second secon	Hour of Discovery 6, 09:00 AM MST
Was Immedi	ate Notice (Yes [No Not R	equired	If YES, To Not Appli	Whom?		0/01/2010	0, 07.00 AM MOT
By Whom?						Date and I				
Was a Water	course Rea		Yes 🗵	No		If YES, Vo	olume Impacting cable	the Wate	ercourse.	
f a Waterco	urse was Im	pacted, Desci	ribe Fully.	•						75
Describe Car	use of Probl	em and Reme	dial Actio	n Taken.*						1000
Broken 1/4 port was iso	inch sampl lated and t	e port caused he gas releas	release o e stopped	f natural gas to :	atmospl	iere. Livesto	ck rubbing again	st the p	ort is the i	nost likely cause. The broke
		and Cleanup		cen.*						
regulations a public health should their or the enviro	or the envi operations honment. In a	are required to ronment. The nave failed to	e acceptana adequately OCD accep	nd/or file certain ce of a C-141 rep investigate and	release rort by the remedian	notifications a ne NMOCD mate contaminat	nd perform correct parked as "Final Rich that pose a thi	ctive act Report" of reat to gr	ions for rel loes not rel round wate	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human healt ompliance with any other
Signature:	7	5	H	3		Approved by	OIL CON			DIVISION

Date: 06/03/2016

* Attach Additional Sheets If Necessary

E-mail Address: Kijun.Hong@Williams.com

Printed Name: Kijun Hong

Title: Environmental Specialist

WF1616735187

Expiration Date:

Attached

Approval Date: 06 15 201

Conditions of Approval:

Phone: 505-632-4475



OIL CONS. DIV DIST. 3

District I
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State of New Mexico Energy Minerals and Natural Resources

JUN 1 0 2016 Submit 1 Copy to approp

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

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

- 10	- /					OPERA'	TOR		Initi	al Report 🛛 F	Final Rep
Name of Co						Contact	Michael Han				
		yo Dr, Bloon	nfield, N	M 87413			No. 505-632-4	807			
Facility Nar	ne Milagi	o Gas Plant				Facility Typ	e Facility				
Surface Ow	ner Privat	e		Mineral (Owner			A	API No	0.	
				LOC	ATIO	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the	_	/South Line	Feet from the	East/West	Line	County	
0	12	29N	11W							San Juan	
77			1	Latitude 36.735				W			
Tumo of Dala	ana Watan			NAT	TURE	OF REL		. V	1	D	-11
Type of Rele	ase water					Gallons Bo	Release 34,000 piler Feed onized Water mix	Bo		Recovered 17,000 Ga eed Water/Deionized V	
Source of Re	lease Boile	r Feed Water	Vessel			Date and I	Hour of Occurrence :00 PM MST	ce Da	ite and	Hour of Discovery 2:00 PM MST	
Was Immedi	ate Notice (Yes [No Not R	equired	If YES, To Cory Smit	Whom? h, NMOCD				
By Whom?	Matt Webre	9				Date and I	Hour 05/24/16 at	7:45 AM M	ST		
Was a Water	course Read		Yes 🗵	No		If YES, Vo	olume Impacting	the Waterco	urse.		5
f a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*							
The cause of point between Describe Are	the boiler v n the two st a Affected	vater release vater ream bays so and Cleanup	vas attribu this releas Action Tal	ted to the installa se is not expected ken.* Approximat	tion of t to reocc	he new excess ur in the futur 000 gallons of	s steam bay. Duri re.	ing the outag	e, oper	ed feet to the south/so rations eliminated the the exempt E&P water	choke from the
	esults and p	rocess knowl								were transmitted via er cal results for both the	
I hereby certi regulations a public health should their of	fy that the i il operators or the envir operations h nment. In a	nformation g are required t conment. The ave failed to ddition, NMC	o report an acceptant adequately OCD accep	nd/or file certain r ce of a C-141 report investigate and r	release nort by the remediat	otifications as e NMOCD m e contaminati	nd perform corre- arked as "Final R on that pose a thr e the operator of	ctive actions Report" does reat to groun responsibilit	for rel not rel d water ty for c	suant to NMOCD rule eases which may enda ieve the operator of li r, surface water, huma compliance with any o	anger ability an health
							OIL CON	SERVAT	TON	DIVISION	
Signature:	1	1				Approved by	Environmental S	Specialist:	X		
Printed Name	: Michael	Hannan, P.E.						Jan	X	en	
Γitle: Engine	eer, Sr.					Approval Dat	te: 06/15/2	ON Expi	ration	Date:	100
-mail Addre	ess: Michae	l.hannan@wi	lliams.cor	m		Conditions of	f Approval:			Attached	
100 - 100 -	06/06/16			ne: 505-632-4807	7						
ttach Addi	tional Shee	ets If Necess	ary			AVA.	161673	5651			



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

May 27, 2016

Michael Hannan Williams Four Corners 188 CR 4900 Bloomfield, NM 87413 TEL: (505) 632-4442

FAX

RE: FCA Boiler Release

OrderNo.: 1605B89

Dear Michael Hannan:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/26/2016 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 www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1605B89

Received Date: 5/26/2016 7:54:00 AM

Date Reported: 5/27/2016

5/26/2016 10:25:50 PM 25505

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: Milagro BFW

Project: FCA Boiler Release Collection Date: 5/25/2016 2:30:00 PM Matrix: MEOH (SOIL)

Result PQL Qual Units Analyses **DF** Date Analyzed Batch **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: KJH Diesel Range Organics (DRO) 9.8 mg/Kg 1 5/26/2016 12:01:59 PM 25515 Surr: DNOP 84.5 70-130 %Rec 5/26/2016 12:01:59 PM 25515 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3.9 5/26/2016 10:25:50 PM 25505 mg/Kg 1 Surr: BFB 80-120 %Rec 5/26/2016 10:25:50 PM 25505 111 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.020 5/26/2016 10:25:50 PM 25505 mg/Kg 1 Toluene ND 0.039 mg/Kg 5/26/2016 10:25:50 PM 25505 Ethylbenzene ND 0.039 mg/Kg 1 5/26/2016 10:25:50 PM 25505 Xylenes, Total ND 0.079 mg/Kg 5/26/2016 10:25:50 PM 25505

80-120

%Rec

111

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

Qualifiers:

Lab ID:

1605B89-001

Surr: 4-Bromofluorobenzene

- 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
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B89

27-May-16

Client:

Williams Four Corners

Project:

FCA Boiler Release

Sample ID LCS-25515	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 25	515	F	RunNo: 3	4493				
Prep Date: 5/26/2016	Analysis D	ate: 5/	26/2016	8	SeqNo: 1	063925	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.0	62.6	124			
Surr: DNOP	4.8		5.000		95.5	70	130			

Sample ID MB-25515	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 25	515	R	RunNo: 3	4493				
Prep Date: 5/26/2016	Analysis D	ate: 5/	26/2016	S	SeqNo: 1	063926	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.9		10.00		98.7	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

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B89

27-May-16

Client:

Williams Four Corners

Project:

FCA Boiler Release

Sample ID MB-25505	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	1D: 25	505	F	tunNo: 3	4502				
Prep Date: 5/25/2016	Analysis D	ate: 5/	26/2016	S	SeqNo: 1	064463	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	80	120			

Sample ID LCS-25505	Samp	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID: LCSS	Batcl	n ID: 25	505	F	RunNo: 3	4502				
Prep Date: 5/25/2016	Analysis [)ate: 5/	26/2016	8	SeqNo: 1	064464	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.4	80	120			
Surr: BFB	1200		1000		120	80	120			S

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

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B89

27-May-16

Client:

Williams Four Corners

Project:

FCA Boiler Release

Sample ID MB-25505		Type: ME					8021B: Volat	tiles		
Client ID: PBS Prep Date: 5/25/2016	Analysis [h ID: 25 Date: 5/	26/2016		RunNo: 3 SeqNo: 1		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	1.1		1.000		110	80	120			

Sample ID LCS-25505	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 25	505	F	RunNo: 3	4502				
Prep Date: 5/25/2016	Analysis [Date: 5/	26/2016	5	SeqNo: 1	064484	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	75.3	123			
Toluene	0.98	0.050	1.000	0	98.2	80	124			
Ethylbenzene	0.97	0.050	1.000	0	96.8	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	96.3	83.9	122			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Qualifiers:

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

Page 4 of 4



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

Sample Log-In Check List

Client Name: WILLIAMS FOUR CORN Wo	rk Order Number:	1605	389			Rop	tNo: 1
Received by/date:	726/14						
Logged By: Lindsay Mangin 5/26/2	2016 7:54:00 AM			July	Algo		
Completed By: Lindsay Mangin 5/26/2	2016 8:26:18 AM			pulyi	1400		
Reviewed By: 1 AGO	5/210/11	0		0	0		
Chain of Custody	1001.0	-1					
1, Custody seals intact on sample bottles?		Yes		No		Not Present	
2. Is Chain of Custody complete?		Yes	V	No		Not Present	
3. How was the sample delivered?		Cour	ler				
Log In							
4. Was an attempt made to cool the samples?		Yes	V	No		NA	
5. Were all samples received at a temperature of >0°	°C to 6.0°C	Yes	V	No		NA	
6. Sample(s) in proper container(s)?		Yes	V	No			
7. Sufficient sample volume for indicated test(s)?		Yes	Y	No			
8. Are samples (except VOA and ONG) properly presi	erved?	Yes	V	No			
9. Was preservative added to bottles?		Yes		No	V	NA	
10.VOA vials have zero headspace?		Yes		No		No VOA Vials	V
11. Were any sample containers received broken?		Yes		No	V	# of preserved	
			r-si		-	bottles checke	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	Y	No	П	for pH:	(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custon	iy?	Yes	V	No		Adjusted	
14, Is it clear what analyses were requested?		Yes	V	No			
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	V	No		Checked	by:
Special Handling (if applicable)							
16. Was client notified of all discrepancies with this ord	er?	Yes		No		NA	\mathbf{V}
Person Notified:	Date						
By Whom:	Via:] eMa	il 🔲	Phone	Fax	In Person	
Regarding:	ennoin,	-					
Client Instructions:							
17. Additional remarks:							
18. Cooler Information Cooler No Temp °C Condition Seal Inta	d Seal No S	Seal Da	te I	Signed E	av I		
1 1.5 Good Yes		- van L/c		Signou L	-1		

ailing	Ma- Iliam Address Joomfie #: (50	H W 1755 1d, N 15) 63	lebre W Corners Annoyo Drive M 87413 2-4442 lebre E Williams, com	The state of the s	Boiler B		0	Te		A v lawkir 05-34	www ns N	hall E -	YS envi Albu F naly	ronr uque ax sis	ment erqu 505- Req	AE tal.co	om M 87				
Stan credi	itation	□ Othe	□ Level 4 (Full Validation)	On Ice:	The same of the sa	Wicker	E - TMB's (8021)	E + TPH (Gas only)	TPH 8015B (GRO / DRO / M		1 504.1)	PAH's (8310 or 8270 SIMS)	als	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's		/OA)				Y or N)
ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +	BTEX + MTBE	TPH 8015B (TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310	RCRA 8 Metals	Anions (F,CI,	8081 Pesticid	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
25-16	1430	Soil	Milagro BFW	2-402 Jars	Cool	-001	X														
5-16 ite:	Time: 1535 Time: 2030	Relinquish Relinquish	1/9/	Received by:		Date Time 5 25 ju 1535 Date Time 5 7751 Date Time Time Time		mark	*	lease.		CC;		BH	erb	el	TEn	anell	m	ws, co	olen



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

May 27, 2016

Ashley Ager

LTE

2243 Main Ave Suite 3

Durango, CO 81301

TEL: (970) 946-1093

FAX

RE: FCA Boller release

OrderNo.: 1605B24

Dear Ashley Ager:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/25/2016 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 www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/27/2016

CLIENT: LTE

Client Sample ID: WS-01

Project:

FCA Boller release

Collection Date: 5/24/2016 10:00:00 AM

Lab ID: 1605B24-001 Matrix: AQUEOUS

Received Date: 5/25/2016 7:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS		777			Analyst: LGT
Fluoride	ND	0.50	mg/L	5	5/25/2016 8:12:52 PM
Chloride	ND	2.5	mg/L	5	5/25/2016 8:12:52 PM
Nitrogen, Nitrite (As N)	ND	0.50	mg/L	5	5/25/2016 8:12:52 PM
Bromide	ND	0.50	mg/L	5	5/25/2016 8:12:52 PM
Nitrogen, Nitrate (As N)	ND	0.50	mg/L	5	5/25/2016 8:12:52 PM
Sulfate	46	2.5	mg/L	5	5/25/2016 8:12:52 PM
SM2340B: HARDNESS					Analyst: MED
Hardness (As CaCO3)	86	6.6	mg/L	1	5/26/2016 12:30:00 PM
EPA METHOD 7470: MERCURY					Analyst: pmf
Mercury	ND	0.00020	mg/L	1	5/26/2016 11:39:31 AM
EPA 6010B: TOTAL RECOVERABLE	METALS				Analyst: MED
Arsenic	ND	0.020	mg/L	1	5/26/2016 12:58:37 PM
Barium	0.12	0.020	mg/L	1	5/26/2016 12:58:37 PM
Cadmium	ND	0.0020	mg/L	1	5/26/2016 12:58:37 PM
Calcium	32	1.0	mg/L	1	5/26/2016 12:58:37 PM
Chromium	ND	0.0060	mg/L	1	5/26/2016 12:58:37 PM
Iron	0.76	0.25	mg/L	5	5/26/2016 1:12:34 PM
Lead	0.0072	0.0050	mg/L	1	5/26/2016 12:58:37 PM
Magnesium	1.7	1.0	mg/L	1	5/26/2016 12:58:37 PM
Manganese	0.11	0.0020	mg/L	1	5/26/2016 12:58:37 PM
Potassium	2.9	1.0	mg/L	1	5/26/2016 12:58:37 PM
Selenium	ND	0.050	mg/L	1	5/26/2016 12:58:37 PM
Silver	ND	0.0050	mg/L	1	5/26/2016 12:58:37 PM
Sodium	7.4	1.0	mg/L	1	5/26/2016 12:58:37 PM
EPA METHOD 8260B: VOLATILES					Analyst: AG
Benzene	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
Toluene	1.9	1.0	µg/L	1	5/25/2016 12:40:51 PM
Ethylbenzene	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
Naphthalene	ND	2.0	μg/L	1	5/25/2016 12:40:51 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	5/25/2016 12:40:51 PM
2-Methylnaphthalene	ND	4.0	µg/L	1	5/25/2016 12:40:51 PM
Acetone	ND	10	μg/L	1	5/25/2016 12:40:51 PM

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

- 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
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Value above quantitation range E
- Analyte detected below quantitation limits Page 1 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 5/27/2016

CLIENT: LTE

Client Sample ID: WS-01

Project: FCA Boller release

Collection Date: 5/24/2016 10:00:00 AM

Lab ID: 1605B24-001

Matrix: AQUEOUS

Received Date: 5/25/2016 7:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: AG
Bromobenzene	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
Bromodichloromethane	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
Bromoform	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
Bromomethane	ND	3.0	μg/L	1	5/25/2016 12:40:51 PM
2-Butanone	ND	10	µg/L	1	5/25/2016 12:40:51 PM
Carbon disulfide	ND	10	μg/L	1	5/25/2016 12:40:51 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	5/25/2016 12:40:51 PI
Chlorobenzene	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
Chloroethane	ND	2.0	μg/L	1	5/25/2016 12:40:51 PI
Chloroform	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
Chloromethane	ND	3.0	µg/L	1	5/25/2016 12:40:51 PI
2-Chlorotoluene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PI
4-Chlorotoluene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PI
cis-1,2-DCE	ND	1.0	µg/L	1	5/25/2016 12:40:51 PI
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PI
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	5/25/2016 12:40:51 PI
Dibromochloromethane	ND	1.0	µg/L	1	5/25/2016 12:40:51 P
Dibromomethane	ND	1.0	µg/L	1	5/25/2016 12:40:51 P
1,2-Dichlorobenzene	ND	1.0	µg/L	1	5/25/2016 12:40:51 P
1,3-Dichlorobenzene	ND	1.0	µg/L	1	5/25/2016 12:40:51 P
1,4-Dichlorobenzene	ND	1.0	µg/L	1	5/25/2016 12:40:51 P
Dichlorodifluoromethane	ND	1.0	μg/L	1	5/25/2016 12:40:51 P
1,1-Dichloroethane	ND	1.0	μg/L	1	5/25/2016 12:40:51 P
1,1-Dichloroethene	ND	1.0	μg/L	1	5/25/2016 12:40:51 PI
1,2-Dichloropropane	ND	1.0	µg/L	1	5/25/2016 12:40:51 PI
1,3-Dichloropropane	ND	1.0	µg/L	1	5/25/2016 12:40:51 P
2,2-Dichloropropane	ND	2.0	μg/L	1	5/25/2016 12:40:51 PI
1,1-Dichloropropene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PI
Hexachlorobutadiene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PI
2-Hexanone	ND	10	µg/L	1	5/25/2016 12:40:51 PI
Isopropylbenzene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PI
4-Isopropyltoluene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
4-Methyl-2-pentanone	ND	10	µg/L	1	5/25/2016 12:40:51 PM
Methylene Chloride	ND	3.0	µg/L	1	5/25/2016 12:40:51 PM
n-Butylbenzene	ND	3.0	µg/L	1	5/25/2016 12:40:51 PM
n-Propylbenzene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
sec-Butylbenzene	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
Styrene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
tert-Butylbenzene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM

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

- 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 2 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: WS-01

Project: FCA Boller release

Collection Date: 5/24/2016 10:00:00 AM

Lab ID: 160

1605B24-001

Matrix: AQUEOUS Received Date: 5/25/2016 7:45:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: AG
1,1,1,2-Tetrachloroethane	ND	1.0		μg/L	1	5/25/2016 12:40:51 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/25/2016 12:40:51 PM
Tetrachloroethene (PCE)	ND	1.0		μg/L	1	5/25/2016 12:40:51 PM
trans-1,2-DCE	ND	1.0		μg/L	1	5/25/2016 12:40:51 PM
trans-1,3-Dichloropropene	ND	1.0		μg/L	1	5/25/2016 12:40:51 PM
1,2,3-Trichlorobenzene	ND	1.0		μg/L	1	5/25/2016 12:40:51 PM
1,2,4-Trichlorobenzene	ND	1.0		μg/L	1	5/25/2016 12:40:51 PM
1,1,1-Trichloroethane	ND	1.0		μg/L	1	5/25/2016 12:40:51 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/25/2016 12:40:51 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/25/2016 12:40:51 PM
Trichlorofluoromethane	ND	1.0		μg/L	1	5/25/2016 12:40:51 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/25/2016 12:40:51 PM
Vinyl chloride	ND	1.0		μg/L	1	5/25/2016 12:40:51 PM
Xylenes, Total	ND	1.5		μg/L	1	5/25/2016 12:40:51 PM
Surr: 1,2-Dichloroethane-d4	87.0	70-130		%Rec	1	5/25/2016 12:40:51 PM
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	5/25/2016 12:40:51 PM
Surr: Dibromofluoromethane	91.1	70-130		%Rec	1	5/25/2016 12:40:51 PM
Surr: Toluene-d8	101	70-130		%Rec	1	5/25/2016 12:40:51 PM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: JRR
Conductivity	190	1.0		µmhos/cm	1	5/25/2016 6:08:02 PM
SM4500-H+B: PH						Analyst: JRR
рН	7.64	1.68	Н	pH units	1	5/25/2016 6:08:02 PM
SM2320B: ALKALINITY						Analyst: JRR
Bicarbonate (As CaCO3)	38.12	20.00		mg/L CaCO3	1	5/25/2016 6:08:02 PM
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	5/25/2016 6:08:02 PM
Total Alkalinity (as CaCO3)	38.12	20.00		mg/L CaCO3	1	5/25/2016 6:08:02 PM
SM2540C MOD: TOTAL DISSOLVED SO	OLIDS					Analyst: KS
Total Dissolved Solids	136	40.0	D	mg/L	1	5/26/2016 4:17:00 PM

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

- 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 3 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B24

27-May-16

Client:

LTE

Project:

FCA Boller release

Sample ID MB	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	300.0: Anions	3		
Client ID: PBW	Batch	ID: A3	4487	F	RunNo: 3	34487				
Prep Date:	Analysis D	ate: 5/	25/2016	5	SeqNo: 1	1063662	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID LCS	Samp	Type: LC	S	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID: LCSW	Batcl	h ID: A3	4487	F	RunNo: 3	4487				
Prep Date:	Analysis D	Date: 5/	25/2016	5	SeqNo: 1	063663	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	105	90	110			
Chloride	4.8	0.50	5.000	0	96.3	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	98.3	90	110			
Bromide	2.5	0.10	2.500	0	98.6	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	100	90	110			
Sulfate	99	0.50	10.00	0	98.9	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
 - Banga
- P Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B24

27-May-16

Client:

LTE

Project:

FCA Boller release

Sample ID 100ng Ics Client ID: LCSW		SampType: LCS Batch ID: A34458			tCode: E	ATILES				
Prep Date:	Analysis [NOTE PART	25/2016		SeqNo: 1		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Chlorobenzene	19	1.0	20.00	0	93.9	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	105	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	92.7	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.2	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.7	70	130			
Surr: Toluene-d8	10		10.00		99.6	70	130			

Client ID: PBW	Batc	h ID: A3	4458	F	RunNo: 3	4458				
Prep Date:	Analysis [Date: 5/	25/2016	5	SeqNo: 1	063592	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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 5 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B24

27-May-16

Client:

LTE

Project:

FCA Boller release

Sample ID rb	SampT	ype: MB	LK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	n ID: A34	458	F	RunNo: 3	4458				
Prep Date:	Analysis D	ate: 5/2	5/2016	\$	SeqNo: 1	063592	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
l-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
sis-1,3-Dichloropropene	ND	1.0								
,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
,3-Dichloropropane	ND	1.0								
,2-Dichloropropane	ND	2.0								
,1-Dichloropropene	ND	1.0								
lexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
sopropylbenzene	ND	1.0								
-Isopropyltoluene	ND	1.0								
I-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
ert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
etrachloroethene (PCE)	ND	1.0								
rans-1,2-DCE	ND	1.0								
rans-1,3-Dichloropropene	ND	1.0								
,2,3-Trichlorobenzene	ND	1.0								
,2,4-Trichlorobenzene	ND	1.0								
,1,1-Trichloroethane	ND	1.0								
,1,2-Trichloroethane	ND	1.0								
richloroethene (TCE)	ND	1.0								
richlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

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
 - Sample pH Not In Range
- RL Reporting Detection Limit

P

W Sample container temperature is out of limit as specified

Page 6 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B24

27-May-16

Client:

LTE

Project:

FCA Boller release

Sample ID rb	SampT	SampType: MBLK			tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	ID: A3	4458	F	RunNo: 3	4458				
Prep Date:	Analysis D	ate: 5/	25/2016	8	SeqNo: 1	063592	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
/inyl chloride	ND	1.0								
(ylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.6	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.2	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.9	70	130			
Surr: Toluene-d8	9.8		10.00		98.0	70	130			

Sample ID 1605b24-001ams	Samp	ype: MS	S	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: WS-01	Batcl	n ID: A3	4458	F	RunNo: 3	4458				
Prep Date:	Analysis D	ate: 5/	25/2016	S	SeqNo: 1	063594	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0.4986	111	70	130			
Toluene	23	1.0	20.00	1.947	103	70	130			
Chlorobenzene	19	1.0	20.00	0	94.4	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	112	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	94.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.6	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.1	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID 1605b24-001ams	d Samp1	Гуре: М	SD	Tes	tCode: El	PA Method	ATILES			
Client ID: WS-01	Batcl	Batch ID: A34458			RunNo: 3					
Prep Date:	Analysis D	Date: 5/	25/2016	8	SeqNo: 1	063595	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0.4986	106	70	130	5.00	20	
Toluene	22	1.0	20.00	1.947	102	70	130	1.54	20	
Chlorobenzene	19	1.0	20.00	0	93.4	70	130	1.11	20	
1,1-Dichloroethene	20	1.0	20.00	0	101	70	130	10.5	20	
Trichloroethene (TCE)	19	1.0	20.00	0	92.7	70	130	2.27	20	
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.2		10.00		91.9	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		101	70	130	0	0	
Surr: Toluene-d8	10		10.00		100	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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B24

27-May-16

Client:

LTE

Project:

FCA Boller release

Sample ID MB-25483

SampType: MBLK

TestCode: EPA Method 7470: Mercury

Client ID:

PBW

Batch ID: 25483

RunNo: 34498

Prep Date: 5/24/2016

SeqNo: 1064042

Units: mg/L

Analyte

Analysis Date: 5/26/2016

HighLimit

%RPD **RPDLimit** Qual

Mercury

Result PQL ND 0.00020

Sample ID LCS-25483

SampType: LCS

TestCode: EPA Method 7470: Mercury

Client ID: LCSW

Batch ID: 25483

RunNo: 34498

%REC

HighLimit

Prep Date:

5/24/2016

Analysis Date: 5/26/2016

SeqNo: 1064043

SPK value SPK Ref Val %REC LowLimit

Units: mg/L

RPDLimit

%RPD

%RPD

Analyte Mercury

Sample ID 1605B24-001CMS

SampType: MS

TestCode: EPA Method 7470: Mercury

120

Client ID: WS-01

Batch ID: 25483

PQL

0.00020

RunNo: 34498

Lowl imit

Units: mg/L

Prep Date: 5/24/2016

Analysis Date: 5/26/2016

SegNo: 1064045

Analyte Mercury

0.0053 0.00020

Result

SPK value SPK Ref Val %REC PQL 0.005000 0.0001458

0.005000

SPK value SPK Ref Val

103

HighLimit 125 **RPDLimit**

Qual

Sample ID 1605B24-001CMSD

WS-01

SampType: MSD

TestCode: EPA Method 7470: Mercury

0.005000 0.0001458

RunNo: 34498

103

Units: mg/L

Prep Date: Analyte

Mercury

Client ID:

5/24/2016

Batch ID: 25483

0.0053 0.00020

Analysis Date: 5/26/2016

SeqNo: 1064046

SPK value SPK Ref Val %REC LowLimit

%RPD HighLimit 0.643

RPDLimit 20

Qual

Qualifiers:

R

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits

- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Detection Limit Sample container temperature is out of limit as specified Page 8 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B24

27-May-16

Client:

LTE

Project:

FCA Boller release

Sample ID MB-25513 Client ID: PBW		Type: ME			tCode: E RunNo: 3		Total Recove	rable Met	als	
Prep Date: 5/25/2016	Analysis				SeqNo: 1		Units: mg/L			
Frep Date. 3/23/2016	Allalysis	Date. 31	20/2010		seqivo.	1004000	Office. High			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
iron	ND	0.050								
_ead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Selenium	ND	0.050								
Silver	ND	0.0050								
Sodium	ND	1.0								

Sample ID LCS-25513	Samp	Type: LC	S	Tes	tCode: E	PA 6010B:	Total Recove	rable Met	als	
Client ID: LCSW	Bato	ch ID: 25	513	F	RunNo: 3	4500				
Prep Date: 5/25/2016	Analysis	Date: 5/	26/2016	\$	SeqNo: 1	064086	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.52	0.020	0.5000	0	104	80	120			
Barium	0.50	0.020	0.5000	0	100	80	120			
Cadmium	0.50	0.0020	0.5000	0	101	80	120			
Calcium	53	1.0	50.00	0	106	80	120			
Chromium	0.50	0.0060	0.5000	0	99.4	80	120			
Iron	0.50	0.050	0.5000	0	101	80	120			
Lead	0.50	0.0050	0.5000	0	99.4	80	120			
Magnesium	51	1.0	50.00	0	102	80	120			
Manganese	0.50	0.0020	0.5000	0	99.3	80	120			
Potassium	49	1.0	50.00	0	97.7	80	120			
Selenium	0.50	0.050	0.5000	0	100	80	120			
Silver	0.10	0.0050	0.1000	0	102	80	120			
Sodium	50	1.0	50.00	0	99.5	80	120			

Sample ID 1605B24-001CMS	Samp	ype: MS	3	Tes	tCode: E	PA 6010B:	Total Recove	rable Met	als	
Client ID: WS-01	Batcl	h ID: 25	513	F	RunNo: 3	4500				
Prep Date: 5/25/2016	Analysis E	Date: 5/	26/2016	8	SeqNo: 1	064090	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.53	0.020	0.5000	0	106	75	125		1 80 0	Spenish .
Barium	0.62	0.020	0.5000	0.1181	99.6	75	125			

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 9 of 13

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B24

27-May-16

Client:

LTE

Project:

FCA Boller release

Sample ID 1605B24-001CMS	Samp	Type: MS	3	Tes	tCode: El	PA 6010B:	Total Recove	rable Met	als	
Client ID: WS-01	Bato	ch ID: 25	513	F	RunNo: 3	4500				
Prep Date: 5/25/2016	Analysis	Date: 5/	26/2016	8	SeqNo: 1	064090	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.50	0.0020	0.5000	0	100	75	125			
Calcium	85	1.0	50.00	31.81	107	75	125			
Chromium	0.50	0.0060	0.5000	0	99.3	75	125			
Lead	0.50	0.0050	0.5000	0.007170	97.9	75	125			
Magnesium	53	1.0	50.00	1.701	103	75	125			
Manganese	0.61	0.0020	0.5000	0.1134	98.7	75	125			
Potassium	52	1.0	50.00	2.938	98.0	75	125			
Selenium	0.51	0.050	0.5000	0	102	75	125			
Silver	0.10	0.0050	0.1000	0	102	75	125			
Sodium	57	1.0	50.00	7.418	99.9	75	125			

Sample ID	1605B24-001CMS	SD Samp	Type: MS	SD	TestCode: EPA 6010B: Total Recoverable Metals								
Client ID:	WS-01	Bato	h ID: 25	513	RunNo: 34500								
Prep Date:	5/25/2016	Analysis Date: 5/26/2016			8	SeqNo: 1	064091	Units: mg/L					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Arsenic		0.54	0.020	0.5000	0	108	75	125	1.85	20			
Barium		0.62	0.020	0.5000	0.1181	101	75	125	0.998	20			
Cadmium		0.51	0.0020	0.5000	0	101	75	125	1.01	20			
Calcium		86	1.0	50.00	31.81	107	75	125	0.262	20			
Chromium		0.50	0.0060	0.5000	0	100	75	125	1.16	20			
Lead		0.50	0.0050	0.5000	0.007170	99.2	75	125	1.28	20			
Magnesium		53	1.0	50.00	1.701	102	75	125	0.834	20			
Manganese		0.61	0.0020	0.5000	0.1134	99.9	75	125	1.01	20			
Potassium		52	1.0	50.00	2.938	97.4	75	125	0.583	20			
Selenium		0.51	0.050	0.5000	0	102	75	125	0.323	20			
Silver		0.10	0.0050	0.1000	0	102	75	125	0.343	20			
Sodium		57	1.0	50.00	7.418	99.3	75	125	0.482	20			

Sample ID	1605B24-001CMS	SampTyp	e: M	S	Tes	tCode:	EPA 6010B:	Total Recove	rable Met	als				
Client ID:	WS-01	Batch ID: 25513 RunNo: 34500					34500							
Prep Date:	5/25/2016	Analysis Dat	e: 5 .	/26/2016	5	SeqNo:	1064099	Units: mg/L						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REG	C LowLimit	HighLimit	%RPD	RPDLimit	Qual			
ron		1.5	0.25	0.5000	0.7554	14	7 75	125			S			

- * 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 10 of 13

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B24

27-May-16

Client:

LTE

Project:

FCA Boller release

Sample ID 1605B24-001CMSD Client ID: WS-01

SampType: MSD Batch ID: 25513 TestCode: EPA 6010B: Total Recoverable Metals

RunNo: 34500

%REC

160

Prep Date: 5/25/2016

Analysis Date: 5/26/2016

SeqNo: 1064100

Units: mg/L

Analyte Iron

Client ID: WS-01

Result PQL 1.6 0.25 SPK value SPK Ref Val 0.5000 0.7554

LowLimit

HighLimit

4.52

RPDLimit Qual S

Sample ID 1605B24-001CPS

SampType: PS

TestCode: EPA 6010B: Total Recoverable Metals

%REC

RunNo: 34500

75

Units: mg/L

Analyte

Prep Date:

Batch ID: 25513 Analysis Date: 5/26/2016

SeqNo: 1064102

%RPD **RPDLimit**

Qual

Result PQL 0.25 SPK value SPK Ref Val 2.500

%RPD

Iron

3.2

0.7554

98.9

HighLimit 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 11 of 13

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Batch ID: R34491

PQL

20.00

SPK value SPK Ref Val

80.00

Analysis Date: 5/25/2016

Result

78.56

WO#: 1605B24

27-May-16

Client:

LTE

Sample ID mb-1	SampType: mblk	TestCode: SM2320B: Alkalinity	
Client ID: PBW	Batch ID: R34491	RunNo: 34491	
Prep Date:	Analysis Date: 5/25/2016	SeqNo: 1063833 Units: mg/L CaCO3	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Total Alkalinity (as CaCO3)	ND 20.00		
Sample ID Ics-1	SampType: Ics	TestCode: SM2320B: Alkalinity	
Client ID: LCSW	Batch ID: R34491	RunNo: 34491	
Prep Date:	Analysis Date: 5/25/2016	SeqNo: 1063834 Units: mg/L CaCO3	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Total Alkalinity (as CaCO3)	77.20 20.00 80.00	0 96.5 90 110	CAN THE STATE
Sample ID mb-2	SampType: mblk	TestCode: SM2320B: Alkalinity	
Client ID: PBW	Batch ID: R34491	RunNo: 34491	
Prep Date:	Analysis Date: 5/25/2016	SeqNo: 1063857 Units: mg/L CaCO3	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Total Alkalinity (as CaCO3)	ND 20.00		17
Sample ID Ics-2	SampType: Ics	TestCode: SM2320B: Alkalinity	
Client ID: LCSW	Batch ID: R34491	RunNo: 34491	
Prep Date:	Analysis Date: 5/25/2016	SeqNo: 1063858 Units: mg/L CaCO3	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Total Alkalinity (as CaCO3)	77.84 20.00 80.00	0 97.3 90 110	

Qualifiers:

Client ID: LCSS02

Total Alkalinity (as CaCO3)

Prep Date:

Analyte

- * 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

RunNo: 34491

%REC

SeqNo: 1063860

LowLimit

Units: mg/L CaCO3

%RPD

RPDLimit

Qual

HighLimit

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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B24

27-May-16

Client:

LTE

Project:

FCA Boller release

Sample ID MB-25493

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID:

PBW

Batch ID: 25493

PQL

20.0

RunNo: 34507

Prep Date: 5/25/2016

Analysis Date: 5/26/2016

SeqNo: 1064181 SPK value SPK Ref Val %REC LowLimit

Units: mg/L

RPDLimit

Qual

Analyte Total Dissolved Solids Result ND

%RPD

Sample ID LCS-25493

SampType: LCS

RunNo: 34507

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Prep Date:

5/25/2016

Batch ID: 25493

SeqNo: 1064182

Units: mg/L

HighLimit

Analyte

Analysis Date: 5/26/2016

PQL SPK value SPK Ref Val

%REC 100

HighLimit

Qual

1000

120

Total Dissolved Solids

20.0

1000

%RPD

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 13 of 13

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Work Order Number: 1605B24 RcptNo: 1 Received by/date: anne Alm 5/25/2016 7:45:00 AM Logged By: Anne Thorne anne Home Completed By: Anne Thome 5/25/2016 Reviewed By: Chain of Custody Not Present Yes No 🗌 1. Custody seals intact on sample bottles? Yes 🗸 No 🗌 Not Present 2. Is Chain of Custody complete? 3 How was the sample delivered? Courier Log In NA 🗌 Yes V No 🗌 4. Was an attempt made to cool the samples? NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No | Yes 🗸 No 🗌 6. Sample(s) in proper container(s)? Yes V No 7. Sufficient sample volume for indicated test(s)? No [Yes V 8. Are samples (except VOA and ONG) properly preserved? No V NA 🗌 Yes 🗌 9. Was preservative added to bottles? Yes V No 🗌 No VOA Vials 10. VOA vials have zero headspace? --Yes No V 11. Were any sample containers received broken? # of preserved bottles checked Yes V No 🗌 for pH: 12. Does paperwork match bottle labels? or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🗸 No 13. Are matrices correctly identified on Chain of Custody? Yes V No 14. Is it clear what analyses were requested? Checked by: A 05/25/16 No 🗌 Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗆 NA V 16. Was client notified of all discrepancies with this order? Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Signed By Seal Date 1.9 Good

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ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEA	L No. B24	BTEX + M	BTEX + M	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1) FDR (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8-Metals	Anions (F,	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	P#	Gener	THE X	Air Bubbles (Y or N)
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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

JUN 17 2016

Form C-141 Revised August 8, 2011

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

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

			Rel	ease Notific	cation	and Co	rrective A	ction								
						OPERATOR Initial Report Final Report										
		illiams Fou				Contact Mitch Morris										
				, NM 87413		Telephone No. 505-632-4708										
Facility Na	me Kutz C	Canyon Gas	Plant			Facility Typ	e Natural Gas	Proces	sing Plant							
Surface Ow	ner Burea	u of Land M	lanageme	ent Mineral C	wner				API No							
				LOCA	TION	OF REI	LEASE									
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County						
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			Yes [No Not Re	equired	Not Applic	able									
By Whom?						Date and H										
Was a Water	course Read		Yes 🗵	1 No		If YES, Volume Impacting the Watercourse. Not Applicable										
						Not Applie	abic									
If a Watercon	urse was Im	pacted, Descr	ibe Fully.													
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Printed Name	e: Mitch Mo	orris							u	7						
Title: Enviro	nmental Sp	pecialist				Approval Dat	e: 6/30/20	16	Expiration l	Date:						
E-mail Add	near Mitals I	Marrie Quilli	mo com				10									
E-man Addre	os. Willen.	Morris@willia	anis.com			Conditions of	Approvai:			Attached		43 "				
Date:	06/13/2016	Cult.	P	hone: 505-632-47	08	,										

* Attach Additional Sheets If Necessary

NVF1618251848

