3R-1013

Release Report/ General Correspondence

Williams SJ

Date: Apr-Jun 2016



OIL CONS. DIV DIST. 3

<u>District I</u> 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

* Attach Additional Sheets If Necessary

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.

			Rele	ease Notific	eation				19			
			-	110		OPERA'			Initia	al Report	\boxtimes	Final Rep
		/illiams Four		, NM 87413		Contact	Mitch Morris No. 505-632-47					_
Facility Na			Joinneid	, INIVI 6/413			e Compressor					
				() = 10			- Compressor		DY 3.1			
Surface Ow	ner Burea	u of Land M	anageme	ent Mineral C)wner			A	PI No),		
				LOCA	TION	OF RE	LEASE					
Unit Letter A	Section 32	Township 24N	Range 8W	Feet from the	North/	South Line	Feet from the	East/West	Line	County San Juan		
						6 Longitud						
				NAT	URE	OF REL						
Type of Rele Source of Re							Release 328.51 lour of Occurrence			me Recovere		
source of Re	lease valve	C					10:00 AM	æ		and Hour of /2016, 10:00		very
Was Immedi	ate Notice (Yes [No Not Re	equired	If YES, To N/A						
By Whom?						Date and I						
Was a Water	course Read		Yes 🗵	No		If YES, Vo	lume Impacting	the Watercou	irse.			
A valve on a as this discov	n inlet scrub very was ma		ertently leg the gas	eft open, allowing release to atmosph		gas to vent a	the hydrocarbon	liquid storag	ge tank	. The valve	was clo	osed as soo
No cleanup r	equired with	h gas release t	o atmosph	e is true and comp								
bublic health should their or the environment	or the environment. In a	ronment. The lave failed to a	acceptand dequately CD accep	nd/or file certain rece of a C-141 report investigate and restance of a C-141	ort by the emediate	NMOCD m contaminati	arked as "Final R on that pose a thr e the operator of	eport" does neat to ground responsibility	not reli l water y for co	ieve the opera r, surface wat ompliance wi	er, hun	liability nan health
		1.					OIL CON	SERVAT	ION	DIVISIO	M	/
Signature:	the	Man	,			Approved by	Environmental S	pecialist:	/		1-	4/
Printed Name	e: Mitch M	orris					11/1.1			DU	/	_/_
Title: Enviro	onmental Sp	ecialist				Approval Dat	e: 4/6/16	Expi	ration	Date:		
E-mail Addre	ess: mitch.r	morris@willia	ms.com			Conditions of	Approval:			Attached		
Date: March	28, 2016		Pl	hone: 505-632-470	08							

#NCS16097 32211

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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

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

			Rele	ease Notific	cation	and Co	orrective A	ction				
						OPERA'	ГOR		Initi	ial Report	\boxtimes	Final Report
Name of Co	ompany W	Villiams Four	Corners	LLC	(Contact	Matt Webre					
Address 1	755 Arroy	o Drive, Blo	omfield,	NM 87413			No. 505-632-44					
Facility Na	me Milagi	ro Gas Plant]	Facility Typ	e Gas Treating	g Plant				
Surface Ow	ner Priva	te		Mineral (Owner				API No	0.		
				LOCA	ATION	OF RE	LEASE					
Unit Letter O	Section 12	Township 29N	Range 11W	Feet from the		South Line	Feet from the	East/W	est Line	County San Juan		
			I			Longitud OF REL	e - <u>107.942329°</u> EASE	W				
Type of Rele							Release 59 MCI			Recovered		
Source of Re	elease Regu	ilator/Valve					Iour of Occurrence t 1:31 PM MST	ce		Hour of Dis		
Was Immedi	iate Notice (Yes [No Not R	equired	If YES, To			02/04/10	W 1.51 1 W	14101	
By Whom?						Date and I	Jour NA					
Was a Water	rcourse Read		Yes 🛛	1 No.			olume Impacting t	the Water	rcourse.			
Operator dis	covered reg		on inlet sa	ample location at			e was no longer no mately 59 MCF w					
		and Cleanup A		ken.* nted to atmospher	re.						173	
regulations a public health should their or the enviro	or the envi operations honment. In a	are required to ronment. The nave failed to	o report ar acceptant adequately OCD accep	nd/or file certain rece of a C-141 reporting investigate and r	release no ort by the remediate	otifications a NMOCD m contaminati	knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of	ctive action deport" do reat to gro	ons for rel oes not rel ound wate	leases which lieve the ope r, surface w	n may en erator of vater, hu	ndanger fliability man health
	12	2					OIL CON	SERV.	ATION	DIVISION	ON	
Signature:	1h				_	A	F		(Q	
Printed Nam	e: Matt We	bre				Approved by	Environmental S	pecialist		a	L	-
Title: EH&S	S Supervisor					Approval Da	te:5/2/24	b E	xpiration	Date:		15-
E-mail Addr	ess: matt.w	ebre@william	is.com			Conditions o	f Approval:			Attached	d 🗆	-1.0
Date:	03/31/2016		P	hone: 505-632-44	142	_						

NUF1605437593

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

Release Notification and Corrective Action

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

						OPERA	TOK		Initi	al Report	\bowtie	Final Repo
Name of Co	ompany W	/illiams Fou	Corners	LLC		Contact	Monica Sando	oval				
Address	1755 Arro	yo Drive, Bl	oomfield.	, NM 874	13	Telephone	No. 505-632-46	525				
Facility Na	me La	ateral N-2				Facility Ty	pe Pipeline					
Surface Ow Wildlife Ar		al- Middle N	⁄lesa	Mine	eral Owner				API No	0.		
				L	OCATIO	N OF RE	LEASE					
Unit Letter	Section 32	Township 32N	Range 6W	Feet from		h/South Line	Feet from the	East/	West Line	County San Juan	7	
G												
							le <u>-107.4811</u>					
				1	NATURE	OF REL						
Type of Rele							f Release 250 MC			Recovered (
Source of Re	elease Drip	tank blowing	to atmosp	here		The second secon	Hour of Occurrence, 8:59AM MST	ce		Hour of Dis 6, 8:59AM		
Was Immedi	ate Notice (Yes [No 🛛 N	Not Required	If YES, To Not Appli				DIL CONS	עום י	DIST. 3
By Whom?						Date and l	Hour		- (DIL GOINS	, DIV	Dio ii o
Was a Water	course Read		Yes 🗵	No			olume Impacting	the Wat	ercourse.	YAM	18	2016
		pacted Descr	ibe Fully *	k								
Describe Car Williams's p close valve.	use of Proble ersonnel we Williams's p	em and Reme ere notified by personnel ther	dial Action a produce headed to	n Taken.* er that a drip o location an	d was able t		esphere, upon noti nat cows had recer the piping.					
Describe Car Williams's p close valve. a valve open	use of Proble ersonnel we Williams's p . To preven	em and Reme ere notified by personnel ther it reoccurrence	dial Action a produce headed to Williams	n Taken.* er that a drip o location an s's personne	d was able t	o determine th	at cows had recen					
Williams's p close valve. a valve open Describe Are	use of Probleersonnel we Williams's p. To preven	em and Reme ere notified by personnel ther	dial Action a produce headed to Williams	n Taken.* er that a drip o location an s's personne	d was able t	o determine th	at cows had recen					
Describe Car Williams's p close valve. a valve open Describe Are No cleanup r I hereby cert regulations a public health should their or the enviro	use of Proble ersonnel we Williams's p . To preven ea Affected a equired with ify that the i ll operators or the environment. In a	em and Reme ere notified by personnel ther and Cleanup a h a gas release information gi are required t ronment. The tave failed to a ddition, NMC	dial Action a produce headed to Williams Action Tak ven above o report ar acceptance adequately OCD accep	n Taken.* er that a drip o location an s's personne cen.* e is true and od/or file cer ce of a C-14 r investigate	d was able to a removed the complete to tain release I report by to and remedia	the best of my notifications a he NMOCD mate contaminat	at cows had recen	inderstal etive act deport" of reat to gi	nd that pursions for rel loes not rel	suant to NM eases which ieve the ope r, surface wa	OCD rumay en rator of ater, human services and services are services and services are services a	ales and danger liability man health
Describe Car Williams's p close valve. a valve open Describe Are No cleanup r I hereby cert regulations a public health should their o or the enviro federal, state	ase of Proble ersonnel we Williams's p. To prevent a Affected a equired with ify that the i ill operators or the environerations homent. In a or local lay	em and Reme ere notified by personnel ther and Cleanup a h a gas release information gi are required t ronment. The	dial Action a produce headed to Williams Action Tak ven above o report ar acceptance adequately OCD accep	n Taken.* er that a drip o location an s's personne cen.* e is true and od/or file cer ce of a C-14 r investigate	d was able to a removed the complete to tain release I report by to and remedia	the best of my notifications a he NMOCD mate contaminat does not reliev	at cows had recerble piping. knowledge and und perform correctors arked as "Final Rion that pose a thr	anderstaletive active act teport" creat to grespons	nd that pursions for rel loes not rel round water ibility for c	suant to NM eases which ieve the ope r, surface was	OCD rumay en rator of ater, huivith any	ales and danger liability man health
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Describe Car Williams's p close valve. a valve open Describe Are No cleanup r I hereby cert regulations a public health should their or the enviro federal, state Signature:	ase of Proble ersonnel we Williams's p. To preven a Affected a equired with the interpretation of the environment. In a p. or local law the environment of the environment of the environment. In a p. or local law the environment of the environment. In a p. or local law the environment of the environment of the environment. In a p. or local law the environment of the enviro	em and Reme ere notified by personnel ther at reoccurrence and Cleanup h a gas release information gi are required t ronment. The lave failed to a ddition, NMC ws and/or regulated and cleanup	dial Action a produce headed to Williams Action Tak ven above o report ar acceptance adequately OCD accep	n Taken.* er that a drip o location an s's personne cen.* e is true and od/or file cer ce of a C-14 r investigate	d was able to a removed the complete to tain release I report by to and remedia	the best of my notifications a he NMOCD mate contaminat does not reliev	knowledge and und perform correctarked as "Final Rion that pose a three the operator of OIL CON	inderstal ctive act deport" of reat to green to	nd that pursions for rel loes not rel round water ibility for c	suant to NM leases which leave the ope r, surface was compliance v	OCD rumay en rator of ater, huivith any	ales and danger liability man health
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Describe Car Williams's p close valve. a valve open Describe Are No cleanup r I hereby cert regulations a public health should their or the enviro federal, state Signature: Printed Name Title: Enviro E-mail Addre Date:	ase of Proble ersonnel we Williams's p. To preven ea Affected: equired with the ill operators or the environment. In a preventions had not local law e. Monica Sommental Spess: Monica 605/13/2016	em and Reme ere notified by personnel there and Cleanup A h a gas release information gi are required to ronment. The save failed to a ddition, NMC was and/or regulated and color of the save failed to a ddition, NMC was and/or regulated.	dial Action a produce headed to williams Action Take Action Take oreport ar acceptance adequately OCD acceptance adequately oreport are acceptance acce	n Taken.* er that a drip to location an to's personne ten.* e is true and ad/or file cer te of a C-14 trinvestigate trance of a C	d was able to a removed the complete to tain release I report by the and remediant report to the complete to t	the best of my notifications a he NMOCD mate contaminat does not relieved. Approved by Approval Da Conditions of the co	knowledge and und perform correctance as "Final Ricord that pose a three the operator of OIL CON Environmental Steel Control C	inderstal ctive act deport" of reat to green to	nd that pursions for relations for relations and water ibility for conditions for the con	suant to NM eases which ieve the oper, surface was ompliance v	OCD remay en rator of ater, hur with any	ales and danger liability man health

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

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

			Rele	ease Notific	catio	n and Co	rrective A	ction					
						OPERA'	ГOR	K	Initia	al Report	\boxtimes	Final Report	
Name of Co	ompany W	Villiams Four	r Corners	LLC		Contact	Mitch Morris						
		yo Dr, Bloor	nfield, N	M 87413			No. 505-632-47						
Facility Na	me Trunk	Q Pipeline				Facility Typ	e Natural Gas	Gathering	thering Pipeline				
Surface Ov	ner BLM			Mineral C	wner			A	API No.				
				LOCA	TIO	N OF RE	LEASE						
Unit Letter O	Section 28	Township 26N	Range 08W	Feet from the		h/South Line	Feet from the	East/West	Line	County San Juan			
				Latitude 36.34				<u>N</u>					
T CD-1	C1-		1.C	NAI	UKE	OF REL			37	1 D			
Type of Rele	ase Conde	nsate and Nati	irai Gas				Release Approx ensate and 140 M			ls of conder		Approx. 5	
Source of Re	elease Pipel	ine					lour of Occurrence t 11:30 AM MST			te and Hou /22/16 at 11			
Was Immedi	ate Notice (Yes [No Not Re	equired	If YES, To	Whom?		104	722/10 at 11	JU ALI	TWO	
By Whom?						Date and I	Iour		انان	CONC	DIL C	107 0	
Was a Water	course Read		Yes 🗵] No			lume Impacting t	the Watercou	rse.	CONS.			
If a Waterco Not Applical		pacted, Descr	ibe Fully.	k						MAY 1	8 20	lb	
Describe Car Williams Op	use of Problerations Tec			n Taken.* the vicinity of the	Trunk	Q Pipeline and	d noticed a leak.	The pipeline	was in	nmediately	shut-in	and blown	
down to atm		and Cleanup A	Action Tal	cen *									
A crew was	immediately		commen	ce cleanup and rep	oair of	the pipeline.	Attached are the se	oil analytical	results	demonstra	ting tha	t	
regulations a public health should their or the enviro	Il operators or the envir operations h nment. In a	are required to ronment. The save failed to a	acceptant acceptant adequately CD accep	e is true and comp nd/or file certain r ce of a C-141 repo investigate and r otance of a C-141	elease i ort by the emedia	notifications as the NMOCD mate contamination	nd perform correct arked as "Final R on that pose a three the operator of	etive actions eport" does reat to ground responsibility	for rele not relied water for co	ases which eve the oper , surface wa ompliance w	may en ator of ter, hun ith any	danger liability nan health	
Signature:	Mhu	D'u	Man	4		Approved by	OIL CON		ION	DIVISIO	<u>N</u>		
Printed Nam							Long	SUP	L	5	-0.		
Title: Enviro	onmental Sp	pecialist				Approval Dat	:5 20 8	O Expir	ation I	Date:	7		
E-mail Addr	ess: Mitch.l	Morris@willia	ams.com			Conditions of	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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Trunk Q Line Leak

Lab ID: 1605107-001

Project:

Client Sample ID: Trunk Q Side Comp Site

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

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

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- 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 1 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.

Client Sample ID: Trunk Q Bottom Comp Site

CLIENT: Williams Field Services Collection Date: 5/3/2016 10:30:00 AM Project: Trunk Q Line Leak Received Date: 5/4/2016 7:55:00 AM Lab ID: 1605107-002 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	IGE 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 RA	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.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 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 RAN	IGE 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	NGE				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

PQL

RunNo: 34005

Prep Date:

5/4/2016

Analysis Date: 5/4/2016

SeqNo: 1047798

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

%RPD

RPDLimit

Qual

Chloride

Result

ND

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Sample ID LCS-25147

Batch ID: 25147

RunNo: 34005

Prep Date: 5/4/2016

Analysis Date: 5/4/2016

PQL

1.5

SeqNo: 1047799

Units: mg/Kg

Analyte

SPK value SPK Ref Val

%REC 94.3

HighLimit

RPDLimit

Chloride

LowLimit

Page 4 of 7

Qual

14

15.00

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

H

ND Not Detected at the Reporting Limit

% 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

P Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits R

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	F	RunNo: 3	3966						
Prep Date: 5/4/2016	Analysis D	Date: 5/	4/2016	8	SeqNo: 1	047132	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					

Surr: DNOP	9.8	10	10.00		97.9	70	130				
Analyte Diesel Range Organics (DRO)	Result	PQL 10	CONTRACTOR OF THE PARTY OF	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Prep Date: 5/4/2016	Analysis D)ate: 5/	4/2016	S	SeqNo: 1	047133	Units: mg/Kg				
Client ID: PBS	Batch	n ID: 25	140	F	RunNo: 3	3966					
Sample ID MB-25140	Sampi	ype: ME	BLK	lestCode: EPA Method 8015M/D: Diesel Range Organics							

1605107-001AMS	Sampi	ype: IVI	5	ies	(Code: E	PA Method	8015M/D: DI	esei Kang	e Organics	
Trunk Q Side Con	np Batch	ID: 25	140	F	RunNo: 3	3966				
5/4/2016	Analysis D	ate: 5/	4/2016	8	SeqNo: 1	047158	Units: mg/k	(g		
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
manics (DRO)	51	9.5	47.71	0	108	33.9	141			
iganics (DITO)	0.		- TIN - TIN - T	_						
	Trunk Q Side Con 5/4/2016	Trunk Q Side Comp Batch 5/4/2016 Analysis D Result	Trunk Q Side Comp Batch ID: 25 5/4/2016 Analysis Date: 5/ Result PQL	Trunk Q Side Comp Batch ID: 25140 5/4/2016 Analysis Date: 5/4/2016 Result PQL SPK value	Trunk Q Side Comp Batch ID: 25140 F 5/4/2016 Analysis Date: 5/4/2016 S Result PQL SPK value SPK Ref Val	Trunk Q Side Comp Batch ID: 25140 RunNo: 3 5/4/2016 Analysis Date: 5/4/2016 SeqNo: 1 Result PQL SPK value SPK Ref Val %REC	Trunk Q Side Comp Batch ID: 25140 RunNo: 33966 5/4/2016 Analysis Date: 5/4/2016 SeqNo: 1047158 Result PQL SPK value SPK Ref Val %REC LowLimit	Trunk Q Side Comp Batch ID: 25140 RunNo: 33966 5/4/2016 Analysis Date: 5/4/2016 SeqNo: 1047158 Units: mg/K Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit	Trunk Q Side Comp Batch ID: 25140 RunNo: 33966 5/4/2016 Analysis Date: 5/4/2016 SeqNo: 1047158 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD	Trunk Q Side Comp Batch ID: 25140 RunNo: 33966 5/4/2016 Analysis Date: 5/4/2016 SeqNo: 1047158 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit

Sample ID 16	605107-001AMSD	SampT	ype: MS	SD	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: Tr	runk Q Side Com	p Batch	ID: 25	140	F	RunNo: 3	3966					
Prep Date:	5/4/2016	Analysis D	ate: 5/	4/2016	SeqNo: 1047160 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Org	anics (DRO)	51	9.8	48.88	0	105	33.9	141	0.409	20		
Surr: DNOP		4.6		4.888		94.7	70	130	0	0		

Qualifiers:

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

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605107

05-May-16

Client:

Williams Field Services

Project:

Trunk Q Line Leak

Sample ID MB-25130	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch	ID: 25	130	R	RunNo: 3	3977						
Prep Date: 5/3/2016	Analysis D	ate: 5/	4/2016	S	SeqNo: 1	047281	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND	5.0										
Surr: BFB	910		1000		91.4	80	120					

Sample ID LCS-25130	Samp	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	е		
Client ID: LCSS	Batcl	n ID: 25	130	F	RunNo: 33977						
Prep Date: 5/3/2016	Analysis [ate: 5/	4/2016	S	SeqNo: 1	047282	Units: mg/k				
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				

- * 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 6 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	ype: ME	BLK	Test	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	n ID: 25	130	R	unNo: 3	3977					
Prep Date: 5/3/2016	Analysis D	ate: 5/	4/2016	S	eqNo: 1	047315	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	80	120				

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 D	Date: 5/	4/2016	5	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
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 7 of 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

	er: 1605107		RcptNo: 1
Received by/date: 1 M 05/04/16			
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		J.,,,,	
Chain of Custody			
1. Custody seals intact on sample bottles?	Yes	No 🗆	Not Present 🗹
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present
3. How was the sample delivered?	Courier		
<u>Log In</u>			
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 🗸	Matanagan
			# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No L	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:		There	
Client Instructions:		+ + + + + + + + + + + + + + + + + + +	2000
17. Additional remarks:			
18. Cooler Information	Paul Dat	Discord D	I
Cooler No Temp °C Condition Seal Intact Seal No 1 1.4 Good Yes	Seal Date	Signed By	

C	hain	-of-Cu	stody Record	Turn-Around	Time:	Same Day							E	RIS	/TE	20	MIN	AE	NT	AI	
lient:				☐ Standard	Rush	5-4-16		35												R	,
	VO 1			Project Name	2	5-4-16 1 e Leak	1											I CA			
ailing	Address	3: 1 3 9	CR 4900	TRUNK	(Q LIN	ie Leak		40	04.11			v.hal						1100			
1000				Project #:			-			lawki											
			NM 87413	-				Te	el. 50)5-34	15-3					345- uest					· ·
			- 4768	D :					<u></u>			^	man		Keu	uesi					
			morris Quillians . con	Project Mana	ger:		<u>2</u>	only	/ MRe)					SO4	co						
	Package: idard		☐ Level 4 (Full Validation)	mitch	morris		\$ (8021)	+ TPH (Gas only)	1/0			SIMS)		PO4,	PCB		,				
	itation		,		organ K	illien	+ TIMBIS	H	DRO	=	=	70 S		102,	082						_
NEL	AP	□ Othe	er	On Ice:	Yes	III.No		F +	30	18.	94.	82		3,6	3 / 8		(A)	-/			or N
EDD	(Type)			Sample Tem	perature: / 14		MIBE	BE.	(G	pd 4	od 5	0 or	stals	N,	ides	F	9	de			2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEADNO -	BTEX + MI	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorida			Air Bubbles (Y or N)
116	1020	Soil	FRUNK Q: 5: de compsito	1-402	Cool	70	X		X								ω.	X			
1/6	1030	soil	TRUNK Compsite	1-402	1	702	1		X									X	\top	+	\top
7/16	1045	501	TRUNK Q OFF	1-402	1	703	1		X				_		_			X	+	+	+
//6	,- (3	20.1	OF ROW	,		- 200	+^		/										+	+	+
			a) 2				+	-	-										+	+	+
							+												+	_	+
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																			\top	_	\top
				1			1													\top	\top
ite:	Time:	Relinquish	ed by:	Received by:	. 1	Date Time	Re	mark	s:												
3/16	1535	Morga	-7 Lillion	Mistro	Work	5/3/16 1535	1														
ite:	Time:	Relinquish	ed by:	Received by:		Date Time															
3/14	1940	Vin	stullatten	1/14	05	103/16 0755															
1	f necessary	samples sub	mitted to Hall Environmental may be sub-	contracted to other a	ccredited laboratorie	es. This serves as notice of the	nis poss	ibility.	Any s	ub-con	tracte	d data	will be	e clear	ly note	ated or	the a	nalytica	l report	t.	

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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

APR 1 1 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	ase Notific	catio	n and Co	rrective A	ction							
						OPERA		×	Initia	al Report	\boxtimes	Final Repor			
		illiams Four				Contact: Mi									
				nfield, NM 87			No.: (505) 632-4								
Facility Nar	ne: Chaco	Compressor	Station			Facility Typ	e: Compressor S	Station							
Surface Ow	ner: BLM			Mineral ()wner			F	API No).					
				LOCA	ATIO	N OF REI	LEASE								
Unit Letter N	Section 27	Township 29N	Range 11W	Feet from the	North	/South Line	Feet from the	East/Wes	t Line	County San Juan					
			L				-107.978413°	W							
T CD -1-	C1-			NAT	URE	OF REL			37-1	D	1 0 D	DI			
Type of Rele	ase: Conder	isate				condensate	Release: 8 BBL		conde	ne Recover	ed: 8 B	BL			
Source of Re	lease: Stora	ge vessel					lour of Occurrenc	e:		and Hour of	Discov	verv:			
							03/23/2016 at 10:			ated 03/23/					
Was Immedia	ate Notice C		Yes	No Not R	equired	If YES, To	Whom?								
By Whom?	Whom? as a Watercourse Reached?						Date and Hour:								
Was a Water	course Reac		Yes 🛛	No		If YES, Vo	lume Impacting t	he Waterco	urse.						
Williams per	se of Proble		se of conde	ensate due to hau			g a scheduled unlo					s of			
There were n	o observed	and Cleanup A issues observe on is required.			inment	liner. The con	densate was remo	eved from the	ne lined	secondary	contain	ment,			
regulations al public health should their of or the environ	or the envir operations h ment. In a	are required to conment. The ave failed to a	acceptance dequately CD accept	d/or file certain r e of a C-141 repo investigate and r	elease n ort by th emediat	otifications ar e NMOCD m e contamination	knowledge and und perform correct arked as "Final Room that pose a three the operator of r	tive actions eport" does eat to groun responsibili	for rele not reli d water ty for co	eases which ieve the ope r, surface we ompliance v	may er erator of ater, hu with any	ndanger liability man health			
	11-	,					OIL CONS	SERVAT	ΓΙΟΝ	DIVISIO	ON				
Signature:	mi					A	Endament I S	0		()_				
Printed Name	e: Matt Web	ore				Approved by	Environmental Sp	pecialist:)Our	ملك ا	-				
Title: EH&S	Supervisor					Approval Dat	e:3 3 2011	O Exp	iration	Date:					
E-mail Addre	ess: matt.we	bre@williams	.com			Conditions of	Approval:			Attached					
Date: 04/07/2	016	Ph	one: (505)	632-4442											

NUF1615253786

O

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

* Attach Additional Sheets If Necessary

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.

	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 Pro	cessing Plant						
Surface Owner Bureau of Land Management Mineral Owner	er	API No.						
LOCATI	ON OF RELEASE							
		ast/West Line County						
D 13 28N 11W		San Juan						
Latitude 36° 40.06	4 N Longitude <u>107° 57.795 W</u>							
NATUR	E OF RELEASE							
Type of Release Natural Gas	Volume of Release 226.908 MC	CF 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 Requir	If YES, To Whom? Not Applicable							
By Whom?	Date and Hour							
Was a Watercourse Reached?	If YES, Volume Impacting the V	Vatercourse.						
☐ Yes ☒ No	Not Applicable OIL CONS. DIV DIST. 3							
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken.*		MAY 18 2010						
are designed to open at a predetermined set point to protect the integrit established, pressures in the plant normalized allowing the PRV to clos 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 t regulations all operators are required to report and/or file certain releas public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report	to the best of my knowledge and under the notifications and perform corrective the NMOCD marked as "Final Reporting the contamination that pose a threat the notification is the notification of the notificat	rstand that pursuant to NMOCD rules and actions for releases which may endanger rt" does not relieve the operator of liability o ground water, surface water, human health						
federal, state, or local laws and/or regulations.	OII CONSEI	DVATION DIVISION						
		RVATION DIVISION						
12/11								
Signature: Must Mund	Approved by Environmental Specia	alist:						
Signature:								
Printed Name: Mitch Morris	Conosse	X						
Title: Environmental Specialist	Approval Date: 0607 2018	Expiration Date:						
E-mail Address: Mitch.Morris@williams.com	Conditions of Approval:	Attached						
Date: 05/06/2016 Phone: 505-632-4708								

NVF 1615937683

OIL CONS. DIV DIST. 3

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

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

1220 5. 50. 110	icis Dr., Danie	410, 11111 07500	e.	Sa	anta Fe	e, NM 875	05				
			Rele	ease Notific	cation	and Co	rrective A	ction			
						OPERA'	OR		nitial Report	\boxtimes	Final Report
Name of Co	ompany W	illiams Four	Corners	LLC		Contact	Mitch Morris				•
		yo Dr, Bloor				Telephone N	No. 505-632-47	708			
Facility Na	me Crow	Mesa Compi	essor Sta	ition		Facility Typ	e Compressor	Station			
Surface Ow	ner State	of NM		Mineral (Owner			API	No.		
				LOCA	ATIO	N OF REI	EASE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Lin	ne County		
Е	02	24N	08W						San Juan		
				Latitude 36.34	1 484° N	Longitud	e -107.66087° \	W			
						OF REL		_			
Type of Rele	ase Conde	nsate and Nati	ıral Gas	- 11-2-2	Cata		Release Approx	imately 10	Volume Rec	overed a	8 bbls
						bbls Conde	nsate and 1,604		Condensate a		Control of the contro
						Natural Ga	S		mixture from containment	second	ary
Source of Re	elease Stora	ge Tank					our of Occurrence	ce	Date and Ho 02/29/16 at 0		
Was Immedi	ate Notice (Given?				If YES, To	Company of the Compan		02/29/10 at 0	0.50 I N	1 MS1
			Yes [No Not R	equired	Cory Smith	and Vanessa Fie	elds, NMOCD			
By Whom?							our 03/01/16 at				
Was a Water	course Read		Yes 🗵	1 No			lume Impacting	the Watercourse			
				31 000.00		Not Applic	able				1
If a Waterco		pacted, Descr	ibe Fully.	*							
		em and Reme	dial Actio	n Taken.*							
				e Crow Mesa Co							
				me point during t to be approximat							
				side of the second							
				berms to prevent							
		and Cleanup									
				and demonstrated to confirmation so							
				he area outside the							
		nup standards					,				
				is true and comp							
				nd/or file certain r							
				ce of a C-141 report investigate and r							
				otance of a C-141							
federal, state	, or local lav	ws and/or regu	ilations.								
			1				OIL CON	SERVATIO	N DIVISI	<u>ON</u>	
		111									
	Mhu	///	11/1	1		Approved by	Eqvironmental S	nemalist:			
Signature:	Mou	a u				1					
Printed Nam	e: Mitch M	orris					bun	·	\rightarrow		
Title: Enviro	onmental S	pecialist				Approval Dat	05/CG/P:0	Expirati	on Date:		
E-mail Addr	ess: Mitch.	Morris@willia	ams.com			Conditions of	Approval:		Attache	d 🗆	

Date: 04/21/2016

* Attach Additional Sheets If Necessary

Phone: 505-632-4708

NVF1608234490





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: 16036

1603698-001

Matrix: MEOH (SOIL)

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

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	3/15/2016 11:19:36 AM	24265
EPA METHOD 8015M/D: DIESEL RA	NGE 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 R	ANGE				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
- 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#:

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

SPK value SPK Ref Val %REC LowLimit

Prep Date: 3/15/2016

PQL

Analysis Date: 3/15/2016

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

SeqNo: 1006048

LowLimit

Units: mg/Kg

Prep Date: 3/15/2016

Analysis Date: 3/15/2016

HighLimit

%RPD

Analyte

PQL

1.5

SPK value SPK Ref Val %REC

0

94.0

RPDLimit

Qual

Chloride

14

15.00

110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- 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
- Value above quantitation range E
- Analyte detected below quantitation limits
- P 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#:

1603698

16-Mar-16

Client:

Williams Field Services

Project:

Surr: DNOP

Crow Mesa CDP Inside Fence

8.0

Diesel Range (Organics (DRO)	ND	10								
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date:	3/15/2016	Analysis Date	: 3/	15/2016	5	SeqNo:	1004733	Units: mg/F	≺g		
Client ID:	PBS	Batch ID	: 24	246	F	RunNo:	32789				
Sample ID	MB-24246	SampType	e: ME	BLK	Tes	tCode: I	EPA Method	8015M/D: Di	esel Rang	e Organics	

10.00

Sample ID LCS-24246	Samp	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batc	h ID: 24	246	F	RunNo: 3	2789				
Prep Date: 3/15/2016	Analysis [Date: 3/	15/2016	8	SeqNo: 1	004810	Units: mg/k	K g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	70.8	65.8	136			
Surr DNOP	3.9		5 000		77.5	70	130			

80.3

70

130

Sample ID 1603698-001AN	IS SampT	ype: MS	3	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: Crow Mesa cdp	Insi Batch	ID: 24	246	F	RunNo: 3	2789				
Prep Date: 3/15/2016	Analysis D	ate: 3/	15/2016	8	SeqNo: 1	004960	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	9.4	47.21	0	69.6	31.2	162			
Surr: DNOP	3.6		4.721		76.0	70	130			

Sample ID	1603698-001AMSD	SampTy	pe: Ms	SD	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	Crow Mesa cdp Ins	si Batch	ID: 24	246	F	RunNo: 3	2789				
Prep Date:	3/15/2016	Analysis Da	ite: 3/	15/2016	S	SeqNo: 1	004961	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	37	9.6	47.98	0	77.0	31.2	162	11.7	31.7	
Surr: DNOP		3.6		4.798		74.7	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

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#:

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 Prep Date: 3/14/2016 Analysis Date: 3/15/2016 SeqNo: 1005398 Units: mg/Kg Analyte Result SPK value SPK Ref Val %REC PQL HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1100 1000 108 66.2 112

Sample ID LCS-24232	Samp	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: LCSS	Batc	n ID: 24	232	F	RunNo: 3	2794				
Prep Date: 3/14/2016	Analysis [ate: 3/	15/2016	S	SeqNo: 1	005399	Units: mg/F	(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	Type: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 24	232	F	RunNo: 3	2794				
Prep Date: 3/14/2016	Analysis D	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	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	h ID: 24	232	F	RunNo: 3	2794				
Prep Date: 3/14/2016	Analysis D	Date: 3/	15/2016	5	SeqNo: 1	005416	Units: mg/F	(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

Albuquerque, NM 87109 Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number	1603698		RcptNo: 1
Received by/date: 62 15 16			
Logged By: Lindsay Mangin 3/15/2016 8:00:00 AM		of the state of	
Completed By: Lindşay Mangin 3/15/2016 8:08:00 AN	1	Spready Hope	
Reviewed By: 03/15/10		000	
Chain of Custody			
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present ☑
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present
3. How was the sample delivered?	Courier		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	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
12 Doos canaguark match hattle labels?	Yes 🗸	No 🗆	bottles checked for pH:
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	res 🖭	NO L	(<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:		,	
Client Instructions:			Parlitation - management of the latest and the late
17. Additional remarks:			
18. Cooler Information			
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	
1 2.9 Good Yes			

ent:	WF Address	5 188 Field	LR 4900 Nm 874/3	□ Standard Project Name • Row y Project #:	Rush	Same Day 3-15-16 Juside dp Fence				Al	WW.ha	LY: allenv	SIS viron	ment erque	AE al.co e, NI 345-	om M 87	RA	TO	AL	
stan Credi	Package: dard tation	Kelser.	Christiansch@williem · Con Level 4 (Full Validation)	Kelse	Y CIristi Organ Ki		MTBE + TMB's (8021)	rBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	od 418.1)	PAH's (8310 or 8270 SIMS)	etals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	A)	i-VOA)	.do			3 (Y or N)
ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MT	BTEX + MTBE	TPH 8015E	TPH (Method 418.1)	PAH's (831	RCRA 8 Metals	Anions (F,0	8081 Pesti	8260B (VOA)	8270 (Semi-VOA)	Chlorido			Air Bubbles (Y or N)
1/16	1:15	soil	Crow McSa cop	1-402	Cool		X		*								×			
te: //6 te:	Time: 1545 Time: 1821	Relinquish Relinquish	y-Zellion	Received by:	last o	Date Time 3/14/11, 1545 Date Time BISIL USO		narks		honotro	tad desired	a well h	a risera	the soletine	ded or	a the re	nahdien	- Import		



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 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 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 Qual	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	GE 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 RAI	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

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 24388

RunNo: 33002

Prep Date: 3/22/2016

Sample ID LCS-24388

LCSS

3/22/2016

Analysis Date: 3/22/2016

SeqNo: 1012346

Units: mg/Kg

HighLimit

Qual

Analyte Chloride

Client ID:

Prep Date:

PQL ND 1.5

SampType: LCS Batch ID: 24388

Analysis Date: 3/22/2016

PQL

TestCode: EPA Method 300.0: Anions

RunNo: 33002

SeqNo: 1012347

Units: mg/Kg

HighLimit

RPDLimit

RPDLimit

Qual

Chloride

15.00

0

SPK value SPK Ref Val %REC LowLimit

95.2

Analyte

14

1.5

SPK value SPK Ref Val %REC

LowLimit

110

%RPD

%RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

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 B

Value above quantitation range

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#:

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 LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 10 50.00 94.3 65.8 136 Surr: DNOP 3.8 5.000 76.8 70 130

Sample ID MB-24294	CompT	uno: ME	OI K	Tool	Codo: El	DA Mothod	904 FM/D. D.	seel Bana	Organias	
Sample 1D 1415-24294	Sampi	ype: ME	DLK	ies	Code. El	PA Wethou	8015M/D: Di	esei Kang	e Organics	
Client ID: PBS	Batch	ID: 24	294	R	tunNo: 3	2883				
Prep Date: 3/17/2016	Analysis D	ate: 3/	18/2016	S	eqNo: 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:

Crow Mesa CDP Outside Fence

Result

Result

1200

ND

1100

1100

Sample ID MB-24321

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 24321

RunNo: 32893

Prep Date:

3/17/2016

Analysis Date: 3/18/2016

SeqNo: 1008613

%REC

Units: %Rec

HighLimit

LowLimit

LowLimit

66.2

66.2

66.2

112

RPDLimit

Qual

Analyte Surr: BFB

Client ID:

Prep Date:

1100

SPK value SPK Ref Val 1000

108

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Sample ID LCS-24321

LCSS

SampType: LCS Batch ID: 24321

SPK value SPK Ref Val

RunNo: 32893

Units: %Rec

112

Analyte Surr: BFB 3/17/2016

Analysis Date: 3/18/2016 PQL

SeqNo: 1008614 %REC

HighLimit

%RPD **RPDL** imit

Qual S

Sample ID MB-24316

Client ID: PBS SampType: MBLK

Batch ID: 24316

1000

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 32893 SeqNo: 1008621

117

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

Prep Date:

3/17/2016 Analysis Date: 3/18/2016 Result

PQL

5.0

SPK value SPK Ref Val %REC

LowLimit

%RPD

RPDLimit

Qual

Surr: BFB

Client ID: LCSS

Sample ID LCS-24316

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

106

RunNo: 32893

HighLimit

Prep Date: 3/17/2016 Analyte

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

SegNo: 1008622

114

Units: mg/Kg

112

Qual

Gasoline Range Organics (GRO) Surr: BFB

Result PQL 26 5.0

SPK value SPK Ref Val 25.00 1000

1000

%REC 103

LowLimit HighLimit 80 66.2

120 112 %RPD

RPDLimit S

Qualifiers:

H

R

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit 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
- Analyte detected below quantitation limits
- Page 4 of 5

- 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#:

RPDLimit

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

LowLimit

80

Client ID:

PBS

Batch ID: 24321

RunNo: 32893

Prep Date: 3/17/2016

Analysis Date: 3/18/2016

SegNo: 1008645

Units: %Rec

HighLimit

Surr: 4-Bromofluorobenzene

113

Qual

Sample ID LCS-24321

SampType: LCS

1.2

Result

Result

1.0

1.2

Result

1.1

TestCode: EPA Method 8021B: Volatiles

120

Client ID:

LCSS

Batch ID: 24321

RunNo: 32893

Prep Date: 3/17/2016

Analysis Date: 3/18/2016

SeqNo: 1008646

SPK value SPK Ref Val %REC

1.000

1.000

Units: %Rec

Analyte Surr: 4-Bromofluorobenzene Result

SPK value SPK Ref Val POL

%REC 121

HighLimit LowLimit 80

%RPD **RPDLimit**

%RPD

%RPD

Qual

S

Sample ID MB-24316

SampType: MBLK

RunNo: 32893

TestCode: EPA Method 8021B: Volatiles

120

Prep Date:

Client ID: PBS

Batch ID: 24316 3/17/2016

Analysis Date: 3/18/2016

SeqNo: 1008653

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Benzene

Xylenes, Total

Toluene Ethylbenzene

ND 0.025 ND 0.050 ND 0.050

> ND 0.10 1.1 1.000

113

80

120

Surr: 4-Bromofluorobenzene Sample ID LCS-24316

Client ID: LCSS SampType: LCS Batch ID: 24316

TestCode: EPA Method 8021B: Volatiles

RunNo: 32893

LowLimit

HighLimit

Prep Date: 3/17/2016 Analyte

Analysis Date: 3/18/2016

SeqNo: 1008654

%REC

Units: mg/Kg

120

120

%RPD **RPDLimit** Qual

Benzene Toluene Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

0.98 0.050 0.99 0.050 2.9 3.000 0.10

PQL

0.025

0 1.000 1.000 0

0

SPK value SPK Ref Val

1.000

1 000

0 102 80 97.7 80 98.9 80 98.1

116

120 80 120 80 120

Qualifiers:

S

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

% 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 B

E Value above quantitation range

Analyte detected below quantitation limits

Page 5 of 5

P 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 N	lumber: 1603848		RcptNo: 1	
Received by/date: 05/16/10	5 (Mark)			
Logged By: Lindsay Mangin 3/16/2016 7:45:	00 AM	Juney Harge		1
Completed By: Lindsay Mangin 3/16/2016 3:11:	43 PM	Simily Happy		
Reviewed By: Qu 03/17/1/		000		:
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			
<u>Log In</u>				
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 L	for pH: (<2 or >12 unles	s 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 🗹	
#2000billion in Anni Anni Anni Anni Anni Anni Ann				
	Date	Dhana 🗀 Fau	□ la Bassas	
By Whom: Regarding:	Via: eMail	Phone Fax	☐ In Person	
Client Instructions:		AND DESCRIPTION OF THE PARTY OF	ACCOUNTS AND	
17. Additional remarks:		*****		
11. Auditional remarks.				
18. Cooler Information	Na Learner L	Claused B. I		
Cooler No Temp °C Condition Seal Intact Seal	No Seal Date	Signed By		
		1		

	hain	-of-Cu	ustody Record	Turn-Around	Time:					ŀ	A	LL	E	NV	/TF	20	NI	ИE	NT	AL	
ient:	WFS			Standard	□ Rush_				F		SALL BOOK STATE									DR	
				Project Name	:	Fence								iron							
ailing	Address	: 188	CR4900	crow	mesaco	out 5:de		49	01 H					ouque				109			
310	om F		NM 87413	Project #:		Fence out 5:4c				5-34				Fax							
			5-7400							and the same		A	nal	ysis	Req	uest		2.5			البع
nail o	r Fax#: /	Kc15ex. (hristians cal Quillians	Project Mana	iger:		=	nly)	/ MRO)			2		040	10						
	Package:		Level 4 (Full Validation)	Kelst	christic	ensen	₹MB's (8021)	TPH (Gas only)	10/10			SIMS)	E (A)	PO4,S	PCB's						
	itation						T Š	HH	DRO	_	=	20.8		102,	082						
NEL	AP	□ Othe	er	On Ice:	Z Yes ::	□ No	+	+	20	418.1)	504.1)	8270		03,1	8/8		(A)				Or N
EDD	(Type)			Sample Tem	berature: Zi	3-1,0c==1,3	MEBE	MTBE	(GRO	bd 4		0 or	stals	N.	ides	F	9	ride			2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1	BTEX + M	BTEX + MT	TPH 8015B	TPH (Method	EDB (Method	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Ch 100	1		Air Bubbles (Y or N)
1/6	1:45	soil	crow Mesa CDP outside Fence	1-402	Cool	-001	X	ш	X		-	u.	U.	1	ω.	w	ω,	X			
ite:	Time:	Relinquish	dillion	Required by:	1 het	Date Time 3/15/16 150		nark	s:												
ite:	Time:	Relinquish	ed by:	Received by:	mu	Date Time	-														
1/14	1847	/ Ans	the liberton	4	45 a	3/16/16 0740	-														
Aller - Inches	necessary.	samples sub	mitted to Hall Environmental may be subc	ontracted to other a	ccredited laboratories	This serves as notice of the	is nossi	hility	Anv si	b-cont	tracted	d data	will be	e clear	ly nots	ated or	the a	nalutio	al repor	+	

<u>District I</u> 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

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.

		_				OPERA'	TOR		Initi	al Report
		illiams Four				Contact	Mitch Morris		•	
				, NM 87413			No. 505-632-47			
Facility Na	me Kutz (Canyon Gas l	Plant			Facility Typ	e Natural Gas	Proces	sing Plant	
Surface Ow	vner Burea	u of Land M	lanageme	ent Mineral O	wner				API No),
				LOCA	TION	OF RE	LEASE			
Unit Letter D	Section 13	Township 28N	Range 11W	Feet from the	North/	South Line	Feet from the	East/	West Line	County San Juan
				Latitude 36° 40				V		
T CD-1-	No.	1.0		NAT	URE	OF REL		MCE	W-home I	December 1 0
Type of Rele		ure Relief Va	vo (DDV)				Release 50.424 Hour of Occurrence			Recovered 0 Hour of Discovery
Source of Re	riease Press	ure Kellei Va	ive (PKV)				03:55 AM MST	æ		6, 03:55 AM MST
Was Immedi	iate Notice (Yes [No Not Re	quired	If YES, To Not Applie				
By Whom?	-					Date and I	Hour			
Was a Water	rcourse Read		Yes 🗵] No		If YES, Vo	olume Impacting t cable	the Wat	ercourse (CONS. DIV DIST. 3
If a Waterco	urse was Im	pacted, Descr	ibe Fully.							MAY 18 2010
predetermine plant normal	ed set point lized allowing		integrity o close auto	f equipment and e matically.						V) are designed to open at a re-established, pressures in the
No cleanup	required wit	h a gas release								
regulations a public health should their or the enviro	all operators n or the envi operations h onment. In a	are required to ronment. The nave failed to	o report an acceptant adequately OCD accep	nd/or file certain re ce of a C-141 repo investigate and re	elease no ort by the emediate	otifications a NMOCD m contaminat	nd perform correct arked as "Final R on that pose a three the operator of	etive act eport" of eat to go respons	ions for rel does not rel round water ibility for c	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other
		1					OIL CON	SERV	ATION	DIVISION
	11/	2/1	/			Approvedby	Environmental S	polialia	1	
Signature: <u>2</u>			mb			Approved by		Clairs		
Printed Nam	e: Mitch Mo	orris					andre	=	cu	
Title: Enviro	onmental S	pecialist				Approval Da	te: 6 7/201	6	Expiration	Date:
E-mail Address: Mitch.Morris@williams.com Conditions of Approval: Attached									Attached	
Date:	05/06/2016		P	hone: 505-632-470	08					

* Attach Additional Sheets If Necessary

NVF1615938029



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
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State of New Mexico Energy Minerals and Natural Resources

Santa Fe, NM 87505

Release Notification and Corrective Action

JUN 1 0 2016

Form C-141 Revised August 8, 2011

Oil Conservation Division
Submit 1 Copy to ap
accorda
1220 South St. Francis Dr.

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

						OPERA'	ГOR	×	Initial Report	\boxtimes	Final F	Repo
Name of Co						Contact	Mitch Morris					
			oomfield,	NM 87413		Telephone No. 505-632-4708						
Facility Name Buena Vista						Facility Type Compressor Station						
Surface Own	ner Burea	u of Land M	lanageme	nt Mineral C	Owner			AP	I No.			
						VOEDE						
I I alt I attan	C + :	T1'	D			N OF RE		E				
A A	The state of the s						Feet from the	East/West Line County San Juan				
				Latitude	36.275	66 Longitud	e <u>-107.698</u>					
				NAT	URE	OF REL	EASE					
Type of Release Natural Gas						Volume of Release 539 MCF Volume Recovered 0 MCF						
Source of Release Valve						Date and Hour of Occurrence			Date and Hour of Discovery			
Was Immediate Notice Given?						5/20/2016, 10:30 AM 5/20/2016, 10:30 AM If YES, To Whom?						_
			Yes	No Not Re	equired		n, NMOCD via P	hone Call and	follow-up Emai	1		
By Whom? N	Mitch Morr	is				Date and F	Iour: Email 5/20/	2016 3:49 PM				
Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse.						
			Yes 🛛	No		N/A						
If a Watercoun	rse was Im	pacted, Descr	ibe Fully.									
BLM Busines	s Lease No	. BL-2127		to atmosphere.								
Describe Area No cleanup re												
regulations all public health of should their of	operators or the envir perations had ment. In a	are required to onment. The ave failed to a ddition, NMO	acceptant acceptant adequately CD accep	is true and comp d/or file certain n e of a C-141 repo investigate and n tance of a C-141	elease n ort by the emediate	otifications are e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a three the operator of	etive actions for eport" does not eat to ground we responsibility	or releases which to relieve the operator, surface water, surface water compliance	n may er erator of ater, hu with any	ndanger liability man heal	lth
						OIL CONSERVATION DIVISION						
Signature: Wheel Whom												
signature:	- Cure	a conte				Approved by	Environmental S	pecialist:		1	_	-
Printed Name:	Mitch Mo	orris							more	-		>
Title: Environmental Specialist						Approval Date: Expiration Date:						
E-mail Addres	ss: mitch.n	norris@willia	ms.com			Conditions of	Approval:		Attached	1 🗆		
Date: June 2,				e: 505-632-4708					24-5-6			
Attach Additi	onal Shee	ts If Necess	ary			NVF	16/67:	33079	6			

OIL CONS. DIV DIST. 3

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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'	ГOR		Initi	al Report Final F	Repor
		illiams Fou				Contact	Kijun Hong				
Address	1755 Arro	yo Drive, B	loomfiel	d, NM 87413		Telephone 1	No. 505-632-44	475			
Facility Na	me Hubba	ard 3A Met	er			Facility Typ	e Natural Ga	s Pipel	ine	Contract and	
Surface Ow	ner Priva	te		Mineral O	wner				API No).	
				LOCA	TION	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	
						Longitud	e <u>-108.08944</u>				
Type of Rele	ase Natur	al Gas		NAI	UKE		Release 134.502	MCF	Volume I	Recovered 0	
		en ¼ inch sa	mple port				lour of Occurrent			Hour of Discovery	
	FIG.					5/31/2016,	11:00 AM MST			6, 09:00 AM MST	
Was Immedi	ate Notice (Yes [No Not Re	quired	If YES, To Not Appli				- 4.10	
By Whom?						Date and H	lour				
Was a Water	course Read		Yes 🗵	No			olume Impacting	the Wat	ercourse.		
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*							
Describe Are	lated and the	and Cleanup	e stopped Action Tal	7 - 7	tmosph	ere. Livestoo	k rubbing again	st the p	ort is the r	nost likely cause. The brol	ken
I hereby cert regulations a public health should their or the enviro	ify that the i all operators or the environment. In a	are required to ronment. The save failed to	iven above o report an acceptand adequately OCD accep	nd/or file certain re ce of a C-141 report investigate and re	elease no rt by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thi	ctive act deport" of reat to gr	ions for rel loes not rel round water	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human heal ompliance with any other	,
Signature:	F	5	1	3	1	Approved by	OIL CON			DIVISION	
Printed Nam	e: Kijun Ho	ong					Jon	2000	2		17
Title: Envir	onmental 5	Specialist				Approval Dat	te: 06/15/2	DIA	Expiration	Date:	
E-mail Addr	ess: Kijun.	Hong@Willi	ams.com			Conditions of	Approval:			Attached	
Date: 06/03/2016 Phone: 505-632-4475											

* Attach Additional Sheets If Necessary

WF1616735187



OIL CONS. DIV DIST. 3

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JUN 1 0 2016

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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.

						OPED	TOD			I D	12	m: 1 m
Name of C	mnont II	Villiams Fou	r Cornora	LLC		OPERA' Contact	Michael Han	nan	Initi	al Report	\boxtimes	Final Rep
		yo Dr, Blooi					No. 505-632-4					
		ro Gas Plant		0/115			be Facility					
Surface Ow	mer Priva	te		Mineral O	wner				API No)		
Surface Ov	inci Tiiva	ic							AIII	,.	45	
II-is I -ts	C	Townstin	D			OFRE	Feet from the	F4/3	Mark I ima	Ct-		
Unit Letter O	Section 12	Township 29N	Range 11W	Feet from the	North/	South Line	reet from the	East	West Line	County San Juan		
			1	Latitude 36.7359	966° N	Longitud	e - <u>107.942329</u> °	W				
				NAT	URE	OF REL	EASE					
Type of Rele	ease Water					Gallons Be	Release 34,000 oiler Feed onized Water mix			Recovered ed Water/D		
Source of Re	elease Boile	er Feed Water	Vessel			Date and H	Hour of Occurrent: 00 PM MST		Date and	Hour of Di 2:00 PM M		
Was Immedi	ate Notice (Yes [No Not Re	quired	If YES, To Cory Smit	h, NMOCD					
By Whom?	Matt Webr	re					Hour 05/24/16 at					
Was a Water	course Rea		Yes 🗵	No		If YES, Vo	olume Impacting	the Wat	ercourse.			
If a Waterco	urse was Im	mantad Dans										
Describe Car	use of Probl	lem and Reme	dial Actio	* n Taken.*The boild tank of deionized v								
Describe Car the heat in the in the vessel drainage dite from the dra The cause of	use of Proble recirculate overflowing the located so inage with vertical the boiler vertical recognitions.	lem and Reme ted water. As a g and releasin outhwest of th vacuum trucks water release v	edial Actionaresult, a tegaporoxir e plant and to allevia was attribu	n Taken.*The boild tank of deionized valuely 34,000 galled d FCA office. The te any potential contents to the installati	water water ons of a water stancern from of the	as released in mixture of b topped travel om water rea te new exces	to the boiler feed oiler feed water a ling in a low topo aching the wash less steam bay. Duri	water v and deion graphic ocated a	essel to ma nized water drainage ar few hundre	intain temp The water ea. The war ed feet to the	traveled ter was re te south/s	This resulte to a ecovered outhwest.
Describe Ca the heat in the in the vessel drainage dite from the dra The cause of point between Describe Are Milagro faci	use of Proble recirculate overflowing the located so inage with which the boiler was the two steads of the boiler was affected lity prior to results and p	lem and Reme ted water. As a g and releasin outhwest of th vacuum trucks water release v tream bays so and Cleanup disposal. Wat process knowl	edial Actional result, a transport of a result, a transport of a plant and transport of a result of a result, a transport of a result of a r	n Taken.*The boild tank of deionized wately 34,000 galled d FCA office. The te any potential con	water water stancern from of the oreoccurrent part of the oreoccurrent	as released in mixture of b topped travel om water rea he new excess ar in the future 00 gallons of rected by OC	to the boiler feed oiler feed water a ling in a low topo aching the wash less steam bay. Dur- re. water was recoved (Vanessa Field	water v and deion graphic ocated a ing the o ered and ds) and t	essel to ma nized water drainage ar few hundre butage, oper I mixed wit he results v	intain tempt. The water ea. The wared feet to the rations elim	r traveled ter was re the south/s inated the &P wate itted via	This resulted to a ecovered outhwest. e choke r from the email on
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1605B89

Date Reported: 5/27/2016

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

Lab ID: 1605B89-001 Matrix: MEOH (SOIL) Received Date: 5/26/2016 7:54:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	3			Analyst:	КЈН
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/26/2016 12:01:59 PM	25515
Surr: DNOP	84.5	70-130	%Rec	1	5/26/2016 12:01:59 PM	25515
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	5/26/2016 10:25:50 PM	25505
Surr: BFB	111	80-120	%Rec	1	5/26/2016 10:25:50 PM	25505
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.020	mg/Kg	1	5/26/2016 10:25:50 PM	25505
Toluene	ND	0.039	mg/Kg	1	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	1	5/26/2016 10:25:50 PM	25505
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	5/26/2016 10:25:50 PM	25505

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 4
- 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#:

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	S	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	Code: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batcl	n ID: 25	515	R	lunNo: 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	ID: 25	505	R	RunNo: 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 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 25505 RunNo: 34502 Prep Date: 5/25/2016 Analysis Date: 5/26/2016 SeaNo: 1064464 Units: mg/Kg PQL %REC LowLimit Analyte Result SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 5.0 25.00 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

Page 3 of 4

- 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#:

1605B89

27-May-16

Client:

Williams Four Corners

Project:

FCA Boiler Release

Sample ID MB-25505 Client ID: PBS Prep Date: 5/25/2016	SampType: MBLK Batch ID: 25505 Analysis Date: 5/26/2016			F	tCode: El RunNo: 3 SeqNo: 1	4502	8021B: Volar Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								- 1
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	ype: LC	S	les	tCode: E	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	ζg		
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
 - 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 Work Order Numb	per: 1605B89		RcptNo: 1
Received by/date:			
Logged By: Lindsay Mangin 5/26/2016 7:54:00 A	M	Julythago	
Completed By: Lindsay Mangin 5/26/2016 8:26:18 A	M	A HAGO	
Reviewed By: (AG 05/210/	110	0 - 0	
Chain of Custody			The state of the s
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 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
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes 🗹	No 🗆	for pH: (<2 or >12 unless no
13. Are matrices correctly identified on Chain of Custody?	Yes V	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:
(ii 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:			
Client Instructions:			
17. Additional remarks:			
10 Control of control			
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	
1 1.5 Good Yes	Jour Date	Jigilla Dy	

ailing B none in all o	Mailiam Address loomfit #: (50 r Fax#:	H W 5 Fou 1755 1d, N 15) 63	lebre W Corners Arroyo Drive M 87413 2-4442 lebre E Williams, com	Project #:	Boiler B		21)	Te		w awkins 5-345	WAL ww.ha NE 3975	LY: allen	SIS viron buqu Fax ysis	ment erqu 505- Req	tal.co	om M 87 -4107				
Stan credi NEL	Package: dard itation AP (Type)_	□ Otho	□ Level 4 (Full Validation)	Sampler: V On loe: Sample Terrif	Ves A	□ No		+	/ DRO /		PAH's (8310 or 8270 SIMS)	tals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	7	-VOA)			(Y or N)	(
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + TATES	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	PAH's (8310	RCRA 8 Metals	Anions (F,C	8081 Pestic	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)	
25-16	1430	Soil	Milagro BFW	2-402 Jas	Cool	-001	X		×											
ıte:	Time:	Relinquish	ed by	Regeived by:		Date Time	Rei	mark	8. 91											
5-16 ite:	1535 Time: 2030	Relinquish	1/2/	Received by:		5 15 10 1535 Date Time			Н	ease.	CC		ВН	erb	el	TEn	V. CO	m	us, com	7



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 Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					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 I	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.
- Sample Diluted Due to Matrix D
- 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 13
- P Sample pH Not In Range
- Reporting Detection Limit RL
- 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: 1605B24-001

Matrix: AQUEOUS

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

Analyses	Result	PQL Qua	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 PM
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 PM
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 PM
2-Chlorotoluene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
4-Chlorotoluene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
cis-1,2-DCE	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	5/25/2016 12:40:51 PM
Dibromochloromethane	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
Dibromomethane	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
1,3-Dichlorobenzene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
1,4-Dichlorobenzene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
Dichlorodifluoromethane	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
1,1-Dichloroethene	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
1,3-Dichloropropane	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
2,2-Dichloropropane	ND	2.0	µg/L	1	5/25/2016 12:40:51 PM
1,1-Dichloropropene	ND	1.0	µg/L	1	5/25/2016 12:40:51 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
2-Hexanone	ND	10	μg/L	1	5/25/2016 12:40:51 PM
Isopropylbenzene	ND	1.0	μg/L	1	5/25/2016 12:40:51 PM
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
- % 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 Page 2 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- 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: 1605B24-001 Matrix: AQUEOUS

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

Analyses	Result	PQL Qu	ual 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
pH	7.64	1.68	H 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 SC	DLIDS				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.
- 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
- Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 13 J
- Sample pH Not In Range P
- RL Reporting Detection Limit
- 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	SampType: MBLK			TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch	Batch ID: A34487		RunNo: 34487									
Prep Date:	Analysis D	ate: 5/	25/2016	8	SeqNo:	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	ype: LC	S	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID: LCSW	Batch	n ID: A3	4487	F	RunNo: 3	4487				
Prep Date:	Analysis E	ate: 5/	25/2016		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	9.9	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
- 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 100ng Ics	Samp	Type: LC	S	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batc	h ID: A3	4458	F	RunNo: 3	4458				
Prep Date:	Analysis [Date: 5	25/2016	5	SeqNo: 1	063591	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			
richloroethene (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			
Sample ID rb	Samp	уре: М	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batcl	h ID: A3	4458	F	RunNo: 3	4458				
Prep Date:	Analysis D	Date: 5/	25/2016	S	SeqNo: 1	063592	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
oluene	ND	1.0								
thylbenzene	ND	1.0								
lethyl tert-butyl ether (MTBE)	ND	1.0								
,2,4-Trimethylbenzene	ND	1.0								
,3,5-Trimethylbenzene	ND	1.0								
,2-Dichloroethane (EDC)	ND	1.0								
,2-Dibromoethane (EDB)	ND	1.0								
laphthalene	ND	2.0								
-Methylnaphthalene	ND	4.0								
-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
-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	Samp	ype: M	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batc	h ID: A	34458	F	RunNo: 3	4458				
Prep Date:	Analysis D	Date: 5	/25/2016	8	SeqNo: 1	063592	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
,2-Dichlorobenzene	ND	1.0								
,3-Dichlorobenzene	ND	1.0								
,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
,1-Dichloroethane	ND	1.0								
,1-Dichloroethene	ND	1.0								
,2-Dichloropropane	ND	1.0								
,3-Dichloropropane	ND	1.0								
,2-Dichloropropane	ND	2.0								
,1-Dichloropropene	ND	1.0								
lexachlorobutadiene	ND	1.0								
-Hexanone	ND	10								
sopropylbenzene	ND	1.0								
-Isopropyltoluene	ND	1.0								
-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
-Butylbenzene	ND	3.0								
-Propylbenzene	ND	1.0								
ec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
ert-Butylbenzene	ND	1.0								
,1,1,2-Tetrachloroethane	ND	1.0								
,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		1.0								
richloroethene (TCE)	ND									
richloroftuoromethane	ND	1.0								
	ND	1.0								
,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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: 16

1605B24

27-May-16

Client:

LTE

Project:

FCA Boller release

Sample ID rb	SampT	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	ID: A3	4458	F	RunNo: 3	4458					
Prep Date:	Analysis D	ate: 5/	25/2016	5	SeqNo: 1	063592	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Vinyl chloride	ND	1.0							4.0		
Xylenes, 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	Type: MS	S	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: WS-01	Batc	h ID: A3	4458	F	RunNo: 3	4458				
Prep Date:	Analysis [Date: 5/	25/2016	5	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 Samp	Type: MS	BD	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: WS-01	Batc	h ID: A3	4458	F	RunNo: 3	4458				
Prep Date:	Analysis [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

Page 7 of 13

Hall Environmental Analysis Laboratory, Inc.

Result

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

Analysis Date: 5/26/2016

PQL

SegNo: 1064042

Units: mg/L **HighLimit**

%RPD **RPDLimit**

Qual

Analyte Mercury

ND 0.00020

Sample ID LCS-25483

SampType: LCS

TestCode: EPA Method 7470: Mercury

Client ID: LCSW

Prep Date: 5/24/2016

Batch ID: 25483

Analysis Date: 5/26/2016

RunNo: 34498 SegNo: 1064043

SPK value SPK Ref Val %REC LowLimit

Units: mg/L

120

Analyte

PQL

SPK value SPK Ref Val %REC

HighLimit

RPDLimit

Qual

Mercury

Sample ID 1605B24-001CMS

SampType: MS

0.0051 0.00020

TestCode: EPA Method 7470: Mercury

Client ID: WS-01

Prep Date: 5/24/2016

Batch ID: 25483 Analysis Date: 5/26/2016

RunNo: 34498 SeqNo: 1064045

103

Units: mg/L

Analyte

PQL SPK value SPK Ref Val %REC

0.005000

LowLimit 103

HighLimit 125 **RPDLimit**

Qual

Mercury

0.0053 0.00020

0.005000 0.0001458

TestCode: EPA Method 7470: Mercury

Client ID: Prep Date:

Sample ID 1605B24-001CMSD WS-01

5/24/2016

SampType: MSD Batch ID: 25483 Analysis Date: 5/26/2016

RunNo: 34498 SeqNo: 1064046

Units: mg/L

HighLimit

%RPD

%RPD

Qual

Analyte Mercury

PQL SPK value SPK Ref Val %REC 0.0053 0.00020 0.005000 0.0001458

103

LowLimit

%RPD 0.643

RPDLimit 20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

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

J Analyte detected below quantitation limits Page 8 of 13

Sample pH Not In Range

RL Reporting Detection Limit

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-25513 Client ID: PBW		Type: MI		TestCode: EPA 6010B: Total Recoverable Metals RunNo: 34500							
Prep Date: 5/25/2016	Analysis				SeqNo: 1		Units: mg/L				
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									
ron	ND	0.050									
Lead	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	TestCode: EPA 6010B: Total Recoverable Metals							
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	SampT	ype: MS	3	Tes	tCode: E	PA 6010B:	Total Recove	rable Met	als	
Client ID: WS-01	Batch	1D: 25	513	F	RunNo: 3	4500				
Prep Date: 5/25/2016	Analysis D	ate: 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			
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 1605B24-001CM		SampType: MS Batch ID: 25513			TestCode: EPA 6010B: Total Recoverable Metals RunNo: 34500							
Client ID: WS-01 Prep Date: 5/25/2016	Analysis		26/2016		SeqNo: 1		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	Tes	tCode: El	PA 6010B:	Total Recove	rable Meta	als	
Client ID:	WS-01	Bato	h ID: 25	513	F	RunNo: 3	4500				
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 II): 25	513	F	RunNo:	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	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ron		1.5	0.25	0.5000	0.7554	147	7 75	125			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 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

SampType: MSD

TestCode: EPA 6010B: Total Recoverable Metals

TestCode: EPA 6010B: Total Recoverable Metals

Client ID: WS-01

Sample ID 1605B24-001CMSD

Batch ID: 25513

0.25

RunNo: 34500

Prep Date: 5/25/2016

Analysis Date: 5/26/2016

SeqNo: 1064100

160

Units: mg/L

Analyte

Result

SPK value SPK Ref Val

Iron

PQL 1.6

0.5000

%REC 0.7554

LowLimit

%RPD HighLimit 125 4.52 **RPDLimit** Qual

S

Sample ID 1605B24-001CPS

SampType: PS

RunNo: 34500

Client ID: WS-01

Batch ID: 25513

Analysis Date: 5/26/2016

SeqNo: 1064102

Units: mg/L

%RPD

Page 11 of 13

RPDLimit Qual

Analyte

Prep Date:

Result PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

3.2 0.25 2.500 0.7554 98.9 Iron

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

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

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605B24

27-May-16

Client:

LTE

Project:

Prep Date:

FCA Boller release

Sample ID mb-1 PBW Client ID:

SampType: mblk Batch ID: R34491

PQL

20.00

TestCode: SM2320B: Alkalinity

RunNo: 34491

Analysis Date: 5/25/2016

SeqNo: 1063833

TestCode: SM2320B: Alkalinity

Units: mg/L CaCO3

Analyte

Result ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

Qual

Total Alkalinity (as CaCO3)

Sample ID Ics-1

SampType: Ics

Batch ID: R34491

RunNo: 34491

Prep Date:

Client ID: LCSW

Analysis Date: 5/25/2016

SeqNo: 1063834

Units: mg/L CaCO3

Analyte Total Alkalinity (as CaCO3)

PQL 77.20 20.00 SPK value SPK Ref Val %REC 80.00

96.5

LowLimit

HighLimit %RPD 110

RPDLimit

Sample ID mb-2 Client ID: PBW SampType: mblk

TestCode: SM2320B: Alkalinity RunNo: 34491

Units: mg/L CaCO3

Analyte

Prep Date:

Analysis Date: 5/25/2016

Batch ID: R34491

SegNo: 1063857 SPK value SPK Ref Val %REC LowLimit

%RPD

RPDLimit Qual

Total Alkalinity (as CaCO3)

Sample ID Ics-2

Client ID: LCSW

PQL ND 20.00

SampType: Ics

Batch ID: R34491

TestCode: SM2320B: Alkalinity

RunNo: 34491

Units: mg/L CaCO3

HighLimit

Prep Date:

Analysis Date: 5/25/2016

SeqNo: 1063858

Analyte

Result 77.84 PQL SPK value SPK Ref Val %REC LowLimit 20.00 80.00 0

97.3

HighLimit

%RPD **RPDLimit** Qual

Total Alkalinity (as CaCO3)

SampType: Icsd

TestCode: SM2320B: Alkalinity

Qual

Sample ID Icsd-1 Client ID: LCSS02

Batch ID: R34491

RunNo: 34491 SeqNo: 1063860

98.2

Units: mg/L CaCO3

110

Prep Date: Analyte

Total Alkalinity (as CaCO3)

Result 78.56

Analysis Date: 5/25/2016 PQL

20.00

80.00

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

1.75

RPDLimit 20

Oualifiers:

H

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

- Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Detection Limit Sample container temperature is out of limit as specified
- Page 12 of 13

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

Units: mg/L

RPDLimit

Qual

Analyte

HighLimit

%RPD

Total Dissolved Solids

Result ND

Result

1000

SPK value SPK Ref Val %REC LowLimit

SampType: LCS

TestCode: SM2540C MOD: Total Dissolved Solids

Sample ID LCS-25493

Client ID: LCSW

Batch ID: 25493

RunNo: 34507

Prep Date: 5/25/2016

Analysis Date: 5/26/2016

SeqNo: 1064182

Units: mg/L

120

Total Dissolved Solids

PQL 20.0 SPK value SPK Ref Val %REC 1000

100

HighLimit

%RPD

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

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

J Analyte detected below quantitation limits

Page 13 of 13

Sample pH Not In Range

Reporting Detection Limit RL

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: LTE Work Order Number	er: 1605B24		RcptNo: 1
Received by/date: MGS/25/1/6		8	
Logged By: Anne Thorne 5/25/2016 7:45:00 A	M	aone Am	
Completed By: Anne Thorne 5/25/2016		anne Am	
Reviewed By: TO OS 25/16			
Chain of Custody			
1. Custody seals intact on sample bottles?	Yes	No 🗌	Not Present
2. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present
3. How was the sample delivered?	Courier		
<u>Log In</u>			
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
40.5		No 🗆	bottles checked for pH:
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	NO L	(C2 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 🗆	10.11
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by: A. 05/2.5//
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:	White flower for \$1 miles and a property of the	A . Transact destination	The above above the second and the s
17. Additional remarks:			1 2000
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	
1 1.9 Good Yes	your water	Jignou by	

C	hain	of-Cu	stody Record	Turn-Around	Time:	ASAP				ЦА		-	NIV.	TO		NI BA	IEN	TA	
ent:	UT e	nvinn	mental	☐ Standard	Rush	ASAP		200										OR	
				Project Name	AC AC			-		ww	w.hal	lenvi	ronm	nenta	al.cor	m			9
illing	Address	: 84	8 E 2nd Ave	The state of the	CA BOLL	er release		490	1 Haw	kins I	VE -	Albu	uque	rque	a, NN	1 871	09 1	+ L.	[2]
DV	rang	0,10	8)30/	i rojoot ir.		· · · · · · ·			. 505-								Qu		3
one :	#: 02	アフカー・	81301 385-1096	7	BD				II.	13		naly							
nail o	r Fax#:	AAG	ERALTENV. COM	Project Mana	ger:			(ylu	<u>Q</u>			×	ले			-	V	6	
VQC I	Package:		☐ Level 4 (Full Validation)		ey Age		s (8021)	TPH (Gas only)	SO / MF		(SMIS)	-	PO4.80	PCB's			S, All	My Mr	
credi	tation			Sampler: A	1ex Cross	4	TMB's	H	E =	=	70 8	1	CI,NO3,NO23	/ 8082			50	P. 1719	
NEL		□ Othe	er	On Ice:	Yes	□ No	+	+	8 8	400	- 82		03,	8/8		3	170	112	or N
EDD	(Type)_			Sample Tem	perature:	9	MTBE	MTBE	3 (G	po po	0 0	stals	Ž	side	8	2	4	J. S	5
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MI	BTEX + MI	TPH 8015B (GRO / DRO / MRO)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8-Metals	Anions (F,C	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	PX C	Phys. (Na, K Air Bubbles (Y or N)
Tzy	1000	H20	PAHOPPO INS-01	Vanors/8	+NOz+con	7 -201		- 1				X	X	~	X		X	X	X
_			NO.	/						-			-			-	+		
															7	1	1		
									-	-			1	1	7	1	+		Ħ
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Pate:	Time:	Relinquish	Les Grock	Received by: Received by:	, Vaet	Date Time 5/24/11 1421 Date Time	Ren	narks	B	ner	600	2/-	ter	nv.	601	m	N. boHl	o Hz	soy phos
24/16	1942	Amples sul	utto William britted to Hall Environmental may be sub-	contracted to other	The second secon	05 Z5 N O THE es. This serves as notice of thi	_							_	_				05/23

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

Oil Conservation Division
1220 South St. Francis Dr.

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

1220 South St. Francis Dr. Santa Fe, NM 87505

						OPERA	TOR		Initial	al Report Final Re
Name of C	ompany W	illiams Four	Corners	LLC	(Contact	Mitch Morris			
				NM 87413			No. 505-632-4			
Facility Na	me Kutz C	Canyon Gas l	Plant]	Facility Typ	e Natural Gas	Proces	sing Plant	
Surface Ov	vner Burea	u of Land M	lanageme	nt Mineral C	Owner				API No).
				LOCA	ATION	OF RE	LEASE			
Unit Letter D	Section 13	Township 28N	Range 11W	Feet from the	North/	South Line	Feet from the	East/\	West Line	County San Juan
				Latitude 36° 4				W		
CD 1	27.	1.0		NAT	URE	OF REL		0.1400	X7.1 Y	1.0
	ease Natura	ure Relief Va	lva (DDV)				Release 216.65 Hour of Occurren			Recovered 0 Hour of Discovery
ource of Re	riease Press	ure Relief Va	ive (PKV)			Committee of the committee of	, 09:29 AM MST			5, 09:29 AM MST
Was Immed	iate Notice (Yes [No Not Re	equired	If YES, To Not Applie	Whom?			
By Whom?	MANUE.					Date and I				
Was a Water	rcourse Read		Yes 🛛	No		If YES, Vo	olume Impacting cable	the Wat	ercourse.	
f a Waterco	urse was Im	pacted, Descr	ibe Fully.	*						
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Power to the occurred in to operating co	DCS in the the Kutz II D nditions. Productions. Productions.	em and Reme control room Demethanizer	dial Action was lost. tower, allo Valves (P	n Taken.* The lead operator wing a PRV to li RV) are designed	ft. The I	Demethanize	r overhead PRV	was allo	wed to re-se	eat itself once pressures return
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* Attach Additional Sheets If Necessary

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