

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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: XTO Energy, Inc.	Contact: Rex Farnsworth
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3100
Facility Name: Federal Gas Com 1 #1C	Facility Type: Gas Well (Blanco Mesaverde)
Surface Owner: Federal	Mineral Owner
API No.: 30-045-30144	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	20	32N	12W	1060	FNL	660	FWL	San Juan

Latitude 36.976050 Longitude -108.124597

NATURE OF RELEASE

Type of Release: Produced Oil / Produced Water	Volume of Release: 180 BBL's	Volume Recovered: 70 BBL's
Source of Release: Production Tank	Date and Hour of Occurrence: 12/30/2015 Time: Unknown	Date and Hour of Discovery: 12-30-2015 12:25pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith (NMOCD)	
By Whom? James McDaniel (EHS Supervisor XTO Energy)	Date and Hour: 12-30-2015 4:30 pm	OIL CONS. DIV DIST. 3
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

FEB 18 2016

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* On Wednesday, 12-30-2015 an XTO Foreman found the steel production tank on the Federal Gas Com 1#1C location leaking from the load line valve . The XTO Foreman determined by the ending gauge of the tank that approximately 180 barrels of total fluid, 20 barrels of produced water and 160 barrels of produced oil has been released. The spill was contained within the berm and never left location. The XTO Foreman then called Triple S Trucking to help aid with product recovery and notified EH&S. The Foreman was able to recover approximately 70 barrels of produced fluid. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 20 due to an estimated depth to groundwater of 50 to 100 feet and an arroyo less than 1000 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken. *A release has been confirmed based a broken load line valve on the production tank and the loss of 110 barrels of fluid that was not recovered. XTO removed approximately 1500 cu yds.of impacted soil and the dimensions of the excavation are 100'x 60' x 4' deep east end, 8' deep in the center, and 12' deep at the west end of the excavation. All samples collected for lab analysis were witnessed by NMOCD employees Jonathan Kelly (two samples (2)) and Vanessa Fields (all other samples). All but four samples returned results below the NMOCD standards for this location. The four samples that returned results above the guideline standards are: Middle Shelf: TPH 140ppm DRO, 25ppm GRO and almost all ND BTEX this is a Solid Sandstone Shelf
NW Wall: TPH 210ppm DRO, 13ppm GRO, and almost all ND BTEX this is a Very Hard Dark Shale Wall
West Wall: TPH 150ppm DRO, 13ppm GRO, and almost all ND BTEX, this is a Very Hard Dark Shale Wall directly below the compressor building wall.
South West Bottom: TPH 250ppm DRO, 13ppm GRO and almost all ND BTEX this is Very Hard Solid Sandstone and the track hoe is unable to excavate this area any deeper. XTO believes the results that are slightly above TPH standards, but existing in very hard shale and sandstone do not pose a risk to human health and the environment due to the majority of the TPH values being attributed to non-mobile diesel range organics, Benzene and BTEX results are below the NMOCD regulatory limits for all samples collected. Closure has been approved at these NMOCD acceptable levels and no further action is required.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Initial Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

76

OIL CONSERVATION DIVISION

Signature: *Kurt Hoekstra*

Approved by Environmental Specialist:
[Signature]

Printed Name: Kurt Hoekstra

Title: EHS Coordinator

Approval Date: *02/23/16*

Expiration Date:

E-mail Address: Kurt_Hoekstra@xtoenergy.com

Conditions of Approval:
-

Attached

Date: 2-15-2016

Phone: 505-333-3100

* Attach Additional Sheets If Necessary

NCS 1536539728

Hoekstra, Kurt

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Sent: Monday, February 15, 2016 8:15 AM
To: Hoekstra, Kurt; Powell, Brandon, EMNRD; Smith, Cory, EMNRD
Cc: Katherina Diemer (kdiemer@blm.gov); McDaniel, James; Hixon, Logan; Farnsworth, Rex; Baxstrom, Scott; Beaty, Brent; McCollum, Luke
Subject: RE: Proposed Closure at the Federal Gas Com 1 # 1C
Categories: External Sender

Kurt,

Based on the provided information below and the OCD's site assessment, XTO has the OCD's approval to close the release at the Federal gas Com 1 #1C. As this site is also under the regulatory purview of the BLM, we recommend XTO obtain their approval prior to backfilling.

OCD approval does not relieve XTO of any additional requirements imposed by other regulatory agencies.

Thank you,
Vanessa Fields

From: Hoekstra, Kurt [mailto:Kurt_Hoekstra@xtoenergy.com]
Sent: Friday, February 12, 2016 2:44 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Katherina Diemer (kdiemer@blm.gov) <kdiemer@blm.gov>; McDaniel, James <James_McDaniel@xtoenergy.com>; Hixon, Logan <Logan_Hixon@xtoenergy.com>; Farnsworth, Rex <Rex_Farnsworth@xtoenergy.com>; Baxstrom, Scott <Scott_Baxstrom@xtoenergy.com>; Beaty, Brent <Brent_Beaty@xtoenergy.com>; McCollum, Luke <Luke_McCollum@xtoenergy.com>
Subject: Proposed Closure at the Federal Gas Com 1 # 1C

Hello Vanessa,

XTO is proposing closure of the excavation for the release at the Federal Gas Com 1 # 1C. Approximately 1500 cu yds. of material has been removed and the dimensions of the excavation are 100'x 60' x 4' deep east end, 8' deep in the center, and 12' deep at the west end of the excavation. All samples collected for lab analysis were witnessed by NMOCD employees Jonathan Kelly (two samples (2)) and Vanessa Fields (all other samples). The site was ranked a 20 according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. This set the closure standards to 100 ppm TPH, 50 ppm total BTEX and 10 ppm Benzene.

All but four samples returned results below the NMOCD standards for this location. The four samples that returned results above the guideline standards are:

Middle Shelf: TPH 140ppm DRO, 25ppm GRO and almost all ND BTEX this is a Solid Sandstone Shelf

NW Wall: TPH 210ppm DRO, 13ppm GRO, and almost all ND BTEX this is a Very Hard Dark Shale Wall

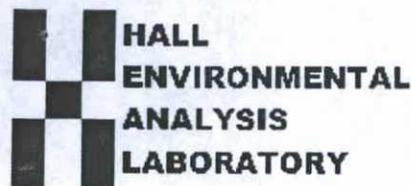
West Wall: TPH 150ppm DRO, 13ppm GRO, and almost all ND BTEX, this is a Very Hard Dark Shale Wall directly below the compressor building wall.

South West Bottom: TPH 250ppm DRO, 13ppm GRO and almost all ND BTEX this is Very Hard Solid Sandstone and the track hoe is unable to excavate this area any deeper.

All sample results are attached. XTO believes the results that are slightly above TPH standards, but existing in very hard shale and sandstone do not pose a risk to human health and the environment due to the majority of the TPH values being attributed to non-mobile diesel range organics. Benzene and BTEX results are below the NMOCD regulatory limits for all samples collected. Closure has already been discussed at these levels from the NMOCD based on conversations on location with Vanessa Fields. XTO would like to close this excavation at these NMOCD acceptable results and begin backfilling on 2-17-2016 at 8:00 am. Thank you for your help with this matter, If you have any questions or concerns please let me know. I will be awaiting your response so scheduled backfill operations can be completed.

Thank You.

Kurt Hoekstra
EHS Coordinator
XTO Energy
505-333-3202 Office
505-486-9543 Cell
Kurt_Hoekstra@xtoenergy.com
An ExxonMobil Subsidiary



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

January 28, 2016

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: FEDERAL GC 1 #1C

OrderNo.: 1601936

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/26/2016 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 qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1601936

Date Reported: 1/28/2016

CLIENT: XTO Energy

Client Sample ID: Bottom/East

Project: FEDERAL GC I #1C

Collection Date: 1/25/2016 3:25:00 PM

Lab ID: 1601936-001

Matrix: SOIL

Received Date: 1/26/2016 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							
Chloride	ND	30		mg/Kg	20	1/26/2016 11:26:41 AM	23417
Analyst: LGT							
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	150	9.5		mg/Kg	1	1/26/2016 11:15:09 AM	23396
Surr: DNOP	88.2	70-130		%REC	1	1/26/2016 11:15:09 AM	23396
Analyst: KJH							
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	32	8.8		mg/Kg	2	1/26/2016 12:22:14 PM	A31678
Surr: BFB	169	66.2-112	S	%REC	2	1/26/2016 12:22:14 PM	A31678
Analyst: NSB							
EPA METHOD 8021B: VOLATILES							
Benzene	ND	0.044		mg/Kg	2	1/26/2016 12:22:14 PM	C31678
Toluene	0.18	0.088		mg/Kg	2	1/26/2016 12:22:14 PM	C31678
Ethylbenzene	0.14	0.088		mg/Kg	2	1/26/2016 12:22:14 PM	C31678
Xylenes, Total	1.4	0.18		mg/Kg	2	1/26/2016 12:22:14 PM	C31678
Surr: 4-Bromofluorobenzene	129	80-120	S	%REC	2	1/26/2016 12:22:14 PM	C31678

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601936

28-Jan-16

Client: XTO Energy
Project: FEDERAL GC 1 #1C

Sample ID	MB-23417	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	23417	RunNo:	31710					
Prep Date:	1/26/2016	Analysis Date:	1/26/2016	SeqNo:	970391	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-23417	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	23417	RunNo:	31710					
Prep Date:	1/26/2016	Analysis Date:	1/26/2016	SeqNo:	970392	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601936

28-Jan-16

Client: XTO Energy
Project: FEDERAL GC 1 #1C

Sample ID	MB-23396	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23396	RunNo:	31661					
Prep Date:	1/26/2016	Analysis Date:	1/26/2016	SeqNo:	968886	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.3		10.00		82.8	70	130			

Sample ID	LCS-23396	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23396	RunNo:	31661					
Prep Date:	1/26/2016	Analysis Date:	1/26/2016	SeqNo:	969383	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.3	65.8	136			
Surr: DNOP	3.9		5.000		77.4	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601936

28-Jan-16

Client: XTO Energy
Project: FEDERAL GC 1 #1C

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	A31678	RunNo:	31678					
Prep Date:		Analysis Date:	1/26/2016	SeqNo:	969794	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	870		1000		86.9	66.2	112			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	A31678	RunNo:	31678					
Prep Date:		Analysis Date:	1/26/2016	SeqNo:	969795	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.5	79.6	122			
Surr: BFB	1000		1000		102	66.2	112			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601936

28-Jan-16

Client: XTO Energy
Project: FEDERAL GC I #1C

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	C31678	RunNo:	31678					
Prep Date:		Analysis Date:	1/26/2016	SeqNo:	969821	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	C31678	RunNo:	31678					
Prep Date:		Analysis Date:	1/26/2016	SeqNo:	969822	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.2	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		118	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

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1601936

RcptNo: 1

Received by/date: AS 01/26/16

Logged By: Anne Thorne 1/26/2016 7:25:00 AM *Anne Thorne*

Completed By: Anne Thorne 1/26/2016 *Anne Thorne*

Reviewed By: *[Signature]* 1/26/16

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

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
- 12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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

SAME DAY



Well Site/Location
FEDERAL GC 1#1C

Collected By
KURT

Company
XTO

Signature
Kurt Hoeber

Email Results to:

JAMES KURT, LEEAN, REX

API Number
30-045-30144
samples on ice
(Y/N)

QA/QC Requested
y

Test Reason
SPILL
Turnaround
Standard
 Next-Day SAME DAY
 Two Day
 Three Day
Std. 5 Bus. Days (by contract)
Date Needed

Page of

XTO Contact
KURT

XTO Contact Phone #
505-486-9543

Analysis

8015 TPH
8021 BTEX
Chloride

No. of
Conts.

Preservative

Time

Date

Media

Sample Name

Sample ID

1 Lot

ON ICE

3:25

1-25

Bottom/EAST Soil

FARX-012516-1525

meat

AVAILABLE

Comments

Media: Filter = F Soil = S Wastewater = WW Groundwater = GW Drinking Water = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT

Relinquished By: (Signature) *Kurt Hoeber* Date: 1-25-16 Time: 1755 Received By: (Signature) *[Signature]*

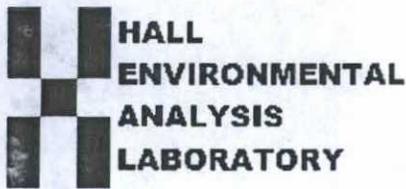
Relinquished By: (Signature) *[Signature]* Date: 1-25-16 Time: 1847 Received By: (Signature) *[Signature]*

Relinquished By: (Signature) *[Signature]* Date: *[Signature]* Time: *[Signature]* Received for Lab by (Signature) *[Signature]*

Number of Bottles	
Temperature	7.6
Date	1/25/16
Time	1755
Sample Condition	
Other Information	

* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

0121



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

February 05, 2016

Kurt Hoekstra
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Federal Gas Com 1 # 1C

OrderNo.: 1601B41

Dear Kurt Hoekstra:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/29/2016 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy

Client Sample ID: Farkh-012716-1015 N. Wall End

Project: Federal Gas Com I # 1C

Collection Date: 1/27/2016 10:15:00 AM

Lab ID: 1601B41-001

Matrix: SOIL

Received Date: 1/29/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/4/2016 11:12:57 AM	23511
Surr: DNOP	89.2	70-130		%Rec	1	2/4/2016 11:12:57 AM	23511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/3/2016 12:13:09 AM	23504
Surr: BFB	90.4	66.2-112		%Rec	1	2/3/2016 12:13:09 AM	23504
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	2/3/2016 12:13:09 AM	23504
Toluene	ND	0.048		mg/Kg	1	2/3/2016 12:13:09 AM	23504
Ethylbenzene	ND	0.048		mg/Kg	1	2/3/2016 12:13:09 AM	23504
Xylenes, Total	ND	0.097		mg/Kg	1	2/3/2016 12:13:09 AM	23504
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	2/3/2016 12:13:09 AM	23504

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B41

05-Feb-16

Client: XTO Energy
Project: Federal Gas Com 1 # 1C

Sample ID	MB-23551	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23551	RunNo:	31874					
Prep Date:	2/3/2016	Analysis Date:	2/3/2016	SeqNo:	975374	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.0	70	130			

Sample ID	LCS-23551	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23551	RunNo:	31874					
Prep Date:	2/3/2016	Analysis Date:	2/3/2016	SeqNo:	975375	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.3	70	130			

Sample ID	MB-23511	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23511	RunNo:	31874					
Prep Date:	2/1/2016	Analysis Date:	2/3/2016	SeqNo:	975961	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		104	70	130			

Sample ID	LCS-23511	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23511	RunNo:	31874					
Prep Date:	2/1/2016	Analysis Date:	2/3/2016	SeqNo:	975962	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	113	65.8	136			
Surr: DNOP	6.0		5.000		120	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B41

05-Feb-16

Client: XTO Energy
Project: Federal Gas Com 1 # 1C

Sample ID	MB-23504	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	23504	RunNo:	31851					
Prep Date:	2/1/2016	Analysis Date:	2/2/2016	SeqNo:	974988	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	930		1000		93.2	66.2	112			

Sample ID	LCS-23504	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	23504	RunNo:	31851					
Prep Date:	2/1/2016	Analysis Date:	2/2/2016	SeqNo:	974989	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	79.6	122			
Surr: BFB	980		1000		98.0	66.2	112			

Sample ID	MB-23523	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	23523	RunNo:	31884					
Prep Date:	2/2/2016	Analysis Date:	2/3/2016	SeqNo:	975769	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	890		1000		89.4	66.2	112			

Sample ID	LCS-23523	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	23523	RunNo:	31884					
Prep Date:	2/2/2016	Analysis Date:	2/3/2016	SeqNo:	975770	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		99.5	66.2	112			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B41

05-Feb-16

Client: XTO Energy
Project: Federal Gas Com 1 # 1C

Sample ID	MB-23504	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	23504	RunNo:	31851					
Prep Date:	2/1/2016	Analysis Date:	2/2/2016	SeqNo:	975028	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Sample ID	LCS-23504	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	23504	RunNo:	31851					
Prep Date:	2/1/2016	Analysis Date:	2/2/2016	SeqNo:	975029	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID	MB-23523	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	23523	RunNo:	31884					
Prep Date:	2/2/2016	Analysis Date:	2/3/2016	SeqNo:	975781	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-23523	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	23523	RunNo:	31884					
Prep Date:	2/2/2016	Analysis Date:	2/3/2016	SeqNo:	975782	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		120	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

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1601B41

RcptNo: 1

Received by/date: JA 01/29/16

Logged By: **Lindsay Mangin** 1/29/2016 8:10:00 AM *[Signature]*

Completed By: **Lindsay Mangin** 1/29/2016 2:59:54 PM *[Signature]*

Reviewed By: *[Signature]* 02/01/16

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

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
- 12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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



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

February 05, 2016

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Federal GC 1 #1 C

OrderNo.: 1602150

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/4/2016 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a faint, illegible stamp.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy

Client Sample ID: E. Bottom

Project: Federal GC 1 #1 C

Collection Date: 2/3/2016 1:40:00 PM

Lab ID: 1602150-001

Matrix: MEOH (SOIL)

Received Date: 2/4/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	83	9.9		mg/Kg	1	2/4/2016 1:06:04 PM	23577
Surr: DNOP	83.4	70-130		%Rec	1	2/4/2016 1:06:04 PM	23577
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	9.3	4.3		mg/Kg	1	2/4/2016 4:48:08 PM	R31945
Surr: BFB	139	66.2-112	S	%Rec	1	2/4/2016 4:48:08 PM	R31945

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy

Client Sample ID: N. Middle Wall

Project: Federal GC 1 #1 C

Collection Date: 2/3/2016 1:45:00 PM

Lab ID: 1602150-002

Matrix: MEOH (SOIL)

Received Date: 2/4/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	39	10		mg/Kg	1	2/4/2016 1:33:32 PM	23577
Surr: DNOP	84.1	70-130		%Rec	1	2/4/2016 1:33:32 PM	23577
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg	1	2/4/2016 5:58:45 PM	R31945
Surr: BFB	99.4	66.2-112		%Rec	1	2/4/2016 5:58:45 PM	R31945
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.055		mg/Kg	1	2/4/2016 5:58:45 PM	A31945
Toluene	ND	0.055		mg/Kg	1	2/4/2016 5:58:45 PM	A31945
Ethylbenzene	ND	0.055		mg/Kg	1	2/4/2016 5:58:45 PM	A31945
Xylenes, Total	ND	0.11		mg/Kg	1	2/4/2016 5:58:45 PM	A31945
Surr: 4-Bromofluorobenzene	117	80-120		%Rec	1	2/4/2016 5:58:45 PM	A31945

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
 Project: Federal GC 1 #1 C
 Lab ID: 1602150-003

Client Sample ID: Middle Shelf
 Collection Date: 2/3/2016 1:48:00 PM
 Matrix: MEOH (SOIL) Received Date: 2/4/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	140	9.9		mg/Kg	1	2/4/2016 2:00:44 PM	23577
Surr: DNOP	87.6	70-130		%Rec	1	2/4/2016 2:00:44 PM	23577
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	25	22		mg/Kg	5	2/4/2016 6:22:21 PM	R31945
Surr: BFB	117	66.2-112	S	%Rec	5	2/4/2016 6:22:21 PM	R31945
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.11		mg/Kg	5	2/4/2016 6:22:21 PM	A31945
Toluene	0.11	0.11		mg/Kg	5	2/4/2016 6:22:21 PM	A31945
Ethylbenzene	ND	0.11		mg/Kg	5	2/4/2016 6:22:21 PM	A31945
Xylenes, Total	0.73	0.22		mg/Kg	5	2/4/2016 6:22:21 PM	A31945
Surr: 4-Bromofluorobenzene	123	80-120	S	%Rec	5	2/4/2016 6:22:21 PM	A31945

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
 Project: Federal GC 1 #1 C
 Lab ID: 1602150-004

Client Sample ID: E. Wall
 Collection Date: 2/3/2016 1:50:00 PM
 Matrix: MEOH (SOIL) Received Date: 2/4/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	20	10		mg/Kg	1	2/4/2016 2:28:05 PM	23577
Surr: DNOP	84.8	70-130		%Rec	1	2/4/2016 2:28:05 PM	23577
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/4/2016 6:45:56 PM	R31945
Surr: BFB	95.8	66.2-112		%Rec	1	2/4/2016 6:45:56 PM	R31945
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	2/4/2016 6:45:56 PM	A31945
Toluene	ND	0.047		mg/Kg	1	2/4/2016 6:45:56 PM	A31945
Ethylbenzene	ND	0.047		mg/Kg	1	2/4/2016 6:45:56 PM	A31945
Xylenes, Total	ND	0.093		mg/Kg	1	2/4/2016 6:45:56 PM	A31945
Surr: 4-Bromofluorobenzene	117	80-120		%Rec	1	2/4/2016 6:45:56 PM	A31945

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy

Client Sample ID: S. East Wall

Project: Federal GC 1 #1 C

Collection Date: 2/3/2016 2:00:00 PM

Lab ID: 1602150-005

Matrix: MEOH (SOIL)

Received Date: 2/4/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	220	9.8		mg/Kg	1	2/4/2016 2:55:26 PM	23577
Surr: DNOP	90.2	70-130		%Rec	1	2/4/2016 2:55:26 PM	23577
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	23	4.8		mg/Kg	1	2/4/2016 7:09:26 PM	R31945
Surr: BFB	185	66.2-112	S	%Rec	1	2/4/2016 7:09:26 PM	R31945
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	2/4/2016 7:09:26 PM	A31945
Toluene	0.11	0.048		mg/Kg	1	2/4/2016 7:09:26 PM	A31945
Ethylbenzene	0.086	0.048		mg/Kg	1	2/4/2016 7:09:26 PM	A31945
Xylenes, Total	0.99	0.096		mg/Kg	1	2/4/2016 7:09:26 PM	A31945
Surr: 4-Bromofluorobenzene	124	80-120	S	%Rec	1	2/4/2016 7:09:26 PM	A31945

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602150

05-Feb-16

Client: XTO Energy
Project: Federal GC 1 #1 C

Sample ID	MB-23577	SampType	MBLK	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	PBS	Batch ID	23577	RunNo	31916					
Prep Date	2/4/2016	Analysis Date	2/4/2016	SeqNo	976476	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.0		10.00		90.3	70	130			

Sample ID	LCS-23577	SampType	LCS	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	LCSS	Batch ID	23577	RunNo	31916					
Prep Date	2/4/2016	Analysis Date	2/4/2016	SeqNo	976477	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	91.7	65.8	136			
Surr: DNOP	4.6		5.000		92.2	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602150

05-Feb-16

Client: XTO Energy
Project: Federal GC 1 #1 C

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R31945	RunNo:	31945					
Prep Date:		Analysis Date:	2/4/2016	SeqNo:	977134	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.8	79.6	122			
Surr: BFB	940		1000		94.0	66.2	112			

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R31945	RunNo:	31945					
Prep Date:		Analysis Date:	2/4/2016	SeqNo:	977135	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	920		1000		92.4	66.2	112			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602150
05-Feb-16

Client: XTO Energy
Project: Federal GC I #1 C

Sample ID	100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles							
Client ID:	LCSS	Batch ID: A31945	RunNo: 31945							
Prep Date:		Analysis Date: 2/4/2016	SeqNo: 977138 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	99.8	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID	1602150-001A MS	SampType: MS	TestCode: EPA Method 8021B: Volatiles							
Client ID:	E. Bottom	Batch ID: A31945	RunNo: 31945							
Prep Date:		Analysis Date: 2/4/2016	SeqNo: 977140 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.96	0.085	0.8518	0	112	69.2	128			
Benzene	0.86	0.043	0.8518	0	101	71.5	122			
Toluene	0.93	0.043	0.8518	0.02313	107	71.2	123			
Ethylbenzene	0.94	0.043	0.8518	0.02572	107	75.2	130			
Xylenes, Total	3.0	0.085	2.555	0.1278	112	72.4	131			
Surr: 4-Bromofluorobenzene	1.1		0.8518		129	80	120			S

Sample ID	1602150-001A MSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles							
Client ID:	E. Bottom	Batch ID: A31945	RunNo: 31945							
Prep Date:		Analysis Date: 2/4/2016	SeqNo: 977141 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.043	0.8518	0	93.1	71.5	122	8.18	20	
Toluene	0.88	0.043	0.8518	0.02313	101	71.2	123	5.84	20	
Ethylbenzene	0.92	0.043	0.8518	0.02572	104	75.2	130	2.31	20	
Xylenes, Total	2.9	0.085	2.555	0.1278	109	72.4	131	3.22	20	
Surr: 4-Bromofluorobenzene	1.1		0.8518		126	80	120	0	0	S

Sample ID	5ML RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles							
Client ID:	PBS	Batch ID: A31945	RunNo: 31945							
Prep Date:		Analysis Date: 2/4/2016	SeqNo: 977146 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	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

Sample Log-In Check List

Client Name: XTO Energy Work Order Number: 1602150 RcptNo: 1

Received by/date: *[Signature]* 02/04/16
 Logged By: Ashley Gallegos 2/4/2016 8:00:00 AM *[Signature]*
 Completed By: Ashley Gallegos 2/4/2016 8:56:36 AM *[Signature]*
 Reviewed By: *[Signature]*

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° 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
- 12. Does paperwork match bottle labels?
 (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met?
 (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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

NEXT DAY NEED RESULTS FRIDAY AFTERNOON



Well Site/Location
FEDERAL GC 1#1C

Collected By
KURT

Company
XTO

Signature
Kurt

QA/QC Requested
Y

Gray Areas for Lab Use Only!

Quote Number

XTO Contact
KURT

Email Results to:
9543

JAMES KURT, LOGAN, REX

API Number
30-045-30144

Samples on Ice
(Y/N)

Standard

Next Day

Two Day

Three Day

Std. 5 Bus. Days (by contract)

Date Needed

No. of
Confs.

Preservative

14oz.

Sample Name

Date

Media

Time

2/3

1:40

S

2/3

1:45

S

2/3

1:48

S

2/3

1:50

S

2/3

2:00

S

E. BOTTOM

N. MIDDLE WALL

MIDDLE SHELF

E. WALL

S. EAST WALL

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

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X

X

X

X

X

X

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X

X

X

X

X

X

X

X

X

Media: Filter Soil Wastewater = WW Groundwater = GW Drinking Waster = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT

Relinquished By: (Signature)
Kurt

Relinquished By: (Signature)
James Kurt

Relinquished By: (Signature)
Logan Rex

Date: 2-3-16

Time: 4:20

Received By: (Signature)

Date: 2-3-16

Time: 1948

Received By: (Signature)

Date: 2-3-16

Time: 1948

Received for Lab by: (Signature)

Date: 2/3/16

Time: 1948

Received for Lab by: (Signature)

Date: 2/3/16

Time: 1948

Analysis

TPH 8015 GED, DRD
BTEX 8021

Lab Information

Office Abbreviations
Farmington = FAR
Durango = DUR
Bakken = BAK
Raton = RAT
Picoance = PC
Roosevelt = RSV
La Barge = LB
Orangeville = OV

Sample Number

11002150-001
-002
-003
-004
-005

Number of Bottles

Temperature

Date: 2/3/16

Time: 1948

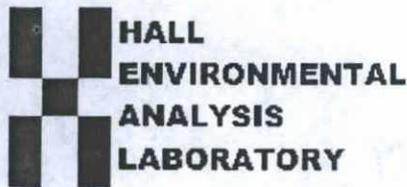
Other Information

Sample Condition

Comments

* Sample ID will be the office and sampler-cate-military time FARJM-MIMDDYY-1200

0144



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

February 02, 2016

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Federal G.C. 1 #1C

OrderNo.: 1601B44

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/30/2016 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
Project: Federal G.C. 1 #1C
Lab ID: 1601B44-001

Client Sample ID: Middle Wall
Collection Date: 1/29/2016 1:52:00 PM
Received Date: 1/30/2016 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	59	9.4		mg/Kg	1	2/1/2016 9:57:03 AM	23497
Surr: DNOP	76.0	70-130		%Rec	1	2/1/2016 9:57:03 AM	23497
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	12	4.2		mg/Kg	1	2/1/2016 10:00:34 AM	A31828
Surr: BFB	142	66.2-112	S	%Rec	1	2/1/2016 10:00:34 AM	A31828
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.042		mg/Kg	1	2/1/2016 10:00:34 AM	B31828
Toluene	0.052	0.042		mg/Kg	1	2/1/2016 10:00:34 AM	B31828
Ethylbenzene	0.042	0.042		mg/Kg	1	2/1/2016 10:00:34 AM	B31828
Xylenes, Total	0.33	0.084		mg/Kg	1	2/1/2016 10:00:34 AM	B31828
Surr: 4-Bromofluorobenzene	127	80-120	S	%Rec	1	2/1/2016 10:00:34 AM	B31828

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
 Project: Federal G.C. I #1C
 Lab ID: 1601B44-002

Client Sample ID: Pit Cellar Bottom
 Collection Date: 1/29/2016 1:45:00 PM
 Matrix: MEOH (SOIL) Received Date: 1/30/2016 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	110	9.6		mg/Kg	1	2/1/2016 10:18:46 AM	23497
Surr: DNOP	79.3	70-130		%Rec	1	2/1/2016 10:18:46 AM	23497
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	9.9	4.2		mg/Kg	1	2/1/2016 10:25:01 AM	A31828
Surr: BFB	144	66.2-112	S	%Rec	1	2/1/2016 10:25:01 AM	A31828
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.042		mg/Kg	1	2/1/2016 10:25:01 AM	B31828
Toluene	ND	0.042		mg/Kg	1	2/1/2016 10:25:01 AM	B31828
Ethylbenzene	ND	0.042		mg/Kg	1	2/1/2016 10:25:01 AM	B31828
Xylenes, Total	0.097	0.085		mg/Kg	1	2/1/2016 10:25:01 AM	B31828
Surr: 4-Bromofluorobenzene	127	80-120	S	%Rec	1	2/1/2016 10:25:01 AM	B31828

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
 Project: Federal G.C. 1 #1C
 Lab ID: 1601B44-003

Client Sample ID: E. Bottom
 Collection Date: 1/29/2016 2:05:00 PM
 Received Date: 1/30/2016 9:15:00 AM

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	140	9.8		mg/Kg	1	2/1/2016 10:40:37 AM	23497
Surr: DNOP	75.0	70-130		%Rec	1	2/1/2016 10:40:37 AM	23497
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	29	4.2		mg/Kg	1	2/1/2016 10:49:31 AM	A31828
Surr: BFB	256	66.2-112	S	%Rec	1	2/1/2016 10:49:31 AM	A31828
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.042		mg/Kg	1	2/1/2016 10:49:31 AM	B31828
Toluene	0.058	0.042		mg/Kg	1	2/1/2016 10:49:31 AM	B31828
Ethylbenzene	0.11	0.042		mg/Kg	1	2/1/2016 10:49:31 AM	B31828
Xylenes, Total	0.69	0.085		mg/Kg	1	2/1/2016 10:49:31 AM	B31828
Surr: 4-Bromofluorobenzene	136	80-120	S	%Rec	1	2/1/2016 10:49:31 AM	B31828

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B44

02-Feb-16

Client: XTO Energy
 Project: Federal G.C. 1 #1C

Sample ID	MB-23497	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23497	RunNo:	31813					
Prep Date:	2/1/2016	Analysis Date:	2/1/2016	SeqNo:	973617	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	7.6		10.00		76.4	70	130			

Sample ID	LCS-23497	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23497	RunNo:	31813					
Prep Date:	2/1/2016	Analysis Date:	2/1/2016	SeqNo:	973618	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.4	65.8	136			
Surr: DNOP	3.8		5.000		76.6	70	130			

Sample ID	1601B44-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Middle Wall	Batch ID:	23497	RunNo:	31813					
Prep Date:	2/1/2016	Analysis Date:	2/1/2016	SeqNo:	974086	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	86	9.6	47.85	59.00	55.7	31.2	162			
Surr: DNOP	3.3		4.785		68.9	70	130			S

Sample ID	1601B44-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Middle Wall	Batch ID:	23497	RunNo:	31813					
Prep Date:	2/1/2016	Analysis Date:	2/1/2016	SeqNo:	974087	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	91	9.8	48.78	59.00	65.8	31.2	162	6.13	31.7	
Surr: DNOP	3.3		4.878		67.6	70	130	0	0	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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B44

02-Feb-16

Client: XTO Energy
Project: Federal G.C. 1 #1C

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	A31828	RunNo:	31828					
Prep Date:		Analysis Date:	2/1/2016	SeqNo:	974181	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	850		1000		85.5	66.2	112			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	A31828	RunNo:	31828					
Prep Date:		Analysis Date:	2/1/2016	SeqNo:	974182	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.8	79.6	122			
Surr: BFB	970		1000		97.4	66.2	112			

Sample ID	1601B44-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Middle Wall	Batch ID:	A31828	RunNo:	31828					
Prep Date:		Analysis Date:	2/1/2016	SeqNo:	974183	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	36	4.2	21.10	12.09	111	59.3	143			
Surr: BFB	1500		843.9		173	66.2	112			S

Sample ID	1601B44-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Middle Wall	Batch ID:	A31828	RunNo:	31828					
Prep Date:		Analysis Date:	2/1/2016	SeqNo:	974184	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	35	4.2	21.10	12.09	109	59.3	143	1.38	20	
Surr: BFB	1400		843.9		166	66.2	112	0	0	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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B44

02-Feb-16

Client: XTO Energy
Project: Federal G.C. 1 #1C

Sample ID: 5ML RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B31828	RunNo: 31828								
Prep Date:	Analysis Date: 2/1/2016	SeqNo: 974187			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B31828	RunNo: 31828								
Prep Date:	Analysis Date: 2/1/2016	SeqNo: 974188			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.3	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.0	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		115	80	120			

Sample ID: 1601B44-002AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: Pit Cellar Bottom	Batch ID: B31828	RunNo: 31828								
Prep Date:	Analysis Date: 2/1/2016	SeqNo: 974189			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.042	0.8489	0	92.0	71.5	122			
Toluene	0.87	0.042	0.8489	0.01520	100	71.2	123			
Ethylbenzene	0.94	0.042	0.8489	0.03599	107	75.2	130			
Xylenes, Total	2.9	0.085	2.547	0.09728	110	72.4	131			
Surr: 4-Bromofluorobenzene	1.1		0.8489		128	80	120			S

Sample ID: 1601B44-002AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: Pit Cellar Bottom	Batch ID: B31828	RunNo: 31828								
Prep Date:	Analysis Date: 2/1/2016	SeqNo: 974190			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.042	0.8489	0	90.2	71.5	122	1.93	20	
Toluene	0.84	0.042	0.8489	0.01520	97.6	71.2	123	2.50	20	
Ethylbenzene	0.91	0.042	0.8489	0.03599	103	75.2	130	3.79	20	
Xylenes, Total	2.7	0.085	2.547	0.09728	104	72.4	131	5.28	20	
Surr: 4-Bromofluorobenzene	1.0		0.8489		122	80	120	0	0	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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1601B44

RcptNo: 1

Received by/date: *[Signature]* *01/30/16*
 Logged By: Lindsay Mangin 1/30/2016 9:15:00 AM *[Signature]*
 Completed By: Lindsay Mangin 1/30/2016 9:45:20 AM *[Signature]*
 Reviewed By: *dan 1/30/16*

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

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
- 12. Does paperwork match bottle labels? Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No

of preserved bottles checked for pH:
 (<2 or >12 unless noted)
 Adjusted?
 Checked by:

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			



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

February 05, 2016

Kurt Hoekstra
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Federal Gas Com 1 # 1C

OrderNo.: 1601B41

Dear Kurt Hoekstra:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/29/2016 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy

Client Sample ID: Farkh-012716-1015 N. Wall End

Project: Federal Gas Com I # 1C

Collection Date: 1/27/2016 10:15:00 AM

Lab ID: 1601B41-001

Matrix: SOIL

Received Date: 1/29/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/4/2016 11:12:57 AM	23511
Surr: DNOP	89.2	70-130		%Rec	1	2/4/2016 11:12:57 AM	23511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/3/2016 12:13:09 AM	23504
Surr: BFB	90.4	66.2-112		%Rec	1	2/3/2016 12:13:09 AM	23504
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	2/3/2016 12:13:09 AM	23504
Toluene	ND	0.048		mg/Kg	1	2/3/2016 12:13:09 AM	23504
Ethylbenzene	ND	0.048		mg/Kg	1	2/3/2016 12:13:09 AM	23504
Xylenes, Total	ND	0.097		mg/Kg	1	2/3/2016 12:13:09 AM	23504
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	2/3/2016 12:13:09 AM	23504

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B41
05-Feb-16

Client: XTO Energy
Project: Federal Gas Com 1 # 1C

Sample ID	MB-23551	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23551	RunNo:	31874					
Prep Date:	2/3/2016	Analysis Date:	2/3/2016	SeqNo:	975374	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.0	70	130			

Sample ID	LCS-23551	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23551	RunNo:	31874					
Prep Date:	2/3/2016	Analysis Date:	2/3/2016	SeqNo:	975375	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.3	70	130			

Sample ID	MB-23511	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23511	RunNo:	31874					
Prep Date:	2/1/2016	Analysis Date:	2/3/2016	SeqNo:	975961	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		104	70	130			

Sample ID	LCS-23511	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23511	RunNo:	31874					
Prep Date:	2/1/2016	Analysis Date:	2/3/2016	SeqNo:	975962	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	113	65.8	136			
Surr: DNOP	6.0		5.000		120	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B41

05-Feb-16

Client: XTO Energy
Project: Federal Gas Com 1 # 1C

Sample ID	MB-23504	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	23504	RunNo:	31851					
Prep Date:	2/1/2016	Analysis Date:	2/2/2016	SeqNo:	974988	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	930		1000		93.2	66.2	112			

Sample ID	LCS-23504	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	23504	RunNo:	31851					
Prep Date:	2/1/2016	Analysis Date:	2/2/2016	SeqNo:	974989	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	79.6	122			
Surr: BFB	980		1000		98.0	66.2	112			

Sample ID	MB-23523	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	23523	RunNo:	31884					
Prep Date:	2/2/2016	Analysis Date:	2/3/2016	SeqNo:	975769	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	890		1000		89.4	66.2	112			

Sample ID	LCS-23523	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	23523	RunNo:	31884					
Prep Date:	2/2/2016	Analysis Date:	2/3/2016	SeqNo:	975770	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		99.5	66.2	112			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B41

05-Feb-16

Client: XTO Energy
Project: Federal Gas Com 1 # 1C

Sample ID	MB-23504	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	23504	RunNo:	31851					
Prep Date:	2/1/2016	Analysis Date:	2/2/2016	SeqNo:	975028	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Sample ID	LCS-23504	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	23504	RunNo:	31851					
Prep Date:	2/1/2016	Analysis Date:	2/2/2016	SeqNo:	975029	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID	MB-23523	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	23523	RunNo:	31884					
Prep Date:	2/2/2016	Analysis Date:	2/3/2016	SeqNo:	975781	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-23523	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	23523	RunNo:	31884					
Prep Date:	2/2/2016	Analysis Date:	2/3/2016	SeqNo:	975782	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		120	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

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1601B41

RcptNo: 1

Received by/date: JA 01/29/16

Logged By: **Lindsay Mangin** 1/29/2016 8:10:00 AM *Lindsay Mangin*

Completed By: **Lindsay Mangin** 1/29/2016 2:59:54 PM *Lindsay Mangin*

Reviewed By: *[Signature]* 02/01/16

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

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
- 12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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



Well Site/Location
 FEDERAL GAS LOWA 1# 1C
 Collected By
 KWT

Company
 XTO

Signature
[Handwritten Signature]

Quote Number

XTO Contact
 KWT

JAMES KURT LOGAN REX

API Number
 30-045-30144
 Samples on Ice
 (Y/N)

QA/QC Requested
 Y

Page 1 of 1

XTO Contact Phone #
 505-486-9543

Email Results to:

Test Reason
 Spill

Turnaround

Standard
 Next Day
 Two Day
 Three Day

Std. 5 Bus. Days (by contract)
 Date Needed

No. of
 Conts.
 1407

Preservative
 ON ICE

Time
 10:15

Date
 1-27

Media
 S

Sample Name
 N.WALL E. END

Sample ID
 FARH-012716-1015

Analysis

8015 TPH GED, DRD
 X

8021 BTEX
 X

Lab Information

Office Abbreviations
 Farmington = FAR
 Durango = DUR
 Bakken = BAK
 Raton = RAT
 Piceance = PC
 Roosevelt = RSV
 La Barge = LB
 Orangeville = OV

Sample Number
 101511001

Media: Filter = F Soil = S Wastewater = WW Groundwater = GW Drinking Water = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT

Relinquished By: (Signature)
[Handwritten Signature]

Date: 1-27-16

Time: 2000

Received By: (Signature)
[Handwritten Signature]

Time: 1814

Date: 01/29/16

Number of Bottles: 10

Temperature: 10

Date: 01/29/16

Time: 0810

Received By: (Signature)
[Handwritten Signature]

Time: 1814

Date: 01/29/16

Other Information

Relinquished By: (Signature)
[Handwritten Signature]

Date: 1/28/16

Time: 1814

Received By: (Signature)
[Handwritten Signature]

Time: 1814

Date: 01/29/16

Other Information

Relinquished By: (Signature)
[Handwritten Signature]

Date: 1/28/16

Time: 1814

Received By: (Signature)
[Handwritten Signature]

Time: 1814

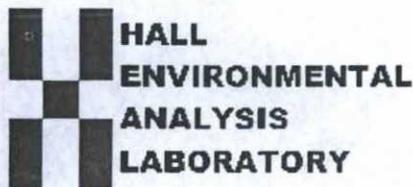
Date: 01/29/16

Other Information

Comments

* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

0125



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

February 09, 2016

Rex Farnsworth
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Federal GC 1 #1C

OrderNo.: 1602226

Dear Rex Farnsworth:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/6/2016 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
 Project: Federal GC 1 #1C
 Lab ID: 1602226-001

Matrix: SOIL

Client Sample ID: NW Wall
 Collection Date: 2/5/2016 2:24:00 PM
 Received Date: 2/6/2016 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	210	9.7		mg/Kg	1	2/8/2016 10:36:58 AM	23605
Surr: DNOP	104	70-130		%Rec	1	2/8/2016 10:36:58 AM	23605
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	13	4.0		mg/Kg	1	2/8/2016 1:28:32 PM	R31989
Surr: BFB	162	66.2-112	S	%Rec	1	2/8/2016 1:28:32 PM	R31989
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.040		mg/Kg	1	2/8/2016 1:28:32 PM	A31989
Toluene	ND	0.040		mg/Kg	1	2/8/2016 1:28:32 PM	A31989
Ethylbenzene	ND	0.040		mg/Kg	1	2/8/2016 1:28:32 PM	A31989
Xylenes, Total	0.30	0.080		mg/Kg	1	2/8/2016 1:28:32 PM	A31989
Surr: 4-Bromofluorobenzene	124	80-120	S	%Rec	1	2/8/2016 1:28:32 PM	A31989

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
 Project: Federal GC 1 #1C
 Lab ID: 1602226-002

Matrix: SOIL

Client Sample ID: W Wall
 Collection Date: 2/5/2016 2:27:00 PM
 Received Date: 2/6/2016 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	150	10		mg/Kg	1	2/8/2016 10:58:29 AM	23605
Surr: DNOP	102	70-130		%Rec	1	2/8/2016 10:58:29 AM	23605
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	13	5.0		mg/Kg	1	2/8/2016 1:52:25 PM	R31989
Surr: BFB	149	66.2-112	S	%Rec	1	2/8/2016 1:52:25 PM	R31989
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	2/8/2016 1:52:25 PM	A31989
Toluene	ND	0.050		mg/Kg	1	2/8/2016 1:52:25 PM	A31989
Ethylbenzene	ND	0.050		mg/Kg	1	2/8/2016 1:52:25 PM	A31989
Xylenes, Total	0.17	0.099		mg/Kg	1	2/8/2016 1:52:25 PM	A31989
Surr: 4-Bromofluorobenzene	118	80-120		%Rec	1	2/8/2016 1:52:25 PM	A31989

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602226

09-Feb-16

Client: XTO Energy
Project: Federal GC 1 #1C

Sample ID: MB-23605	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 23605	RunNo: 31978								
Prep Date: 2/8/2016	Analysis Date: 2/8/2016	SeqNo: 977869			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.0		10.00		90.0	70	130			

Sample ID: LCS-23605	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 23605	RunNo: 31978								
Prep Date: 2/8/2016	Analysis Date: 2/8/2016	SeqNo: 977870			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	91.9	65.8	136			
Surr: DNOP	4.3		5.000		85.7	70	130			

Sample ID: 1602226-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: NW Wall	Batch ID: 23605	RunNo: 31978								
Prep Date: 2/8/2016	Analysis Date: 2/8/2016	SeqNo: 977950			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	240	9.8	48.78	205.5	78.3	31.2	162			
Surr: DNOP	5.1		4.878		104	70	130			

Sample ID: 1602226-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: NW Wall	Batch ID: 23605	RunNo: 31978								
Prep Date: 2/8/2016	Analysis Date: 2/8/2016	SeqNo: 977951			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	260	9.9	49.36	205.5	112	31.2	162	6.87	31.7	
Surr: DNOP	5.2		4.936		105	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602226

09-Feb-16

Client: XTO Energy
Project: Federal GC 1 #IC

Sample ID	1602226-001A MS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	NW Wall	Batch ID: R31989	RunNo: 31989							
Prep Date:		Analysis Date: 2/8/2016	SeqNo: 978165				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	35	4.0	20.10	13.03	111	59.3	143			
Surr: BFB	1500		803.9		181	66.2	112			S

Sample ID	1602226-001A MSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	NW Wall	Batch ID: R31989	RunNo: 31989							
Prep Date:		Analysis Date: 2/8/2016	SeqNo: 978166				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	4.0	20.10	13.03	99.4	59.3	143	6.78	20	
Surr: BFB	1400		803.9		172	66.2	112	0	0	S

Sample ID	2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	LCSS	Batch ID: R31989	RunNo: 31989							
Prep Date:		Analysis Date: 2/8/2016	SeqNo: 978169				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.7	79.6	122			
Surr: BFB	990		1000		99.1	66.2	112			

Sample ID	5ML RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	PBS	Batch ID: R31989	RunNo: 31989							
Prep Date:		Analysis Date: 2/8/2016	SeqNo: 978170				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	920		1000		92.2	66.2	112			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602226

09-Feb-16

Client: XTO Energy
Project: Federal GC 1 #1C

Sample ID	100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles							
Client ID:	LCSS	Batch ID: A31989	RunNo: 31989							
Prep Date:		Analysis Date: 2/8/2016	SeqNo: 978176		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	95.0	80	120			
Toluene	0.99	0.050	1.000	0	99.4	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.3	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		119	80	120			

Sample ID	1602226-002A MS	SampType: MS	TestCode: EPA Method 8021B: Volatiles							
Client ID:	W Wall	Batch ID: A31989	RunNo: 31989							
Prep Date:		Analysis Date: 2/8/2016	SeqNo: 978181		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.050	0.9940	0	86.2	71.5	122			
Toluene	1.0	0.050	0.9940	0.02094	98.5	71.2	123			
Ethylbenzene	1.1	0.050	0.9940	0.02910	103	75.2	130			
Xylenes, Total	3.4	0.099	2.982	0.2182	107	72.4	131			
Surr: 4-Bromofluorobenzene	1.3		0.9940		132	80	120			S

Sample ID	1602226-002A MSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles							
Client ID:	W Wall	Batch ID: A31989	RunNo: 31989							
Prep Date:		Analysis Date: 2/8/2016	SeqNo: 978182		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	0.9940	0	101	71.5	122	16.1	20	
Toluene	1.1	0.050	0.9940	0.02094	107	71.2	123	7.93	20	
Ethylbenzene	1.1	0.050	0.9940	0.02910	106	75.2	130	2.79	20	
Xylenes, Total	3.4	0.099	2.982	0.2182	107	72.4	131	0.573	20	
Surr: 4-Bromofluorobenzene	1.3		0.9940		132	80	120	0	0	S

Sample ID	5ML RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles							
Client ID:	PBS	Batch ID: A31989	RunNo: 31989							
Prep Date:		Analysis Date: 2/8/2016	SeqNo: 978183		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	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

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1602226

RcptNo: 1

Received by/date: LM 02/06/16

Logged By: Anne Thorne 2/6/2016 9:15:00 AM *Anne Thorne*

Completed By: Anne Thorne 2/8/2016 *Anne Thorne*

Reviewed By: *[Signature]* 02/08/16

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

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
- 12. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

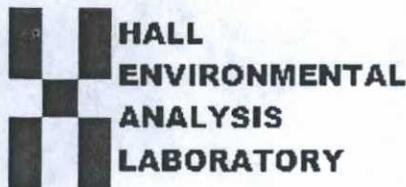
18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Same Day

		Quote Number XTO Contact Rex Farnsworth Email Results to: James, Kurt, Logan, Rex		Page 1 of 1 XTO Contact Phone # (505) 787-0643		Lab Information Office Abbreviations Farmington = FAR Durango = DUR Bakken = BAK Raton = RAT Piceance = PC Roosevelt = RSV La Barge = LB Orangeville = OV							
Well Site/Location FEDERAL-GC 141C Collected By Rex Farnsworth Company XTO ENERGY Signature 		API Number 30-045-30144 Samples on Ice (Y/N) Test Reason SPELL		Saturday Delivery (Y/N) Turnaround Standard <input checked="" type="checkbox"/> Next-Day SAMR Day Two Day Three Day Same Day Date Needed		Analysis/Container XX TPH (805) GRO, DFD XX BTEX (8021)							
Sample ID FARRF-020516-224 FARRF-020516-227		Sample Name N.W. WALL W. WALL		Media S S		Date 2/5/16 2/5/16		Time 2:24 2:27		No. of Conts. 1402 1402		Preservative ON ICE ON ICE	
Media: Filter = F Soil = S Wastewater = WW Groundwater = GW Drinking Water = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT													
Relinquished By: (Signature) Rex Farnsworth Signature 		Date: 2-5-16		Time: 16:24		Received By: (Signature) Rex Farnsworth Signature 		Number of Bottles		Sample Condition			
Relinquished By: (Signature) Rex Farnsworth Signature 		Date: 2/5/16		Time: 1800		Received for Lab by: (Signature)		Temperature		Other Information			
Relinquished By: (Signature) Rex Farnsworth Signature 		Date: 2/5/16		Time:		Received for Lab by: (Signature)		Date		Time			
Comments													

* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200



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

February 12, 2016

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Federal Gas Com 1 #1C

OrderNo.: 1602474

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/11/2016 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a faint, illegible typed name.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602474

Date Reported: 2/12/2016

CLIENT: XTO Energy

Client Sample ID: SE WALL

Project: Federal Gas Com 1 #1C

Collection Date: 2/10/2016 12:28:00 PM

Lab ID: 1602474-001

Matrix: SOIL

Received Date: 2/11/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/11/2016 10:20:47 AM	23678
Surr: DNOP	88.1	70-130		%Rec	1	2/11/2016 10:20:47 AM	23678
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg	1	2/11/2016 9:42:22 AM	A32073
Surr: BFB	99.8	66.2-112		%Rec	1	2/11/2016 9:42:22 AM	A32073
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.059		mg/Kg	1	2/11/2016 9:42:22 AM	B32073
Toluene	ND	0.059		mg/Kg	1	2/11/2016 9:42:22 AM	B32073
Ethylbenzene	ND	0.059		mg/Kg	1	2/11/2016 9:42:22 AM	B32073
Xylenes, Total	ND	0.12		mg/Kg	1	2/11/2016 9:42:22 AM	B32073
Surr: 4-Bromofluorobenzene	120	80-120	S	%Rec	1	2/11/2016 9:42:22 AM	B32073

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602474

12-Feb-16

Client: XTO Energy
Project: Federal Gas Com 1 #1C

Sample ID	MB-23678	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23678	RunNo:	32069					
Prep Date:	2/11/2016	Analysis Date:	2/11/2016	SeqNo:	980364	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.2		10.00		91.8	70	130			

Sample ID	LCS-23678	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23678	RunNo:	32069					
Prep Date:	2/11/2016	Analysis Date:	2/11/2016	SeqNo:	980365	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.2	65.8	136			
Surr: DNOP	4.1		5.000		82.1	70	130			

Sample ID	1602474-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SE WALL	Batch ID:	23678	RunNo:	32069					
Prep Date:	2/11/2016	Analysis Date:	2/11/2016	SeqNo:	980537	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.8	48.88	5.984	92.0	31.2	162			
Surr: DNOP	4.2		4.888		85.8	70	130			

Sample ID	1602474-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SE WALL	Batch ID:	23678	RunNo:	32069					
Prep Date:	2/11/2016	Analysis Date:	2/11/2016	SeqNo:	980600	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.7	48.54	5.984	88.6	31.2	162	3.92	31.7	
Surr: DNOP	4.0		4.854		82.7	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1602474

12-Feb-16

Client: XTO Energy
Project: Federal Gas Com 1 #IC

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	A32073	RunNo:	32073					
Prep Date:		Analysis Date:	2/11/2016	SeqNo:	980782	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	940		1000		93.6	66.2	112			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	A32073	RunNo:	32073					
Prep Date:		Analysis Date:	2/11/2016	SeqNo:	980783	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	79.6	122			
Surr: BFB	1000		1000		104	66.2	112			

Sample ID	1602474-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SE WALL	Batch ID:	A32073	RunNo:	32073					
Prep Date:		Analysis Date:	2/11/2016	SeqNo:	980784	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.9	29.55	0	109	59.3	143			
Surr: BFB	1300		1182		113	66.2	112			S

Sample ID	1602474-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SE WALL	Batch ID:	A32073	RunNo:	32073					
Prep Date:		Analysis Date:	2/11/2016	SeqNo:	980785	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	5.9	29.55	0	110	59.3	143	1.43	20	
Surr: BFB	1300		1182		110	66.2	112	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602474

12-Feb-16

Client: XTO Energy
Project: Federal Gas Com 1 #1C

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B32073	RunNo:	32073					
Prep Date:		Analysis Date:	2/11/2016	SeqNo:	980788	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B32073	RunNo:	32073					
Prep Date:		Analysis Date:	2/11/2016	SeqNo:	980789	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		118	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

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1602474

RcptNo: 1

Received by/date: JA 02/11/16

Logged By: Anne Thorne 2/11/2016 8:00:00 AM *Anne Thorne*

Completed By: Anne Thorne 2/11/2016 *Anne Thorne*

Reviewed By: *[Signature]* 02/11/16

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

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
- 12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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



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

February 11, 2016

Kurt Hoekstra
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: FEDERAL GAS COM 1 #1C

OrderNo.: 1602363

Dear Kurt Hoekstra:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/10/2016 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1602363
 Date Reported: 2/11/2016

CLIENT: XTO Energy
 Project: FEDERAL GAS COM 1 #1C
 Lab ID: 1602363-001

Matrix: SOIL

Client Sample ID: SW Bottom
 Collection Date: 2/9/2016 2:12:00 PM
 Received Date: 2/10/2016 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Analyst: KJH							
Diesel Range Organics (DRO)	320	10		mg/Kg	1	2/10/2016 10:27:41 AM	23655
Surr: DNOP	94.8	70-130		%Rec	1	2/10/2016 10:27:41 AM	23655
EPA METHOD 8015D: GASOLINE RANGE							
Analyst: NSB							
Gasoline Range Organics (GRO)	7.9	4.3		mg/Kg	1	2/10/2016 10:42:27 AM	A32054
Surr: BFB	133	66.2-112	S	%Rec	1	2/10/2016 10:42:27 AM	A32054
EPA METHOD 8021B: VOLATILES							
Analyst: NSB							
Benzene	ND	0.043		mg/Kg	1	2/10/2016 10:42:27 AM	B32054
Toluene	ND	0.043		mg/Kg	1	2/10/2016 10:42:27 AM	B32054
Ethylbenzene	ND	0.043		mg/Kg	1	2/10/2016 10:42:27 AM	B32054
Xylenes, Total	ND	0.086		mg/Kg	1	2/10/2016 10:42:27 AM	B32054
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	2/10/2016 10:42:27 AM	B32054

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
 Project: FEDERAL GAS COM 1 #1C
 Lab ID: 1602363-002

Matrix: SOIL

Client Sample ID: NW Bottom
 Collection Date: 2/9/2016 2:20:00 PM
 Received Date: 2/10/2016 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	18	10		mg/Kg	1	2/10/2016 10:49:25 AM	23655
Surr: DNOP	91.3	70-130		%Rec	1	2/10/2016 10:49:25 AM	23655
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	2/10/2016 11:06:11 AM	A32054
Surr: BFB	118	66.2-112	S	%Rec	1	2/10/2016 11:06:11 AM	A32054
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.043		mg/Kg	1	2/10/2016 11:06:11 AM	B32054
Toluene	ND	0.043		mg/Kg	1	2/10/2016 11:06:11 AM	B32054
Ethylbenzene	ND	0.043		mg/Kg	1	2/10/2016 11:06:11 AM	B32054
Xylenes, Total	ND	0.087		mg/Kg	1	2/10/2016 11:06:11 AM	B32054
Surr: 4-Bromofluorobenzene	119	80-120		%Rec	1	2/10/2016 11:06:11 AM	B32054

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
 Project: FEDERAL GAS COM 1 #1C
 Lab ID: 1602363-003

Matrix: SOIL

Client Sample ID: SW Wall
 Collection Date: 2/9/2016 2:26:00 PM
 Received Date: 2/10/2016 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Analyst: KJH							
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	2/10/2016 11:11:04 AM	23655
Surr: DNOP	94.1	70-130		%Rec	1	2/10/2016 11:11:04 AM	23655
EPA METHOD 8015D: GASOLINE RANGE							
Analyst: NSB							
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	2/10/2016 11:29:53 AM	A32054
Surr: BFB	104	66.2-112		%Rec	1	2/10/2016 11:29:53 AM	A32054
EPA METHOD 8021B: VOLATILES							
Analyst: NSB							
Benzene	ND	0.041		mg/Kg	1	2/10/2016 11:29:53 AM	B32054
Toluene	ND	0.041		mg/Kg	1	2/10/2016 11:29:53 AM	B32054
Ethylbenzene	ND	0.041		mg/Kg	1	2/10/2016 11:29:53 AM	B32054
Xylenes, Total	ND	0.082		mg/Kg	1	2/10/2016 11:29:53 AM	B32054
Surr: 4-Bromofluorobenzene	121	80-120	S	%Rec	1	2/10/2016 11:29:53 AM	B32054

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1602363

11-Feb-16

Client: XTO Energy
Project: FEDERAL GAS COM 1 #1C

Sample ID	MB-23655	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23655	RunNo:	32031					
Prep Date:	2/10/2016	Analysis Date:	2/10/2016	SeqNo:	979589	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.2		10.00		91.9	70	130			

Sample ID	1602363-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SW Bottom	Batch ID:	23655	RunNo:	32031					
Prep Date:	2/10/2016	Analysis Date:	2/10/2016	SeqNo:	979966	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	380	9.8	49.07	319.0	125	31.2	162			
Surr: DNOP	4.5		4.907		92.0	70	130			

Sample ID	1602363-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SW Bottom	Batch ID:	23655	RunNo:	32031					
Prep Date:	2/10/2016	Analysis Date:	2/10/2016	SeqNo:	979967	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	370	9.5	47.48	319.0	101	31.2	162	3.67	31.7	
Surr: DNOP	4.3		4.748		90.8	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602363

11-Feb-16

Client: XTO Energy
Project: FEDERAL GAS COM I #1C

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	A32054	RunNo:	32054					
Prep Date:		Analysis Date:	2/10/2016	SeqNo:	980098	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	930		1000		93.1	66.2	112			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	A32054	RunNo:	32054					
Prep Date:		Analysis Date:	2/10/2016	SeqNo:	980099	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.5	79.6	122			
Surr: BFB	990		1000		98.7	66.2	112			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- JD 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602363

11-Feb-16

Client: XTO Energy
Project: FEDERAL GAS COM I #IC

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B32054	RunNo:	32054					
Prep Date:		Analysis Date:	2/10/2016	SeqNo:	980109	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B32054	RunNo:	32054					
Prep Date:		Analysis Date:	2/10/2016	SeqNo:	980110	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	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		123	80	120			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- I % 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

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1802363

RcptNo: 1

Received by/date: AT 02/10/16

Logged By: Anne Thorne 2/10/2016 7:40:00 AM Anne Thorne

Completed By: Anne Thorne 2/10/2016 Anne Thorne

Reviewed By: AT 2/10/16

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

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
- 12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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



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

February 15, 2016

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Federal Gas Com 1 #1C

OrderNo.: 1602520

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/12/2016 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue circular stamp.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
 Project: Federal Gas Com 1 #1C
 Lab ID: 1602520-001

Client Sample ID: S.W. Bottom
 Collection Date: 2/11/2016 8:15:00 AM
 Matrix: MEOH (SOIL) Received Date: 2/12/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	280	10		mg/Kg	1	2/12/2016 9:06:19 PM	23703
Surr: DNOP	98.0	70-130		%Rec	1	2/12/2016 9:06:19 PM	23703
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	13	4.6		mg/Kg	1	2/12/2016 11:44:54 AM	23685
Surr: BFB	149	66.2-112	S	%Rec	1	2/12/2016 11:44:54 AM	23685

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602520

15-Feb-16

Client: XTO Energy
Project: Federal Gas Com I #1C

Sample ID	MB-23703	SampType	MBLK	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	PBS	Batch ID	23703	RunNo	32107					
Prep Date	2/12/2016	Analysis Date	2/12/2016	SeqNo	982134	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.7		10.00		87.3	70	130			

Sample ID	LCS-23703	SampType	LCS	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	LCSS	Batch ID	23703	RunNo	32107					
Prep Date	2/12/2016	Analysis Date	2/12/2016	SeqNo	982135	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.6	65.8	136			
Surr: DNOP	3.9		5.000		77.3	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602520

15-Feb-16

Client: XTO Energy
Project: Federal Gas Com 1 #1C

Sample ID	MB-23685	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	23685	RunNo:	32099					
Prep Date:	2/11/2016	Analysis Date:	2/12/2016	SeqNo:	982038	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		91.1	66.2	112			

Sample ID	LCS-23685	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	23685	RunNo:	32099					
Prep Date:	2/11/2016	Analysis Date:	2/12/2016	SeqNo:	982039	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	79.6	122			
Surr: BFB	970		1000		97.1	66.2	112			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D 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
- 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

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1602520

RcptNo: 1

Received by/date: *JA* 02/12/16
 Logged By: Joe Archuleta 2/12/2016 8:00:00 AM
 Completed By: Joe Archuleta 2/12/2016 8:22:16 AM
 Reviewed By: *[Signature]* 02/12/16

JA
JA

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
- 12. Does paperwork match bottle labels? Yes No # of preserved bottles checked 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? Yes No Checked by:

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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

SAME DAY



Well Site/Location
FEDERAL GAS COM # 11C

Collected By
KURT

Company
XTO

Signature
Kurt Hebl

Quote Number

XTO Contact
KURT

Email Results to:

JAMES, KURT, LOGAN REX
API Number
30-045-30144
Samples on Ice
(N)

Test Reason
Spill

Gray Areas for Lab Use Only!

Page ___ of ___

XTO Contact Phone #
505-486-9543

Saturday Delivery (Y/N)
N

Turnaround

Standard

Next-Day SAME DAY
 Two Day
 Three Day
 Same Day
Date Needed

No. of Conts.
402 JAR X

Preservative
ON ICE

Date
2/11 8:15

Time
ON ICE

Date
2/11

Media
S

Sample Name
S.W. BOTTOM

Sample ID
FARXH-021116-0815

Sample ID
S.W. BOTTOM

Analysis/Container

TPH 8015 200/600

Lab Information

Office Abbreviations:
Farmington = FAR
Durango = DUR
Bakken = BAK
Raton = RAT
Piceance = PC
Roosevelt = RSV
La Barge = LB
Orangeville = OV

Sample Number
1602520

Media: Filter = F Spill = S Wastewater = WW Groundwater = GW Drinking Water = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT

Relinquished By: (Signature)
Kurt Hebl

Relinquished By: (Signature)
Logan Rex

Relinquished By: (Signature)

Received By: (Signature)
Logan Rex

Received By: (Signature)
Logan Rex

Received for Lab by: (Signature)

Number of Bottles

Temperature: 1.0

Date: Time:

Sample Condition

Other Information

Comments