

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

| | |
|---|-------------------------------|
| Name of Company: XTO Energy, Inc. | Contact: Logan Hixon |
| Address: 382 Road 3100, Aztec, New Mexico 87410 | Telephone No.: (505) 333-3683 |
| Facility Name: Schumacher #2F (30-045-33176) | Facility Type: Gas Well |

| | | |
|-----------------------------|----------------|------------|
| Surface Owner: Federal Land | Mineral Owner: | Lease No.: |
|-----------------------------|----------------|------------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|--------------|-----------------------|-------------------------|----------------------|-----------------------|--------------------|
| Unit Letter L | Section 08 | Township 30N | Range 12W | Feet from the 1780 | North/South Line FSL | Feet from the 670 | East/West Line FWL | County San Juan |
|------------------|---------------|-----------------|--------------|-----------------------|-------------------------|----------------------|-----------------------|--------------------|

Latitude: 36.825472 Longitude: 108.12678

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release: Produced Water | Volume of Release: Unknown | Volume Recovered: None |
| Source of Release: BGT | Date and Hour of Occurrence: Unknown | Date and Hour of Discovery: August 8, 2013 |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? N/A | RCVD AUG 15 '13 |
| By Whom? | Date and Hour: | OIL CONSV. DIV. |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | DIST. 3 |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The below grade tank was taken out of service at the Schumacher #2F due to upgrades being made at this site. A composite sample was collected beneath the location of the on-site BGT, and submitted for laboratory analysis for TPH via USEPA Method 418.1 and 8015, Benzene and BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'Pit Rule' spill confirmation standards for Benzene and Total BTEX, but above the 'pit rule' standards for TPH and Total Chlorides, confirming that a release has occurred at this location. This site was then ranked pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 20 due to an estimated distance to a dry arroyo less than 200 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX, or 100 ppm organic vapors.

Describe Area Affected and Cleanup Action Taken.*

Based on TPH results of 475 PPM via USEPA Method 418.1 and chloride results of 610 ppm, it has been confirmed that a release had occurred at this location. The BGT closure composite sample returned results below the regulatory standards of 100 ppm TPH via USEPA Method 8015, 10 ppm benzene, and 50 ppm BTEX via USEPA Method 8021 respectively determined for this site pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. All applicable analytical results are attached for your reference.

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

| | | | |
|--|--|---|-----------------------------------|
| Signature: <u>Logan Hixon</u> | | OIL CONSERVATION DIVISION | |
| Printed Name: Logan Hixon | | Approved by District Supervisor: <u>Jonathan D. Kelly</u> | |
| Title: EHS Coordinator | | Approval Date: <u>8/19/2013</u> | Expiration Date: |
| E-mail Address: Logan_Hixon@xtoenergy.com | | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: <u>August 13, 2013</u> Phone: 505-333-3683 | | | |

nJK 1323156416



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Tax I.D. 62-0814289

Est. 1970

Logan Hixon
XTO Energy - San Juan Division
382 County Road 3100
Aztec, NM 87410

Report Summary

Thursday August 08, 2013

Report Number: L650146

Samples Received: 08/06/13

Client Project:

Description: Schumacher ZF

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

August 08, 2013

Logan Hixon
XTO Energy - San Juan Division
382 County Road 3100
Aztec, NM 87410

ESC Sample # : L650146-01

Date Received : August 06, 2013
Description : Schumacher ZF

Site ID :

Sample ID : FAR LH-080213-1748

Project # :

Collected By : Logan Hixon
Collection Date : 08/02/13 17:48

| Parameter | Dry Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|------------|------------|--------|-------------|----------|------|
| Chloride | 610 | 12. | mg/kg | 9056 | 08/07/13 | 1 |
| Total Solids | 82.2 | 0.100 | % | 2540 G-2011 | 08/07/13 | 1 |
| Benzene | BDL | 0.0030 | mg/kg | 8021/8015 | 08/07/13 | 5 |
| Toluene | BDL | 0.030 | mg/kg | 8021/8015 | 08/07/13 | 5 |
| Ethylbenzene | BDL | 0.0030 | mg/kg | 8021/8015 | 08/07/13 | 5 |
| Total Xylene | 0.062 | 0.0091 | mg/kg | 8021/8015 | 08/07/13 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.61 | mg/kg | GRO | 08/07/13 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 98.7 | | % Rec. | 8021/8015 | 08/07/13 | 5 |
| a,a,a-Trifluorotoluene(PID) | 99.7 | | % Rec. | 8021/8015 | 08/07/13 | 5 |
| TPH (GC/FID) High Fraction | 9.8 | 4.9 | mg/kg | 3546/DRO | 08/07/13 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 69.8 | | % Rec. | 3546/DRO | 08/07/13 | 1 |

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 08/08/13 09:11 Printed: 08/08/13 09:11

Summary of Remarks For Samples Printed
08/08/13 at 09:11:52

TSR Signing Reports: 288
R3 - Rush: Two Day

Domestic Water Well Sampling-see L609759 Lobato for tests EDD's email James, Kurt and Logan all reports

Sample: L650146-01 Account: XTORNM Received: 08/06/13 09:00 Due Date: 08/08/13 00:00 RPT Date: 08/08/13 09:11



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
Logan Hixon
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L650146

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August 08, 2013

| Analyte | Result | Laboratory Blank Units % Rec | Limit | Batch | Date Analyzed |
|---|---------|---------------------------------|--------|----------|---|
| Total Solids | < .1 | % | | WG675679 | 08/07/13 06:57 |
| Chloride | < 10 | mg/kg | | WG675615 | 08/07/13 08:57 |
| TPH (GC/FID) High Fraction o-Terphenyl | < 4 | mg/kg % Rec. 73.60 | 50-150 | WG675653 | 08/07/13 10:15 WG675653 08/07/13 10:15 |
| Benzene | < .0005 | mg/kg | | WG675210 | 08/07/13 13:47 |
| Ethylbenzene | < .0005 | mg/kg | | WG675210 | 08/07/13 13:47 |
| Toluene | < .005 | mg/kg | | WG675210 | 08/07/13 13:47 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | WG675210 | 08/07/13 13:47 |
| Total Xylene | < .0015 | mg/kg | | WG675210 | 08/07/13 13:47 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. 99.50 | 59-128 | WG675210 | 08/07/13 13:47 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. 99.60 | 54-144 | WG675210 | 08/07/13 13:47 |

| Analyte | Units | Duplicate Result | Duplicate | RPD | Limit | Ref Samp | Batch |
|--------------|-------|---------------------|-----------|------|-------|------------|----------|
| Total Solids | % | 92.0 | 90.1 | 1.66 | 5 | L649740-01 | WG675679 |
| Chloride | mg/kg | 0 | 0 | 0 | 20 | L649890-19 | WG675615 |

| Analyte | Units | Laboratory Control Known Val | Sample Result | % Rec | Limit | Batch |
|---|-------|---------------------------------|------------------|---------------|------------------|----------------------|
| Total Solids | % | 50 | 49.9 | 99.9 | 85-115 | WG675679 |
| Chloride | mg/kg | 200 | 197. | 98.5 | 80-120 | WG675615 |
| TPH (GC/FID) High Fraction o-Terphenyl | mg/kg | 60 | 48.1 | 80.2 78.80 | 50-150 50-150 | WG675653 WG675653 |
| Benzene | mg/kg | .05 | 0.0474 | 94.8 | 70-130 | WG675210 |
| Ethylbenzene | mg/kg | .05 | 0.0490 | 97.9 | 70-130 | WG675210 |
| Toluene | mg/kg | .05 | 0.0495 | 99.0 | 70-130 | WG675210 |
| Total Xylene | mg/kg | .15 | 0.146 | 97.3 | 70-130 | WG675210 |
| a,a,a-Trifluorotoluene(PID) | | | | 102.0 | 54-144 | WG675210 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 6.06 | 110. | 63.5-137 | WG675210 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.0 | 59-128 | WG675210 |

| Analyte | Units | Laboratory Control Result | Ref | Sample Duplicate %Rec | Limit | RPD | Limit | Batch |
|---|-------|------------------------------|--------|--------------------------|------------------|------|-------|----------------------|
| Chloride | mg/kg | 200. | 197. | 100. | 80-120 | 1.51 | 20 | WG675615 |
| TPH (GC/FID) High Fraction o-Terphenyl | mg/kg | 46.4 | 48.1 | 77.0 80.00 | 50-150 50-150 | 3.68 | 20 | WG675653 WG675653 |
| Benzene | mg/kg | 0.0524 | 0.0474 | 105. | 70-130 | 9.97 | 20 | WG675210 |
| Ethylbenzene | mg/kg | 0.0528 | 0.0490 | 106. | 70-130 | 7.52 | 20 | WG675210 |

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Logan Hixon
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Quality Assurance Report
Level II

Aztec, NM 87410

L650146

August 08, 2013

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|--------|-------|----------|-------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| Toluene | mg/kg | 0.0533 | 0.0495 | 106. | 70-130 | 7.39 | 20 | WG675210 |
| Total Xylene | mg/kg | 0.158 | 0.146 | 106. | 70-130 | 8.13 | 20 | WG675210 |
| a,a,a-Trifluorotoluene(PID) | | | | 101.0 | 54-144 | | | WG675210 |
| TPH (GC/FID) Low Fraction | mg/kg | 6.10 | 6.06 | 111. | 63.5-137 | 0.690 | 20 | WG675210 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.0 | 59-128 | | | WG675210 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|-------|----------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| Chloride | mg/kg | 511. | 18.0 | 500 | 98.6 | 80-120 | L649890-18 | WG675615 |
| TPH (GC/FID) High Fraction | mg/kg | 45.3 | 0.720 | 60 | 74.3 | 50-150 | L650118-01 | WG675653 |
| o-Terphenyl | | | | | 78.50 | 50-150 | | WG675653 |
| Benzene | mg/kg | 0.250 | 0 | .05 | 100. | 49.7-127 | L649873-01 | WG675210 |
| Ethylbenzene | mg/kg | 0.252 | 0 | .05 | 101. | 40.8-141 | L649873-01 | WG675210 |
| Toluene | mg/kg | 0.258 | 0 | .05 | 103. | 49.8-132 | L649873-01 | WG675210 |
| Total Xylene | mg/kg | 0.749 | 0 | .15 | 99.8 | 41.2-140 | L649873-01 | WG675210 |
| a,a,a-Trifluorotoluene(PID) | | | | | 99.40 | 54-144 | | WG675210 |
| TPH (GC/FID) Low Fraction | mg/kg | 25.1 | 0 | 5.5 | 91.2 | 28.5-138 | L649873-01 | WG675210 |
| a,a,a-Trifluorotoluene(FID) | | | | | 98.90 | 59-128 | | WG675210 |

| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------------------------|-------|-------|----------|-------|-------|------------|----------|
| | | MSD | Ref | %Rec | | | | | |
| Chloride | mg/kg | 503. | 511. | 97.0 | 80-120 | 1.58 | 20 | L649890-18 | WG675615 |
| TPH (GC/FID) High Fraction | mg/kg | 54.6 | 45.3 | 89.7 | 50-150 | 18.6 | 20 | L650118-01 | WG675653 |
| o-Terphenyl | | | | 94.10 | 50-150 | | | | WG675653 |
| Benzene | mg/kg | 0.254 | 0.250 | 102. | 49.7-127 | 1.49 | 23.5 | L649873-01 | WG675210 |
| Ethylbenzene | mg/kg | 0.253 | 0.252 | 101. | 40.8-141 | 0.550 | 23.8 | L649873-01 | WG675210 |
| Toluene | mg/kg | 0.259 | 0.258 | 104. | 49.8-132 | 0.540 | 23.5 | L649873-01 | WG675210 |
| Total Xylene | mg/kg | 0.746 | 0.749 | 99.5 | 41.2-140 | 0.350 | 23.7 | L649873-01 | WG675210 |
| a,a,a-Trifluorotoluene(PID) | | | | 99.30 | 54-144 | | | | WG675210 |
| TPH (GC/FID) Low Fraction | mg/kg | 26.4 | 25.1 | 95.9 | 28.5-138 | 5.06 | 23.6 | L649873-01 | WG675210 |
| a,a,a-Trifluorotoluene(FID) | | | | 99.60 | 59-128 | | | | WG675210 |

Batch number /Run number / Sample number cross reference

WG675679: R2770611: L650146-01
WG675615: R2771701: L650146-01
WG675653: R2771903: L650146-01
WG675210: R2772320: L650146-01

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Quality Assurance Report
Level II

Aztec, NM 87410

L650146

August 08, 2013

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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

: 5547 0240 2970

0012