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: Jicarilla Apache #14 (API 30-039-20140) | Facility Type: Gas Well (Dakota, Mesa Verde, Pictured Cliffs, Chacra) |

| | | |
|---|---|---|
| Surface Owner: Jicarilla Apache | Mineral Owner: | Lease No.: JIC-54 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| M | 34 | 26N | 5W | 900 | FSL | 900 | FWL | Rio Arriba |

**Latitude:** 36.43859 Longitude: -107.35198

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Produced Water/Condensate | Volume of Release: Approximately 21 Barrels | Volume Recovered: 20 Barrels |
| Source of Release: Below Grade Tank | Date and Hour of Occurrence: Unknown | Date and Hour of Discovery: May 21, 2012 |
| Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
An overflow was discovered at the Jicarilla Apache #14 below grade tank on May 21, 2012. The volume released was approximately 21 barrels; 20 barrels were recovered on May 21, 2012. The 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 of less than 200 feet to Tapicito Creek. 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.*
* Please see attached document for area affected and cleanup action 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 "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: Logan Hixon | OIL CONSERVATION DIVISION<br>Approved by District Supervisor: Jonathan D. Kelly |
| Printed Name: Logan Hixon | |
| Title: Environmental Technician | Approval Date: 11/19/2012 Expiration Date: |
| E-mail Address: Logan_Hixon@xtoenergy.com | Conditions of Approval: Attached ☐ |
| Date: 6/22/12 Phone: 505-333-3202 | |

nJK 1232455329

RCVD JUN 27'12
OIL CONS. DIV.
DIST. 3

## Affected Area and Cleanup Actions

May 21, 2012-

An overflow on the below grade tank was reported at the Jicarilla Apache #14 on May 21, 2012. There was approximately 21 bbls of water and incidental oil that overflowed from the tank. Of those 21 bbls, there were 20 bbls recovered.

May 22, 2012-

Logan Hixon (XTO) was on site to perform assessment of overflow. It was visually confirmed that a release had occurred and that remediation activities would be needed. The 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 of less than 200 feet to Tapicito Creek. This set the closure standard to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX, or 100 ppm organic vapors

May 24, 2012-

Logan Hixon (XTO) was on site to meet with the Hobson Sandoval (Jicarilla Apache EPO) to discuss remediation activities that would occur. It was agreed upon to remove the BGT from the cellar and excavate soil to remove impacted material to the standards set by the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases for this site.

May 25, 2012-

Notification was sent to the NMOCD and the Jicarilla Apache EPO, that the BGT at the Jicarilla Apache #14 would be removed and brought above grade due to the overflowing of the BGT. *See attached.

May 31, 2012-

Logan Hixon (XTO) was on site to begin clean up activities of the overflow of the BGT. The excavation had reached an extent of 20'x 18' x 12'. A composite sample was taken of the four walls and of the bottom of the excavation where sandstone was reached. Organic vapor sampling was completed on the five composite samples. The sample from the south wall returned results below the organic vapor standard outlined in the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. Samples collected from the bottom and east wall returned results above the organic vapor standard. The sample from the south wall was sent in for TPH analysis via US EPA method 8015. The samples from the east wall and bottom were sent in for analysis for benzene, total BTEX and TPH via methods US EPA 8021, and 8015. The samples from the north wall and west wall were over the organic vapor standards determined for this site. The excavation continued to the extent of 25'x 20'x 12'. Samples were then collected from the west wall and north wall and analyzed for organic vapors. The samples returned results under the standards for organic vapors determined for this site. The samples from the west wall and north wall were sent for TPH analysis via US EPA method 8015. Approximately 300 CY of soil was disposed of at TNT land farm.*Field notes attached.

June 4, 2012-

Logan Hixon (XTO) met with Hobson Sandoval (Jicarilla Apache EPO) for designation of where clean fill soil could be removed from for excavation. Hobson Sandoval (Jicarilla Apache EPO) designated an area that they wanted the soil to be removed from.

June 5, 2012-

The sample returned results beneath the standards determined for this site for the north wall, south wall, and west wall. The sample for the east wall returned results equal to the standards determined for this site for TPH. The sample for the bottom of the excavation returned results above the standard determined for this site for TPH.

June 6, 2012-

A Phone call was made from Logan Hixon (XTO) to Hobson Sandoval (Hobson Sandoval (Jicarilla Apache EPO) to request the closure of the excavation with values equal to the closure standards determined for this site on the east wall and above the standards for the bottom of the excavation. Hobson Sandoval (Jicarilla Apache EPO) approved closure of excavation with values equal to the closure standards on east wall, but requested that XTO apply potassium permanganate to bottom of excavation to reduce leaching. A phone call was made by Logan Hixon (XTO) to Brandon Powell (NMOCD) requesting closure of the excavation with values equal to the standards on the east wall, and above the standards for the bottom of the excavation. Brandon Powell approved closure of excavation with values equal to the NMOCD standards on the east wall, but requested XTO apply potassium permanganate to the bottom of the excavation to reduce leaching.

June 12, 2012-

Logan Hixon (XTO) was on-site with Nelson Revegetation and Hobson Sandoval (Jicarilla Apache EPO) to apply potassium permanganate to the bottom of excavation as requested by Hobson Sandoval (Jicarilla Apache EPO) and Brandon Powell (NMOCD). Approximately 23 gallons of 4% solution of potassium permanganate was applied to the bottom of the excavation where sandstone was encountered. After the application verbal confirmation to begin backfilling the excavation was granted by Hobson Sandoval (Jicarilla Apache EPO). The site was backfilled with clean fill soil from the area that Hobson Sandoval (Jicarilla Apache EPO) had designated. *Field notes are attached for your viewing

June 19, 2012-

Reclamation of the excavated area was completed and the BGT was brought above grade for continued operations.

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Tax I.D. 62-0814289

Est. 1970

James McDaniel
XTO Energy - San Juan Division
382 County Road 3100
Aztec, NM 87410

# Report Summary

Tuesday June 05, 2012

Report Number: L578182
Samples Received: 06/02/12
Client Project:

Description: Jicarilla Apache 14

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:

Mark W. Beasley , 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

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.

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REPORT OF ANALYSIS

James McDaniel
XTO Energy - San Juan Division
382 County Road 3100
Aztec, NM 87410

June 05,2012

ESC Sample # : L578182-01

Date Received : June 02, 2012
Description : Jicarilla Apache 14

Site ID :

Sample ID : S. WALL 12 FT COMP

Project # :

Collected By : Logan Hixon
Collection Date : 05/31/12 12:00

| Parameter | Dry Result | Det. Limit | Units | Method | Date | Dil. |
|---|---|---|---|---|---|---|
| Total Solids | 83.0 | 0.100 | % | 2540G | 06/04/12 | 1 |
| TPH (GC/FID) Low Fraction | BDL | 0.60 | mg/kg | 8015D/GRO | 06/03/12 | 5 |
| Surrogate Recovery (70-130) | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 114. | | % Rec. | 602/8015 | 06/03/12 | 5 |
| TPH (GC/FID) High Fraction | 34. | 4.8 | mg/kg | 3546/DRO | 06/04/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 65.3 | | % Rec. | 3546/DRO | 06/04/12 | 1 |

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/05/12 15:09 Printed: 06/05/12 15:14

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REPORT OF ANALYSIS

James McDaniel
XTO Energy - San Juan Division
382 County Road 3100
Aztec, NM 87410

June 05,2012

ESC Sample # : L578182-02

Date Received : June 02, 2012
Description : Jicarilla Apache 14

Site ID :

Sample ID : E. WALL 12FT COMP

Project # :

Collected By : Logan Hixon
Collection Date : 05/31/12 12:20

| Parameter | Dry Result | Det. Limit | Units | Method | Date | Dil. |
|---|---|---|---|---|---|---|
| Total Solids | 83.4 | 0.100 | % | 2540G | 06/04/12 | 1 |
| Benzene | BDL | 0.0030 | mg/kg | 8021/8015 | 06/03/12 | 5 |
| Toluene | BDL | 0.030 | mg/kg | 8021/8015 | 06/03/12 | 5 |
| Ethylbenzene | BDL | 0.0030 | mg/kg | 8021/8015 | 06/03/12 | 5 |
| Total Xylene | BDL | 0.0090 | mg/kg | 8021/8015 | 06/03/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.60 | mg/kg | GRO | 06/03/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 89.8 | | % Rec. | 8021/8015 | 06/03/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 94.7 | | % Rec. | 8021/8015 | 06/03/12 | 5 |
| TPH (GC/FID) High Fraction | 100 | 4.8 | mg/kg | 3546/DRO | 06/04/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 57.2 | | % Rec. | 3546/DRO | 06/04/12 | 1 |

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

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REPORT OF ANALYSIS

James McDaniel
XTO Energy - San Juan Division
382 County Road 3100
Aztec, NM 87410

June 05,2012

ESC Sample # : L578182-03

Date Received : June 02, 2012
Description : Jicarilla Apache 14

Site ID :

Sample ID : BOTTOM SANDSTONE COMP

Project # :

Collected By : Logan Hixon
Collection Date : 05/31/12 12:25

| Parameter | Dry Result | Det. Limit | Units | Method | Date | Dil. |
|---|---|---|---|---|---|---|
| Total Solids | 79.9 | 0.100 | % | 2540G | 06/04/12 | 1 |
| Benzene | BDL | 0.031 | mg/kg | 8021/8015 | 06/04/12 | 50 |
| Toluene | BDL | 0.31 | mg/kg | 8021/8015 | 06/04/12 | 50 |
| Ethylbenzene | 0.37 | 0.031 | mg/kg | 8021/8015 | 06/04/12 | 50 |
| Total Xylene | 4.1 | 0.094 | mg/kg | 8021/8015 | 06/04/12 | 50 |
| TPH (GC/FID) Low Fraction | 160 | 6.2 | mg/kg | GRO | 06/04/12 | 50 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 99.5 | | % Rec. | 8021/8015 | 06/04/12 | 50 |
| a,a,a-Trifluorotoluene(PID) | 107. | | % Rec. | 8021/8015 | 06/04/12 | 50 |
| TPH (GC/FID) High Fraction | 400 | 5.0 | mg/kg | 3546/DRO | 06/04/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 85.1 | | % Rec. | 3546/DRO | 06/04/12 | 1 |

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/05/12 15:09 Printed: 06/05/12 15:14

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REPORT OF ANALYSIS

James McDaniel
XTO Energy - San Juan Division
382 County Road 3100
Aztec, NM 87410

June 05,2012

ESC Sample # : L578182-04

Date Received : June 02, 2012
Description : Jicarilla Apache 14

Site ID :

Sample ID : W. WALL 12 FT COMP

Project # :

Collected By : Logan Hixon
Collection Date : 05/31/12 14:30

| Parameter | Dry Result | Det. Limit | Units | Method | Date | Dil. |
|---|---|---|---|---|---|---|
| Total Solids | 86.0 | 0.100 | % | 2540G | 06/04/12 | 1 |
| TPH (GC/FID) Low Fraction | BDL | 0.58 | mg/kg | 8015D/GRO | 06/03/12 | 5 |
| Surrogate Recovery (70-130) | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 114. | | % Rec. | 602/8015 | 06/03/12 | 5 |
| TPH (GC/FID) High Fraction | BDL | 4.6 | mg/kg | 3546/DRO | 06/04/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 64.8 | | % Rec. | 3546/DRO | 06/04/12 | 1 |

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/05/12 15:09 Printed: 06/05/12 15:14

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REPORT OF ANALYSIS

James McDaniel
XTO Energy - San Juan Division
382 County Road 3100
Aztec, NM 87410

June 05,2012

ESC Sample # : L578182-05

Date Received : June 02, 2012
Description : Jicarilla Apache 14

Site ID :

Sample ID : N. WALL 12 FT COMP

Project # :

Collected By : Logan Hixon
Collection Date : 05/31/12 14:45

| Parameter | Dry Result | Det. Limit | Units | Method | Date | Dil. |
|---|---|---|---|---|---|---|
| Total Solids | 87.5 | 0.100 | % | 2540G | 06/04/12 | 1 |
| TPH (GC/FID) Low Fraction | BDL | 0.57 | mg/kg | 8015D/GRO | 06/03/12 | 5 |
| Surrogate Recovery (70-130) | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 89.7 | | % Rec. | 602/8015 | 06/03/12 | 5 |
| TPH (GC/FID) High Fraction | BDL | 4.6 | mg/kg | 3546/DRO | 06/04/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 79.1 | | % Rec. | 3546/DRO | 06/04/12 | 1 |

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/05/12 15:09 Printed: 06/05/12 15:14

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---|---|---|---|---|---|
| L578182-03 | WG595990 | SAMP | TPH (GC/FID) Low Fraction | R2196193 | J5 |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|---|---|
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high |

## Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

## Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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XTO Energy - San Juan Division
James McDaniel
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L578182

June 05, 2012

Laboratory Blank

| Analyte | Result | Units | % Rec | Limit | Batch | Date Analyzed |
|---|---|---|---|---|---|---|
| Benzene | < .0005 | mg/kg | | | WG595780 | 06/03/12 05:29 |
| Ethylbenzene | < .0005 | mg/kg | | | WG595780 | 06/03/12 05:29 |
| Toluene | < .005 | mg/kg | | | WG595780 | 06/03/12 05:29 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG595780 | 06/03/12 05:29 |
| Total Xylene | < .0015 | mg/kg | | | WG595780 | 06/03/12 05:29 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 90.07 | 59-128 | WG595780 | 06/03/12 05:29 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 95.18 | 54-144 | WG595780 | 06/03/12 05:29 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG595779 | 06/03/12 01:08 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 114.5 | 59-128 | WG595779 | 06/03/12 01:08 |
| Total Solids | < .1 | % | | | WG595812 | 06/04/12 11:55 |
| Benzene | < .0005 | mg/kg | | | WG595990 | 06/04/12 17:28 |
| Ethylbenzene | < .0005 | mg/kg | | | WG595990 | 06/04/12 17:28 |
| Toluene | < .005 | mg/kg | | | WG595990 | 06/04/12 17:28 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG595990 | 06/04/12 17:28 |
| Total Xylene | < .0015 | mg/kg | | | WG595990 | 06/04/12 17:28 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 101.0 | 59-128 | WG595990 | 06/04/12 17:28 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 108.6 | 54-144 | WG595990 | 06/04/12 17:28 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG595815 | 06/04/12 16:15 |
| o-Terphenyl | | % Rec. | 61.63 | 50-150 | WG595815 | 06/04/12 16:15 |

Duplicate

| Analyte | Units | Result | Duplicate | RPD | Limit | Ref Samp | Batch |
|---|---|---|---|---|---|---|---|
| Total Solids | % | 88.0 | 87.5 | 0.239 | 5 | L578182-05 | WG595812 |

Laboratory Control Sample

| Analyte | Units | Known Val | Result | % Rec | Limit | Batch |
|---|---|---|---|---|---|---|
| Benzene | mg/kg | .05 | 0.0413 | 82.5 | 76-113 | WG595780 |
| Ethylbenzene | mg/kg | .05 | 0.0417 | 83.4 | 78-115 | WG595780 |
| Toluene | mg/kg | .05 | 0.0410 | 82.1 | 76-114 | WG595780 |
| Total Xylene | mg/kg | .15 | 0.122 | 81.6 | 81-118 | WG595780 |
| a,a,a-Trifluorotoluene(FID) | | | | 90.13 | 59-128 | WG595780 |
| a,a,a-Trifluorotoluene(PID) | | | | 95.68 | 54-144 | WG595780 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.97 | 109. | 67-135 | WG595780 |
| a,a,a-Trifluorotoluene(FID) | | | | 95.29 | 59-128 | WG595780 |
| a,a,a-Trifluorotoluene(PID) | | | | 104.9 | 54-144 | WG595780 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 6.80 | 124. | 67-135 | WG595779 |
| a,a,a-Trifluorotoluene(FID) | | | | 111.5 | 59-128 | WG595779 |
| Total Solids | % | 50 | 49.8 | 99.6 | 85-115 | WG595812 |
| Benzene | mg/kg | .05 | 0.0463 | 92.7 | 76-113 | WG595990 |
| Ethylbenzene | mg/kg | .05 | 0.0470 | 94.1 | 78-115 | WG595990 |
| Toluene | mg/kg | .05 | 0.0467 | 93.5 | 76-114 | WG595990 |
| Total Xylene | mg/kg | .15 | 0.145 | 96.6 | 81-118 | WG595990 |
| a,a,a-Trifluorotoluene(FID) | | | | 100.8 | 59-128 | WG595990 |

* 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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Est. 1970

XTO Energy - San Juan Division
*James McDaniel*
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L578182

June 05, 2012

Laboratory Control Sample

| Analyte | Units | Known Val | Result | % Rec | Limit | Batch |
|---|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene(PID) | | | | 107.1 | 54-144 | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 7.04 | 128. | 67-135 | WG595990 |
| a,a,a-Trifluorotoluene(FID) | | | | 107.1 | 59-128 | WG595990 |
| a,a,a-Trifluorotoluene(PID) | | | | 118.7 | 54-144 | WG595990 |
| TPH (GC/FID) High Fraction | ppm | 60 | 45.7 | 76.2 | 50-150 | WG595815 |
| o-Terphenyl | | | | 66.18 | 50-150 | WG595815 |

Laboratory Control Sample Duplicate

| Analyte | Units | Result | Ref | %Rec | Limit | RPD | Limit | Batch |
|---|---|---|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | mg/kg | 6.04 | 5.97 | 110. | 67-135 | 1.17 | 20 | WG595780 |
| a,a,a-Trifluorotoluene(FID) | | | | 95.70 | 59-128 | | | WG595780 |
| a,a,a-Trifluorotoluene(PID) | | | | 105.7 | 54-144 | | | WG595780 |
| Benzene | mg/kg | 0.0445 | 0.0413 | 89.0 | 76-113 | 7.54 | 20 | WG595780 |
| Ethylbenzene | mg/kg | 0.0453 | 0.0417 | 90.0 | 78-115 | 8.25 | 20 | WG595780 |
| Toluene | mg/kg | 0.0444 | 0.0410 | 89.0 | 76-114 | 7.80 | 20 | WG595780 |
| Total Xylene | mg/kg | 0.133 | 0.122 | 89.0 | 81-118 | 8.42 | 20 | WG595780 |
| a,a,a-Trifluorotoluene(FID) | | | | 90.27 | 59-128 | | | WG595780 |
| a,a,a-Trifluorotoluene(PID) | | | | 94.77 | 54-144 | | | WG595780 |
| TPH (GC/FID) Low Fraction | mg/kg | 6.82 | 6.80 | 124. | 67-135 | 0.320 | 20 | WG595779 |
| a,a,a-Trifluorotoluene(FID) | | | | 113.0 | 59-128 | | | WG595779 |
| Benzene | mg/kg | 0.0464 | 0.0463 | 93.0 | 76-113 | 0.0200 | 20 | WG595990 |
| Ethylbenzene | mg/kg | 0.0466 | 0.0470 | 93.0 | 78-115 | 1.02 | 20 | WG595990 |
| Toluene | mg/kg | 0.0459 | 0.0467 | 92.0 | 76-114 | 1.72 | 20 | WG595990 |
| Total Xylene | mg/kg | 0.145 | 0.145 | 97.0 | 81-118 | 0.310 | 20 | WG595990 |
| a,a,a-Trifluorotoluene(FID) | | | | 100.8 | 59-128 | | | WG595990 |
| a,a,a-Trifluorotoluene(PID) | | | | 107.3 | 54-144 | | | WG595990 |
| TPH (GC/FID) Low Fraction | mg/kg | 7.18 | 7.04 | 131. | 67-135 | 2.09 | 20 | WG595990 |
| a,a,a-Trifluorotoluene(FID) | | | | 107.6 | 59-128 | | | WG595990 |
| a,a,a-Trifluorotoluene(PID) | | | | 119.0 | 54-144 | | | WG595990 |

Matrix Spike

| Analyte | Units | MS Res | Ref Res | TV | % Rec | Limit | Ref Samp | Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.181 | 0 | .05 | 72.3 | 32-137 | L578051-06 | WG595780 |
| Ethylbenzene | mg/kg | 0.165 | 0 | .05 | 65.9 | 10-150 | L578051-06 | WG595780 |
| Toluene | mg/kg | 0.173 | 0 | .05 | 69.2 | 20-142 | L578051-06 | WG595780 |
| Total Xylene | mg/kg | 0.484 | 0 | .15 | 64.6 | 16-141 | L578051-06 | WG595780 |
| a,a,a-Trifluorotoluene(FID) | | | | | 89.47 | 59-128 | | WG595780 |
| a,a,a-Trifluorotoluene(PID) | | | | | 94.57 | 54-144 | | WG595780 |
| TPH (GC/FID) Low Fraction | mg/kg | 17.7 | 0 | 5.5 | 64.4 | 55-109 | L578051-06 | WG595780 |
| a,a,a-Trifluorotoluene(FID) | | | | | 92.27 | 59-128 | | WG595780 |
| a,a,a-Trifluorotoluene(PID) | | | | | 99.84 | 54-144 | | WG595780 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.40 | 0.0380 | 5.5 | 97.5 | 55-109 | L578096-02 | WG595779 |
| a,a,a-Trifluorotoluene(FID) | | | | | 110.7 | 59-128 | | WG595779 |
| Benzene | mg/kg | 2.40 | 0 | .05 | 95.8 | 32-137 | L578182-03 | WG595990 |
| Ethylbenzene | mg/kg | 2.66 | 0.300 | .05 | 94.4 | 10-150 | L578182-03 | WG595990 |
| Toluene | mg/kg | 2.60 | 0 | .05 | 104. | 20-142 | L578182-03 | WG595990 |
| Total Xylene | mg/kg | 10.5 | 3.30 | .15 | 95.4 | 16-141 | L578182-03 | WG595990 |

* 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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Est. 1970

XTO Energy - San Juan Division
James McDaniel
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L578182

June 05, 2012

| Analyte | Units | Matrix Spike MS Res | Ref Res | TV | % Rec | Limit | Ref Samp | Batch |
|---|---|---|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene(FID) | | | | | 101.0 | 59-128 | | |
| a,a,a-Trifluorotoluene(PID) | | | | | 106.4 | 54-144 | | |
| TPH (GC/FID) Low Fraction | mg/kg | 450. | 130. | 5.5 | 116.* | 55-109 | L578182-03 | WG595990 |
| a,a,a-Trifluorotoluene(FID) | | | | | 97.79 | 59-128 | | WG595990 |
| a,a,a-Trifluorotoluene(PID) | | | | | 122.4 | 54-144 | | WG595990 |

| Analyte | Units | Matrix Spike Duplicate MSD | Ref | %Rec | Limit | RPD | Limit | Ref Samp | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.159 | 0.181 | 63.6 | 32-137 | 12.9 | 39 | L578051-06 | WG595780 |
| Ethylbenzene | mg/kg | 0.127 | 0.165 | 50.8 | 10-150 | 25.9 | 44 | L578051-06 | WG595780 |
| Toluene | mg/kg | 0.143 | 0.173 | 57.4 | 20-142 | 18.6 | 42 | L578051-06 | WG595780 |
| Total Xylene | mg/kg | 0.369 | 0.484 | 49.3 | 16-141 | 26.9 | 46 | L578051-06 | WG595780 |
| a,a,a-Trifluorotoluene(FID) | | | | 89.49 | 59-128 | | | | WG595780 |
| a,a,a-Trifluorotoluene(PID) | | | | 94.92 | 54-144 | | | | WG595780 |
| TPH (GC/FID) Low Fraction | mg/kg | 20.7 | 17.7 | 75.2 | 55-109 | 15.5 | 20 | L578051-06 | WG595780 |
| a,a,a-Trifluorotoluene(FID) | | | | 94.99 | 59-128 | | | | WG595780 |
| a,a,a-Trifluorotoluene(PID) | | | | 103.2 | 54-144 | | | | WG595780 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.08 | 5.40 | 91.6 | 55-109 | 6.22 | 20 | L578096-02 | WG595779 |
| a,a,a-Trifluorotoluene(FID) | | | | 112.2 | 59-128 | | | | WG595779 |
| Benzene | mg/kg | 2.38 | 2.40 | 95.1 | 32-137 | 0.730 | 39 | L578182-03 | WG595990 |
| Ethylbenzene | mg/kg | 2.65 | 2.66 | 93.8 | 10-150 | 0.510 | 44 | L578182-03 | WG595990 |
| Toluene | mg/kg | 2.52 | 2.60 | 101. | 20-142 | 3.07 | 42 | L578182-03 | WG595990 |
| Total Xylene | mg/kg | 10.4 | 10.5 | 94.1 | 16-141 | 0.940 | 46 | L578182-03 | WG595990 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.0 | 59-128 | | | | WG595990 |
| a,a,a-Trifluorotoluene(PID) | | | | 106.4 | 54-144 | | | | WG595990 |
| TPH (GC/FID) Low Fraction | mg/kg | 467. | 450. | 122.* | 55-109 | 3.67 | 20 | L578182-03 | WG595990 |
| a,a,a-Trifluorotoluene(FID) | | | | 97.74 | 59-128 | | | | WG595990 |
| a,a,a-Trifluorotoluene(PID) | | | | 122.0 | 54-144 | | | | WG595990 |

Batch number /Run number / Sample number cross reference

WG595780: R2194693: L578182-02 05
WG595779: R2194953: L578182-01 04
WG595812: R2195259: L578182-01 02 03 04 05
WG595990: R2196193: L578182-03
WG595815: R2197475: L578182-01 02 03 04 05

* * 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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Est. 1970

XTO Energy - San Juan Division
James McDaniel
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L578182

June 05, 2012

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.

Company Name/Address:
**XTO Energy - San Juan Division**

382 County Road 3100
Aztec.NM 87410

Billing Information:
XTO Energy Inc
Accounts Payable
382 CR 3100

Aztec,NM 87410

Report to: James Mcdaniel / Logan Hixon

Email to: James_mcdaniel@xtoenergy.com / Logan_Hixon@xtoenergy.com

Project Description: Jicarilla Apache #14

City/Sate Collected: NM

Phone: (505) 333-3100

FAX:

Client Project #:

ESC Key:

Collected by: (print) Logan Hixon

Site/Facility ID#:

P.O.#:

Collected by (signature):

Immediately Packed on Ice N ___ (Y)

Rush? ( Lab MUST Be Notified )
___ Same Day..... 200%
___ Next Day..... 100%
X Two Day..... 50%
___ Three Day..... 25%

Date Results Needed:

Email? __No__Yes

FAX? __No__Yes

Analysis/Container/Preservative

C096

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

CoCode XTORNM (lab use only)

Template/Prelogin

Shipped Via:

| Sample ID | Comp/Grab | Matrix* | Depth | Date | Time | No. of Cntrs | 8015 | 8021 | Remarks/Contaminant | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|
| S. Wall 12' comp | comp | SS | | 5/31/12 | 12:00 | 1-4oz | X | | | L578182-01 |
| E. Wall 12' comp | comp | SS | | 5/31/12 | 12:20 | 1-4oz | X | X | | -02 |
| Bottom Sandstone comp | Comp | SS | | 5/31/12 | 12:25 | 1-4oz | X | X | | -03 |
| W. Wall 12' Comp | Comp | SS | | 5/31/12 | 14:30 | 1-4oz | X | | | -04 |
| N. Wall 12' comp | comp | SS | | 5/31/12 | 14:45 | 1-4oz | X | | | -05 |

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: 8695 2056 6420

Flow _____ Other _____

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____ | Condition: (lab use only) |
|---|---|---|---|---|---|
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 4.1 | Bottles Received: 5-4oz 5-1. | CoC Seals Intact ___Y ___N VNA |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 6-2-12 | Time: 0900 | pH Checked: | NCF: |

**Logan Hixon/FAR/CTOC**
05/25/2012 11:07 AM

To Dixon Sandoval
cc James McDaniel/FAR/CTOC@CTOC, Kurt Hoekstra/FAR/CTOC@CTOC, Scott Baxstrom/FAR/CTOC@CTOC
bcc
Subject BGT Closure Notification for the Jicarilla Apache #14

Dixon,

Please accept this email as the required notification of a BGT overflow at the Jicarilla Apache #14 well site (api 30-039-20140) located in Unit M, Section 34, Township 26N, Range 5W, Rio Arriba County, New Mexico. The overflow was discovered on Monday, May 21, 2012 when several inches of water and oil were noticed in the pit cellar. A vac truck was immediately dispatched, and approximately 20 bbls of water and oil were recovered from the bottom of the pit cellar. The pit cellar did not have a liner in place. The BGT will be removed due to the overflow, and the BGT will be closed, and the pit tank brought above grade. A dry arroyo is approximatly 186 feet away. Once the BGT is removed, BGT closure sampling will take place. Please don't hesitate to contact me with any questions regarding this incident. Thank you very much.

Thank You!
Logan Hixon
Environmental Technician
XTO Energy Inc. An ExxonMobil Subsidiary
Western Division
382 CR 3100
Aztec NM 87410
Office (505)333- 3683
Cell (505) 386-8018
Logan_Hixon@xtoenergy.com

**Logan Hixon/FAR/CTOC**
05/25/2012 07:29 AM

To BRANDON POWELL
cc James McDaniel/FAR/CTOC@CTOC, Kurt Hoekstra/FAR/CTOC@CTOC, Scott Baxstrom/FAR/CTOC@CTOC
bcc
Subject Jicarilla Apache #14 bgt closure notification

Brandon,

Please accept this email as the required notification of a BGT overflow at the Jicarilla Apache #14 well site (api 30-039-20140) located in Unit M, Section 34, Township 26N, Range 5W, Rio Arriba County, New Mexico. The leak was discovered on Monday, May 21, 2012 when several inches of water and oil were noticed in the pit cellar. A vac truck was immediately dispatched, and approximately 20 bbls of water and oil were recovered from the bottom of the pit cellar. The pit cellar did not have a liner in place. The BGT will be removed due to the overflow, and the BGT will be closed, and the pit tank brought above grade. A dry arroyo is approximatly 186 feet away. Once the BGT is removed, BGT closure sampling will take place. Please don't hesitate to contact me with any questions regarding this incident. Thank you very much.

Thank You!
Logan Hixon
Environmental Technician
XTO Energy Inc. An ExxonMobil Subsidiary
Western Division
382 CR 3100
Aztec NM 87410
Office (505)333- 3683
Cell (505) 386-8018
Logan_Hixon@xtoenergy.com

# XTO Energy On-Site Form

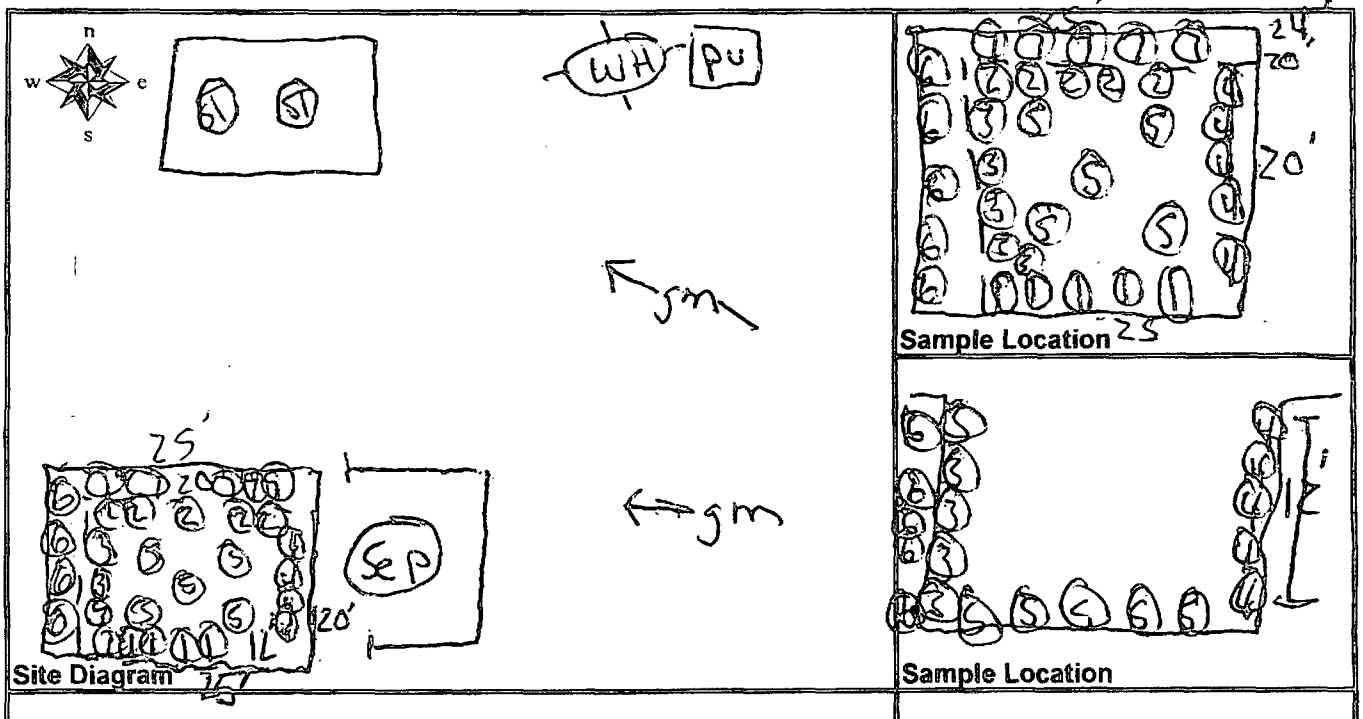
Well Name Jicarilla Apache #14 API # 30-039-20140

Section 34 Township 26 Range 5 County Rio Arriba

Contractors On-Site Core Time On-Site 9:45 Time Off-Site _____

Spill Amount 21 bbls Spilled (Oil/Produced W/Other _____) RCVRD 20

Land Use (Range) Residential / Tribe _____ ) Excavation 25' x 24' x 12' deep




Comments

Number of Photos Taken

## Samples

| Time | Sample # | Sample Description | Characteristics | OVM (ppm) | Analysis Requested |
|---|---|---|---|---|---|
| 11:45 | NA | 100 Standard | NA | 100 | NA |
| 12:00 | 1 | Comp S wall 12' | Sand, Stone | 54.9 | 8015 |
| 12:10 | 2 | Comp E wall 12' | Sand, Stone | 145.6 | |
| 12:15 | 3 | Comp W wall 12' | Sand, Stone | 124.6 | |
| 12:20 | 4 | Comp E wall | Sand, Stone | 134 | 8015, 8021 |
| 12:25 | 5 | Comp bottom | Sandstone | 1234 | 8015, 8021 |
| 14:38 | 6 | Comp W. Wall | Sand | 65 | 8015 |
| 14:45 | 7 | Comp N. wall | Sand | 93 | 8015 |
| | | | | | |

Name (Print) Logan Nixon Date 5/31/12

Name (Signature) _____ Company XTO

# Nelson Revegetation On-Site Form

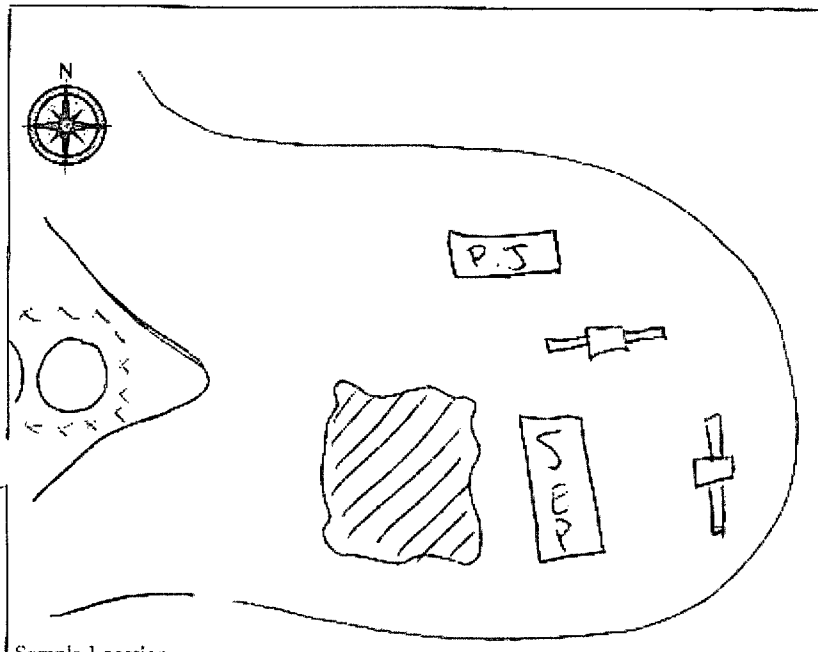
Well Name Jicarilla Apache #14 API# 30-039-20140

Section _____ Township _____ Range _____ County Rio Arriba

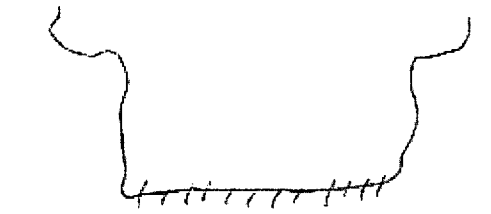
Spill Amount _____ bbls Spilled ( Oil / Produced Water / Other _____ )

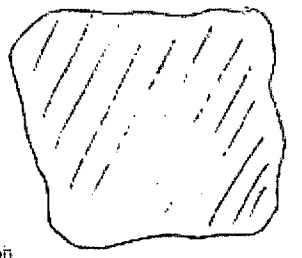
Land Use ( Grazing / Residential / Tribe Gic ) Excavation _____ x _____ x _____ Deep

Site Ranking _____ NMOCD TPH Closure Standard _____



Sample Location


Sample Location


Sample Location

Comments SPRAYED BOTTOM OF EXCAVATION W/ DA POTASSIUM PERMANGANATE. 23 gal of $H^2O$ with a 4% mix of P.P.

| | | | Method 418.1 | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | Sample # | Description | Wt | Reading | Dilution | TPH | VOC | Lab Analysis |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Name BRAD GRIFFIN Sign 6/12/12 BG

Date 6/12/12 Time On-Site 0855 Time Off-Site 1115 Page 1 of 1