

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

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

Form C-141
Revised August 8, 2011
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: Kurt Hoekstra | |
| Address: 382 Road 3100, Aztec, New Mexico 87410 | Telephone No.: (505) 333-3100 | |
| Facility Name: Sullivan Frame A # 1E | Facility Type: Gas Well (Basin Dakota/und.MV./BI/Chacra) | |
| Surface Owner: Private | Mineral Owner | API No.: 30-045-24432 |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|----------|
| A | 30 | 29N | 10W | 990 | FNL | 790 | FEL | San Juan |

Latitude 36.70151 Longitude -107.91853

NATURE OF RELEASE

| | | |
|--|---|---------------------------------------|
| Type of Release: Produced Water | Volume of Release: Unknown | Volume Recovered: None |
| Source of Release: Below Grade Tank | Date and Hour of Occurrence: Unknown | Date and Hour of Discovery: 8-29-2008 |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

OIL CONS. DIV DIST. 3

If a Watercourse was Impacted, Describe Fully.*

NOV 13 2014

Describe Cause of Problem and Remedial Action Taken.* The below grade tank was removed at the Sullivan Frame A # 1E well site due to facility upgrades of the location. The soil beneath the BGT was sampled for TPH via USEPA Method 418.1, for BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'Pit Rule' spill confirmation standards for benzene, total BTEX, and chlorides, but above the TPH Standard of 100 ppm at 47000 ppm via USEPA Method 418.1, confirming that a release has occurred at this location. 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 less than 50 feet, distance to a water well greater than 1000 feet, and distance to surface water greater 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.* On 6-12-09 10-2-2008 approximately 12 yards of soil was excavated from the BGT cellar, the soil at the bottom of the cellar was resampled, returning TPH results via USEPA Method 418.1 of 18.9ppm these results are below the levels determined for this site using the Guidelines for the Remediation of Leaks, Spills, and Releases. 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 "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: <i>Kurt Hoekstra</i> | | OIL CONSERVATION DIVISION | |
| Printed Name: Kurt Hoekstra | | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Title: EHS Coordinator | Approval Date: 11/24/14 | Expiration Date: | |
| E-mail Address: Kurt_Hoekstra@xtoenergy.com | Conditions of Approval: | Attached <input type="checkbox"/> | |
| Date: 11-4-14 Phone: 505-333-3100 | | | |

* Attach Additional Sheets If Necessary

#NCS 1432842 905

(21)

COVER LETTER

Friday, August 29, 2008

Martin Nee
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 333-3100

FAX (505) 333-3280

RE: Pit Tank Cellar Samples

Order No.: 0808273

Dear Martin Nee:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 8/15/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory, Inc.

Date: 29-Aug-08

CLIENT: XTO Energy**Client Sample ID:** Pit Tank Cellar Sullivan Frame A#1**Lab Order:** 0808273**Collection Date:** 8/12/2008 3:15:00 PM**Project:** Pit Tank Cellar Samples**Date Received:** 8/15/2008**Lab ID:** 0808273-01**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|----------|------|-------|-----|----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: DAM |
| Benzene | ND | 0.10 | | mg/Kg | 2 | 8/25/2008 4:24:41 PM |
| Toluene | 0.16 | 0.10 | | mg/Kg | 2 | 8/25/2008 4:24:41 PM |
| Ethylbenzene | 0.22 | 0.10 | | mg/Kg | 2 | 8/25/2008 4:24:41 PM |
| Xylenes, Total | 1.4 | 0.20 | | mg/Kg | 2 | 8/25/2008 4:24:41 PM |
| Surr: 4-Bromofluorobenzene | 109 | 81.4-117 | | %REC | 2 | 8/25/2008 4:24:41 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SLB |
| Chloride | 220 | 1.5 | | mg/Kg | 5 | 8/21/2008 9:47:00 PM |
| EPA METHOD 418.1: TPH | | | | | | Analyst: LRW |
| Petroleum Hydrocarbons, TR | 18000 | 1000 | | mg/Kg | 100 | 8/21/2008 |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Aug-08

| | | | |
|-------------------|-------------------------|--------------------------|------------------------------------|
| CLIENT: | XTO Energy | Client Sample ID: | Pit Tank Cellar Sullivan Frame A#1 |
| Lab Order: | 0808273 | Collection Date: | 8/12/2008 3:00:00 PM |
| Project: | Pit Tank Cellar Samples | Date Received: | 8/15/2008 |
| Lab ID: | 0808273-02 | Matrix: | SOIL |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|----------|------|-------|-----|----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: DAM |
| Benzene | 0.26 | 0.25 | | mg/Kg | 5 | 8/25/2008 4:55:04 PM |
| Toluene | 1.0 | 0.25 | | mg/Kg | 5 | 8/25/2008 4:55:04 PM |
| Ethylbenzene | 0.55 | 0.25 | | mg/Kg | 5 | 8/25/2008 4:55:04 PM |
| Xylenes, Total | 5.3 | 0.50 | | mg/Kg | 5 | 8/25/2008 4:55:04 PM |
| Surr: 4-Bromofluorobenzene | 105 | 81.4-117 | | %REC | 5 | 8/25/2008 4:55:04 PM |
| EPA METHOD 418.1: TPH | | | | | | Analyst: LRW |
| Petroleum Hydrocarbons, TR | 47000 | 4000 | | mg/Kg | 400 | 8/21/2008 |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Aug-08

CLIENT: XTO Energy
Lab Order: 0808273
Project: Pit Tank Cellar Samples
Lab ID: 0808273-03

Client Sample ID: Pit Tank Cellar Ohio C Govt #4
Collection Date: 8/12/2008 1:30:00 PM
Date Received: 8/15/2008
Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: DAM |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 8/22/2008 9:17:20 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/22/2008 9:17:20 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/22/2008 9:17:20 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/22/2008 9:17:20 PM |
| Surr: 4-Bromofluorobenzene | 81.1 | 81.4-117 | S | %REC | 1 | 8/22/2008 9:17:20 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SLB |
| Chloride | 44 | 1.5 | | mg/Kg | 5 | 8/21/2008 10:04:25 PM |
| EPA METHOD 418.1: TPH | | | | | | Analyst: LRW |
| Petroleum Hydrocarbons, TR | 150 | 10 | | mg/Kg | 1 | 8/21/2008 |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Pit Tank Cellar Samples

Work Order: 0808273

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-------------------------------------|--------|-------|-------|------|----------|-----------------|-------------------------------------|----------|------|
| Method: EPA Method 300.0: Anions | | | | | | | | | |
| Sample ID: MB-16827 | | MBLK | | | | Batch ID: 16827 | Analysis Date: 8/21/2008 8:02:32 PM | | |
| Chloride | ND | mg/Kg | 0.30 | | | | | | |
| Sample ID: LCS-16827 | | LCS | | | | Batch ID: 16827 | Analysis Date: 8/21/2008 8:19:57 PM | | |
| Chloride | 14.01 | mg/Kg | 0.30 | 93.4 | 90 | 110 | | | |
| Method: EPA Method 418.1: TPH | | | | | | | | | |
| Sample ID: MB-16842 | | MBLK | | | | Batch ID: 16842 | Analysis Date: 8/21/2008 | | |
| Petroleum Hydrocarbons, TR | ND | mg/Kg | 10 | | | | | | |
| Sample ID: LCS-16842 | | LCS | | | | Batch ID: 16842 | Analysis Date: 8/21/2008 | | |
| Petroleum Hydrocarbons, TR | 91.79 | mg/Kg | 10 | 91.8 | 82 | 114 | | | |
| Sample ID: LCSD-16842 | | LCSD | | | | Batch ID: 16842 | Analysis Date: 8/21/2008 | | |
| Petroleum Hydrocarbons, TR | 105.2 | mg/Kg | 10 | 105 | 82 | 114 | 13.6 | 20 | |
| Method: EPA Method 8021B: Volatiles | | | | | | | | | |
| Sample ID: MB-16800 | | MBLK | | | | Batch ID: 16800 | Analysis Date: 8/22/2008 4:13:54 PM | | |
| Benzene | ND | mg/Kg | 0.050 | | | | | | |
| Toluene | ND | mg/Kg | 0.050 | | | | | | |
| Ethylbenzene | ND | mg/Kg | 0.050 | | | | | | |
| Xylenes, Total | ND | mg/Kg | 0.10 | | | | | | |
| Sample ID: LCS-16800 | | LCS | | | | Batch ID: 16800 | Analysis Date: 8/22/2008 4:44:16 PM | | |
| Benzene | 0.3076 | mg/Kg | 0.050 | 110 | 78.8 | 132 | | | |
| Toluene | 2.153 | mg/Kg | 0.050 | 108 | 78.9 | 112 | | | |
| Ethylbenzene | 0.4355 | mg/Kg | 0.050 | 109 | 69.3 | 125 | | | |
| Xylenes, Total | 2.577 | mg/Kg | 0.10 | 112 | 73 | 128 | | | |

Qualifiers:

| | | | |
|---|--|----|--|
| 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 |
| R | RPD outside accepted recovery limits | S | Spike recovery outside accepted recovery limits |

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Work Order Number 0808273

Date Received:

8/15/2008

Received by: TLS

Sample ID labels checked by:

Checklist completed by:

Signature

Date

Initials

Matrix:

Carrier name UPS

| | | | | |
|---|--|------------------------------|---|--------------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| Water - Preservation labels on bottle and cap match? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |

Container/Temp Blank temperature?

3°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Remarks: EMAIL RESULTS TO: Kim C. Thompson

QA/QC Package: ☐ Std ☐ Level 4 ☐ Other: _____

X10 Energy

PT Tank Leake Samples

Address: 303 N 3100

Project #:

AZTEC, NM. 87410

Project Manager:

Phone #: 505-733-3367

MARTIN NEFF

Fax #

Sample Temperature:

6

[illegible]

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

ANALYSIS REQUEST

| | | | | | |
|-------|-------|-----------------------------|--------------------------|--------|---------|
| Date: | Time: | Reinquished By: (Signature) | Received By: (Signature) | 8/5/88 | Remarks |
| | | | | | |

Date: _____ Time: _____ Relinquished By: (Signature) _____

Received By: Signature

EMAIL RESULTS TO: Kim Campbell



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

| | | | |
|--------------------|-----------------------------|---------------------|------------|
| Client: | XTO Energy | Project #: | 98031-0121 |
| Sample ID: | Sullivan Frame A#1E BGT Pit | Date Reported: | 06-16-09 |
| Laboratory Number: | 50500 | Date Sampled: | 06-12-09 |
| Chain of Custody: | 7192 | Date Received: | 06-12-09 |
| Sample Matrix: | Soil | Date Analyzed: | 06-16-09 |
| Preservative: | Cool | Date Extracted: | 06-15-09 |
| Condition: | Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene | 1.5 | 0.9 |
| Toluene | 4.1 | 1.0 |
| Ethylbenzene | 3.0 | 1.0 |
| p,m-Xylene | 6.7 | 1.2 |
| o-Xylene | 2.1 | 0.9 |
| Total BTEX | 17.4 | |

ND - Parameter not detected at the stated detection limit.

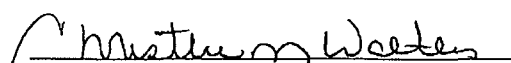
| Surrogate Recoveries: | Parameter | Percent Recovery |
|-----------------------|---------------------|------------------|
| | Fluorobenzene | 99.0 % |
| | 1,4-difluorobenzene | 99.0 % |
| | Bromochlorobenzene | 99.0 % |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: BGT Samples.


Analyst


Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

| | | | |
|--------------------|------------------------|---------------------|------------|
| Client: | XTO Energy | Project #: | 98031-0121 |
| Sample ID: | Ohio C Govt #2 BGT Pit | Date Reported: | 06-16-09 |
| Laboratory Number: | 50501 | Date Sampled: | 06-12-09 |
| Chain of Custody: | 7192 | Date Received: | 06-12-09 |
| Sample Matrix: | Soil | Date Analyzed: | 06-16-09 |
| Preservative: | Cool | Date Extracted: | 06-15-09 |
| Condition: | Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene | 2.3 | 0.9 |
| Toluene | 5.1 | 1.0 |
| Ethylbenzene | 3.7 | 1.0 |
| p,m-Xylene | 7.8 | 1.2 |
| o-Xylene | 6.0 | 0.9 |
| Total BTEX | 24.9 | |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter | Percent Recovery |
|-----------------------|---------------------|------------------|
| | Fluorobenzene | 97.0 % |
| | 1,4-difluorobenzene | 97.0 % |
| | Bromochlorobenzene | 97.0 % |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: BGT Samples.

Analyst

Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

| | | | |
|--------------------|---------------------------|---------------------|------------|
| Client: | XTO Energy | Project #: | 98031-0121 |
| Sample ID: | Ohio C Govt #6 BGT Cellar | Date Reported: | 06-16-09 |
| Laboratory Number: | 50502 | Date Sampled: | 06-12-09 |
| Chain of Custody: | 7192 | Date Received: | 06-12-09 |
| Sample Matrix: | Soil | Date Analyzed: | 06-16-09 |
| Preservative: | Cool | Date Extracted: | 06-15-09 |
| Condition: | Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene | ND | 0.9 |
| Toluene | 1.6 | 1.0 |
| Ethylbenzene | 1.3 | 1.0 |
| p,m-Xylene | 1.7 | 1.2 |
| o-Xylene | 1.6 | 0.9 |
| Total BTEX | 6.2 | |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter | Percent Recovery |
|-----------------------|---------------------|------------------|
| | Fluorobenzene | 96.0 % |
| | 1,4-difluorobenzene | 96.0 % |
| | Bromochlorobenzene | 96.0 % |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: BGT Samples.

Analyst

Review



**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

| | | | |
|--------------------|----------------|----------------|----------|
| Client: | N/A | Project #: | N/A |
| Sample ID: | 06-16-BT QA/QC | Date Reported: | 06-16-09 |
| Laboratory Number: | 50500 | Date Sampled: | N/A |
| Sample Matrix: | Soil | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 06-16-09 |
| Condition: | N/A | Analysis: | BTEX |

| Calibration and Detection Limits (ug/L) | I-Cal RF | G-Cal RF | %Diff | Blank Conc | Detect Limit |
|--|-------------|-----------------------|-------|---------------|-----------------|
| | | Accept. Range 0 - 15% | | | |
| Benzene | 5.8551E+006 | 5.8668E+006 | 0.2% | ND | 0.1 |
| Toluene | 5.2463E+006 | 5.2568E+006 | 0.2% | ND | 0.1 |
| Ethylbenzene | 4.6815E+006 | 4.6908E+006 | 0.2% | ND | 0.1 |
| p,m-Xylene | 1.1986E+007 | 1.2010E+007 | 0.2% | ND | 0.1 |
| o-Xylene | 4.4981E+006 | 4.5072E+006 | 0.2% | ND | 0.1 |

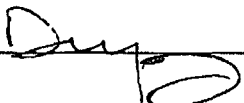
| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff | Accept Range | Detect Limit |
|-------------------------|--------|-----------|-------|--------------|--------------|
| Benzene | 1.5 | 1.4 | 6.7% | 0 - 30% | 0.9 |
| Toluene | 4.1 | 3.9 | 4.9% | 0 - 30% | 1.0 |
| Ethylbenzene | 3.0 | 2.8 | 6.7% | 0 - 30% | 1.0 |
| p,m-Xylene | 6.7 | 6.4 | 4.5% | 0 - 30% | 1.2 |
| o-Xylene | 2.1 | 2.0 | 4.8% | 0 - 30% | 0.9 |

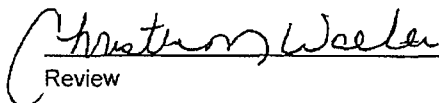
| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene | 1.5 | 50.0 | 51.0 | 99.0% | 39 - 150 |
| Toluene | 4.1 | 50.0 | 52.1 | 96.3% | 46 - 148 |
| Ethylbenzene | 3.0 | 50.0 | 51.0 | 96.2% | 32 - 160 |
| p,m-Xylene | 6.7 | 100 | 102 | 95.3% | 46 - 148 |
| o-Xylene | 2.1 | 50.0 | 48.1 | 92.3% | 46 - 148 |

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 50500 - 50508.

Analyst 

Review 



envirotech
Analytical Laboratory

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

| | | | |
|----------------------|------------------------------|------------------|------------|
| Client: | XTO Energy | Project #: | 98031-0121 |
| Sample ID: | Sullivan Frame A #1E BGT Pit | Date Reported: | 06-16-09 |
| Laboratory Number: | 50500 | Date Sampled: | 06-12-09 |
| Chain of Custody No: | 7192 | Date Received: | 06-12-09 |
| Sample Matrix: | Soil | Date Extracted: | 06-15-09 |
| Preservative: | Cool | Date Analyzed: | 06-15-09 |
| Condition: | Intact | Analysis Needed: | TPH-418.1 |

| Parameter | Concentration (mg/kg) | Det. Limit (mg/kg) |
|------------------------------|--------------------------|--------------------------|
| Total Petroleum Hydrocarbons | 18.9 | 5.0 |

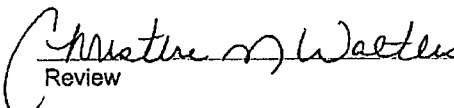
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B.G.T. Samples.**



Analyst



Review



envirotech
Analytical Laboratory

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

| | | | |
|----------------------|------------------------|------------------|------------|
| Client: | XTO Energy | Project #: | 98031-0121 |
| Sample ID: | Ohio C Govt #2 BGT Pit | Date Reported: | 06-16-09 |
| Laboratory Number: | 50501 | Date Sampled: | 06-12-09 |
| Chain of Custody No: | 7192 | Date Received: | 06-12-09 |
| Sample Matrix: | Soil | Date Extracted: | 06-15-09 |
| Preservative: | Cool | Date Analyzed: | 06-15-09 |
| Condition: | Intact | Analysis Needed: | TPH-418.1 |

| Parameter | Concentration (mg/kg) | Det. Limit (mg/kg) |
|------------------------------|--------------------------|--------------------------|
| Total Petroleum Hydrocarbons | 15.4 | 5.0 |

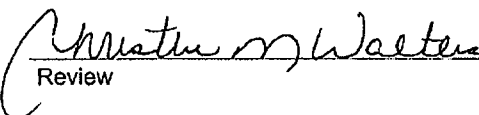
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B.G.T. Samples.**



Analyst



Review

| | | | |
|----------------------|---------------------------|------------------|------------|
| Client: | XTO Energy | Project #: | 98031-0121 |
| Sample ID: | Ohio C Govt #6 BGT Cellar | Date Reported: | 06-16-09 |
| Laboratory Number: | 50502 | Date Sampled: | 06-12-09 |
| Chain of Custody No: | 7192 | Date Received: | 06-12-09 |
| Sample Matrix: | Soil | Date Extracted: | 06-15-09 |
| Preservative: | Cool | Date Analyzed: | 06-15-09 |
| Condition: | Intact | Analysis Needed: | TPH-418.1 |

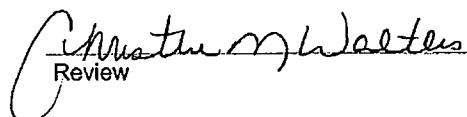
| Parameter | Concentration (mg/kg) | Det. Limit (mg/kg) |
|------------------------------|--------------------------|--------------------------|
| Total Petroleum Hydrocarbons | 35.5 | 5.0 |

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **B.G.T. Samples.**

Analyst 


Review



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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS
QUALITY ASSURANCE REPORT**

| | | | |
|--------------------|-----------------------|------------------|----------|
| Client: | QA/QC | Project #: | N/A |
| Sample ID: | QA/QC | Date Reported: | 06-16-09 |
| Laboratory Number: | 06-15-TPH.QA/QC 50500 | Date Sampled: | N/A |
| Sample Matrix: | Freon-113 | Date Analyzed: | 06-15-09 |
| Preservative: | N/A | Date Extracted: | 06-15-09 |
| Condition: | N/A | Analysis Needed: | TPH |

| Calibration | I-Cal Date | C-Cal Date | I-Cal RF: | C-Cal RF: | % Difference | Accept. Range |
|-------------|------------|------------|-----------|-----------|--------------|---------------|
| | 05-26-09 | 06-15-09 | 1,480 | 1,490 | 0.7% | +/- 10% |

| Blank Conc. (mg/Kg) | Concentration | Detection Limit |
|---------------------|---------------|-----------------|
| TPH | ND | 5.0 |

| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| TPH | 18.9 | 15.4 | 18.5% | +/- 30% |

| Spike Conc. (mg/Kg) | Sample | Spike Added | Spike Result | % Recovery | Accept Range |
|---------------------|--------|-------------|--------------|------------|--------------|
| TPH | 18.9 | 2,000 | 1,790 | 88.7% | 80 - 120% |

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Samples 50500 - 50508.

Analyst

Review



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Chloride

| | | | |
|----------------|------------------------------|-------------------|------------|
| Client: | XTO Energy | Project #: | 98031-0121 |
| Sample ID: | Sullivan Frame A #1E BGT Pit | Date Reported: | 06-16-09 |
| Lab ID#: | 50500 | Date Sampled: | 06-12-09 |
| Sample Matrix: | Soil | Date Received: | 06-12-09 |
| Preservative: | Cool | Date Analyzed: | 06-16-09 |
| Condition: | Intact | Chain of Custody: | 7192 |

Parameter

Concentration (mg/Kg)

Total Chloride

15

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **BGT Samples.**

Analyst

Review



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Chloride

| | | | |
|----------------|------------------------|-------------------|------------|
| Client: | XTO Energy | Project #: | 98031-0121 |
| Sample ID: | Ohio C Govt #2 BGT Pit | Date Reported: | 06-16-09 |
| Lab ID#: | 50501 | Date Sampled: | 06-12-09 |
| Sample Matrix: | Soil | Date Received: | 06-12-09 |
| Preservative: | Cool | Date Analyzed: | 06-16-09 |
| Condition: | Intact | Chain of Custody: | 7192 |

Parameter

Concentration (mg/Kg)

Total Chloride

595

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **BGT Samples.**

Analyst

Review



Chloride

| | | | |
|----------------|---------------------------|-------------------|------------|
| Client: | XTO Energy | Project #: | 98031-0121 |
| Sample ID: | Ohio C Govt #6 BGT Cellar | Date Reported: | 06-16-09 |
| Lab ID#: | 50502 | Date Sampled: | 06-12-09 |
| Sample Matrix: | Soil | Date Received: | 06-12-09 |
| Preservative: | Cool | Date Analyzed: | 06-16-09 |
| Condition: | Intact | Chain of Custody: | 7192 |

| Parameter | Concentration (mg/Kg) |
|-----------|-----------------------|
|-----------|-----------------------|

Total Chloride

40

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: BGT Samples.

Analyst

Review

CHAIN OF CUSTODY RECORD

7192

| Client: XTO ENERGY | | | Project Name / Location: B.G.T. Samples | | | ANALYSIS / PARAMETERS | | | | | | | | | | | | | | |
|--|-------------|--------------|---|---------------------|--------------------------|--|--------------------|-------------------|---------------|------------------------|----------------------|---------------|-----|-------------|----------|--|--|--|-------------|---------------|
| Client Address: 382 ROAD 3100 AZTEC NM 87410 | | | Sampler Name: KURT 486-9543 | | | TPH (Method 8015) | BTEX (Method 8021) | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion | RCI | TCLP with H/P | PAH | TPH (418.1) | CHLORIDE | | | | Sample Cool | Sample Intact |
| Client Phone No.: 505-333-3207 | | | Client No.: 98031-0121 | | | | | | | | | | | | | | | | | |
| Sample No./ Identification | Sample Date | Sample Time | Lab No. | Sample Matrix | No./Volume of Containers | Preservative HgCl ₂ HCl | | | | | | | | | | | | | | |
| SULLIVAN FRAILE A*IE | | | | Soil | Sludge | | | | | | | | | | | | | | | |
| B.G.T. PIT | 6/12 | 10:00 | 50500 | Solid | Aqueous | (1) 4oz Jar | | | | | | | | | | | | | | |
| OHIO C GOVT #2 | | | | Soil | Sludge | | | | | | | | | | | | | | | |
| B.G.T. PIT | 6/12 | 11:00 | 50501 | Solid | Aqueous | (1) 4oz Jar | | | | | | | | | | | | | | |
| OHIO C GOVT #6 | | | | Soil | Sludge | | | | | | | | | | | | | | | |
| B.G.T. CELLAR | 6/12 | 11:45 | 50502 | Solid | Aqueous | (1) 4oz Jar | | | | | | | | | | | | | | |
| | | | | Soil | Sludge | | | | | | | | | | | | | | | |
| | | | | Solid | Aqueous | | | | | | | | | | | | | | | |
| | | | | Soil | Sludge | | | | | | | | | | | | | | | |
| | | | | Solid | Aqueous | | | | | | | | | | | | | | | |
| | | | | Soil | Sludge | | | | | | | | | | | | | | | |
| | | | | Solid | Aqueous | | | | | | | | | | | | | | | |
| | | | | Soil | Sludge | | | | | | | | | | | | | | | |
| | | | | Solid | Aqueous | | | | | | | | | | | | | | | |
| | | | | Soil | Sludge | | | | | | | | | | | | | | | |
| | | | | Solid | Aqueous | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) <i>Kurt Hoekstra</i> | | | | Date 6/12 | Time 4:40 | Received by: (Signature) <i>Joseph S. Gifford</i> | | | | Date 6/12/07 | Time 16:45 | | | | | | | | | |
| Relinquished by: (Signature) | | | | | | Received by: (Signature) | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | | | | | Received by: (Signature) | | | | | | | | | | | | | | |



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E-MAIL RESULTS TO:
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