

Electronic Correspondence

December 29, 2015

Mr. Mike Bratcher State of New Mexico Oil Conservation Division 811 S. 1st Street Artesia, NM 88210 mike.bratcher@state.nm.us

Corrective Action Plan- 2RP-3363 Re: Memorial Production Operating, Federal R6 Legal: Unit C, Sec 10, T17S, R30E, Eddy County, NM Latitude/Longitude: 32.855446/ -103.952680 Etech Project Number: 416-6681-000 Depth to Groundwater: >300 feet Release Type: Produced Water Contaminants of Concern (COC's) Threshold Levels Chlorides 1,000 mg/kgTPH 5,000 mg/kg Benzene 10 mg/kg50 mg/kg BTEX

Dear Mike:

Etech Environmental & Safety Solutions, Inc. (Etech) is submitting the following corrective action plan on the aforementioned site for your review and approval.

Background

On October 28, 2015 a leak was discovered and reported from the Federal R6 flow line. The steel above ground transfer line formed a hole from corrosion causing the release of approximately 5 barrels (bbl.) of crude oil and 15 bbl. of produced water into the pasture. A vacuum truck was dispatched to recover fluid once the spill was discovered; approximately 1 bbl. of crude oil and 3 bbl. of produced water were recovered. An assessment of the site was conducted on November 3, 2015 by Etech personnel. The release flowed south from the transfer line for approximately 160 feet and was approximately 15 feet wide. The impacted area affected approximately 3,550 square feet of surface area.

An initial sampling was conducted of the impacted area on November 3, 2015. Samples were collected from three (3) locations of the impacted area. Note: All of the samples were collected from low areas to present a "worse case" basis. The samples were analyzed for TPH, BTEX and Chlorides. TPH levels ranged from non-detect to 15,500 mg/kg. Benzene levels and BTEX levels were found to be below regulatory levels. Chloride levels ranged from 72.4 to 18,600 mg/kg. Due to the site not being delineated to below 250 mg/kg chlorides and 1,000 mg/kg TPH on initial assessment, the site was further delineated on December 9, 2015 utilizing an air rotary rig. Samples were collected at AH 2 and

AH 3 at 1 foot intervals until field screening levels for chlorides were below 250 mg/kg. Chloride levels were below 250 mg/kg at 19-20 feet below grade at AH 2 and 19-20 feet below grade at AH 3. A copy of the assessment sheet and analytical results are attached.

Scope of Work

The corrective action for this site will be to excavate the first four feet below grade at AH 2 and dispose of this material at Lea Land, Inc. landfill. We estimate that approximately 60 cubic yards (CY) of material will be excavated from this area. For the area at AH 3, the first foot of material will be excavated and disposed of. Etech estimates that approximately 25 CY of material will be excavated and disposed of. Approximately 85 CY of material will be disposed of for the project. Following excavation and disposal, the site will be treated with DeSalt Plus and cleansorb to lower chloride and TPH levels below regulatory thresholds. The impacted soil will be treated with DeSalt Plus to lower the chloride and sodium levels in the root zone. We believe this to be the most practicable way to approach this site, due to the depth to groundwater in the area being greater than 300 feet and the soil's sandy content. Therefore, the corrective action goals for this project will be 1,000 mg/kg of chlorides and 5,000 mg/kg of TPH. The particulars for remediation will involve the actions summarized as follows:

- 1. Placement of a one-call for utility location.
- 2. The first four feet of soil will be mechanically excavated around AH 2. The excavated area will then be treated with a mixture of DeSalt and fresh water as well as a microbial agent. The excavated area will then be mechanically tilled to incorporate the amendments.
- 3. The area around AH 3 will be excavated to a depth of 1 foot. The excavated area will then be treated with a mixture of DeSalt and fresh water as well as a microbial agent. The excavated area will then be mechanically tilled to incorporate the amendments.
- 4. The area around AH 1 will be mechanically tilled. The impacted area will then be treated with a mixture of DeSalt and fresh water as well as a microbial agent. The area will then be mechanically tilled to incorporate the amendments.
- 5. All excavated material will be staged on plastic until it is disposed of.
- 6. Once screening determines the remediation objectives have been reached, confirmation samples will be collected to confirm that remediation goals have been reached.
- If the results of analysis indicate that the hydrocarbon or chloride levels are above regulatory threshold levels, additional treatment will be performed until the remediation objectives are met.
- **8.** The site will be seeded with BLM #2. Seeding will take place when the seasonal conditions are conducive to maximizing the potential for seed germination. Actual seeding will be accomplished by broadcast or drilling; whichever is the most practical for the site.

Notifications and Special Conditions

- 1. The OCD and BLM will be notified prior to the commencement of on-site operations.
- 2. The OCD and BLM will be notified prior to each sampling event to allow the opportunity to witness the sampling events. Splits will be made available if requested.
- 3. Prior to seeding, the OCD and BLM will be notified when the site is closed for final inspection.
- 4. A final report documenting the closure of the site will be submitted along with a final C-141.

Thank you for your assistance on this matter. Should you have any questions, require additional information, or have any additional stipulations for this site, please me at (432) 563-2200 (office) or via email at <u>tim@etechenv.com</u>.

Respectfully:

Tim McMinn

cc: Heather Patterson, NMOCD Division 2 Office Dara Glass, BLM Carlsbad District Office Attachment A Initial C-141

| | | N | ARTESIA D | SERVATION | | | |
|--|---|---|--|--|--|--|--|
| District II Energy Mine District III Oil Co District III 01 Co 1000 Rio Brazos Road, Aztec, NM 87410 1220 S | e of New Mexico rals and Natural Re nservation Divisio outh St. Francis I ta Fe, NM 87505 | on | OCT 28 2015 Form C-14 Revised August 8, 20 Submit Copy of appropriate District Office accordance with 19.15.29 NMA | | | | |
| Release Notifica | | ective A | ction | | | | |
| NAB1530236164 303900 | | | / | ial Report 📋 Final Repor | | | |
| Name of Company Memorial Production Operating LLC | Contact Heathe | | | | | | |
| Address 500 Dallas Street Houston TX 77002 Facility Name Federal R #006 (Closest Well) | Facility Type | | 334 | | | | |
| Surface Owner Mineral Ow | | NOTIFIC | APIN | 0. 30-015-22018 | | | |
| | ION OF RELEA | SF | 1.00.011 | 0. 00 010 22010 | | | |
| | and the second data was not a second data was | t from the | East/West Line | County | | | |
| C 10 17S 30E | | | | Eddy | | | |
| Latitude_32.854511: | 3 Longitude | 103.96201 | 32 (NAD83) | | | | |
| NATU | RE OF RELEAS | SE Shhir oi | 1/ 15bbie pw | 1bbl oil/ 3bbls pw | | | |
| Type of Release Oil/ Produced Water | | | | Recovered Obbl | | | |
| Source of Release Flowline Was Immediate Notice Given? | Date and Hour If YES, To Who | of Occurrent | Date and | Hour of Discovery 3:00 pm | | | |
| Yes No Not Requ | Sand I | | Bratcher, OCD & | Shelly Tucker/ Art Arias, BLN | | | |
| By Whom? Heather Dolphin | Date and Hour | | | onen ruenen ruenaat ozh | | | |
| Was a Watercourse Reached? | If YES, Volume | e Impacting | the Watercourse. | | | | |
| | | | | | | | |
| n/a Describe Cause of Problem and Remedial Action Taken.* | | | | | | | |
| Describe Cause of Problem and Remedial Action Taken.* njection line developed a hole. | ×** = | | | | | | |
| n/a Describe Cause of Problem and Remedial Action Taken.* njection line developed a hole. Describe Area Affected and Cleanup Action Taken.* 10ft by 3ft one 12ft BY 17 pool 1/4" deep in the pasture. Will cle I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report to should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report | en-up per OCD/ BLN to the best of my know ase notifications and pe by the NMOCD marked ediate contamination th | vledge and u rform correc l as "Final R at pose a thro | nderstand that pur tive actions for rel eport" does not rel eat to ground wate | eases which may endanger ieve the operator of liability r, surface water, human health | | | |
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- 27902-2

Attachment B Annotated Aerial Imagery



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Date Assessed:

ed: November 3, 2015

| | | Assess | ment Result | ts | |
|----------------|----------------|----------------------|----------------|--------------------|-----------------|
| Sample I.D. | Depth (ft.) | Chlorides (mg/kg) | TPH (mg/kg) | Benzene (mg/kg) | BTEX (mg/kg) |
| AH 1 | 0-1 | 1860 | 1520 | 0.00189 | 0.13639 |
| AH 1 | 1-2 | 72.4 | ND | ND | 0.0153 |
| AH 1 | 2-3 | 75.9 | 41.9 | ND | ND |
| AH 1 | 3-4 | 72.5 | 58.8 | ND | ND |
| AH 1 | 4-5 | 271 | 264 | ND | ND |
| AH 1 | 5-6 | 240 | 42 | ND | ND |
| AH 1 | 6-7 | 287 | 257 | ND | ND |
| AH 2 | 0-1 | 7120 | 15500 | 0.0786 | 46.0086 |
| AH 2 | 1-2 | 7930 | 12400 | 0.165 | 30.195 |
| AH 2 | 2-3 | 18600 | 6980 | 0.0759 | 15.9549 |
| AH 2 | 3-4 | 16500 | 9840 | 0.0861 | 19.8461 |
| AH 3 | 0-1 | 2770 | 8250 | 0.00602 | 0.57102 |
| AH 3 | 1-2 | 2880 | 566 | ND | 0.00907 |
| AH 3 | 2-3 | 2410 | 184 | ND | ND |

| AND STATISTICS AND | |
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| | Sam I.D |
| the state of the | AH |
| and the stand of t | AH |
| Federal R6 AH 3 | AH |
| AH 8 | AH |
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Lease Name: Federal R6

Date Assessed:

December 9, 2015

Case No.: 416-6681-000

| Environmental a barety solutions, me. | Dute Assessed. | Determiner 5, 2015 | | | | |
|--|--|--|----------------|----------------|----------------------|----------------|
| A span | State State | Carlos and the second | | Assessm | ient Result | S |
| | 11 and a start | the same manager | Sample I.D. | Depth (ft.) | Chlorides (mg/kg) | TPH (mg/kg) |
| | | - A ANTACY A DE TRANSFORMENT | AH 2 | 4-5 | 4010 | 241 |
| and the second second | and had been the | TO THE REAL OF THE PARTY OF THE | AH 2 | 5-6 | 1360 | ND |
| | Northal March 1 | | AH 2 | 6-7 | 2790 | ND |
| | the second | The second se | AH 2 | 7-8 | 1960 | ND |
| | and the set | the second stands of the | AH 2 | 8-9 | 2430 | ND |
| | and the second | and the second s | AH 2 | 9-10 | 3220 | NA |
| and the second to be | Federal | Ro | AH 2 | 10-11 | 2790 | NA |
| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | AN O | and the second second | AH 2 | 11-12 | 900 | NA |
| Contract in the second se | | al line | AH 2 | 12-13 | 1160 | NA |
| A State of the second | | | AH 2 | 13-14 | 1470 | NA |
| | AH2 | Town of the State | AH 2 | 14-15 | 980 | ND |
| AND | | the second of the second of the | AH 2 | 15-16 | 520 | ND |
| And the second s | | | AH 2 | 16-17 | 590 | ND |
| | 1 200 245 | | AH 2 | 17-18 | 330 | ND |
| | See All one | and the second sec | AH 2 | 18-19 | 167 | ND |
| A State of the second s | State of | | AH 2 | 19-20 | 108 | ND |
| | All and an | | AH 3 | 4-6 | 1580 | NA |
| 1 | | and the second of the second | AH 3 | 5-6 | 2790 | NA |
| State 1 to 1 to 1 | · · Care Barris | State and the state of the state of the | AH 3 | 6-7 | 2790 | NA |
| | and the second s | and the second second second | AH 3 | 7-8 | 980 | NA |
| A CARLES AND A CARLES | the same fit | | AH 3 | 8-9 | 980 | NA |
| | 14 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | | AH 3 | 9-10 | 590 | NA |
| The second se | P. L. Maria | | AH 3 | 10-11 | 590 | NA |
| | and the second | | AH 3 | 11-12 | 670 | NA |
| | a farmer | | AH 3 | 12-13 | 900 | NA |
| | Mar In | a series and the series of | AH 3 | 13-14 | 740 | NA |
| | and the second | and the second | AH 3 | 14-15 | 1070 | NA |
| A Marine Brand and a second for | CZ 1227 1 1 | ALL THE REAL PROPERTY AND | AH 3 | 15-16 | 980 | NA |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | and a second second | AH 3 | 16-17 | 740 | NA NA |
| and a state of the | | all the second share a sould | AH 3 | 17-18 | 520 | |
| and a second second second | 1 Cinet | 3 Port and Carl and Carl and Carl | AH 3 | 18-19 | 276 | NA |
| | States of the Road of States | | AH 3 | 19-20 | 230 | NA |

Attachment C Photograph Log









Attachment D Analytical Results

PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Tim McMinn E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa, TX 79765

> Project: Federal R6 Project Number: 416-6681-000 Location: Memorial

Lab Order Number: 5K06008



NELAP/TCEQ # T104704156-13-3

Report Date: 11/19/15

E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 Project: Federal R6 Project Number: 416-6681-000 Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------------|---------------|--------|----------------|------------------|
| Auger hole 1 0-1' | 5K06008-01 | Soil | 11/04/15 09:45 | 11-05-2015 16:45 |
| Auger hole 1 1-2' | 5K06008-02 | Soil | 11/04/15 10:00 | 11-05-2015 16:45 |
| Auger hole 1 2-3' | 5K06008-03 | Soil | 11/04/15 10:15 | 11-05-2015 16:45 |
| Auger hole 1 3-4' | 5K06008-04 | Soil | 11/04/15 10:30 | 11-05-2015 16:45 |
| Auger hole 1 4-5' | 5K06008-05 | Soil | 11/04/15 10:50 | 11-05-2015 16:45 |
| Auger hole 1 5-6' | 5K06008-06 | Soil | 11/04/15 10:55 | 11-05-2015 16:45 |
| Auger hole 1 6-7' | 5K06008-07 | Soil | 11/04/15 11:10 | 11-05-2015 16:45 |
| Auger hole 2 0-1' | 5K06008-08 | Soil | 11/04/15 11:15 | 11-05-2015 16:45 |
| Auger hole 2 1-2' | 5K06008-09 | Soil | 11/04/15 11:25 | 11-05-2015 16:45 |
| Auger hole 2 2-3' | 5K06008-10 | Soil | 11/04/15 11:30 | 11-05-2015 16:45 |
| Auger hole 2 3-4' | 5K06008-11 | Soil | 11/04/15 11:40 | 11-05-2015 16:45 |
| Auger hole 3 0-1' | 5K06008-12 | Soil | 11/04/15 11:50 | 11-05-2015 16:45 |
| Auger hole 3 1-2' | 5K06008-13 | Soil | 11/04/15 11:55 | 11-05-2015 16:45 |
| Auger hole 3 2-3' | 5K06008-14 | Soil | 11/04/15 12:00 | 11-05-2015 16:45 |

Auger hole 1 0-1' 5K06008-01 (Soil)

| | | 01100 | 000-01 (501 | 9 | | | | | |
|---------------------------------------|---------------------|--------------------|-------------|------------|---------|----------|----------|---------------|-------|
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Peri | nian Basin E | Environmen | tal Lab, I | L.P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | 0.00189 | 0.00114 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Toluene | 0.0295 | 0.00227 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Ethylbenzene | 0.0251 | 0.00114 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (p/m) | 0.0404 | 0.00227 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (0) | 0.0395 | 0.00114 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 104 % | 75-12 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 84.6 % | 75-12 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| General Chemistry Parameters by EI | PA / Standard Metho | ds | | | | | | | |
| Chloride | 1860 | 5.68 | mg/kg dry | 5 | P5K1018 | 11/09/15 | 11/10/15 | EPA 300.0 | |
| % Moisture | 12.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| Total Petroleum Hydrocarbons C6-C | 35 by EPA Method 8 | 015M | | | | | | | |
| C6-C12 | 191 | 142 | mg/kg dry | 5 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 1170 | 142 | mg/kg dry | 5 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | 156 | 142 | mg/kg dry | 5 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 87.2 % | 70-13 | 80 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 104 % | 70-13 | 80 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 1520 | 142 | mg/kg dry | 5 | [CALC] | 11/06/15 | 11/07/15 | calc | |

Permian Basin Environmental Lab, L.P.

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | | Proj Project Num Project Mana | | 1-000 | | | | Fax: (432) 56 | 3-2213 |
|---|---------------|-------------------------------------|----------------------------|------------|--------------|----------|----------|---------------|--------|
| | | 0 | r hole 1 1- 008-02 (Soi | | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Perr | nian Basin F | Environmen | tal Lab, l | L .P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | ND | 0.00115 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Toluene | ND | 0.00230 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Ethylbenzene | ND | 0.00115 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (p/m) | 0.0153 | 0.00230 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (o) | ND | 0.00115 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 96.9 % | 75-1. | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 97.5 % | 75-1. | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| General Chemistry Parameters by EPA / S | tandard Metho | ds | | | | | | | |
| Chloride | 72.4 | 1.15 | mg/kg dry | 1 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 13.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| Total Petroleum Hydrocarbons C6-C35 by | EPA Method 8 | 015M | | | | | | | |
| C6-C12 | ND | 28.7 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | ND | 28.7 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | ND | 28.7 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 110 % | 70-1. | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 139 % | 70-1. | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | S-GC |
| Total Petroleum Hydrocarbon C6-C35 | ND | 28.7 | mg/kg dry | 1 | [CALC] | 11/06/15 | 11/07/15 | calc | |

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | | Proj Project Num Project Mana | | 31-000 | | | | Fax: (432) 50 | 63-2213 |
|---|------------|-------------------------------------|-------------|-------------|------------|----------|----------|---------------|---------|
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | r hole 1 2- | | | | | | |
| | | 5K06 | 008-03 (Soi | I) | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Per | mian Basin E | Invironmen | ital Lab, l | P . | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | ND | 0.00114 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Toluene | ND | 0.00227 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Ethylbenzene | ND | 0.00114 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00227 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (o) | ND | 0.00114 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 110 % | 75-1 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 75-1. | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| General Chemistry Parameters by EPA / Stan | dard Metho | ds | | | | | | | |
| Chloride | 75.9 | 1.14 | mg/kg dry | 1 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 12.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| <u>Total Petroleum Hydrocarbons C6-C35 by EP</u> | A Method 8 | 8015M | | | | | | | |
| C6-C12 | ND | 28.4 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 41.9 | 28.4 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | ND | 28.4 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 91.0 % | 70-1. | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 113 % | 70-1. | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 41.9 | 28.4 | mg/kg dry | 1 | [CALC] | 11/06/15 | 11/07/15 | calc | |

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | | | | | | | |
|---|--------|--------------|-----------|-------------|---------|----------|----------|
| | | | | | | | |
| Analyte | Result | Batch | Prepared | Analyzed | | | |
| | Perr | nian Basin E | Invironme | ntal Lab, I | L.P. | | |
| Organics by GC | | | | | | | |
| Benzene | ND | 0.00108 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 |
| Гoluene | ND | 0.00215 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 |

ND

ND

ND

| General Chemistry Parameters by EPA | A / Standard Methods | | | | | | | |
|---------------------------------------|----------------------|--------|-----------|---|---------|----------|----------|---------------|
| Chloride | 72.5 | 1.08 | mg/kg dry | 1 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 |
| % Moisture | 7.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation |
| Total Petroleum Hydrocarbons C6-C3 | 5 by EPA Method 801 | 5M | | | | | | |
| C6-C12 | ND | 26.9 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M |
| >C12-C28 | 58.8 | 26.9 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M |
| >C28-C35 | ND | 26.9 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M |
| Surrogate: 1-Chlorooctane | | 87.5 % | 70-130 | | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M |
| Surrogate: o-Terphenyl | | 107 % | 70-130 | | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M |
| Total Petroleum Hydrocarbon C6-C35 | 58.8 | 26.9 | mg/kg dry | 1 | [CALC] | 11/06/15 | 11/07/15 | calc |

0.00108 mg/kg dry

0.00108 mg/kg dry

mg/kg dry

75-125

75-125

0.00215

107~%

108 %

1

1

1

P5K0606

P5K0606

P5K0606

P5K0606

P5K0606

11/06/15

11/06/15

11/06/15

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11/06/15

11/06/15

11/06/15

11/06/15

11/06/15

Ethylbenzene

Xylene (p/m)

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,4-Difluorobenzene

Xylene (o)

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Fax: (432) 563-2213

Notes

Method

EPA 8021B EPA 8021B

EPA 8021B

EPA 8021B

EPA 8021B

EPA 8021B

EPA 8021B

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | | ÷ | ect: Federal ber: 416-668 ger: Tim Mc | 1-000 | | | | Fax: (432) 56 | 53-2213 |
|---|-------------|--------------------|---|------------|---------|----------|----------|---------------|---------|
| | | | r hole 1 4- 008-05 (Soi | | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Per | mian Basin E | Invironmen | tal Lab, l | L.P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | ND | 0.00109 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Toluene | ND | 0.00217 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Ethylbenzene | ND | 0.00109 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00217 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (o) | ND | 0.00109 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 83.7 % | 75-12 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 75-12 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| General Chemistry Parameters by EPA / Stan | dard Metho | ods | | | | | | | |
| Chloride | 271 | 1.09 | mg/kg dry | 1 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 8.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| Total Petroleum Hydrocarbons C6-C35 by EF | PA Method 8 | 8015M | | | | | | | |
| C6-C12 | 27.2 | 27.2 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 231 | 27.2 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | 33.1 | 27.2 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 111 % | 70-13 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 136 % | 70-13 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | S-GC |
| Total Petroleum Hydrocarbon | 264 | 27.2 | mg/kg dry | 1 | [CALC] | 11/06/15 | 11/07/15 | calc | |

C6-C35

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | | 5 | ect: Federal ber: 416-668 ger: Tim Mc | 1-000 | | | | Fax: (432) 56 | 53-2213 |
|---|------------|--------------------|---|------------|---------|----------|----------|---------------|---------|
| | | | r hole 1 5- 008-06 (Soi | | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Per | mian Basin E | Invironmen | tal Lab, l | L.P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | ND | 0.00109 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Toluene | ND | 0.00217 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Ethylbenzene | ND | 0.00109 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00217 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (o) | ND | 0.00109 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 94.2 % | 75-12 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 104 % | 75-12 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| General Chemistry Parameters by EPA / Stan | dard Metho | ds | | | | | | | |
| Chloride | 240 | 1.09 | mg/kg dry | 1 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 8.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| Total Petroleum Hydrocarbons C6-C35 by EP | A Method 8 | 8015M | | | | | | | |
| C6-C12 | ND | 27.2 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 42.0 | 27.2 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | ND | 27.2 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 102 % | 70-13 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 126 % | 70-13 | 80 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Fotal Petroleum Hydrocarbon | 42.0 | 27.2 | mg/kg dry | 1 | [CALC] | 11/06/15 | 11/07/15 | calc | |

C6-C35

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | Project: Federal R6 Project Number: 416-6681-000 Project Manager: Tim McMinn | | | | | | | Fax: (432) 56 | 53-2213 |
|---|--|--------------------|---------------------------|-------------|-----------|----------|----------|---------------|---------|
| | | U | r hole 1 6 008-07 (Soi | | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Per | mian Basin F | Environmer | ıtal Lab, I | P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | ND | 0.00119 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Toluene | ND | 0.00238 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Ethylbenzene | ND | 0.00119 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00238 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (o) | ND | 0.00119 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 78.9 % | 75-1 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 134 % | 75-1 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | S-GC |
| General Chemistry Parameters by EPA / Stan | dard Metho | ods | | | | | | | |
| Chloride | 287 | 1.19 | mg/kg dry | 1 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 16.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| Total Petroleum Hydrocarbons C6-C35 by EP | A Method 8 | 8015M | | | | | | | |
| C6-C12 | ND | 29.8 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 223 | 29.8 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | 34.2 | 29.8 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 111 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 137 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | S-GC |
| Total Petroleum Hydrocarbon C6-C35 | 257 | 29.8 | mg/kg dry | 1 | [CALC] | 11/06/15 | 11/07/15 | calc | |

| E Tech Environmental & Safety Solutions, Inc. |
|---|
| 13000 West County Road 100 |
| Odessa TX, 79765 |

Auger hole 2 0-1'

5K06008-08 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------------|--------------------|------------|-------------|--------------|----------|----------|---------------|-------|
| | Pern | nian Basin F | Invironmen | ital Lab, l | L .P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | 0.0786 | 0.0549 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Toluene | 6.18 | 0.110 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Ethylbenzene | 9.35 | 0.0549 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Xylene (p/m) | 20.1 | 0.110 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Xylene (0) | 10.3 | 0.0549 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 100 % | 75-125 | | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 89.2 % | 75-125 | | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| General Chemistry Parameters by E | PA / Standard Method | ls | | | | | | | |
| Chloride | 7120 | 27.5 | mg/kg dry | 25 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 9.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| <u>Total Petroleum Hydrocarbons C6-C</u> | C35 by EPA Method 80 | 015M | | | | | | | |
| C6-C12 | 3250 | 275 | mg/kg dry | 10 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 10600 | 275 | mg/kg dry | 10 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | 1580 | 275 | mg/kg dry | 10 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 117 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 108 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 15500 | 275 | mg/kg dry | 10 | [CALC] | 11/06/15 | 11/07/15 | calc | |

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | Project: Federal R6 Project Number: 416-6681-000 Project Manager: Tim McMinn | | | | | | | Fax: (432) 56 | 53-2213 |
|---|--|--------------------|--------------------------|-------------|--------------|----------|----------|---------------|---------|
| | | U | r hole 2 1 008-09 (So | | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Per | rmian Basin F | Environmei | ıtal Lab, l | L .P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | 0.165 | 0.0549 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Toluene | 3.44 | 0.110 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Ethylbenzene | 7.36 | 0.0549 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Xylene (p/m) | 13.0 | 0.110 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Xylene (0) | 6.23 | 0.0549 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 121 % | 75-1 | 25 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 76.2 % | 75-1 | 25 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| General Chemistry Parameters by EPA / Stan | dard Meth | ods | | | | | | | |
| Chloride | 7930 | 27.5 | mg/kg dry | 25 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 9.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| <u>Total Petroleum Hydrocarbons C6-C35 by EP</u> | A Method | 8015M | | | | | | | |
| C6-C12 | 2710 | 275 | mg/kg dry | 10 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 8420 | 275 | mg/kg dry | 10 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | 1270 | 275 | mg/kg dry | 10 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 128 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 129 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Total Petroleum Hydrocarbon | 12400 | 275 | mg/kg dry | 10 | [CALC] | 11/06/15 | 11/07/15 | calc | |
| C6-C35 | | | | | | | | | |

| E Tech Environmental & Safety Solutions, Inc. |
|---|
| 13000 West County Road 100 |
| Odessa TX, 79765 |

Auger hole 2 2-3'

5K06008-10 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|---------------------|--------------------|-----------|-------------|---------|----------|----------|---------------|-------|
| | Pern | 1ian Basin E | nvironmer | ital Lab, l | L.P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | 0.0759 | 0.0617 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Toluene | 0.769 | 0.123 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Ethylbenzene | 4.66 | 0.0617 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Xylene (p/m) | 7.40 | 0.123 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Xylene (o) | 3.05 | 0.0617 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 75.9 % | 75-125 | | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 126 % | 75-125 | | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | S-GC |
| General Chemistry Parameters by El | | | | | | | | ED 1 200 0 | |
| Chloride | 18600 | 61.7 | mg/kg dry | 50 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 19.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| <u>Total Petroleum Hydrocarbons C6-C</u> | 35 by EPA Method 80 | 015M | | | | | | | |
| C6-C12 | 1160 | 154 | mg/kg dry | 5 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 5070 | 154 | mg/kg dry | 5 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | 751 | 154 | mg/kg dry | 5 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 140 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | S-GC |
| Surrogate: o-Terphenyl | | 127 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 6980 | 154 | mg/kg dry | 5 | [CALC] | 11/06/15 | 11/07/15 | calc | |

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | Project: Federal R6 Project Number: 416-6681-000 Project Manager: Tim McMinn | | | | | | | Fax: (432) 56 | 53-2213 |
|---|--|--------------------|--------------------------|-------------|--------------|----------|----------|---------------|---------|
| | | _ | r hole 2–3 008-11 (So | | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Per | mian Basin F | Environmer | ıtal Lab, l | L .P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | 0.0861 | 0.0602 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Toluene | 1.85 | 0.120 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Ethylbenzene | 6.06 | 0.0602 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Xylene (p/m) | 8.30 | 0.120 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Xylene (o) | 3.55 | 0.0602 | mg/kg dry | 50 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 83.1 % | 75-1 | 25 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 113 % | 75-1 | 25 | P5K1702 | 11/16/15 | 11/16/15 | EPA 8021B | |
| General Chemistry Parameters by EPA / Sta | ndard Metho | ods | | | | | | | |
| Chloride | 16500 | 60.2 | mg/kg dry | 50 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 17.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| <u>Total Petroleum Hydrocarbons C6-C35 by E</u> | PA Method 8 | 8015M | | | | | | | |
| C6-C12 | 1520 | 151 | mg/kg dry | 5 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 7250 | 151 | mg/kg dry | 5 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | 1080 | 151 | mg/kg dry | 5 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 133 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | S-G0 |
| Surrogate: o-Terphenyl | | 126 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Total Petroleum Hydrocarbon | 9840 | 151 | mg/kg dry | 5 | [CALC] | 11/06/15 | 11/07/15 | calc | |
| C6-C35 | | | | | | | | | |

| E Tech Environmental & Safety Solutions, Inc. |
|---|
| 13000 West County Road 100 |
| Odessa TX, 79765 |

Auger hole 3 0-1'

5K06008-12 (Soil)

| | D | Reporting | T T 1 | Dilai | D (1 | D | | | N . (|
|--|----------------------|--------------|---------------------|-------------|-----------|----------|----------|---------------|--------------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Perm | nian Basin E | nvironmer | ntal Lab, I | P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | 0.00602 | 0.00104 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Toluene | 0.129 | 0.00208 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Ethylbenzene | 0.126 | 0.00104 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (p/m) | 0.208 | 0.00208 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (0) | 0.102 | 0.00104 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 117 % | 75-125 | | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 113 % | 75-125 | | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| General Chemistry Parameters by El | PA / Standard Method | ls | | | | | | | |
| Chloride | 2770 | 10.4 | mg/kg dry | 10 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 4.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| <u>Total Petroleum Hydrocarbons C6-C</u> | 35 by EPA Method 80 |)15M | | | | | | | |
| C6-C12 | 666 | 260 | mg/kg dry | 10 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 6540 | 260 | mg/kg dry | 10 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | 1050 | 260 | mg/kg dry | 10 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 119 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 135 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | S-GC |
| Total Petroleum Hydrocarbon C6-C35 | 8250 | 260 | mg/kg dry | 10 | [CALC] | 11/06/15 | 11/07/15 | calc | |

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | | Project: Federal R6 Project Number: 416-6681-000 Project Manager: Tim McMinn | | | | | | Fax: (432) 56 | 53-2213 |
|---|----------|--|------------|-------------|------------|----------|----------|---------------|---------|
| Ouessa 1A, 79703 | | | r hole 3 1 | | | | | | |
| | | 5K06 | 008-13 (So | il) | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Per | ·mian Basin E | nvironmer | ntal Lab, l | P . | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | ND | 0.00105 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Foluene 0 | .00216 | 0.00211 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Ethylbenzene 0 | .00144 | 0.00105 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Kylene (p/m)0 | .00252 | 0.00211 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Kylene (o)0 | .00295 | 0.00105 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 106 % | 75-1 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 105 % | 75-1 | 25 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| General Chemistry Parameters by EPA / Standa | ard Meth | ods | | | | | | | |
| Chloride | 2880 | 10.5 | mg/kg dry | 10 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 5.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| <u>Fotal Petroleum Hydrocarbons C6-C35 by EPA</u> | Method | 8015M | | | | | | | |
| C6-C12 | 33.2 | 26.3 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 434 | 26.3 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | 99.4 | 26.3 | mg/kg dry | 1 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 111 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 137 % | 70-1 | 30 | P5K0902 | 11/06/15 | 11/07/15 | TPH 8015M | S-G |
| Fotal Petroleum Hydrocarbon C6-C35 | 566 | 26.3 | mg/kg dry | 1 | [CALC] | 11/06/15 | 11/07/15 | calc | |

| E Tech Environmental & Safety Solutions, Inc. |
|---|
| 13000 West County Road 100 |
| Odessa TX, 79765 |

Auger hole 3 2-3'

5K06008-14 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|----------------------|--------------------|-----------|-------------|---------|----------|----------|---------------|-------|
| | Pern | 1ian Basin E | nvironmen | ital Lab, l | L.P. | | | | |
| Organics by GC | | | | | | | | | |
| Benzene | ND | 0.00108 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Toluene | ND | 0.00215 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Ethylbenzene | ND | 0.00108 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00215 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Xylene (o) | ND | 0.00108 | mg/kg dry | 1 | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 96.5 % | 75-125 | | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 135 % | 75-125 | | P5K0606 | 11/06/15 | 11/06/15 | EPA 8021B | S-GC |
| General Chemistry Parameters by EF | PA / Standard Method | ls | | | | | | | |
| Chloride | 2410 | 10.8 | mg/kg dry | 10 | P5K1020 | 11/10/15 | 11/11/15 | EPA 300.0 | |
| % Moisture | 7.0 | 0.1 | % | 1 | P5K0901 | 11/09/15 | 11/09/15 | % calculation | |
| Total Petroleum Hydrocarbons C6-C | 35 by EPA Method 80 | 015M | | | | | | | |
| C6-C12 | ND | 26.9 | mg/kg dry | 1 | P5K0903 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C12-C28 | 184 | 26.9 | mg/kg dry | 1 | P5K0903 | 11/06/15 | 11/07/15 | TPH 8015M | |
| >C28-C35 | ND | 26.9 | mg/kg dry | 1 | P5K0903 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 113 % | 70-1 | 30 | P5K0903 | 11/06/15 | 11/07/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 139 % | 70-1 | 30 | P5K0903 | 11/06/15 | 11/07/15 | TPH 8015M | S-GC |
| Total Petroleum Hydrocarbon C6-C35 | 184 | 26.9 | mg/kg dry | 1 | [CALC] | 11/06/15 | 11/07/15 | calc | |

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------|--------------------|-----------|----------------|------------------|----------|----------------|-------|--------------|-------|
| Batch P5K0606 - General Preparation | (GC) | | | | | | | | | |
| Blank (P5K0606-BLK1) | | | | Prepared & | Analyzed: | 11/06/15 | | | | |
| Benzene | ND | 0.00100 | mg/kg wet | | | | | | | |
| Toluene | ND | 0.00200 | " | | | | | | | |
| Ethylbenzene | ND | 0.00100 | " | | | | | | | |
| Xylene (p/m) | ND | 0.00200 | " | | | | | | | |
| Xylene (o) | ND | 0.00100 | " | | | | | | | |
| Surrogate: 1,4-Difluorobenzene | 0.0481 | | " | 0.0500 | | 96.2 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0626 | | " | 0.0500 | | 125 | 75-125 | | | |
| LCS (P5K0606-BS1) | | | | Prepared & | Analyzed: | 11/06/15 | | | | |
| Benzene | 0.0752 | 0.00100 | mg/kg wet | 0.100 | | 75.2 | 70-130 | | | |
| Toluene | 0.0887 | 0.00200 | " | 0.100 | | 88.7 | 70-130 | | | |
| Ethylbenzene | 0.101 | 0.00100 | " | 0.100 | | 101 | 70-130 | | | |
| Xylene (p/m) | 0.173 | 0.00200 | " | 0.200 | | 86.6 | 70-130 | | | |
| Xylene (o) | 0.0928 | 0.00100 | " | 0.100 | | 92.8 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0684 | | " | 0.0500 | | 137 | 75-125 | | | S-G |
| Surrogate: 1,4-Difluorobenzene | 0.0580 | | " | 0.0500 | | 116 | 75-125 | | | |
| LCS Dup (P5K0606-BSD1) | | | | Prepared & | Analyzed: | 11/06/15 | | | | |
| Benzene | 0.0750 | 0.00100 | mg/kg wet | 0.100 | | 75.0 | 70-130 | 0.240 | 20 | |
| Toluene | 0.0869 | 0.00200 | " | 0.100 | | 86.9 | 70-130 | 2.06 | 20 | |
| Ethylbenzene | 0.0965 | 0.00100 | " | 0.100 | | 96.5 | 70-130 | 4.73 | 20 | |
| Xylene (p/m) | 0.165 | 0.00200 | " | 0.200 | | 82.4 | 70-130 | 4.90 | 20 | |
| Xylene (o) | 0.0873 | 0.00100 | " | 0.100 | | 87.3 | 70-130 | 6.15 | 20 | |
| Surrogate: 1,4-Difluorobenzene | 0.0595 | | " | 0.0500 | | 119 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0650 | | " | 0.0500 | | 130 | 75-125 | | | S-G |
| Batch P5K1702 - General Preparation | (GC) | | | | | | | | | |
| Blank (P5K1702-BLK1) | | | | Prepared & | Analyzed: | 11/16/15 | | | | |
| Benzene | ND | 0.00100 | mg/kg wet | - | - | | | | | |
| Toluene | ND | 0.00200 | " | | | | | | | |
| Ethylbenzene | ND | 0.00100 | " | | | | | | | |
| Xylene (p/m) | ND | 0.00200 | " | | | | | | | |
| Xylene (o) | ND | 0.00100 | " | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0488 | | " | 0.0500 | | 97.6 | 75-125 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.0606 | | " | 0.0500 | | 121 | 75-125 | | | |

Permian Basin Environmental Lab, L.P.

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

| Analyte Batch P5K1702 - General Prepara | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|--------------------|-----------|----------------|------------------|----------|----------------|-----|--------------|-------|
| LCS (P5K1702-BS1) | | | | Prepared & | Analyzed: | 11/16/15 | | | | |
| Benzene | 0.0978 | 0.00100 | mg/kg wet | | | | 70-130 | | | |
| Toluene | 0.109 | 0.00200 | " | | | | 70-130 | | | |
| Ethylbenzene | 0.110 | 0.00100 | " | | | | 70-130 | | | |
| Xylene (p/m) | 0.210 | 0.00200 | " | | | | 70-130 | | | |
| Xylene (o) | 0.107 | 0.00100 | " | | | | 70-130 | | | |

| Surrogate: 4-Bromofluorobenzene | 0.0516 | | " | 0.0500 | 103 | 75-125 | | |
|---------------------------------|--------|---------|-----------|-----------------|----------------|--------|----|------|
| Surrogate: 1,4-Difluorobenzene | 0.0659 | | " | 0.0500 | 132 | 75-125 | | S-GC |
| LCS Dup (P5K1702-BSD1) | | | | Prepared & Anal | yzed: 11/16/15 | | | |
| Benzene | 0.0926 | 0.00100 | mg/kg wet | | | 70-130 | 20 | |
| Toluene | 0.107 | 0.00200 | " | | | 70-130 | 20 | |
| Ethylbenzene | 0.104 | 0.00100 | " | | | 70-130 | 20 | |
| Xylene (p/m) | 0.206 | 0.00200 | " | | | 70-130 | 20 | |
| Xylene (o) | 0.107 | 0.00100 | " | | | 70-130 | 20 | |
| Surrogate: 1,4-Difluorobenzene | 0.0694 | | " | 0.0500 | 139 | 75-125 | | S-GC |
| Surrogate: 4-Bromofluorobenzene | 0.0525 | | " | 0.0500 | 105 | 75-125 | | |
| | | | | | | | | |

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--------------------------------------|--------|--------------|-----------|------------|------------|-------------|--------|-------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P5K0901 - % Solids | | | | | | | | | | |
| Blank (P5K0901-BLK1) | | | | Prepared & | k Analyzed | : 11/09/15 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P5K0901-DUP1) | Sou | rce: 5K06005 | -01 | Prepared & | Analyzed | : 11/09/15 | | | | |
| % Moisture | 5.0 | 0.1 | % | | 5.0 | | | 0.00 | 20 | |
| Duplicate (P5K0901-DUP2) | Sou | rce: 5K06006 | -01 | Prepared & | k Analyzed | : 11/09/15 | | | | |
| % Moisture | 3.0 | 0.1 | % | | 2.0 | | | 40.0 | 20 | |
| Batch P5K1018 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P5K1018-BLK1) | | | | Prepared: | 11/09/15 A | nalyzed: 11 | /10/15 | | | |
| Chloride | ND | 1.00 | mg/kg wet | | | | | | | |
| LCS (P5K1018-BS1) | | | | Prepared: | 11/09/15 A | nalyzed: 11 | /10/15 | | | |
| Chloride | 92.9 | 1.00 | mg/kg wet | 100 | | 92.9 | 80-120 | | | |
| LCS Dup (P5K1018-BSD1) | | | | Prepared: | 11/09/15 A | nalyzed: 11 | /10/15 | | | |
| Chloride | 91.8 | 1.00 | mg/kg wet | 100 | | 91.8 | 80-120 | 1.22 | 20 | |
| Duplicate (P5K1018-DUP1) | Sou | rce: 5K06002 | -01 | Prepared: | 11/09/15 A | nalyzed: 11 | /10/15 | | | |
| Chloride | 1590 | 5.68 | mg/kg dry | | 1590 | | | 0.136 | 20 | |
| Duplicate (P5K1018-DUP2) | Sou | rce: 5K06006 | -01 | Prepared: | 11/09/15 A | nalyzed: 11 | /10/15 | | | |
| Chloride | 1160 | 5.10 | mg/kg dry | | 1160 | | | 0.259 | 20 | |
| Batch P5K1020 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P5K1020-BLK1) | | | | Prepared & | Analyzed | : 11/10/15 | | | | |
| Chloride | ND | 1.00 | mg/kg wet | | | | | | | |

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--------------------------------------|--------|-------------|-----------|-------------|-----------|--------------|--------|-------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P5K1020 - *** DEFAULT PREP *** | | | | | | | | | | |
| LCS (P5K1020-BS1) | | | | Prepared & | x Analyze | d: 11/10/15 | | | | |
| Chloride | 93.1 | 1.00 | mg/kg wet | 100 | | 93.1 | 80-120 | | | |
| LCS Dup (P5K1020-BSD1) | | | | Prepared & | z Analyze | d: 11/10/15 | | | | |
| Chloride | 94.8 | 1.00 | mg/kg wet | 100 | | 94.8 | 80-120 | 1.77 | 20 | |
| Duplicate (P5K1020-DUP1) | Sour | ce: 5K06008 | 8-03 | Prepared: | 1/10/15 | Analyzed: 11 | /11/15 | | | |
| Chloride | 75.4 | 1.14 | mg/kg dry | | 75.9 | | | 0.676 | 20 | |
| Duplicate (P5K1020-DUP2) | Sour | ce: 5K05003 | 8-01 | Prepared: 1 | 1/10/15 | Analyzed: 11 | /11/15 | | | |
| Chloride | 41.2 | 1.18 | mg/kg dry | | 41.0 | | | 0.486 | 20 | |
| Matrix Spike (P5K1020-MS1) | Sour | ce: 5K06008 | 8-03 | Prepared: | 1/10/15 | Analyzed: 11 | /11/15 | | | |
| Chloride | 201 | 1.14 | mg/kg dry | 142 | 75.9 | 88.1 | 80-120 | | | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

| Australia | Dervit | Reporting | 11 | Spike | Source | 0/DEC | %REC | DDD | RPD | Natar |
|---------------------------|--------|--------------|-----------|-------------|-----------|-------------|--------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P5K0902 - TX 1005 | | | | | | | | | | |
| Blank (P5K0902-BLK1) | | | | Prepared: 1 | 1/06/15 A | nalyzed: 11 | /07/15 | | | |
| C6-C12 | ND | 25.0 | mg/kg wet | | | | | | | |
| >C12-C28 | ND | 25.0 | " | | | | | | | |
| >C28-C35 | ND | 25.0 | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 92.0 | | " | 100 | | 92.0 | 70-130 | | | |
| Surrogate: o-Terphenyl | 55.6 | | " | 50.0 | | 111 | 70-130 | | | |
| LCS (P5K0902-BS1) | | | | Prepared: 1 | 1/06/15 A | nalyzed: 11 | /07/15 | | | |
| C6-C12 | 850 | 25.0 | mg/kg wet | 1000 | | 85.0 | 75-125 | | | |
| >C12-C28 | 831 | 25.0 | " | 1000 | | 83.1 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 101 | | " | 100 | | 101 | 70-130 | | | |
| Surrogate: o-Terphenyl | 46.8 | | " | 50.0 | | 93.6 | 70-130 | | | |
| LCS Dup (P5K0902-BSD1) | | | | Prepared: | 1/06/15 A | nalyzed: 11 | /07/15 | | | |
| C6-C12 | 885 | 25.0 | mg/kg wet | 1000 | | 88.5 | 75-125 | 4.09 | 20 | |
| >C12-C28 | 867 | 25.0 | " | 1000 | | 86.7 | 75-125 | 4.17 | 20 | |
| Surrogate: 1-Chlorooctane | 105 | | " | 100 | | 105 | 70-130 | | | |
| Surrogate: o-Terphenyl | 49.1 | | " | 50.0 | | 98.2 | 70-130 | | | |
| Duplicate (P5K0902-DUP1) | Sou | rce: 5K06008 | 8-07 | Prepared: | 1/06/15 A | nalyzed: 11 | /07/15 | | | |
| C6-C12 | 28.4 | 29.8 | mg/kg dry | | 25.4 | | | 11.0 | 20 | |
| >C12-C28 | 207 | 29.8 | " | | 223 | | | 7.59 | 20 | |
| Surrogate: 1-Chlorooctane | 137 | | " | 119 | | 115 | 70-130 | | | |
| Surrogate: o-Terphenyl | 84.2 | | " | 59.5 | | 141 | 70-130 | | | S-G |
| Batch P5K0903 - TX 1005 | | | | | | | | | | |
| Blank (P5K0903-BLK1) | | | | Prepared: | 1/06/15 A | nalyzed: 11 | /07/15 | | | |
| C6-C12 | ND | 25.0 | mg/kg wet | | | | | | | |
| >C12-C28 | ND | 25.0 | " | | | | | | | |
| >C28-C35 | ND | 25.0 | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 104 | | " | 100 | | 104 | 70-130 | | | |
| Surrogate: o-Terphenyl | 62.4 | | " | 50.0 | | 125 | 70-130 | | | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------------------------|--------|--|-----------|-------------|------------|-------------|--------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P5K0903 - TX 1005 | | | | | | | | | | |
| LCS (P5K0903-BS1) | | | | Prepared: 1 | 11/06/15 A | nalyzed: 11 | /07/15 | | | |
| C6-C12 | 1020 | 25.0 | mg/kg wet | 1000 | | 102 | 75-125 | | | |
| >C12-C28 | 1030 | 25.0 | " | 1000 | | 103 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 120 | | " | 100 | | 120 | 70-130 | | | |
| Surrogate: o-Terphenyl | 56.6 | | " | 50.0 | | 113 | 70-130 | | | |
| LCS Dup (P5K0903-BSD1) | | | | Prepared: | 11/06/15 A | nalyzed: 11 | /07/15 | | | |
| C6-C12 | 1040 | 25.0 | mg/kg wet | 1000 | | 104 | 75-125 | 1.75 | 20 | |
| >C12-C28 | 1050 | 25.0 | " | 1000 | | 105 | 75-125 | 1.68 | 20 | |
| Surrogate: 1-Chlorooctane | 124 | | " | 100 | | 124 | 70-130 | | | |
| Surrogate: o-Terphenyl | 58.2 | | " | 50.0 | | 116 | 70-130 | | | |
| Duplicate (P5K0903-DUP1) | Sou | Source: 5K06008-14 Prepared: 11/06/15 Analyzed: 11/07/15 | | | | | | | | |
| C6-C12 | 21.4 | 26.9 | mg/kg dry | | 19.8 | | | 7.71 | 20 | |
| >C12-C28 | 180 | 26.9 | " | | 184 | | | 2.01 | 20 | |
| Surrogate: 1-Chlorooctane | 124 | | " | 108 | | 115 | 70-130 | | | |
| Surrogate: o-Terphenyl | 76.8 | | " | 53.8 | | 143 | 70-130 | | | S- |
| | | | | | | | | | | |

Notes and Definitions

| S-GC | Surrogate recovery outside of control limit | s. The data was accepted based on v | alid recovery of the remaining surrogate. |
|------|---|-------------------------------------|---|
| | | | |

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike

Report Approved By:

Dup Duplicate

Sun Barron

Date: 11/19/2015

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

| Reimquished by | Relinque | Special I | 10 | 00 | 80 | 4 0 | 00 | 20 | 00 | رم | 60 | þ | LAB # (lab use only) | ORDER # | LAB: SP | | in a National | | | | | Etech | |
|--|--|--|-----------|-----------|----------|------------|------------------|--------|-----------|-----------|--------|------------|--|-----------------|------------------------|---------------------------|----------------------|------------------|--------------------|---|------------------|---|---------------|
| aed by: | Sin and a | Special Instructions; | 1 | | JONNA . | | 6 | | | | | ANOPAL A | | SA | SPL - Lafayette, LA | Sampler Signature: | Telephone No: | City/State/Zip: | Company Address: | Company Name | Project Manager: |) Environme | |
| | Brand | | jan i | | E DION J | C | 4 | | | . | | MOC 1 | FIELD CODE | 20000 | | Ċ. | 432-563-2200 | Midland/TX/79708 | s: P.O. Box 8469 | Etech Environmental & Safety Solutions, Inc | Tim | Environmental & Safety Solutions, Inc. | |
| Date | Date C | | | | | | | 6 | | | | | | | | | | 08 | | ental & Safety | Sun | y Solut | |
| Time | Time | | φ | | 2 | 0 | 5 | S | 3 | 92 | | \bigcirc | Beginning Dopth | - | | | | | | Solut | Mino | One | |
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| Received by: (| Received by: Received by: | | \leq | | | | | \sum | | S | | 1415 | Date Sampled | | | | | | | nc. | Y | 9 | |
| KHB | | | | 22:1 | | | 10:55 | 0:50 | 05:01 | 510 | 10: 10 | られた | Time Sampled | | | e-mail Tim a) et cch. com | Fax No: 432-563-2213 | | | | | | - |
| 7 | | | | | | | | | | | | | No. of Cantainers | | | | 432-5 | | | | | | |
| | | | | B | | R | Z | Q | | Q | | Q | ice TINO3 | - 3 | · · · | E, | 63-2 | | | | | P.O. Midi | |
| | | • | | | | | H | Ш | | | | | HCI | eservation | . 1 | G | 213 | | | t an t | | P.O. Box 8469 Midland, Texas | |
| | | | | | | Π | | | | | | | H ₂ SO ₄ | 0. | | ß | | - - 1 | | | | 8469 Texa | |
| | | | | <u>L</u> | | | | | | | | | NaOH | + of Containers | · · · | Б | | | | | | | |
| | | | | | | | | | | | | | Na ₂ S ₂ O ₃ None | _ naine | • | R | | | | | and the second | 79708 | |
| | Date | - | | \square | | | | | Ο | | | | Olher (Specify) | - 3 | | | | | | | | | • |
| N-5-154:45 Temperature Upon Receipt: 3 | ā 5 | | 6 | 4 | N | 0 | 5 | 0 | 0 | S | 3 | 0 | DW=Drinking Water SL=Sludge GW= Groundwater S=SolVSolid NP=Non-Potable Specify Other | Matrix | | | Report Format: | | " ''' | | PA | CHAIN OF CUSTOPY | • |
| き | Time | | | | Ø | Ø | Q | | Ø | | | | TPH: 418.1 80151 100 | 16900 | Τ | | Forn | | Project Loc: | Pro | Project Name: | JF C | |
| $\overline{\mathcal{A}}$ | <u>800</u> | <u> </u> | | | | | H | | | | H | H | Cations (Ca, Mg, Na, 19 Anloris (Cl, SO4, CO3, HCO3) | | | | at | РО # | tLoc | Project #: | Name | UST / | |
| Temp | Labels on container(s) Custody seals on contai Custody seals on cooler Sample Hand Delivered by Sampler/Client Rej by Courier? UP | Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? | D | Б | | | | | | | | D | SAR / ESP / CEC |) TOTAL: | TOLP | | 4 | .75 | 1 . | 1. | | <u>g</u> |)(|
| veratu | els on cont tody seals tody seals nple Hand I by Sampler by Courier? | Free Free | | | | \Box | | \Box | | | | | Metals: As Ag Ba Cd Cr Pb Ho | | | | | - | Memoria | 4110- | Rok | | |
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| oon F | ivere | imen is Inf | H | | | | | | | | | | Semivolatiles BTEX 80218/5030 or BTEX 8: | | Analyze For: | | | 1 | 5 | R | B | D A A A | 2 |
| (ecel | Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep ? by Courier? UPS (| Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? | Ď | ħ | Ē | Ď | \Box | đ | | | 同 | đ | RCI | للصلا | For | | | | K | 666 | 5 | RECORD AND ANALYSIS REQUE Phone: 432-563-2200 Fax: 432-563-2213 | J |
| 문 () | ₽ ₽ | | | П | | | | | \square | | | | N.O.R.M. | | | | TRRP | | | A | 0 | 3-22 C | 11 |
| O | 5 m | | | R | H. | | E | | | | | | TOC | | | | | | | K | 6 | 13 BLYS | \mathcal{P} |
| | BARA A | A > | | | | | H | | | | | H | Chimaes | | | | | | ľ | P | | л Si | |
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| Reinquished by | Reinquistie | Keing | | Special | | | | | - | | Ad | 03 | 03 | 0 | LAB # (lab use only) | ORDER # | | | | | | · . | a ang ang ang ang ang ang ang ang ang an | | Etech | |
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| ned by | N | DUMAN | | Special Instructions: | | | | | | | | | 1 april | ANNA | | ORDER #: 540(| | Sampler Signature: | Telephone No: | City/State/Zip: | Company Address: | Company Name | Project Manager: | | Environmer | |
| | | Rand | | | | | | | | | | | C HOVE 3 | NW 2 | FIELD CODE | 1007 | | | 432-563-2200 | Midland/TX/79708 | P.O. Box 8469 | Etech Environmental & Safety Solutions, Inc. | TIM | | Etech Environmental & Safety Solutions, Inc. | |
| | | | | | | | - | | | | 2 | | | 5 | Beginning Depth | | | | | | | I & Safety So | Mo M | | Solutio | |
| Ime | me | | | - | | | | | ****** | | , (2) | 9 | | C | Ending Depth | | | | | | | dutions, | Minn | | ns, Ir | |
| Received by: | Received by: | Received by: | | | | | | | | | | | 5 | 11415 | Date Sampled | | | | | | Research American Street St | Inc. | | | Ģ | |
| M. M. D. A. M. M. | | | | | | | | | | | ()2:W | 11- 55 | 11:50 | 1.40 | Time Sampled | | | e-mail Tim a ALAC | Fax No: 432-563-2213 | | | | | | | |
| EA O | | | | | | - | | | 7-2-1 | | | === | | - | No. of Containers | | | 73 | 432-56 | | | | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | 27 | 3 | |
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| 11-5-1514:45 | Date | Uate | | | | | | | | | V | | | | DW=Drinking Water SL=Sludge GW = Groundwater S=Sol/Solid NP=Non-Potable Specify Other | Matrix | | | Report Format: | | | | Pn | • • • | CHAIN OF CUSTODY | |
| , C | Ime | lume | | | | | | | | | | | Q | 2 | TPH: 418.1 8015N 1005 1 | 800 | Π | | For | | Project Loc: | P | Project Name: | | 9 | |
| Δ | I | L | L | |] | | | | | | \square | | | | Cations (Ca, Mg, Na, K) | | | | nat: | PO # | et Lo | Project #: | Nan | | SR | |
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| IDera | Conserve | ady s | P O O | | | | | | | | | | E | F | Métals: As Ag Ba Cd Cr Pb Hg | | | | 5 | | M | 4 | Rs | (| | |
| iture | and [| eals eals | e of I | 2 | | | | | | | | \Box | | Ē | Volatiles | | | | Standard | | B | 6 | A | , PNO | | |
| Upor | Clien | on or | hers | ă [|] | n | | | | | | \square | \Box | E | Semivolallies | | naly | | ard | | 8 | 1 | 8 | ax: | Z S | \mathcal{D} |
| n Rei | hpte Hand Delivered by Sampler/Client Rep. by Courier? UPS | yolen | Sample Containers Intact? VOCs Free of Headspace? | Comments: | | Д | | | | | <u>Z</u> | | <u>I</u> | | BTEX 80218/5030 or BTEX 82 | 260 | Analyze For: | | | 1 | Memoria | L' | 5 | 432 | ECORD AND | 7 |
| Temperature Upon Receint 2 | ared tRep ? UPS DHL | Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) | 悠谷 | | | | | Ц | 니 | | | | P | Ļ | | | Ĭ | | TRRP | | | 899 | K | -56-56 26-56 | | \mathcal{I}_{i} |
| لار | P | ÷ | | | | 픰 | | | 믭 | H | | | E | | N.O.R.M. TOC | | | | 50 | | | - | $\left \right $ | Phone: 432-563-2200 Fax: 432-563-2213 | A C |)) |
| - - - | ¶ | 5. 1954 - 175 | Δ. | ļ | | | 닑 | | | H | L D | | R | E | Chrind | Mananana | | | | | | 0 | 4 | ຸພຸອ | ANALYSIS REQUE | T |
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| 20 | <u>R</u> | | | <u> </u> |][| | | | | | $ \Omega $ | 07 | Ø | 12 | Standard TAT | | | | | | ł | | Page | ; 20 (| JI 20 | |

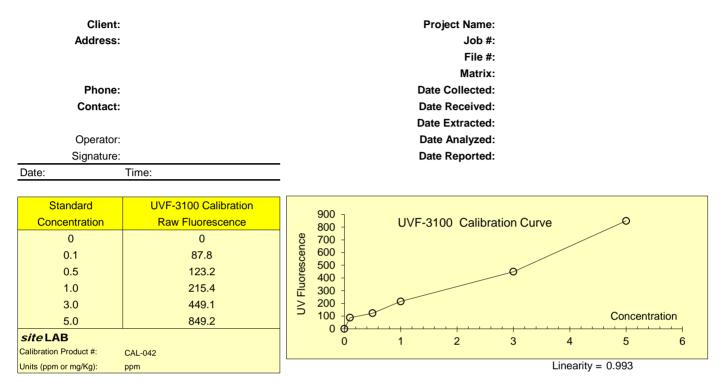
| | | Quan | tab Chlo | ride l'est | Strip Anal | lysis Sheet |
|------------|-------------|-------------------|----------|----------------------------------|--------------------------|--------------|
| Date: | 12/17/2015 | Client: | Memorial | | | |
| Site: | Federal R 6 | | | Pro | ject Number: | 416-6681-000 |
| Technican: | BB | | | Strip Lo | t Number(s): | |
| Sample ID | | Titrator Range | Dilution | Test Strip Result (ppm) | Final Result (ppm) | Notations |
| AH 2 4-5 | 5 | | 10 | 401.0 | 4010.00 | |
| AH 2 5-6 | | | 10 | 136.0 | 1360.00 | |
| AH 2 6-7 | | | 10 | 279.0 | 2790.00 | |
| AH 2 7-8 | | | 10 | 196.0 | 1960.00 | |
| AH 2 8-9 | | | 10 | 243.0 | 2430.00 | |
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| | | Quan | tab Chlo | ride Test | Strip Anal | ysis Sheet |
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| Date: | 12/22/2015 | Client: | Memorial | | | |
| Site: | Federal r6 | | | Pro | ject Number: | 416-6681 |
| Technican: | | | | Strip Lo | ot Number(s): | |
| Sample ID | | Titrator Range | Dilution | Test Strip Result (ppm) | Final Result (ppm) | Notations |
| AH 2 9- | 10 | | 10 | 322.0 | 3220.00 | |
| AH 2 10 | -11 | | 10 | 279.0 | 2790.00 | |
| AH 2 11 | 1-12 | | 10 | 90.0 | 900.00 | |
| AH 2 12 | 2-13 | | 10 | 116.0 | 1160.00 | |
| AH 2 13 | 3-14 | | 10 | 147.0 | 1470.00 | |
| AH 2 14 | 4-15 | | 10 | 98.0 | 980.00 | |
| AH 2 15 | 5-16 | | 10 | 52.0 | 520.00 | |
| AH 2 16 | 6-17 | | 10 | 59.0 | 590.00 | |
| AH 2 17 | 7-18 | | 10 | 33.0 | 330.00 | |
| AH 2 18 | 3-19 | | 10 | BDL | #VALUE! | |
| AH 2 19 | -20 | | 10 | BDL | #VALUE! | |
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| | | Quan | tab Chlo | ride Test | Strip Anal | ysis Sheet |
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| Date: | 12/17/2015 | Client: | Memorial | | | |
| Site: | Federal R6 | | | Pro | ject Number: | 416-6681-000 |
| Technican: | BB | | | Strip Lo | t Number(s): | |
| Sample ID | | Titrator Range | Dilution | Test Strip Result (ppm) | Final Result (ppm) | Notations |
| AH 3 4-6 | 6 | | 10 | 158.0 | 1580.00 | |
| AH 3 5-6 | | | 10 | 279.0 | 2790.00 | |
| AH 3 6-7 | | | 10 | 279.0 | 2790.00 | |
| AH 3 7-8 | 3 | | 10 | 98.0 | 980.00 | |
| AH 3 8-9 | 9 | | 10 | 98.0 | 980.00 | |
| AH 3 9-1 | 0 | | 10 | 59.0 | 590.00 | |
| AH 3 10- | 11 | | 10 | 59.0 | 590.00 | |
| | -12 | | 10 | 67.0 | 670.00 | |
| AH 3 12 | -13 | | 10 | 90.0 | 900.00 | |
| AH 3 13- | 14 | | 10 | 74.0 | 740.00 | |
| AH 3 14 | -15 | | 10 | 107.0 | 1070.00 | |
| AH 3 15 | -16 | | 10 | 98.0 | 980.00 | |
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| | | Quan | tab Chio | ride l'est | Strip Ana | lysis Sheet |
|------------|------------|-------------------|----------|----------------------------------|--------------------------|--------------|
| Date: | 12/18/2015 | Client: | Memorial | | | |
| Site: | Federal R6 | | | Pro | ject Number: | 416-6681-000 |
| Technican: | | | | Strip Lo | ot Number(s): | |
| Sample ID | | Titrator Range | Dilution | Test Strip Result (ppm) | Final Result (ppm) | Notations |
| AH 3 16-1 | 17 | | 10 | 74.0 | 740.00 | |
| AH 3 17-1 | 18 | | 10 | 52.0 | 520.00 | |
| AH 3 18- | 19 | | 10 | BDL | #VALUE! | |
| AH 3 19- | 20 | | 10 | BDL | #VALUE! | |
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Extended Diesel Range Organic Hydrocarbons Analysis Report *site* LAB® EDRO C10-C40 Aromatics in Soil, Sediment & Water



| UVF Run#: | Sample ID & Description | UVF Raw Fluorescence | Test Sample Concentration (ppm) | Dilution Factor | Test Result: |
|--------------|-------------------------|-------------------------|---------------------------------------|--------------------|---------------------------|
| 12 | AH 2 14-15 | -0.42 | 0 | 1,000 | Concentration Too Low (ND |
| 13 | AH 2 15-16 | -2.21 | -0.003 | 1,000 | Concentration Too Low (ND |
| 14 | AH 2 16-17 | 34.55 | 0.039 | 1,000 | Concentration Too Low (ND |
| 15 | AH 2 17-18 | -0.52 | 0 | 1,000 | Concentration Too Low (ND |
| 16 | AH 2 18-19 | -0.11 | 0 | 1,000 | Concentration Too Low (ND |
| 17 | AH 2 19-20 | -2.33 | -0.003 | 1,000 | Concentration Too Low (ND |
| 18 | AH 2 4-5 | 100.30 | 0.241 | 1,000 | 241.0 ppm |
| 19 | AH 2 5-6 | 3.78 | 0.004 | 1,000 | Concentration Too Low (ND |
| 20 | AH 2 6-7 | 4.22 | 0.005 | 1,000 | Concentration Too Low (ND |
| 21 | AH 2 7-8 | -10.27 | -0.012 | 1,000 | Concentration Too Low (ND |
| 22 | AH 2 8-9 | 2.93 | 0.003 | 1,000 | Concentration Too Low (ND |
| 12 | | 1.00 | 1 | 1 | 1.0 ppm |
| 13 | | 1.00 | 1 | 1 | 1.0 ppm |
| 14 | | 1.00 | 1 | 1 | 1.0 ppm |
| 15 | | 1.00 | 1 | 1 | 1.0 ppm |
| 16 | | 1.00 | 1 | 1 | 1.0 ppm |
| 17 | | 1.00 | 1 | 1 | 1.0 ppm |
| 18 | | 1.00 | 1 | 1 | 1.0 ppm |
| 19 | | 1.00 | 1 | 1 | 1.0 ppm |
| 20 | | 1.00 | 1 | 1 | 1.0 ppm |

PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Tim McMinn E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa, TX 79765

> Project: Federal R6 Project Number: 416-6681-000 Location: Memorial

Lab Order Number: 5L22001



NELAP/TCEQ # T104704156-13-3

Report Date: 12/30/15

Project: Federal R6 Project Number: 416-6681-000 Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------------|---------------|--------|----------------|------------------|
| Auger Hole 2 18'-19' | 5L22001-01 | Soil | 12/17/15 14:10 | 12-22-2015 10:00 |
| Auger Hole 2 19'-20' | 5L22001-02 | Soil | 12/17/15 14:15 | 12-22-2015 10:00 |

Auger Hole 2 18'-19'

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes | | | |
|---------------------------------------|---------------------------|--------------------|-----------|----------|---------|----------|----------|---------------|-------|--|--|--|
| Permian Basin Environmental Lab, L.P. | | | | | | | | | | | | |
| General Chemistry Parameters | by EPA / Standard Methods | | | | | | | | | | | |
| Chloride | 167 | 1.08 | mg/kg dry | 1 | P5L2302 | 12/23/15 | 12/23/15 | EPA 300.0 | | | | |
| % Moisture | 7.0 | 0.1 | % | 1 | P5L2301 | 12/23/15 | 12/23/15 | % calculation | | | | |

Permian Basin Environmental Lab, L.P.

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | | Proj Project Numl Project Manaş | | 81-000 | | | | Fax: (432) 56 | 53-2213 | | | | |
|---|---------------------------------------|---------------------------------------|-----------|----------|---------|----------|----------|---------------|---------|--|--|--|--|
| Auger Hole 2 19'-20' 5L22001-02 (Soil) | | | | | | | | | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes | | | | |
| | Permian Basin Environmental Lab, L.P. | | | | | | | | | | | | |
| General Chemistry Parameters by EPA / Stan | dard Method | S | | | | | | | | | | | |
| Chloride | 108 | 1.06 | mg/kg dry | 1 | P5L2302 | 12/23/15 | 12/23/15 | EPA 300.0 | | | | | |
| % Moisture | 6.0 | 0.1 | % | 1 | P5L2301 | 12/23/15 | 12/23/15 | % calculation | | | | | |

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|--------------------------|-------------------------------|---|--|--|--|--------|-------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P5L2301 - % Solids | | | | | | | | | | |
| Blank (P5L2301-BLK1) | | | | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P5L2301-DUP1) | Sou | rce: 5L21003- | 03 | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | 4.0 | 0.1 | % | | 5.0 | | | 22.2 | 20 | |
| Duplicate (P5L2301-DUP2) | Sou | rce: 5L22008- | 04 | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | 14.0 | 0.1 | % | | 14.0 | | | 0.00 | 20 | |
| Duplicate (P5L2301-DUP3) | Sou | rce: 5L22011- | 04 | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | 5.0 | 0.1 | % | - | 5.0 | | | 0.00 | 20 | |
| Batch P5L2302 - *** DEFAULT PREP *** | | | | | | | | | | |
| Dawn 1512502 - DEFAULT I KEI | | | | | | | | | | |
| Blank (P5L2302-BLK1) | | | | Prepared & | Analyzed: | 12/23/15 | | | | |
| | ND | 1.00 | mg/kg wet | Prepared & | Analyzed: | 12/23/15 | | | | |
| Blank (P5L2302-BLK1) | ND | 1.00 | mg/kg wet | Prepared & | | | | | | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) | ND 236 | | mg/kg wet | Prepared & | | | 80-120 | | | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) | | | | Prepared & | Analyzed: | 12/23/15 118 | 80-120 | | | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) Chloride | | 1.00 | | Prepared & 200 Prepared & | Analyzed: | 12/23/15 118 | 80-120 | 0.868 | 20 | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) Chloride LCS Dup (P5L2302-BSD1) | 236 | 1.00 | mg/kg wet | Prepared & 200 Prepared & | Analyzed: | 12/23/15 118 12/23/15 117 | | 0.868 | 20 | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) Chloride LCS Dup (P5L2302-BSD1) Chloride Duplicate (P5L2302-DUP1) | 236 | 1.00 1.00 rce: 5L22001- | mg/kg wet | Prepared & 200 Prepared & 200 | Analyzed: | 12/23/15 118 12/23/15 117 | | 0.868 | 20 | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) Chloride LCS Dup (P5L2302-BSD1) Chloride | 236 234 Sour ND | 1.00 1.00 rce: 5L22001- | mg/kg wet mg/kg wet 01 mg/kg dry | Prepared & 200 Prepared & 200 | Analyzed: Analyzed: Analyzed: 167 | 12/23/15 118 12/23/15 117 12/23/15 | | 0.868 | | |

Notes and Definitions

| DET | Analyte DETECTED |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| LCS | Laboratory Control Spike |
| MS | Matrix Spike |
| Dup | Duplicate |
| | |

Report Approved By:

un Barron

12/30/2015 Date:

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

| | | Reinquerga by: Date Ran 122715 | | Special Instructions: | | | | | | | | | NL I U | TUN PROPER HOLE I | LAB # (lab use only) | | LAB: SPL-Lafayette, LA | Sampler Signature: | Telephone No: <u>432-563-2200</u> | City/State/Zip: Midland/TX/79708 | Company Address: P.O. Box 8469 | Company Name Etech Environmental & Safety Solutions, Inc | Project Manager: Tim MC | Etech Environmental & Safety Solutions, Inc. |
|---------------------------------|---|-----------------------------------|--|-----------------------|--------|--------|---|-----------|---|---|-------------------|-----------|-------------|-------------------|--|--------------------------------|------------------------|-----------------------|-----------------------------------|----------------------------------|--------------------------------|--|-------------------------|--|
| E C | Time | I (): C | | | | | | | | | | | 92 | | Beginning Depth | | | | | | | ty Soluti | min | tions |
| The second | Received by: | | | | | | | | | | | • | 20 11.17.15 | 9 12.17-15 | Ending Depth Date Sampled | | | | | | | ons, Inc. | 2D | , Inc. |
| | | | | | | | | | | | | (| 1415 | 1410 | Time Sampled | | | e-mail Tim a) et cch. | Fax No: <u>432-563-2213</u> | | | | | |
| | | | | | | | | | | | | | | | No. of Containers | | | H | 432-5 | | | | | |
| | | | | ļ | | | | | | | | | | | Lce HNO3 | - 2 | | é | 63-22 | | | | | P.O. Box 8469 Midland, Texas |
| | | | | ļ | 믥 | 늼 | 님 | H | | | | H | 믐 | | HCI | Preservation & # of Containers | | 4 | 213 | | | 1 | | Box and, |
| | | | | | | | | | | | | | | | H ₂ SO ₄ | ition & | | 8 | | | | | | 846 Texa |
| | | | ан 1 | [| | | | | | | | | | | NaOH | # 9, | | E | | | | | | v/ . |
| | | | | <u> </u> | | | | | | | | | | | Na ₂ S ₂ O ₃ | Jontal | | Com | | | | | | 79708 |
| 12 | | | | ļ | | | | 므 | | | | | | | None | ners | | B | | - 1- 1- | | | | W |
| 12-22-(S | Date | Date | | ŀ | | LJ | | | Ц | | | | Ц | | Other (Specify) DW=Drinking Water SL=Sludge | + | | | 1 | | | | 1 | |
| | | | | | | | | | | | | | 5 | S | GW= Groundwater S=Soil/Solid NP=Non-Potable Specify Other | Matrix | | | Report Format: | | | | פ | CHAIN OF CUSTODY RECORD AND ANALYSIS REQUE Phone: 432-563-2200 Fax: 432-563-2213 |
| lime Josof | Time | Time | | | | | | \square | | | Π | | Π | \square | TPH: 418.1 8015M 1005 10 | 006 | | | ťFo | | Proj | <u>ס</u> | ojec | Q. |
| Ō | 1 | | | İ | | | | | | | | | | | Catlons (Ca, Mg, Na, K) | | | | rmat | Ţ | Project Loc: | Project #: | Project Name: | CUX |
| | Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS DH | Cus | Vo | Tap [| | | | | | | | | | | Anions (Cl, SO4, CO3, HCO3) | | Z Z | | •• | PO # | 0 | 并 措 | me | sто |
| Temperature Upon Receipt: | by s by s | tody tody | Sample Containers Intact? VOCs Free of Headspace? | Laboratory Comments | | | | | | | | | | | SAR / ESP / CEC | | TOTAL: | | [] | | 1.1 | - | -r | ΔY |
| ratu | Hany ampli ourie | seal Seal | Cont | 3 | | | | | | | | | | Ľ | Metals: As Ag Ba Cd Cr Pb Hg | Se | | | Stal | | Memoria | | e. | PE |
| re U | in De | Is on | taine xf He | <u>S</u> | 긝 | | 닠 | Ц | | 늬 | [] | | | | | [| | Ana | Standard | . · · . | R | A | R | СОЛ Fai |
| pon l | liven I F | Con Con | adsp adsp | ine | 井 | 님 | 片 | 片 | H | 片 | H | | Ц | ┝┤ | Semivolatiles BTEX 8021B/5030 or BTEX 82 | 80 | | Analyze For: | | | 2 | 6 | 2 | 8 8 6 4 4 4 |
| Rece | UPS ed | i) taine ler(s | tact" Jace | <u></u> | 븱 | 늼 | H | 片 | | 님 | | | H | | RCI | | | <u>q</u> | | | R | | | IND 32-5 32-5 |
| ¥ipt: | лу П |)) | · J | ļ | 3 | | | | | | | | | F | N.O.R.M. | | | | TRRP | | | 10 | a | 63-2 63-2 |
| 2 | DHL | | | , li | ╗ | | 司 | | | | $\overline{\Box}$ | | Π | $\overline{\Box}$ | TOC | • • | | | ÷ | | | 600 | 03 | ECORD AND ANAL) Phone: 432-563-2200 Fax: 432-563-2213 |
| 4 6 2 c r^{c} L_{1} | TI Ø | ~ ~ | | ļ | | | | | | | | | | D | Chunda | | | | | | | 5 | | SIS |
| ž | C A | OK | ®-{ | 2[| | | | | | | | | | | | | | | NPDES | | | 8 | | R |
| F | Lone N N | | | [| \Box | | | | | | | \Box | | | | | | | Ū | * } | | $\left \mathcal{C} \right $ | 1. | ËQU |
| °°, | ne z z | ZZZ | ΖZ | | | \Box | | | | | | | | | RUSH TAT (Pre-Schedule) 24 | HOUR | | | | | | | | |
| - | Star | | · | [| | | | | | | | \square | | | Standard TAT | | | | | | | | rag | e 7 of 7 |

PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Tim McMinn E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa, TX 79765

> Project: Federal R6 Project Number: 416-6681-000 Location: Memorial

Lab Order Number: 5L22004



NELAP/TCEQ # T104704156-13-3

Report Date: 12/30/15

E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765

Project: Federal R6 Project Number: 416-6681-000 Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------------|---------------|--------|----------------|------------------|
| Auger Hole 2 6'-7' | 5L22004-01 | Soil | 12/18/15 08:50 | 12-22-2015 10:00 |
| Auger Hole 2 7'-8' | 5L22004-02 | Soil | 12/18/15 08:55 | 12-22-2015 10:00 |

Auger Hole 2 6'-7'

| | | Reporting | | | | | | | |
|--|---------------|-------------|------------|-------------|--------------|----------|----------|---------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | Perm | ian Basin E | Environmer | ital Lab, l | L .P. | | | | |
| General Chemistry Parameters by EPA / St | andard Method | S | | | | | | | |
| % Moisture | 17.0 | 0.1 | % | 1 | P5L2301 | 12/23/15 | 12/23/15 | % calculation | |
| Total Petroleum Hydrocarbons C6-C35 by | EPA Method 80 | 15M | | | | | | | |
| C6-C12 | ND | 30.1 | mg/kg dry | 1 | P5L2306 | 12/22/15 | 12/22/15 | TPH 8015M | |
| >C12-C28 | ND | 30.1 | mg/kg dry | 1 | P5L2306 | 12/22/15 | 12/22/15 | TPH 8015M | |
| >C28-C35 | ND | 30.1 | mg/kg dry | 1 | P5L2306 | 12/22/15 | 12/22/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 106 % | 70-1 | 30 | P5L2306 | 12/22/15 | 12/22/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 124 % | 70-1 | 30 | P5L2306 | 12/22/15 | 12/22/15 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | ND | 30.1 | mg/kg dry | 1 | [CALC] | 12/22/15 | 12/22/15 | calc | |

| E Tech Environmental & Safety Solutions, Inc. |
|---|
| 13000 West County Road 100 |
| Odessa TX, 79765 |

Project: Federal R6 Project Number: 416-6681-000 Project Manager: Tim McMinn

Auger Hole 2 7'-8'

5L22004-02 (Soil)

| | | D (| | | | | | | |
|---------------------------------------|-----------------|--------------------|-----------|-------------|---------|----------|-----------|---------------|--------|
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Analyte | Kesuit | Liiiit | Units | Dilution | Baten | riepaieu | Allalyzeu | Wiethod | INDICS |
| | Perm | ian Basin F | Invironme | ital Lab, I | L.P. | | | | |
| General Chemistry Parameters by EPA / | Standard Method | 8 | | | | | | | |
| % Moisture | 12.0 | 0.1 | % | 1 | P5L2301 | 12/23/15 | 12/23/15 | % calculation | |
| Total Petroleum Hydrocarbons C6-C35 b | y EPA Method 80 | 15M | | | | | | | |
| C6-C12 | ND | 28.4 | mg/kg dry | 1 | P5L2306 | 12/22/15 | 12/22/15 | TPH 8015M | |
| >C12-C28 | ND | 28.4 | mg/kg dry | 1 | P5L2306 | 12/22/15 | 12/22/15 | TPH 8015M | |
| >C28-C35 | ND | 28.4 | mg/kg dry | 1 | P5L2306 | 12/22/15 | 12/22/15 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 103 % | 70-1 | 30 | P5L2306 | 12/22/15 | 12/22/15 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 117 % | 70-1 | 30 | P5L2306 | 12/22/15 | 12/22/15 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | ND | 28.4 | mg/kg dry | 1 | [CALC] | 12/22/15 | 12/22/15 | calc | |

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--------------------------|--------|---------------|-------|------------|-----------|----------|--------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P5L2301 - % Solids | | | | | | | | | | |
| Blank (P5L2301-BLK1) | | | | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P5L2301-DUP1) | Sourc | e: 5L21003-0. | 3 | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | 4.0 | 0.1 | % | | 5.0 | | | 22.2 | 20 | |
| Duplicate (P5L2301-DUP2) | Sourc | e: 5L22008-04 | 4 | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | 14.0 | 0.1 | % | | 14.0 | | | 0.00 | 20 | |
| Duplicate (P5L2301-DUP3) | Sourc | e: 5L22011-04 | 4 | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | 5.0 | 0.1 | % | | 5.0 | | | 0.00 | 20 | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------------------------------|--------|-------------|-----------|------------|-----------|----------|--------|-------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P5L2306 - TX 1005 | | | | | | | | | | |
| Blank (P5L2306-BLK1) | | | | Prepared & | Analyzed: | 12/22/15 | | | | |
| C6-C12 | ND | 25.0 | mg/kg wet | | | | | | | |
| >C12-C28 | ND | 25.0 | " | | | | | | | |
| >C28-C35 | ND | 25.0 | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 86.4 | | " | 100 | | 86.4 | 70-130 | | | |
| Surrogate: o-Terphenyl | 48.0 | | " | 50.0 | | 96.1 | 70-130 | | | |
| LCS (P5L2306-BS1) | | | | Prepared & | Analyzed: | 12/22/15 | | | | |
| C6-C12 | 912 | 25.0 | mg/kg wet | 1000 | | 91.2 | 75-125 | | | |
| >C12-C28 | 907 | 25.0 | " | 1000 | | 90.7 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 108 | | " | 100 | | 108 | 70-130 | | | |
| Surrogate: o-Terphenyl | 45.6 | | " | 50.0 | | 91.3 | 70-130 | | | |
| LCS Dup (P5L2306-BSD1) | | | | Prepared & | Analyzed: | 12/22/15 | | | | |
| C6-C12 | 907 | 25.0 | mg/kg wet | 1000 | | 90.7 | 75-125 | 0.562 | 20 | |
| >C12-C28 | 881 | 25.0 | " | 1000 | | 88.1 | 75-125 | 2.88 | 20 | |
| Surrogate: 1-Chlorooctane | 106 | | " | 100 | | 106 | 70-130 | | | |
| Surrogate: o-Terphenyl | 45.2 | | " | 50.0 | | 90.4 | 70-130 | | | |
| Matrix Spike (P5L2306-MS1) | Sour | ce: 5L21003 | 6-03 | Prepared & | Analyzed: | 12/22/15 | | | | |
| C6-C12 | 936 | 26.3 | mg/kg dry | 1050 | 35.6 | 85.5 | 75-125 | | | |
| >C12-C28 | 1590 | 26.3 | " | 1050 | 1010 | 55.7 | 75-125 | | | QM-0 |
| Surrogate: 1-Chlorooctane | 112 | | " | 105 | | 107 | 70-130 | | | |
| Surrogate: o-Terphenyl | 49.6 | | " | 52.6 | | 94.2 | 70-130 | | | |
| Matrix Spike Dup (P5L2306-MSD1) | Sour | ce: 5L21003 | 6-03 | Prepared & | Analyzed: | 12/22/15 | | | | |
| C6-C12 | 1000 | 26.3 | mg/kg dry | 1050 | 35.6 | 91.6 | 75-125 | 6.88 | 20 | |
| >C12-C28 | 1760 | 26.3 | " | 1050 | 1010 | 71.0 | 75-125 | 24.3 | 20 | QM-0 |
| Surrogate: 1-Chlorooctane | 117 | | " | 105 | | 111 | 70-130 | | | |
| Surrogate: o-Terphenyl | 52.6 | | " | 52.6 | | 100 | 70-130 | | | |

Permian Basin Environmental Lab, L.P.

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
 DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Sun Barron Report Approved By:

12/30/2015

Date:

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

| Neill iguistied by. | | | | Special | | | | | | | | 100 | 2 | LAB # (lab use only) | ORDER # | I Į | AR S | | · · · | | | | | Etec |
|---------------------------|--|---|-------------------------|-----------------------|---|--------|---|-------------------|---|---|--|-------|----------|--|----------------------|--------|-------------------------|--------------------|-----------------------------|------------------|--------------------------------|--|------------------|--|
| siled by. | | Daher Bar | | Special Instructions: | | | | | | | | | THU 7 | | R# JUNN | | AR SPI - I afavotto I A | Sampler Signature: | Telephone No: | City/State/Zip: | Company Address: P.O. Box 8469 | Company Name | Project Manager: | Etech Environmental & Safety Solutions, Inc. |
| | \subseteq | | 1 | | | | | | | | | | | FIELD | W4 | | | | 432-563-2200 | Midland/TX/79708 | : P.O. Box 8469 | Etech Environmental & Safety Solutions, Inc. | Tim | ntal & Safety (|
| | | Date | | | | | | | | | | | 0 | Beginning Depth | _ | | | | | | | l & Safety S | Mc Minr | Solutio |
| lime | lime | 10:00 | + | | | | | | | | | a | | Ending Depth | | | | | | | | olutions, | nin | ons, la |
| Received by: | Received by: | Received by: | | | | | | | | | | 12195 | 12-19-15 | Date Sampled | | | | | | | | Inc | | 1 <u></u> , |
| IN C | 2 | | | - | | | | | | | | 53.3 | 50:50 | Time Sampled | | | | e-mail Tim elech. | Fax No: <u>432-563-2213</u> | | | | | |
| | | | | | | | | | | | | | 2 | No. of Containers | +1 | | | IN | 32-563- | | | | | P.C |
| | | | | | | | | | | | | | | HNO3 HCI | Preservati | | | Uct | 2213 | | | | | P.O. Box 8469 Midland, Texas |
| | | | | | | | | | | | | | | H₂SO₄ | ation & # | | | Ş | | | | | | 8469 Texas |
| | | | | | | | | | | | | | | NaOH Na ₂ S ₂ O ₃ | on & # of Containers | | 2 | -Com | | | | | | \$ 79708 |
| 2 | | | | | | | | | | | | | | None | tainers | | | B | | | | | | 8 |
| Date 12-22-5 | Date | Date | | | | | | | | | | | | Other (Specify) DW=Drinking Water SL=Sludge | H | | | | 1 | | | | | ^ |
| | | | | | | | | | | | | S | 3 | GW≔ Groundwater S=Soil/Solid NP≕Non-Potable Specify Other | Matrix | | : | | Report Format: | | ד | | Pro | CHAIN OF CUSTODY RECORD AND ANALYSIS REQUI Phone: 432-563-2200 Fax: 432-563-2213 |
| Time | Time | ime | · . | | | | | | | | | | | TPH: 418 1 8015M 1005 10 Cations (Ca, Mg, Na, K) | 006 | | | | Forma | _ | Project Loc: | Proje | Project Name: | л С |
| | Sar | | ڳ ڦ | 2 Lat | | | | | | | | | | Anions (CI, SO4, CO3, HCO3) | | | | | Ħ. | PO # | 5 | Project #: | ame: | ISTO |
| Temperature Upon Receipt: | Sample Hand Delivered by Sampler/Client Rep by Courier? UP | Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) | VOCs Free of Headspace? | aboratory Comments | | | | | | | | | | SAR / ESP / CEC | | TOTA: | | | <u>د</u> | | N | D | 77 | DYR |
| ature | nple Hand Delivered by Sampler/Client Rep. ? by Courier? UPS | seals seals | e of I | N N N | | | | | | | | | | Metals: As Ag Ba Cd Cr Pb Hg Volattles | | jE | | - | Standard | | Memoria | 6 | K | Pho |
| Upon | Client | ainer(on co | Heads | mme | | | | | 口 | | | | | Semivolatlles | | | Analyze | | bre | | 3. | 1 1 | B | ax: |
| Rece | Rep. UPS | s) ntaine oler(s) | space | ints: | 믬 | | 닑 | | 닑 | 님 | | | | BTEX 80218/5030 or BTEX 82 RCI | 60 | | For | | | | 2 | 300 | Ň | AND 132-5 132-5 |
| | DH |)))) | .0 | | Ī | \Box | | $\overline{\Box}$ | Ē | ŏ | | | | N.O.R.M. | | | 1 | | TRRP | 1 . | | MY M | D | ECORD AND ANAL) Phone: 432-563-2200 Fax: 432-563-2213 |
| 4.0 Notro | | | | | 뭐 | 뭐 | 뭐 | 뮈 | 뭐 | 미 | | | | TOC | | -+ | | | Π | | | B | 5 | LYS 13 |
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| ů N | e X Z Star | ZZZ | <u> </u> | | | | | | | 비 | | | | RUSH TAT (Pre-schedule) 24 | IOUR | | _ | | | | 1 | | Pa | ge 8 of 8 |

PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Tim McMinn E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa, TX 79765

> Project: Federal R6 Project Number: 416-6681-000 Location: Memorial

Lab Order Number: 5L22002



NELAP/TCEQ # T104704156-13-3

Report Date: 12/30/15

E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765

Project: Federal R6 Project Number: 416-6681-000 Project Manager: Tim McMinn

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------------|---------------|--------|----------------|------------------|
| Auger Hole 3 18'-19' | 5L22002-01 | Soil | 12/16/15 16:10 | 12-22-2015 10:00 |
| Auger Hole 3 19'-20' | 5L22002-02 | Soil | 12/16/15 16:15 | 12-22-2015 10:00 |

Auger Hole 3 18'-19'

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes | | | | | | |
|-------------------------------------|--|--------------------|-----------|----------|---------|----------|----------|---------------|-------|--|--|--|--|--|--|
| | Permian Basin Environmental Lab, L.P. | | | | | | | | | | | | | | |
| General Chemistry Parameters | General Chemistry Parameters by EPA / Standard Methods | | | | | | | | | | | | | | |
| Chloride | 276 | 1.02 | mg/kg dry | 1 | P5L2302 | 12/23/15 | 12/23/15 | EPA 300.0 | | | | | | | |
| % Moisture | 2.0 | 0.1 | % | 1 | P5L2301 | 12/23/15 | 12/23/15 | % calculation | | | | | | | |

Permian Basin Environmental Lab, L.P.

| E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765 | 3000 West County Road 100Project Number: 416-6681-000 | | | | | | | | | | | | | | |
|---|---|--------------------|-----------|-------------|---------|----------|----------|---------------|-------|--|--|--|--|--|--|
| | Auger Hole 3 19'-20' 5L22002-02 (Soil) | | | | | | | | | | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes | | | | | | |
| | Perm | ian Basin E | nvironme | ntal Lab, I | L.P. | | | | | | | | | | |
| General Chemistry Parameters by EPA / Stan | dard Method | S | | | | | | | | | | | | | |
| Chloride | 230 | 1.03 | mg/kg dry | 1 | P5L2302 | 12/23/15 | 12/23/15 | EPA 300.0 | | | | | | | |
| % Moisture | 3.0 | 0.1 | % | 1 | P5L2301 | 12/23/15 | 12/23/15 | % calculation | | | | | | | |

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|--------------------------------|-------------------------------|---|--|--|--|--------|-------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P5L2301 - % Solids | | | | | | | | | | |
| Blank (P5L2301-BLK1) | | | | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P5L2301-DUP1) | Sou | rce: 5L21003- | 03 | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | 4.0 | 0.1 | % | | 5.0 | | | 22.2 | 20 | |
| Duplicate (P5L2301-DUP2) | Sou | rce: 5L22008- | 04 | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | 14.0 | 0.1 | % | | 14.0 | | | 0.00 | 20 | |
| Duplicate (P5L2301-DUP3) | Sou | rce: 5L22011- | 04 | Prepared & | Analyzed: | 12/23/15 | | | | |
| % Moisture | 5.0 | 0.1 | % | 5.0 | | | | 0.00 | 20 | |
| | | | | | | | | | | |
| Batch P5L2302 - *** DEFAULT PREP *** | | | | | | | | | | |
| Batch P5L2302 - *** DEFAULT PREP *** Blank (P5L2302-BLK1) | | | | Prepared & | z Analyzed: | 12/23/15 | | | | |
| Blank (P5L2302-BLK1) | ND | 1.00 | mg/kg wet | Prepared & | z Analyzed: | 12/23/15 | | | | |
| Blank (P5L2302-BLK1) Chloride | ND | 1.00 | mg/kg wet | Prepared & | | | | | | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) | ND 236 | | mg/kg wet | | | | 80-120 | | | |
| | | | | Prepared & | z Analyzed: | 12/23/15 118 | 80-120 | | | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) Chloride LCS Dup (P5L2302-BSD1) | | 1.00 | | Prepared & 200 | z Analyzed: | 12/23/15 118 | 80-120 | 0.868 | 20 | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) Chloride | 236 | 1.00 | mg/kg wet | Prepared & 200 Prepared & 200 | z Analyzed: | 12/23/15 118 12/23/15 117 | | 0.868 | 20 | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) Chloride LCS Dup (P5L2302-BSD1) Chloride | 236 | 1.00 1.00 rce: 5L22001- | mg/kg wet | Prepared & 200 Prepared & 200 | z Analyzed: z Analyzed: | 12/23/15 118 12/23/15 117 | | 0.868 | 20 | |
| Blank (P5L2302-BLK1) Chloride LCS (P5L2302-BS1) Chloride LCS Dup (P5L2302-BSD1) Chloride Duplicate (P5L2302-DUP1) | 236 234 Sou ND | 1.00 1.00 rce: 5L22001- | mg/kg wet mg/kg wet 01 mg/kg dry | Prepared & 200 Prepared & 200 | z Analyzed: z Analyzed: z Analyzed: 167 | 12/23/15 118 12/23/15 117 12/23/15 | | 0.868 | | |

Notes and Definitions

| DET | Analyte DETECTED |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| LCS | Laboratory Control Spike |
| MS | Matrix Spike |
| Dup | Duplicate |
| | |

Report Approved By:

un Barron

12/30/2015 Date:

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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| | | | E 7 | Special Instructions: | | | | | | | | | - | | | h1 | | LAB: SPL - Lafayette, LA | Sampler Signature: | Telephone No: | City/State/Zip: | Company Address: | Company Name | Project Manager. | Etech Environmental & Safety Solutions, Inc. |
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| n Re | by Sampler/Client Rep. ? by Counier? UPS | poler nta | Sample Containers Intact? VOCs Free of Headspace? | Laboratory Comments: | | | | | | | | | | | BTEX 8021B/5030 or BTEX 828 | 30 [| | Analyze For: | 1 | | | memoria | 600 | | 432 432 |
| Temperature Upon Receipt. | Ϋ́́ο, Υ | Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) | 8.3 | "[| | | | | | | | | | | RCI | | | 18 | |] TRRP | 1 | Z | B | N | ECORD AND ANAL) Phone: 432-563-2200 Fax: 432-563-2213 |
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