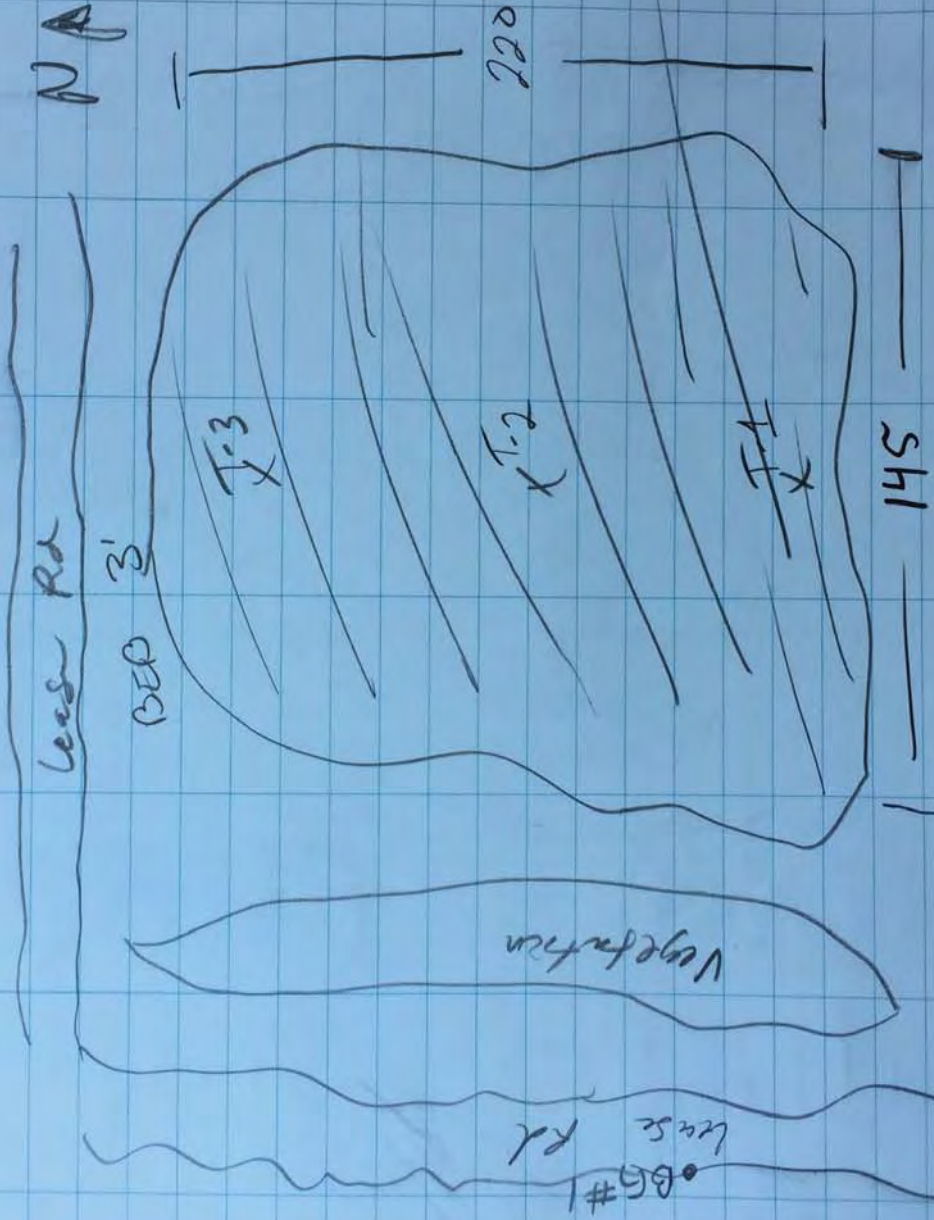


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Analytical Report 567704

**for
Tetra Tech- Midland**

**Project Manager: Ike Tavaréz
Rusty Anchor 7 Federal Com 1H
212C-MD-01014
15-NOV-17**

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



15-NOV-17

Project Manager: **Ike Tavaréz**

Tetra Tech- Midland

4000 N. Big Spring Suite 401

Midland, TX 79705

Reference: XENCO Report No(s): **567704**

Rusty Anchor 7 Federal Com 1H

Project Address: Lea Co, NM

Ike Tavaréz:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 567704. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 567704 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Mike Kimmel

Client Services Manager

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Tetra Tech- Midland, Midland, TX

Rusty Anchor 7 Federal Com 1H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|--------------------------|--------|----------------|--------------|---------------|
| Trench #1 (0-1') 2-3 BEB | S | 11-01-17 00:00 | | 567704-001 |
| Trench #1 (1') 2-3 BEB | S | 11-01-17 00:00 | | 567704-002 |
| Trench #1 (2') 2-3 BEB | S | 11-01-17 00:00 | | 567704-003 |
| Trench #1 (4') 2-3 BEB | S | 11-01-17 00:00 | | 567704-004 |
| Trench #1 (6') 2-3 BEB | S | 11-01-17 00:00 | | 567704-005 |
| Trench #1 (8') 2-3 BEB | S | 11-01-17 00:00 | | 567704-006 |
| Trench #1 (10') 2-3 BEB | S | 11-01-17 00:00 | | 567704-007 |
| Trench #2 (0-1') 2-3 BEB | S | 11-01-17 00:00 | | 567704-008 |
| Trench #2 (1') 2-3 BEB | S | 11-01-17 00:00 | | 567704-009 |
| Trench #2 (2') 2-3 BEB | S | 11-01-17 00:00 | | 567704-010 |
| Trench #2 (4') 2-3 BEB | S | 11-01-17 00:00 | | 567704-011 |
| Trench #2 (6') 2-3 BEB | S | 11-01-17 00:00 | | 567704-012 |
| Trench #2 (8') 2-3 BEB | S | 11-01-17 00:00 | | 567704-013 |
| Trench #2 (10') 2-3 BEB | S | 11-01-17 00:00 | | 567704-014 |
| Trench #3 (0-1') 2-3 BEB | S | 11-01-17 00:00 | | 567704-015 |
| Trench #3 (1') 2-3 BEB | S | 11-01-17 00:00 | | 567704-016 |
| Trench #3 (2') 2-3 BEB | S | 11-01-17 00:00 | | 567704-017 |
| Trench #3 (4') 2-3 BEB | S | 11-01-17 00:00 | | 567704-018 |
| Trench #3 (6') 2-3 BEB | S | 11-01-17 00:00 | | 567704-019 |
| Trench #3 (8') 2-3 BEB | S | 11-01-17 00:00 | | 567704-020 |
| Trench #3 (10') 2-3 BEB | S | 11-01-17 00:00 | | 567704-021 |
| Background #1 (0-1') | S | 11-01-17 00:00 | | 567704-022 |
| Background #1 (1') | S | 11-01-17 00:00 | | 567704-023 |
| Background #1 (2') | S | 11-01-17 00:00 | | 567704-024 |
| Background #1 (3') | S | 11-01-17 00:00 | | 567704-025 |



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Rusty Anchor 7 Federal Com 1H

Project ID: 212C-MD-01014
Work Order Number(s): 567704

Report Date: 15-NOV-17
Date Received: 11/07/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3032688 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3032942 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3033077 Inorganic Anions by EPA 300/300.1

Lab Sample ID 567704-020 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 567704-013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 567704

Tetra Tech- Midland, Midland, TX

Project Name: Rusty Anchor 7 Federal Com 1H



Project Id: 212C-MD-01014

Contact: Ike Tavarez

Project Location: Lea Co, NM

Date Received in Lab: Tue Nov-07-17 03:56 pm

Report Date: 15-NOV-17

Project Manager: Kelsey Brooks

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 567704-001 | 567704-002 | 567704-003 | 567704-004 | 567704-005 | 567704-006 |
|--|----------------------------|--------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | <i>Field Id:</i> | Trench #1 (0-1') 2-3 BEB | Trench #1 (1') 2-3 BEB | Trench #1 (2') 2-3 BEB | Trench #1 (4') 2-3 BEB | Trench #1 (6') 2-3 BEB | Trench #1 (8') 2-3 BEB |
| | <i>Depth:</i> | | | | | | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 |
| BTEX by EPA 8021B | <i>Extracted:</i> | Nov-08-17 08:00 | | | | | |
| | <i>Analyzed:</i> | Nov-08-17 13:20 | | | | | |
| | <i>Units/RL:</i> | mg/kg RL | | | | | |
| | Benzene | <0.00199 0.00199 | | | | | |
| | Toluene | <0.00199 0.00199 | | | | | |
| | Ethylbenzene | <0.00199 0.00199 | | | | | |
| | m,p-Xylenes | <0.00398 0.00398 | | | | | |
| | o-Xylene | <0.00199 0.00199 | | | | | |
| Inorganic Anions by EPA 300/300.1 | <i>Extracted:</i> | Nov-10-17 13:00 | Nov-10-17 13:00 | Nov-10-17 13:00 | Nov-10-17 13:00 | Nov-10-17 13:00 | Nov-10-17 13:00 |
| | <i>Analyzed:</i> | Nov-10-17 18:08 | Nov-10-17 18:14 | Nov-10-17 18:20 | Nov-10-17 18:46 | Nov-10-17 18:52 | Nov-10-17 19:11 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| | Chloride | 980 24.9 | 884 25.0 | 1290 24.9 | 1900 49.5 | 578 25.0 | 803 24.6 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TPH by Texas1005 | <i>Extracted:</i> | Nov-08-17 15:00 | | | | | |
| | <i>Analyzed:</i> | Nov-09-17 00:31 | | | | | |
| | <i>Units/RL:</i> | mg/kg RL | | | | | |
| | C6-C12 Range Hydrocarbons | <25.0 25.0 | | | | | |
| | C12-C28 Range Hydrocarbons | 250 25.0 | | | | | |
| Total TPH | | | | | | | |
| | | | | | | | |

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 567704

Tetra Tech- Midland, Midland, TX

Project Name: Rusty Anchor 7 Federal Com 1H



Project Id: 212C-MD-01014

Contact: Ike Tavarez

Project Location: Lea Co, NM

Date Received in Lab: Tue Nov-07-17 03:56 pm

Report Date: 15-NOV-17

Project Manager: Kelsey Brooks

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 567704-007 | 567704-008 | 567704-009 | 567704-010 | 567704-011 | 567704-012 |
|--|----------------------------|-------------------------|--------------------------|------------------------|------------------------|------------------------|------------------------|
| | <i>Field Id:</i> | Trench #1 (10') 2-3 BEB | Trench #2 (0-1') 2-3 BEB | Trench #2 (1') 2-3 BEB | Trench #2 (2') 2-3 BEB | Trench #2 (4') 2-3 BEB | Trench #2 (6') 2-3 BEB |
| | <i>Depth:</i> | | | | | | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 |
| BTEX by EPA 8021B | <i>Extracted:</i> | Nov-08-17 08:00 | Nov-08-17 08:00 | | | | |
| | <i>Analyzed:</i> | Nov-08-17 13:38 | Nov-08-17 13:57 | | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | | | | |
| | Benzene | <0.00200 0.00200 | <0.00202 0.00202 | | | | |
| | Toluene | <0.00200 0.00200 | <0.00202 0.00202 | | | | |
| | Ethylbenzene | <0.00200 0.00200 | <0.00202 0.00202 | | | | |
| | m,p-Xylenes | <0.00399 0.00399 | <0.00403 0.00403 | | | | |
| | o-Xylene | <0.00200 0.00200 | <0.00202 0.00202 | | | | |
| Inorganic Anions by EPA 300/300.1 | <i>Extracted:</i> | Nov-10-17 13:00 | Nov-10-17 13:00 | Nov-10-17 13:00 | Nov-10-17 13:00 | Nov-10-17 13:00 | Nov-10-17 13:00 |
| | <i>Analyzed:</i> | Nov-10-17 19:18 | Nov-10-17 19:24 | Nov-10-17 19:31 | Nov-10-17 19:37 | Nov-10-17 19:43 | Nov-10-17 19:50 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| | Chloride | 574 4.98 | 610 4.94 | 588 4.91 | 982 4.93 | 1460 24.7 | 547 4.91 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TPH by Texas1005 | <i>Extracted:</i> | Nov-08-17 15:00 | Nov-08-17 15:00 | | | | |
| | <i>Analyzed:</i> | Nov-09-17 00:53 | Nov-09-17 01:12 | | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | | | | |
| | C6-C12 Range Hydrocarbons | <25.0 25.0 | <25.0 25.0 | | | | |
| | C12-C28 Range Hydrocarbons | <25.0 25.0 | 240 25.0 | | | | |
| | C28-C35 Range Hydrocarbons | <25.0 25.0 | <25.0 25.0 | | | | |
| | Total TPH | <25.0 25.0 | 240 25.0 | | | | |

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 567704

Tetra Tech- Midland, Midland, TX

Project Name: Rusty Anchor 7 Federal Com 1H



Project Id: 212C-MD-01014
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Tue Nov-07-17 03:56 pm
Report Date: 15-NOV-17
Project Manager: Kelsey Brooks

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 567704-013 | 567704-014 | 567704-015 | 567704-016 | 567704-017 | 567704-018 |
|--|-------------------|------------------------|-------------------------|--------------------------|------------------------|------------------------|------------------------|
| | <i>Field Id:</i> | Trench #2 (8') 2-3 BEB | Trench #2 (10') 2-3 BEB | Trench #3 (0-1') 2-3 BEB | Trench #3 (1') 2-3 BEB | Trench #3 (2') 2-3 BEB | Trench #3 (4') 2-3 BEB |
| | <i>Depth:</i> | | | | | | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 |
| BTEX by EPA 8021B | <i>Extracted:</i> | | Nov-08-17 08:00 | Nov-08-17 08:00 | | | |
| | <i>Analyzed:</i> | | Nov-08-17 18:22 | Nov-08-17 18:39 | | | |
| | <i>Units/RL:</i> | | mg/kg RL | mg/kg RL | | | |
| Benzene | | | <0.00201 0.00201 | <0.00202 0.00202 | | | |
| Toluene | | | <0.00201 0.00201 | <0.00202 0.00202 | | | |
| Ethylbenzene | | | <0.00201 0.00201 | <0.00202 0.00202 | | | |
| m,p-Xylenes | | | <0.00402 0.00402 | <0.00404 0.00404 | | | |
| o-Xylene | | | <0.00201 0.00201 | <0.00202 0.00202 | | | |
| Total Xylenes | | | <0.00201 0.00201 | <0.00202 0.00202 | | | |
| Total BTEX | | | <0.00201 0.00201 | <0.00202 0.00202 | | | |
| Inorganic Anions by EPA 300/300.1 | <i>Extracted:</i> | Nov-10-17 15:00 | Nov-10-17 15:00 | Nov-10-17 15:00 | Nov-10-17 15:00 | Nov-10-17 15:00 | Nov-10-17 15:00 |
| | <i>Analyzed:</i> | Nov-10-17 20:47 | Nov-10-17 20:53 | Nov-10-17 21:00 | Nov-10-17 21:06 | Nov-10-17 21:25 | Nov-10-17 21:32 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Chloride | | 699 25.0 | 971 24.9 | 1360 24.5 | 1200 24.9 | 908 24.6 | 824 24.7 |
| TPH by Texas1005 | <i>Extracted:</i> | | Nov-08-17 15:00 | Nov-08-17 15:00 | | | |
| | <i>Analyzed:</i> | | Nov-09-17 01:33 | Nov-09-17 01:54 | | | |
| | <i>Units/RL:</i> | | mg/kg RL | mg/kg RL | | | |
| C6-C12 Range Hydrocarbons | | | <24.9 24.9 | 56.8 25.0 | | | |
| C12-C28 Range Hydrocarbons | | | 74.8 24.9 | 639 25.0 | | | |
| C28-C35 Range Hydrocarbons | | | <24.9 24.9 | 55.5 25.0 | | | |
| Total TPH | | | 74.8 24.9 | 751 25.0 | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 567704

Tetra Tech- Midland, Midland, TX

Project Name: Rusty Anchor 7 Federal Com 1H



Project Id: 212C-MD-01014

Contact: Ike Tavaréz

Project Location: Lea Co, NM

Date Received in Lab: Tue Nov-07-17 03:56 pm

Report Date: 15-NOV-17

Project Manager: Kelsey Brooks

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 567704-019 | 567704-020 | 567704-021 | 567704-022 | 567704-023 | 567704-024 |
|--|-------------------|------------------------|------------------------|-------------------------|----------------------|--------------------|--------------------|
| | <i>Field Id:</i> | Trench #3 (6') 2-3 BEB | Trench #3 (8') 2-3 BEB | Trench #3 (10') 2-3 BEB | Background #1 (0-1') | Background #1 (1') | Background #1 (2') |
| | <i>Depth:</i> | | | | | | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 | Nov-01-17 00:00 |
| BTEX by EPA 8021B | <i>Extracted:</i> | | | Nov-08-17 08:00 | Nov-10-17 07:45 | | |
| | <i>Analyzed:</i> | | | Nov-08-17 18:58 | Nov-10-17 10:16 | | |
| | <i>Units/RL:</i> | | | mg/kg RL | mg/kg RL | | |
| Benzene | | | | <0.00200 0.00200 | <0.00201 0.00201 | | |
| Toluene | | | | <0.00200 0.00200 | <0.00201 0.00201 | | |
| Ethylbenzene | | | | <0.00200 0.00200 | <0.00201 0.00201 | | |
| m,p-Xylenes | | | | <0.00399 0.00399 | <0.00402 0.00402 | | |
| o-Xylene | | | | <0.00200 0.00200 | <0.00201 0.00201 | | |
| Total Xylenes | | | | <0.00200 0.00200 | <0.00201 0.00201 | | |
| Total BTEX | | | | <0.00200 0.00200 | <0.00201 0.00201 | | |
| Inorganic Anions by EPA 300/300.1 | <i>Extracted:</i> | Nov-10-17 15:00 | Nov-10-17 15:00 | Nov-10-17 15:00 | Nov-10-17 15:00 | Nov-10-17 15:00 | Nov-10-17 15:00 |
| | <i>Analyzed:</i> | Nov-10-17 21:38 | Nov-10-17 20:28 | Nov-10-17 21:44 | Nov-10-17 21:51 | Nov-10-17 21:57 | Nov-10-17 22:16 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Chloride | | 923 24.9 | 517 4.96 | 785 25.0 | 233 4.99 | 30.2 4.98 | 21.6 4.93 |
| TPH by Texas1005 | <i>Extracted:</i> | | | Nov-08-17 15:00 | Nov-08-17 15:00 | | |
| | <i>Analyzed:</i> | | | Nov-09-17 02:14 | Nov-09-17 02:35 | | |
| | <i>Units/RL:</i> | | | mg/kg RL | mg/kg RL | | |
| C6-C12 Range Hydrocarbons | | | | <25.0 25.0 | <24.9 24.9 | | |
| C12-C28 Range Hydrocarbons | | | | 25.6 25.0 | <24.9 24.9 | | |
| C28-C35 Range Hydrocarbons | | | | <25.0 25.0 | <24.9 24.9 | | |
| Total TPH | | | | 25.6 25.0 | <24.9 24.9 | | |

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 567704

Tetra Tech- Midland, Midland, TX

Project Name: Rusty Anchor 7 Federal Com 1H



Project Id: 212C-MD-01014

Contact: Ike Tavaréz

Project Location: Lea Co, NM

Date Received in Lab: Tue Nov-07-17 03:56 pm

Report Date: 15-NOV-17

Project Manager: Kelsey Brooks

| | | | | | | |
|--|---|--|--|--|--|--|
| Analysis Requested | Lab Id: 567704-025 Field Id: Background #1 (3') Depth: Matrix: SOIL Sampled: Nov-01-17 00:00 | | | | | |
| BTEX by EPA 8021B | Extracted: Nov-10-17 07:45 Analyzed: Nov-10-17 10:34 Units/RL: mg/kg RL | | | | | |
| Benzene | <0.00199 0.00199 | | | | | |
| Toluene | <0.00199 0.00199 | | | | | |
| Ethylbenzene | <0.00199 0.00199 | | | | | |
| m,p-Xylenes | <0.00398 0.00398 | | | | | |
| o-Xylene | <0.00199 0.00199 | | | | | |
| Total Xylenes | <0.00199 0.00199 | | | | | |
| Total BTEX | <0.00199 0.00199 | | | | | |
| Inorganic Anions by EPA 300/300.1 | Extracted: Nov-10-17 15:00 Analyzed: Nov-10-17 22:23 Units/RL: mg/kg RL | | | | | |
| Chloride | 366 4.98 | | | | | |
| TPH by Texas1005 | Extracted: Nov-08-17 15:00 Analyzed: Nov-09-17 02:56 Units/RL: mg/kg RL | | | | | |
| C6-C12 Range Hydrocarbons | <25.0 25.0 | | | | | |
| C12-C28 Range Hydrocarbons | <25.0 25.0 | | | | | |
| C28-C35 Range Hydrocarbons | <25.0 25.0 | | | | | |
| Total TPH | <25.0 25.0 | | | | | |

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Client Services Manager

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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| (602) 437-0330 | |



Form 2 - Surrogate Recoveries

Project Name: Rusty Anchor 7 Federal Com 1H

Work Orders : 567704,

Lab Batch #: 3032688

Sample: 567704-001 / SMP

Project ID: 212C-MD-01014

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/08/17 13:20

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1,4-Difluorobenzene | 0.0279 | 0.0300 | 93 | 80-120 | |
| 4-Bromofluorobenzene | 0.0286 | 0.0300 | 95 | 80-120 | |

Lab Batch #: 3032688

Sample: 567704-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/08/17 13:38

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1,4-Difluorobenzene | 0.0286 | 0.0300 | 95 | 80-120 | |
| 4-Bromofluorobenzene | 0.0256 | 0.0300 | 85 | 80-120 | |

Lab Batch #: 3032688

Sample: 567704-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/08/17 13:57

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1,4-Difluorobenzene | 0.0282 | 0.0300 | 94 | 80-120 | |
| 4-Bromofluorobenzene | 0.0261 | 0.0300 | 87 | 80-120 | |

Lab Batch #: 3032688

Sample: 567704-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/08/17 18:22

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1,4-Difluorobenzene | 0.0296 | 0.0300 | 99 | 80-120 | |
| 4-Bromofluorobenzene | 0.0257 | 0.0300 | 86 | 80-120 | |

Lab Batch #: 3032688

Sample: 567704-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/08/17 18:39

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1,4-Difluorobenzene | 0.0301 | 0.0300 | 100 | 80-120 | |
| 4-Bromofluorobenzene | 0.0293 | 0.0300 | 98 | 80-120 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Rusty Anchor 7 Federal Com 1H

Work Orders : 567704,

Project ID: 212C-MD-01014

Lab Batch #: 3032688

Sample: 567704-021 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/08/17 18:58

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0295 | 0.0300 | 98 | 80-120 | |
| 4-Bromofluorobenzene | 0.0256 | 0.0300 | 85 | 80-120 | |

Lab Batch #: 3032813

Sample: 567704-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/09/17 00:31

SURROGATE RECOVERY STUDY

| TPH by Texas1005 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| o-Terphenyl | 44.2 | 49.9 | 89 | 70-130 | |
| 1-Chlorooctane | 95.2 | 99.8 | 95 | 70-130 | |

Lab Batch #: 3032813

Sample: 567704-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/09/17 00:53

SURROGATE RECOVERY STUDY

| TPH by Texas1005 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| o-Terphenyl | 41.3 | 49.9 | 83 | 70-130 | |
| 1-Chlorooctane | 86.2 | 99.8 | 86 | 70-130 | |

Lab Batch #: 3032813

Sample: 567704-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/09/17 01:12

SURROGATE RECOVERY STUDY

| TPH by Texas1005 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| o-Terphenyl | 42.4 | 49.9 | 85 | 70-130 | |
| 1-Chlorooctane | 91.2 | 99.8 | 91 | 70-130 | |

Lab Batch #: 3032813

Sample: 567704-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/09/17 01:33

SURROGATE RECOVERY STUDY

| TPH by Texas1005 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| o-Terphenyl | 44.4 | 49.8 | 89 | 70-130 | |
| 1-Chlorooctane | 93.7 | 99.6 | 94 | 70-130 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Rusty Anchor 7 Federal Com 1H

Work Orders : 567704,

Project ID: 212C-MD-01014

Lab Batch #: 3032813

Sample: 567704-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/09/17 01:54

SURROGATE RECOVERY STUDY

| TPH by Texas1005 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| o-Terphenyl | 46.1 | 50.0 | 92 | 70-130 | |
| 1-Chlorooctane | 97.8 | 99.9 | 98 | 70-130 | |

Lab Batch #: 3032813

Sample: 567704-021 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/09/17 02:14

SURROGATE RECOVERY STUDY

| TPH by Texas1005 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| o-Terphenyl | 43.7 | 50.0 | 87 | 70-130 | |
| 1-Chlorooctane | 91.1 | 100 | 91 | 70-130 | |

Lab Batch #: 3032813

Sample: 567704-022 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/09/17 02:35

SURROGATE RECOVERY STUDY

| TPH by Texas1005 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| o-Terphenyl | 46.6 | 49.9 | 93 | 70-130 | |
| 1-Chlorooctane | 98.7 | 99.7 | 99 | 70-130 | |

Lab Batch #: 3032813

Sample: 567704-025 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/09/17 02:56

SURROGATE RECOVERY STUDY

| TPH by Texas1005 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| o-Terphenyl | 43.2 | 49.9 | 87 | 70-130 | |
| 1-Chlorooctane | 91.5 | 99.8 | 92 | 70-130 | |

Lab Batch #: 3032942

Sample: 567704-022 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/10/17 10:16

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1,4-Difluorobenzene | 0.0294 | 0.0300 | 98 | 80-120 | |
| 4-Bromofluorobenzene | 0.0282 | 0.0300 | 94 | 80-120 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Rusty Anchor 7 Federal Com 1H

Work Orders : 567704,

Lab Batch #: 3032942

Sample: 567704-025 / SMP

Project ID: 212C-MD-01014

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/10/17 10:34

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1,4-Difluorobenzene | 0.0261 | 0.0300 | 87 | 80-120 | |
| 4-Bromofluorobenzene | 0.0272 | 0.0300 | 91 | 80-120 | |

Lab Batch #: 3032688

Sample: 7634017-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/08/17 11:26

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1,4-Difluorobenzene | 0.0281 | 0.0300 | 94 | 80-120 | |
| 4-Bromofluorobenzene | 0.0251 | 0.0300 | 84 | 80-120 | |

Lab Batch #: 3032813

Sample: 7634080-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/08/17 22:07

SURROGATE RECOVERY STUDY

| TPH by Texas1005 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| o-Terphenyl | 60.1 | 50.0 | 120 | 70-130 | |
| 1-Chlorooctane | 122 | 100 | 122 | 70-130 | |

Lab Batch #: 3032942

Sample: 7634163-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/10/17 09:20

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1,4-Difluorobenzene | 0.0265 | 0.0300 | 88 | 80-120 | |
| 4-Bromofluorobenzene | 0.0259 | 0.0300 | 86 | 80-120 | |

Lab Batch #: 3032688

Sample: 7634017-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/08/17 08:39

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1,4-Difluorobenzene | 0.0296 | 0.0300 | 99 | 80-120 | |
| 4-Bromofluorobenzene | 0.0280 | 0.0300 | 93 | 80-120 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Rusty Anchor 7 Federal Com 1H

Work Orders : 567704,

Lab Batch #: 3032813

Sample: 7634080-1-BKS / BKS

Project ID: 212C-MD-01014

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/08/17 22:29

SURROGATE RECOVERY STUDY

| TPH by Texas1005 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| o-Terphenyl | 45.0 | 50.0 | 90 | 70-130 | |
| 1-Chlorooctane | 93.5 | 100 | 94 | 70-130 | |

Lab Batch #: 3032942

Sample: 7634163-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/10/17 07:24

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1,4-Difluorobenzene | 0.0285 | 0.0300 | 95 | 80-120 | |
| 4-Bromofluorobenzene | 0.0268 | 0.0300 | 89 | 80-120 | |

Lab Batch #: 3032688

Sample: 7634017-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/08/17 08:58

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1,4-Difluorobenzene | 0.0302 | 0.0300 | 101 | 80-120 | |
| 4-Bromofluorobenzene | 0.0272 | 0.0300 | 91 | 80-120 | |

Lab Batch #: 3032813

Sample: 7634080-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/08/17 22:48

SURROGATE RECOVERY STUDY

| TPH by Texas1005 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| o-Terphenyl | 51.7 | 50.0 | 103 | 70-130 | |
| 1-Chlorooctane | 107 | 100 | 107 | 70-130 | |

Lab Batch #: 3032942

Sample: 7634163-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/10/17 07:42

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1,4-Difluorobenzene | 0.0334 | 0.0300 | 111 | 80-120 | |
| 4-Bromofluorobenzene | 0.0318 | 0.0300 | 106 | 80-120 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Rusty Anchor 7 Federal Com 1H

Work Orders : 567704,

Project ID: 212C-MD-01014

Lab Batch #: 3032688

Sample: 567702-007 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/08/17 10:10

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0300 | 0.0300 | 100 | 80-120 | |
| 4-Bromofluorobenzene | 0.0264 | 0.0300 | 88 | 80-120 | |

Lab Batch #: 3032813

Sample: 567629-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/08/17 23:28

SURROGATE RECOVERY STUDY

| TPH by Texas1005 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| o-Terphenyl | 49.4 | 50.0 | 99 | 70-130 | |
| 1-Chlorooctane | 106 | 99.9 | 106 | 70-130 | |

Lab Batch #: 3032942

Sample: 567976-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/10/17 08:01

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0283 | 0.0300 | 94 | 80-120 | |
| 4-Bromofluorobenzene | 0.0277 | 0.0300 | 92 | 80-120 | |

Lab Batch #: 3032688

Sample: 567702-007 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/08/17 10:29

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0280 | 0.0300 | 93 | 80-120 | |
| 4-Bromofluorobenzene | 0.0289 | 0.0300 | 96 | 80-120 | |

Lab Batch #: 3032813

Sample: 567629-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/08/17 23:50

SURROGATE RECOVERY STUDY

| TPH by Texas1005 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| o-Terphenyl | 47.3 | 50.0 | 95 | 70-130 | |
| 1-Chlorooctane | 105 | 100 | 105 | 70-130 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Rusty Anchor 7 Federal Com 1H

Work Orders : 567704,

Lab Batch #: 3032942

Sample: 567976-002 SD / MSD

Project ID: 212C-MD-01014

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/10/17 08:20

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-----------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| | | | | | |
| 1,4-Difluorobenzene | 0.0278 | 0.0300 | 93 | 80-120 | |
| 4-Bromofluorobenzene | 0.0252 | 0.0300 | 84 | 80-120 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Rusty Anchor 7 Federal Com 1H

Work Order #: 567704

Project ID: 212C-MD-01014

Analyst: ALJ

Date Prepared: 11/08/2017

Date Analyzed: 11/08/2017

Lab Batch ID: 3032688

Sample: 7634017-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-------------------|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | | | | | | | | | | | |
| Benzene | <0.00199 | 0.0994 | 0.0834 | 84 | 0.0998 | 0.0866 | 87 | 4 | 70-130 | 35 | |
| Toluene | <0.00199 | 0.0994 | 0.0820 | 82 | 0.0998 | 0.0864 | 87 | 5 | 70-130 | 35 | |
| Ethylbenzene | <0.00199 | 0.0994 | 0.0853 | 86 | 0.0998 | 0.0873 | 87 | 2 | 71-129 | 35 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.165 | 83 | 0.200 | 0.170 | 85 | 3 | 70-135 | 35 | |
| o-Xylene | <0.00199 | 0.0994 | 0.0838 | 84 | 0.0998 | 0.0849 | 85 | 1 | 71-133 | 35 | |

Analyst: ALJ

Date Prepared: 11/10/2017

Date Analyzed: 11/10/2017

Lab Batch ID: 3032942

Sample: 7634163-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-------------------|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | | | | | | | | | | | |
| Benzene | <0.00199 | 0.0996 | 0.0917 | 92 | 0.100 | 0.0949 | 95 | 3 | 70-130 | 35 | |
| Toluene | <0.00199 | 0.0996 | 0.0904 | 91 | 0.100 | 0.0939 | 94 | 4 | 70-130 | 35 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0945 | 95 | 0.100 | 0.0982 | 98 | 4 | 71-129 | 35 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.180 | 90 | 0.200 | 0.191 | 96 | 6 | 70-135 | 35 | |
| o-Xylene | <0.00199 | 0.0996 | 0.0907 | 91 | 0.100 | 0.0960 | 96 | 6 | 71-133 | 35 | |

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Rusty Anchor 7 Federal Com 1H

Work Order #: 567704

Project ID: 212C-MD-01014

Analyst: MNV

Date Prepared: 11/10/2017

Date Analyzed: 11/10/2017

Lab Batch ID: 3033074

Sample: 7634184-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| Inorganic Anions by EPA 300/300.1 | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-----------------------------------|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | | | | | | | | | | | |
| Chloride | <5.00 | 250 | 253 | 101 | 250 | 253 | 101 | 0 | 90-110 | 20 | |

Analyst: MNV

Date Prepared: 11/10/2017

Date Analyzed: 11/10/2017

Lab Batch ID: 3033077

Sample: 7634186-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| Inorganic Anions by EPA 300/300.1 | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-----------------------------------|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | | | | | | | | | | | |
| Chloride | <5.00 | 250 | 275 | 110 | 250 | 256 | 102 | 7 | 90-110 | 20 | |

Analyst: ARM

Date Prepared: 11/08/2017

Date Analyzed: 11/08/2017

Lab Batch ID: 3032813

Sample: 7634080-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| TPH by Texas1005 | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|----------------------------|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | | | | | | | | | | | |
| C6-C12 Range Hydrocarbons | <25.0 | 1000 | 864 | 86 | 1000 | 993 | 99 | 14 | 75-125 | 25 | |
| C12-C28 Range Hydrocarbons | <25.0 | 1000 | 912 | 91 | 1000 | 1040 | 104 | 13 | 75-125 | 25 | |

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Rusty Anchor 7 Federal Com 1H

Work Order #: 567704

Project ID: 212C-MD-01014

Lab Batch ID: 3032688

QC- Sample ID: 567702-007 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/08/2017

Date Prepared: 11/08/2017

Analyst: ALJ

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-------------------------------|-----------------------------------|-----------------------|--------------------------------|-------------------------------|-----------------------|--|-----------------------------|----------|-------------------------|---------------------------|------|
| Benzene | <0.00202 | 0.101 | 0.127 | 126 | 0.100 | 0.120 | 120 | 6 | 70-130 | 35 | |
| Toluene | <0.00202 | 0.101 | 0.102 | 101 | 0.100 | 0.0972 | 97 | 5 | 70-130 | 35 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.0872 | 86 | 0.100 | 0.0823 | 82 | 6 | 71-129 | 35 | |
| m,p-Xylenes | <0.00404 | 0.202 | 0.170 | 84 | 0.201 | 0.162 | 81 | 5 | 70-135 | 35 | |
| o-Xylene | <0.00202 | 0.101 | 0.0805 | 80 | 0.100 | 0.0763 | 76 | 5 | 71-133 | 35 | |

Lab Batch ID: 3032942

QC- Sample ID: 567976-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/10/2017

Date Prepared: 11/10/2017

Analyst: ALJ

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-------------------------------|-----------------------------------|-----------------------|--------------------------------|-------------------------------|-----------------------|--|-----------------------------|----------|-------------------------|---------------------------|------|
| Benzene | <0.00202 | 0.101 | 0.115 | 114 | 0.100 | 0.123 | 123 | 7 | 70-130 | 35 | |
| Toluene | <0.00202 | 0.101 | 0.0997 | 99 | 0.100 | 0.110 | 110 | 10 | 70-130 | 35 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.0907 | 90 | 0.100 | 0.0984 | 98 | 8 | 71-129 | 35 | |
| m,p-Xylenes | <0.00404 | 0.202 | 0.178 | 88 | 0.201 | 0.194 | 97 | 9 | 70-135 | 35 | |
| o-Xylene | <0.00202 | 0.101 | 0.0841 | 83 | 0.100 | 0.0897 | 90 | 6 | 71-133 | 35 | |

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Rusty Anchor 7 Federal Com 1H

Work Order #: 567704

Project ID: 212C-MD-01014

Lab Batch ID: 3033074

QC- Sample ID: 567625-005 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/10/2017

Date Prepared: 11/10/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| Inorganic Anions by EPA 300/300.1 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|---|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| Chloride | 33.6 | 250 | 297 | 105 | 250 | 298 | 106 | 0 | 90-110 | 20 | |

Lab Batch ID: 3033074

QC- Sample ID: 567630-005 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/10/2017

Date Prepared: 11/10/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| Inorganic Anions by EPA 300/300.1 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|---|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| Chloride | 5.71 | 246 | 267 | 106 | 246 | 268 | 107 | 0 | 90-110 | 20 | |

Lab Batch ID: 3033077

QC- Sample ID: 567704-020 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/10/2017

Date Prepared: 11/10/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| Inorganic Anions by EPA 300/300.1 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|---|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| Chloride | 517 | 248 | 734 | 88 | 248 | 735 | 88 | 0 | 90-110 | 20 | X |

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Rusty Anchor 7 Federal Com 1H

Work Order #: 567704

Project ID: 212C-MD-01014

Lab Batch ID: 3033077

QC- Sample ID: 567704-023 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/10/2017

Date Prepared: 11/10/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| Inorganic Anions by EPA 300/300.1 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|---|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| Chloride | 30.2 | 249 | 296 | 107 | 249 | 298 | 108 | 1 | 90-110 | 20 | |

Lab Batch ID: 3032813

QC- Sample ID: 567629-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/08/2017

Date Prepared: 11/08/2017

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| TPH by Texas1005 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|------------------------------|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| C6-C12 Range Hydrocarbons | <25.0 | 999 | 960 | 96 | 1000 | 926 | 93 | 4 | 75-125 | 25 | |
| C12-C28 Range Hydrocarbons | <25.0 | 999 | 994 | 99 | 1000 | 964 | 96 | 3 | 75-125 | 25 | |

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

567704

Client Name: Marathon Site Manager: Ike Tavarez

Project Name:

Rusty Anchor 7 Federal Com 1H

Project Location:

Lea County, New Mexico

Project #:

212C-MD-01014

Invoice to:

Tetra Tech

Receiving Laboratory:

Xenco Midland TX

Sampler Signature:

Mike Carmona

Comments:

If TPH exceeds 5,000 mg/kg, Benzene exceeds 10 mg/kg, or Total BTEX exceeds 50 mg/kg run deeper samples.

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING | | MATRIX | | | | | | # CONTAINERS | FILTERED (Y/N) | ANALYSIS REQUEST (Circle or Specify Method No.) |
|-------------------------|-------------------------|-----------|------|--------|------|---------------------|------------------|-----|------|--------------|----------------|--|
| | | DATE | TIME | WATER | SOIL | PRESERVATIVE METHOD | | | | | | |
| | | | | | | HCL | HNO ₃ | ICE | None | | | |
| | Trench #1 (0-1') 2-3BEB | 11/1/2017 | | X | | X | | | | 1 | N | BTEX 8021B BTEX 8260B |
| | Trench #1 (1') 2-3BEB | 11/1/2017 | | X | | X | | | | 1 | N | TPH TX1005 (Ext to C35) |
| | Trench #1 (2') 2-3BEB | 11/1/2017 | | X | | X | | | | 1 | N | TPH 8015M (GRO - DRO - ORO - MRO) |
| | Trench #1 (4') 2-3BEB | 11/1/2017 | | X | | X | | | | 1 | N | PAH 8270C |
| | Trench #1 (6') 2-3BEB | 11/1/2017 | | X | | X | | | | 1 | N | Total Metals Ag As Ba Cd Cr Pb Se Hg |
| | Trench #1 (8') 2-3BEB | 11/1/2017 | | X | | X | | | | 1 | N | TCLP Metals Ag As Ba Cd Cr Pb Se Hg |
| | Trench #1 (10) 2-3BEB | 11/1/2017 | | X | | X | | | | 1 | N | TCLP Volatiles |
| | Trench #2 (0-1') 2-3BEB | 11/1/2017 | | X | | X | | | | 1 | N | TCLP Semi Volatiles |
| | Trench #2 (1') 2-3BEB | 11/1/2017 | | X | | X | | | | 1 | N | RCI |
| | Trench #2 (2) 2-3BEB | 11/1/2017 | | X | | X | | | | 1 | N | GC/MS Vol. 8260B / 624 |
| | | | | | | | | | | | | GC/MS Semi. Vol. 8270C/625 |
| | | | | | | | | | | | | PCB's 8082 / 608 |
| | | | | | | | | | | | | NORM |
| | | | | | | | | | | | | PLM (Asbestos) |
| | | | | | | | | | | | | Chloride |
| | | | | | | | | | | | | Chloride Sulfate TDS |
| | | | | | | | | | | | | General Water Chemistry (see attached list) |
| | | | | | | | | | | | | Anion/Cation Balance |
| | | | | | | | | | | | | Hold |

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

ORIGINAL COPY

Temp: 2.2

IR ID: R-8

CF: (0-6: -0.2°C)

(6-23: +0.2°C)

Corrected Temp: 2

Original HAND DELIVERED FEDEX UPS Tracking #:

LAB USE ONLY

REMARKS:

STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

567704

Client Name:

Marathon

Site Manager:

Ike Tavaraz

Project Name:

Rusby Anchor 7 Federal Com 1H

Project Location:
(county, state)

Lea County, New Mexico

Project #:

212C-MD-01014

Invoice to:

Tetra Tech, Inc.

Receiving Laboratory:

Xenco Midland Tx

Sampler Signature:

Mike Carmona

Comments:

If TPH exceeds 5,000 mg/kg, Benzene exceeds 10 mg/kg, or Total BTEX exceeds 50 mg/kg run deeper samples.

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING | | MATRIX | | | | | | PRESERVATIVE METHOD | | # CONTAINERS | FILTERED (Y/N) | LAB USE ONLY | REMARKS: | |
|-------------------------|--------------------------|-----------|------|--------|------|-----|------------------|-----|------|---------------------|--|--------------|----------------|--------------|----------|--|
| | | DATE | TIME | WATER | SOIL | HCL | HNO ₃ | ICE | None | | | | | | | |
| | | | | | | | | | | YEAR: 2017 | | | | | | |
| | Trench #2 (4) 2-3'BEB | 11/1/2017 | | X | | | | X | | | | 1 | N | | | |
| | Trench #2 (6) 2-3'BEB | 11/1/2017 | | X | | | | X | | | | 1 | N | | | |
| | Trench #2 (8) 2-3'BEB | 11/1/2017 | | X | | | | X | | | | 1 | N | | | |
| | Trench #2 (10) 2-3'BEB | 11/1/2017 | | X | | | | X | | | | 1 | N | | | |
| | Trench #3 (0-1') 2-3'BEB | 11/1/2017 | | X | | | | X | | | | 1 | N | | | |
| | Trench #3 (1') 2-3'BEB | 11/1/2017 | | X | | | | X | | | | 1 | N | | | |
| | Trench #3 (2) 2-3'BEB | 11/1/2017 | | X | | | | X | | | | 1 | N | | | |
| | Trench #3 (4) 2-3'BEB | 11/1/2017 | | X | | | | X | | | | 1 | N | | | |
| | Trench #3 (6) 2-3'BEB | 11/1/2017 | | X | | | | X | | | | 1 | N | | | |
| | Trench #3 (8) 2-3'BEB | 11/1/2017 | | X | | | | X | | | | 1 | N | | | |

ANALYSIS REQUEST

(Circle or Specify Method No.)

Hold

Final 1.000

Page 24 of 26

Relinquished by:

Date: Time:

Received by:

Date: Time:

Sample Temperature

Special Report Limits or TRRP Report

Rush Charges Authorized

RUSH: Same Day 24 hr 48 hr 72 hr

STANDARD

REMARKS:

LAB USE ONLY

ORIGINAL COPY

Temp: 2.2
CF: (0-6: -0.2°C)
(6-23: +0.2°C)

IR ID: R-8

D DELIVERED FEDEX UPS Tracking #:

Corrected Temp: 2



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

Date/ Time Received: 11/07/2017 03:56:00 PM

Work Order #: 567704

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | 2 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | No |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

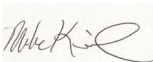
Checklist completed by:



Jessica Kramer

Date: 11/08/2017

Checklist reviewed by:



Mike Kimmel

Date: 11/11/2017