



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 26, 2016

R T HICKS CONSULTANTS

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ASAU TRUNK LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/23/16 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

R T HICKS CONSULTANTS
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

| | | | |
|-------------------|-------------------------|---------------------|----------------|
| Received: | 09/23/2016 | Sampling Date: | 09/21/2016 |
| Reported: | 09/26/2016 | Sampling Type: | Soil |
| Project Name: | ASAU TRUNK LINE RELEASE | Sampling Condition: | ** (See Notes) |
| Project Number: | 30.015.0028N | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA | | |

Sample ID: S-13 6' DEEP BOTTOM (H602140-01)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.26 | 113 | 2.00 | 1.18 | |
| Toluene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.30 | 115 | 2.00 | 1.47 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.20 | 110 | 2.00 | 1.07 | |
| Total Xylenes* | <0.150 | 0.150 | 09/25/2016 | ND | 6.63 | 110 | 6.00 | 1.11 | |
| Total BTEX | <0.300 | 0.300 | 09/25/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 896 | 16.0 | 09/23/2016 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 09/24/2016 | ND | 199 | 99.4 | 200 | 2.82 | |
| DRO >C10-C28 | <10.0 | 10.0 | 09/24/2016 | ND | 212 | 106 | 200 | 5.31 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 09/24/2016 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.5 % 35-147

Surrogate: 1-Chlorooctadecane 96.5 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 R T HICKS CONSULTANTS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 09/23/2016
 Reported: 09/26/2016
 Project Name: ASAU TRUNK LINE RELEASE
 Project Number: 30.015.0028N
 Project Location: ARTESIA

 Sampling Date: 09/21/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-14 S. SIDEWALL 5' BGS (H602140-02)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.26 | 113 | 2.00 | 1.18 | |
| Toluene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.30 | 115 | 2.00 | 1.47 | |
| Ethylbenzene* | 0.069 | 0.050 | 09/25/2016 | ND | 2.20 | 110 | 2.00 | 1.07 | |
| Total Xylenes* | 0.190 | 0.150 | 09/25/2016 | ND | 6.63 | 110 | 6.00 | 1.11 | |
| Total BTEx | <0.300 | 0.300 | 09/25/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 416 | 16.0 | 09/23/2016 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 09/24/2016 | ND | 199 | 99.4 | 200 | 2.82 | |
| DRO >C10-C28 | <10.0 | 10.0 | 09/24/2016 | ND | 212 | 106 | 200 | 5.31 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 09/24/2016 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.4 % 35-147

Surrogate: 1-Chlorooctadecane 95.9 % 28-171

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

R T HICKS CONSULTANTS
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 09/23/2016
Reported: 09/26/2016
Project Name: ASAU TRUNK LINE RELEASE
Project Number: 30.015.0028N
Project Location: ARTESIA

Sampling Date: 09/21/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-15 W. SIDEWALL 5' BGS (H602140-03)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.26 | 113 | 2.00 | 1.18 | | |
| Toluene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.30 | 115 | 2.00 | 1.47 | | |
| Ethylbenzene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.20 | 110 | 2.00 | 1.07 | | |
| Total Xylenes* | <0.150 | 0.150 | 09/25/2016 | ND | 6.63 | 110 | 6.00 | 1.11 | | |
| Total BTEX | <0.300 | 0.300 | 09/25/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 09/23/2016 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 09/24/2016 | ND | 199 | 99.4 | 200 | 2.82 | |
| DRO >C10-C28 | 19.9 | 10.0 | 09/24/2016 | ND | 212 | 106 | 200 | 5.31 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 09/24/2016 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.8 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

R T HICKS CONSULTANTS
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 09/23/2016
Reported: 09/26/2016
Project Name: ASAU TRUNK LINE RELEASE
Project Number: 30.015.0028N
Project Location: ARTESIA

Sampling Date: 09/21/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-16 E. SIDEWALL 5' BGS (H602140-04)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.26 | 113 | 2.00 | 1.18 | |
| Toluene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.30 | 115 | 2.00 | 1.47 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/25/2016 | ND | 2.20 | 110 | 2.00 | 1.07 | |
| Total Xylenes* | <0.150 | 0.150 | 09/25/2016 | ND | 6.63 | 110 | 6.00 | 1.11 | |
| Total BTX | <0.300 | 0.300 | 09/25/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 608 | 16.0 | 09/23/2016 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 09/24/2016 | ND | 199 | 99.4 | 200 | 2.82 | |
| DRO >C10-C28 | <10.0 | 10.0 | 09/24/2016 | ND | 212 | 106 | 200 | 5.31 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 09/24/2016 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.3 % 35-147

Surrogate: 1-Chlorooctadecane 94.2 % 28-171

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-------|--|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-5326