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26 August 2021

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: COGCC Table 915-1 GW

Enclosed are the results of analyses for samples received by the laboratory on 08/12/21 14:30. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-21-12

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-21-14



| | | |
|-----------------------|--|------------------|
| Cottonwood Consulting | Project: COGCC Table 915-1 GW | |
| PO Box 1653 | Project Name / Number: Underwood Ditch Well Plugging Project | Reported: |
| Durango CO, 81302 | Project Manager: Kyle Siesser | 08/26/21 06:30 |

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received | Notes |
|-----------|---------------|--------|----------------|----------------|-------|
| WS01 | 2108125-01 | Water | 08/12/21 10:46 | 08/12/21 14:30 | |
| WS02 | 2108125-02 | Water | 08/12/21 11:18 | 08/12/21 14:30 | |

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Debbie Zufelt, Reports Manager

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| | | |
|---|--|-----------------------------|
| Cottonwood Consulting PO Box 1653 Durango CO, 81302 | Project: COGCC Table 915-1 GW Project Name / Number: Underwood Ditch Well Plugging Project Project Manager: Kyle Siesser | Reported: 08/26/21 06:30 |
|---|--|-----------------------------|

WS01

2108125-01 (Surface Water)

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|

General Chemistry

| | | | | | | | | | |
|-------------------------|------|------|--------|------|---|----------------|----------|--|-----|
| Chloride* | 5.57 | 1.00 | 0.0422 | mg/L | 1 | 08/23/21 14:38 | EPA300.0 | | AES |
| Total Dissolved Solids* | 480 | 10.0 | | mg/L | 1 | 08/17/21 16:30 | EPA160.1 | | VJW |
| Sulfate* | 70.4 | 5.00 | 0.762 | mg/L | 5 | 08/24/21 03:19 | EPA300.0 | | AES |

Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

| | | | | | | | | | |
|-------------------------|---------|--------|---------|------|---|----------------|-------|--|----|
| Methyl t-Butyl Ether* | <0.001 | 0.001 | 0.0003 | mg/L | 1 | 08/20/21 17:06 | 8260B | | MS |
| Benzene* | <0.0005 | 0.0005 | 0.00003 | mg/L | 1 | 08/20/21 17:06 | 8260B | | MS |
| Toluene* | <0.0005 | 0.0005 | 0.00004 | mg/L | 1 | 08/20/21 17:06 | 8260B | | MS |
| Ethylbenzene* | <0.0005 | 0.0005 | 0.00004 | mg/L | 1 | 08/20/21 17:06 | 8260B | | MS |
| m+p - Xylene* | <0.001 | 0.001 | 0.00002 | mg/L | 1 | 08/20/21 17:06 | 8260B | | MS |
| o-Xylene* | <0.0005 | 0.0005 | 0.00003 | mg/L | 1 | 08/20/21 17:06 | 8260B | | MS |
| Total Xylenes* | <0.0005 | 0.0005 | 0.00005 | mg/L | 1 | 08/20/21 17:06 | 8260B | | MS |
| 1,3,5-Trimethylbenzene* | <0.0005 | 0.0005 | 0.00003 | mg/L | 1 | 08/20/21 17:06 | 8260B | | MS |
| 1,2,4-Trimethylbenzene* | <0.0005 | 0.0005 | 0.00003 | mg/L | 1 | 08/20/21 17:06 | 8260B | | MS |
| Naphthalene* | <0.0005 | 0.0005 | 0.00004 | mg/L | 1 | 08/20/21 17:06 | 8260B | | MS |

| | | | | | | | | | |
|---------------------------------|--|--|--------|----------|--|-------------------|-------|--|----|
| Surrogate: Dibromofluoromethane | | | 113 % | 82.4-141 | | 08/20/21 17:06 | 8260B | | MS |
| Surrogate: Toluene-d8 | | | 99.5 % | 87.1-110 | | 08/20/21 17:06 | 8260B | | MS |
| Surrogate: 4-Bromofluorobenzene | | | 86.0 % | 76.4-114 | | 08/20/21 17:06 | 8260B | | MS |

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| | | |
|---|--|-----------------------------|
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|---|--|-----------------------------|

WS02

2108125-02 (Surface Water)

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|

General Chemistry

| | | | | | | | | | |
|-------------------------|------|------|--------|------|---|----------------|----------|--|-----|
| Chloride* | 5.82 | 1.00 | 0.0422 | mg/L | 1 | 08/23/21 14:58 | EPA300.0 | | AES |
| Total Dissolved Solids* | 440 | 10.0 | | mg/L | 1 | 08/17/21 16:30 | EPA160.1 | | VJW |
| Sulfate* | 65.1 | 5.00 | 0.762 | mg/L | 5 | 08/24/21 03:38 | EPA300.0 | | AES |

Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

| | | | | | | | | | |
|-------------------------|---------|--------|---------|------|---|----------------|-------|--|----|
| Methyl t-Butyl Ether* | <0.001 | 0.001 | 0.0003 | mg/L | 1 | 08/20/21 17:27 | 8260B | | MS |
| Benzene* | <0.0005 | 0.0005 | 0.00003 | mg/L | 1 | 08/20/21 17:27 | 8260B | | MS |
| Toluene* | <0.0005 | 0.0005 | 0.00004 | mg/L | 1 | 08/20/21 17:27 | 8260B | | MS |
| Ethylbenzene* | <0.0005 | 0.0005 | 0.00004 | mg/L | 1 | 08/20/21 17:27 | 8260B | | MS |
| m+p - Xylene* | <0.001 | 0.001 | 0.00002 | mg/L | 1 | 08/20/21 17:27 | 8260B | | MS |
| o-Xylene* | <0.0005 | 0.0005 | 0.00003 | mg/L | 1 | 08/20/21 17:27 | 8260B | | MS |
| Total Xylenes* | <0.0005 | 0.0005 | 0.00005 | mg/L | 1 | 08/20/21 17:27 | 8260B | | MS |
| 1,3,5-Trimethylbenzene* | <0.0005 | 0.0005 | 0.00003 | mg/L | 1 | 08/20/21 17:27 | 8260B | | MS |
| 1,2,4-Trimethylbenzene* | <0.0005 | 0.0005 | 0.00003 | mg/L | 1 | 08/20/21 17:27 | 8260B | | MS |
| Naphthalene* | <0.0005 | 0.0005 | 0.00004 | mg/L | 1 | 08/20/21 17:27 | 8260B | | MS |

| | | | | | | | | | |
|---------------------------------|--------|----------|--|--|--|----------------|-------|--|----|
| Surrogate: Dibromofluoromethane | 114 % | 82.4-141 | | | | 08/20/21 17:27 | 8260B | | MS |
| Surrogate: Toluene-d8 | 100 % | 87.1-110 | | | | 08/20/21 17:27 | 8260B | | MS |
| Surrogate: 4-Bromofluorobenzene | 89.6 % | 76.4-114 | | | | 08/20/21 17:27 | 8260B | | MS |

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|---|--|-----------------------------|

General Chemistry - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---------------|------|-------------|-------|-----------|-------|
| Batch B211889 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (B211889-BLK1) Prepared & Analyzed: 08/17/21 | | | | | | | | | | |
| Total Dissolved Solids | ND | 10.0 | mg/L | | | | | | | |
| Duplicate (B211889-DUP1) Source: 2108153-01 Prepared & Analyzed: 08/17/21 | | | | | | | | | | |
| Total Dissolved Solids | 2320 | 10.0 | mg/L | | 2330 | | | 0.643 | 20 | |
| Reference (B211889-SRM1) Prepared & Analyzed: 08/17/21 | | | | | | | | | | |
| Total Dissolved Solids | 390 | 10.0 | mg/L | 380 | | 103 | 85-115 | | | |
| Batch B211937 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (B211937-BLK1) Prepared & Analyzed: 08/23/21 | | | | | | | | | | |
| Chloride | ND | 1.00 | mg/L | | | | | | | |
| Sulfate | ND | 1.00 | mg/L | | | | | | | |
| LCS (B211937-BS1) Prepared & Analyzed: 08/23/21 | | | | | | | | | | |
| Chloride | 24.6 | 1.00 | mg/L | 25.0 | | 98.3 | 90-110 | | | |
| Sulfate | 24.3 | 1.00 | mg/L | 25.0 | | 97.2 | 90-110 | | | |
| LCS Dup (B211937-BSD1) Prepared & Analyzed: 08/23/21 | | | | | | | | | | |
| Chloride | 24.3 | 1.00 | mg/L | 25.0 | | 97.3 | 90-110 | 0.977 | 20 | |
| Sulfate | 24.1 | 1.00 | mg/L | 25.0 | | 96.3 | 90-110 | 0.984 | 20 | |

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| PO Box 1653 | Project Name / Number: Underwood Ditch Well Plugging Project | Reported: |
| Durango CO, 81302 | Project Manager: Kyle Siesser | 08/26/21 06:30 |

VOLATILES BY GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1081915 - Volatiles

Blank (1081915-BLK1)

Prepared: 08/19/21 Analyzed: 08/20/21

| | | | | | | | | | | |
|--|---------------|--------|-------------|---------------|--|-------------|-----------------|--|--|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,1-Dichloroethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,1-Dichloroethene | ND | 0.0005 | mg/L | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.0005 | mg/L | | | | | | | |
| 1,2-Dibromoethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0005 | mg/L | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0005 | mg/L | | | | | | | |
| 1,4 Dichlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,4-Dioxane | ND | 0.100 | mg/L | | | | | | | |
| 1,2,3-trichloropropane | ND | 0.0005 | mg/L | | | | | | | |
| 2,2-Dichloropropane | ND | 0.0005 | mg/L | | | | | | | |
| 2-Butanone | ND | 0.002 | mg/L | | | | | | | |
| 2-Chlorotoluene | ND | 0.0005 | mg/L | | | | | | | |
| 2-Hexanone | ND | 0.001 | mg/L | | | | | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0223</i> | | <i>mg/L</i> | <i>0.0250</i> | | <i>89.0</i> | <i>76.4-114</i> | | | |
| 4-Chlorotoluene | ND | 0.0005 | mg/L | | | | | | | |
| 4-Methyl-2-pentanone | ND | 0.001 | mg/L | | | | | | | |
| Acetone | ND | 0.010 | mg/L | | | | | | | |
| Acrolein | ND | 0.005 | mg/L | | | | | | | |
| Acrylonitrile | ND | 0.002 | mg/L | | | | | | | |
| Benzene | ND | 0.0005 | mg/L | | | | | | | |
| Bromobenzene | ND | 0.0005 | mg/L | | | | | | | |
| Bromochloromethane | ND | 0.0005 | mg/L | | | | | | | |
| Bromodichloromethane | ND | 0.0005 | mg/L | | | | | | | |
| Bromoform | ND | 0.0005 | mg/L | | | | | | | |
| Bromomethane | ND | 0.0005 | mg/L | | | | | | | |
| Carbon disulfide | ND | 0.001 | mg/L | | | | | | | |
| Carbon tetrachloride | ND | 0.0005 | mg/L | | | | | | | |

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| Cottonwood Consulting | Project: COGCC Table 915-1 GW | |
| PO Box 1653 | Project Name / Number: Underwood Ditch Well Plugging Project | Reported: |
| Durango CO, 81302 | Project Manager: Kyle Siesser | 08/26/21 06:30 |

VOLATILES BY GC/MS - Quality Control
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1081915 - Volatiles (Continued)

Blank (1081915-BLK1) (Continued)

Prepared: 08/19/21 Analyzed: 08/20/21

| | | | | | | | | | | |
|--|--------|--------|------|--------|--|------|----------|--|--|--|
| Chlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| Chloroethane | ND | 0.0005 | mg/L | | | | | | | |
| Chloroform | ND | 0.0005 | mg/L | | | | | | | |
| Chloromethane | ND | 0.0005 | mg/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.0005 | mg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0005 | mg/L | | | | | | | |
| Dibromochloromethane | ND | 0.0005 | mg/L | | | | | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 0.0277 | | mg/L | 0.0250 | | 111 | 82.4-141 | | | |
| Dibromomethane | ND | 0.0005 | mg/L | | | | | | | |
| Dichlorodifluoromethane | ND | 0.0005 | mg/L | | | | | | | |
| Ethylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.0005 | mg/L | | | | | | | |
| Iodomethane | ND | 0.001 | mg/L | | | | | | | |
| Isopropylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| m+p - Xylene | ND | 0.001 | mg/L | | | | | | | |
| Methyl t-Butyl Ether | ND | 0.001 | mg/L | | | | | | | |
| Methylene chloride | ND | 0.0005 | mg/L | | | | | | | |
| Naphthalene | ND | 0.0005 | mg/L | | | | | | | |
| n-Butylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| n-Propylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| o-Xylene | ND | 0.0005 | mg/L | | | | | | | |
| p-Isopropyltoluene | ND | 0.0005 | mg/L | | | | | | | |
| sec-Butylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| Styrene | ND | 0.0005 | mg/L | | | | | | | |
| tert-Butylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| Tetrachloroethene | ND | 0.0005 | mg/L | | | | | | | |
| Toluene | ND | 0.0005 | mg/L | | | | | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0249 | | mg/L | 0.0250 | | 99.7 | 87.1-110 | | | |
| Total Xylenes | ND | 0.0005 | mg/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.0005 | mg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.0005 | mg/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 0.010 | mg/L | | | | | | | |
| Trichloroethene | ND | 0.0005 | mg/L | | | | | | | |
| Trichlorofluoromethane | ND | 0.0005 | mg/L | | | | | | | |
| Vinyl acetate | ND | 0.0005 | mg/L | | | | | | | |
| Vinyl chloride | ND | 0.0005 | mg/L | | | | | | | |

LCS (1081915-BS1)

Prepared: 08/19/21 Analyzed: 08/20/21

| | | | | | | | | | | |
|---------------------------|-------|--------|------|--------|--|-----|----------|--|--|--|
| 1,1,1,2-Tetrachloroethane | 0.022 | 0.0005 | mg/L | 0.0200 | | 108 | 77.2-132 | | | |
|---------------------------|-------|--------|------|--------|--|-----|----------|--|--|--|

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| Durango CO, 81302 | Project Manager: Kyle Siesser | 08/26/21 06:30 |

VOLATILES BY GC/MS - Quality Control
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1081915 - Volatiles (Continued)

LCS (1081915-BS1) (Continued)

Prepared: 08/19/21 Analyzed: 08/20/21

| | | | | | | | | | | |
|--|---------------|--------|------|---------------|--|-------------|-----------------|--|--|-----|
| 1,1,1-Trichloroethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 84.9-121 | | | |
| 1,1,2,2-Tetrachloroethane | 0.017 | 0.0005 | mg/L | 0.0200 | | 84.2 | 83-118 | | | |
| 1,1,2-Trichloroethane | 0.018 | 0.0005 | mg/L | 0.0200 | | 89.5 | 85.8-121 | | | |
| 1,1-Dichloroethane | 0.019 | 0.0005 | mg/L | 0.0200 | | 97.0 | 82.3-134 | | | |
| 1,1-Dichloroethene | 0.018 | 0.0005 | mg/L | 0.0200 | | 90.6 | 69.4-135 | | | |
| 1,1-Dichloropropene | 0.020 | 0.0005 | mg/L | 0.0200 | | 99.2 | 79-126 | | | |
| 1,2,3-Trichlorobenzene | 0.018 | 0.0005 | mg/L | 0.0200 | | 92.4 | 66-144 | | | |
| 1,2,4-Trichlorobenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.0 | 66-139 | | | |
| 1,2,4-Trimethylbenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.3 | 85.2-120 | | | |
| 1,2-Dibromo-3-chloropropane | 0.015 | 0.0005 | mg/L | 0.0200 | | 73.4 | 85.9-113 | | | BS2 |
| 1,2-Dibromoethane | 0.017 | 0.0005 | mg/L | 0.0200 | | 87.3 | 84.9-118 | | | |
| 1,2-Dichlorobenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.2 | 85.1-112 | | | |
| 1,2-Dichloroethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 105 | 80.8-125 | | | |
| 1,2-Dichloropropane | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 83.2-124 | | | |
| 1,3,5-Trimethylbenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.9 | 84.3-120 | | | |
| 1,3-Dichlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 99.2 | 84.9-110 | | | |
| 1,3-Dichloropropane | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.4 | 88.8-117 | | | |
| 1,4 Dichlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 97.5 | 80.9-112 | | | |
| 1,4-Dioxane | 1.43 | 0.100 | mg/L | 2.00 | | 71.6 | -99.5-195 | | | |
| 1,2,3-trichloropropane | 0.019 | 0.0005 | mg/L | 0.0200 | | 93.8 | 6.02-213 | | | |
| 2,2-Dichloropropane | 0.017 | 0.0005 | mg/L | 0.0200 | | 83.4 | 59.7-146 | | | |
| 2-Butanone | 0.033 | 0.002 | mg/L | 0.0400 | | 81.8 | 69.2-152 | | | |
| 2-Chlorotoluene | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.0 | 84.7-117 | | | |
| 2-Hexanone | 0.027 | 0.001 | mg/L | 0.0400 | | 67.4 | 66-142 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0247</i> | | mg/L | <i>0.0250</i> | | <i>98.7</i> | <i>76.4-114</i> | | | |
| 4-Chlorotoluene | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 81.8-122 | | | |
| 4-Methyl-2-pentanone | 0.032 | 0.001 | mg/L | 0.0400 | | 81.2 | 75.9-139 | | | |
| Acetone | 0.034 | 0.010 | mg/L | 0.0400 | | 84.2 | 47.7-194 | | | |
| Acrolein | 0.219 | 0.005 | mg/L | 0.200 | | 109 | 46.2-182 | | | |
| Acrylonitrile | 0.032 | 0.002 | mg/L | 0.0400 | | 80.3 | 69.5-152 | | | |
| Benzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 104 | 85.9-114 | | | |
| Bromobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 97.6 | 85.7-113 | | | |
| Bromochloromethane | 0.019 | 0.0005 | mg/L | 0.0200 | | 97.2 | 74.2-140 | | | |
| Bromodichloromethane | 0.023 | 0.0005 | mg/L | 0.0200 | | 113 | 82-126 | | | |
| Bromoform | 0.020 | 0.0005 | mg/L | 0.0200 | | 99.2 | 80.3-140 | | | |
| Bromomethane | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.1 | 69.3-136 | | | |
| Carbon disulfide | 0.044 | 0.001 | mg/L | 0.0400 | | 110 | 74.2-141 | | | |
| Carbon tetrachloride | 0.025 | 0.0005 | mg/L | 0.0200 | | 124 | 85.8-125 | | | |
| Chlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 99.4 | 88.8-112 | | | |

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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| | | |
|-----------------------|--|----------------|
| Cottonwood Consulting | Project: COGCC Table 915-1 GW | |
| PO Box 1653 | Project Name / Number: Underwood Ditch Well Plugging Project | Reported: |
| Durango CO, 81302 | Project Manager: Kyle Siesser | 08/26/21 06:30 |

VOLATILES BY GC/MS - Quality Control
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1081915 - Volatiles (Continued)

LCS (1081915-BS1) (Continued)

Prepared: 08/19/21 Analyzed: 08/20/21

| | | | | | | | | | | |
|--|---------------|--------|------|---------------|--|-------------|-----------------|--|--|--|
| Chloroethane | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.6 | 73.8-135 | | | |
| Chloroform | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.6 | 88.1-124 | | | |
| Chloromethane | 0.022 | 0.0005 | mg/L | 0.0200 | | 108 | 59.9-154 | | | |
| cis-1,2-Dichloroethene | 0.021 | 0.0005 | mg/L | 0.0200 | | 105 | 85.8-117 | | | |
| cis-1,3-Dichloropropene | 0.019 | 0.0005 | mg/L | 0.0200 | | 94.4 | 84.6-125 | | | |
| Dibromochloromethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 88.2-121 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>0.0265</i> | | mg/L | <i>0.0250</i> | | <i>106</i> | <i>82.4-141</i> | | | |
| Dibromomethane | 0.019 | 0.0005 | mg/L | 0.0200 | | 93.6 | 73.5-132 | | | |
| Dichlorodifluoromethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 63.3-132 | | | |
| Ethylbenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.8 | 81.8-127 | | | |
| Hexachlorobutadiene | 0.020 | 0.0005 | mg/L | 0.0200 | | 100 | 52.9-152 | | | |
| Iodomethane | 0.041 | 0.001 | mg/L | 0.0400 | | 102 | 72.5-133 | | | |
| Isopropylbenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 97.0 | 75.7-136 | | | |
| m+p - Xylene | 0.040 | 0.001 | mg/L | 0.0400 | | 98.9 | 72.4-134 | | | |
| Methyl t-Butyl Ether | 0.034 | 0.001 | mg/L | 0.0400 | | 84.2 | 75.3-137 | | | |
| Methylene chloride | 0.023 | 0.0005 | mg/L | 0.0200 | | 114 | 74.8-131 | | | |
| Naphthalene | 0.014 | 0.0005 | mg/L | 0.0200 | | 71.9 | 59.3-140 | | | |
| n-Butylbenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 93.8 | 70.1-136 | | | |
| n-Propylbenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 97.6 | 83-121 | | | |
| o-Xylene | 0.019 | 0.0005 | mg/L | 0.0200 | | 93.6 | 76.2-135 | | | |
| p-Isopropyltoluene | 0.018 | 0.0005 | mg/L | 0.0200 | | 92.4 | 81.8-124 | | | |
| sec-Butylbenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.6 | 78.4-128 | | | |
| Styrene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.3 | 75.7-128 | | | |
| tert-Butylbenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.4 | 90.8-119 | | | |
| Tetrachloroethene | 0.019 | 0.0005 | mg/L | 0.0200 | | 92.8 | 66.8-126 | | | |
| Toluene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.2 | 78.8-121 | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0247</i> | | mg/L | <i>0.0250</i> | | <i>98.8</i> | <i>87.1-110</i> | | | |
| Total Xylenes | 0.058 | 0.0005 | mg/L | 0.0600 | | 97.1 | 74.3-134 | | | |
| trans-1,2-Dichloroethene | 0.019 | 0.0005 | mg/L | 0.0200 | | 93.5 | 80.4-125 | | | |
| trans-1,3-Dichloropropene | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 84-128 | | | |
| trans-1,4-Dichloro-2-butene | 0.058 | 0.010 | mg/L | 0.0400 | | 145 | 18.7-238 | | | |
| Trichloroethene | 0.020 | 0.0005 | mg/L | 0.0200 | | 97.7 | 73.1-117 | | | |
| Trichlorofluoromethane | 0.018 | 0.0005 | mg/L | 0.0200 | | 91.2 | 71.9-138 | | | |
| Vinyl acetate | 0.024 | 0.0005 | mg/L | 0.0200 | | 121 | 39.5-167 | | | |
| Vinyl chloride | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 73.4-137 | | | |

LCS Dup (1081915-BSD1)

Prepared: 08/19/21 Analyzed: 08/20/21

| | | | | | | | | | | |
|---------------------------|-------|--------|------|--------|--|-----|----------|-------|------|--|
| 1,1,1,2-Tetrachloroethane | 0.022 | 0.0005 | mg/L | 0.0200 | | 108 | 77.2-132 | 0.371 | 6.88 | |
| 1,1,1-Trichloroethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 84.9-121 | 0.847 | 7.43 | |

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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| | | |
|-----------------------|--|----------------|
| Cottonwood Consulting | Project: COGCC Table 915-1 GW | |
| PO Box 1653 | Project Name / Number: Underwood Ditch Well Plugging Project | Reported: |
| Durango CO, 81302 | Project Manager: Kyle Siesser | 08/26/21 06:30 |

VOLATILES BY GC/MS - Quality Control
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1081915 - Volatiles (Continued)

LCS Dup (1081915-BSD1) (Continued)

Prepared: 08/19/21 Analyzed: 08/20/21

| | | | | | | | | | | |
|--|---------------|--------|------|---------------|--|-------------|-----------------|-------|------|-------|
| 1,1,2,2-Tetrachloroethane | 0.016 | 0.0005 | mg/L | 0.0200 | | 82.2 | 83-118 | 2.40 | 8.68 | BS2 |
| 1,1,2-Trichloroethane | 0.018 | 0.0005 | mg/L | 0.0200 | | 88.8 | 85.8-121 | 0.673 | 6.82 | |
| 1,1-Dichloroethane | 0.020 | 0.0005 | mg/L | 0.0200 | | 99.2 | 82.3-134 | 2.14 | 4.3 | |
| 1,1-Dichloroethene | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.1 | 69.4-135 | 4.90 | 16.5 | |
| 1,1-Dichloropropene | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 79-126 | 1.65 | 5.47 | |
| 1,2,3-Trichlorobenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 92.9 | 66-144 | 0.486 | 43 | |
| 1,2,4-Trichlorobenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 97.0 | 66-139 | 0.984 | 22.3 | |
| 1,2,4-Trimethylbenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 97.9 | 85.2-120 | 0.408 | 8.94 | |
| 1,2-Dibromo-3-chloropropane | 0.014 | 0.0005 | mg/L | 0.0200 | | 71.4 | 85.9-113 | 2.83 | 15.1 | BS2 |
| 1,2-Dibromoethane | 0.018 | 0.0005 | mg/L | 0.0200 | | 88.8 | 84.9-118 | 1.70 | 5.83 | |
| 1,2-Dichlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 97.7 | 85.1-112 | 1.60 | 8.72 | |
| 1,2-Dichloroethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 80.8-125 | 0.760 | 8.94 | |
| 1,2-Dichloropropane | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 83.2-124 | 0.844 | 5.51 | |
| 1,3,5-Trimethylbenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 97.6 | 84.3-120 | 0.669 | 16.5 | |
| 1,3-Dichlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 102 | 84.9-110 | 2.83 | 9 | |
| 1,3-Dichloropropane | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.2 | 88.8-117 | 0.783 | 6.06 | |
| 1,4 Dichlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.6 | 80.9-112 | 1.07 | 7.71 | |
| 1,4-Dioxane | 1.38 | 0.100 | mg/L | 2.00 | | 68.8 | -99.5-195 | 4.05 | 35.2 | |
| 1,2,3-trichloropropane | 0.017 | 0.0005 | mg/L | 0.0200 | | 85.4 | 6.02-213 | 9.37 | 49.2 | |
| 2,2-Dichloropropane | 0.017 | 0.0005 | mg/L | 0.0200 | | 84.6 | 59.7-146 | 1.37 | 9.62 | |
| 2-Butanone | 0.033 | 0.002 | mg/L | 0.0400 | | 82.8 | 69.2-152 | 1.22 | 14.2 | |
| 2-Chlorotoluene | 0.019 | 0.0005 | mg/L | 0.0200 | | 94.2 | 84.7-117 | 0.898 | 8.62 | |
| 2-Hexanone | 0.027 | 0.001 | mg/L | 0.0400 | | 66.3 | 66-142 | 1.53 | 7.28 | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0243</i> | | mg/L | <i>0.0250</i> | | <i>97.1</i> | <i>76.4-114</i> | | | |
| 4-Chlorotoluene | 0.020 | 0.0005 | mg/L | 0.0200 | | 100 | 81.8-122 | 1.34 | 15.5 | |
| 4-Methyl-2-pentanone | 0.032 | 0.001 | mg/L | 0.0400 | | 80.5 | 75.9-139 | 0.958 | 7.57 | |
| Acetone | 0.033 | 0.010 | mg/L | 0.0400 | | 82.4 | 47.7-194 | 2.16 | 30.5 | |
| Acrolein | 0.207 | 0.005 | mg/L | 0.200 | | 103 | 46.2-182 | 5.83 | 22.4 | |
| Acrylonitrile | 0.033 | 0.002 | mg/L | 0.0400 | | 82.6 | 69.5-152 | 2.76 | 7.62 | |
| Benzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 104 | 85.9-114 | 0.00 | 4.16 | |
| Bromobenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.9 | 85.7-113 | 1.71 | 8.41 | |
| Bromochloromethane | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.2 | 74.2-140 | 0.982 | 5.16 | |
| Bromodichloromethane | 0.023 | 0.0005 | mg/L | 0.0200 | | 113 | 82-126 | 0.487 | 5.36 | |
| Bromoform | 0.019 | 0.0005 | mg/L | 0.0200 | | 94.6 | 80.3-140 | 4.75 | 14.1 | |
| Bromomethane | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.0 | 69.3-136 | 0.153 | 21.5 | |
| Carbon disulfide | 0.043 | 0.001 | mg/L | 0.0400 | | 107 | 74.2-141 | 1.98 | 20.3 | |
| Carbon tetrachloride | 0.022 | 0.0005 | mg/L | 0.0200 | | 108 | 85.8-125 | 14.0 | 11.4 | QR-04 |
| Chlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 100 | 88.8-112 | 0.752 | 5.18 | |
| Chloroethane | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.6 | 73.8-135 | 0.00 | 24.1 | |

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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| | | |
|-----------------------|--|----------------|
| Cottonwood Consulting | Project: COGCC Table 915-1 GW | |
| PO Box 1653 | Project Name / Number: Underwood Ditch Well Plugging Project | Reported: |
| Durango CO, 81302 | Project Manager: Kyle Siesser | 08/26/21 06:30 |

VOLATILES BY GC/MS - Quality Control
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1081915 - Volatiles (Continued)

LCS Dup (1081915-BSD1) (Continued)

Prepared: 08/19/21 Analyzed: 08/20/21

| | | | | | | | | | | |
|--|---------------|--------|------|---------------|--|------------|-----------------|--------|------|--|
| Chloroform | 0.019 | 0.0005 | mg/L | 0.0200 | | 94.3 | 88.1-124 | 1.37 | 5.15 | |
| Chloromethane | 0.022 | 0.0005 | mg/L | 0.0200 | | 110 | 59.9-154 | 1.65 | 27 | |
| cis-1,2-Dichloroethene | 0.022 | 0.0005 | mg/L | 0.0200 | | 108 | 85.8-117 | 2.25 | 5.73 | |
| cis-1,3-Dichloropropene | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.2 | 84.6-125 | 4.00 | 6.09 | |
| Dibromochloromethane | 0.020 | 0.0005 | mg/L | 0.0200 | | 102 | 88.2-121 | 3.31 | 7.24 | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>0.0262</i> | | mg/L | <i>0.0250</i> | | <i>105</i> | <i>82.4-141</i> | | | |
| Dibromomethane | 0.019 | 0.0005 | mg/L | 0.0200 | | 94.0 | 73.5-132 | 0.427 | 5.75 | |
| Dichlorodifluoromethane | 0.022 | 0.0005 | mg/L | 0.0200 | | 109 | 63.3-132 | 2.46 | 22.6 | |
| Ethylbenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 100 | 81.8-127 | 1.26 | 4.83 | |
| Hexachlorobutadiene | 0.020 | 0.0005 | mg/L | 0.0200 | | 102 | 52.9-152 | 1.59 | 18.4 | |
| Iodomethane | 0.042 | 0.001 | mg/L | 0.0400 | | 104 | 72.5-133 | 1.94 | 24.3 | |
| Isopropylbenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.0 | 75.7-136 | 1.08 | 6.25 | |
| m+p - Xylene | 0.040 | 0.001 | mg/L | 0.0400 | | 101 | 72.4-134 | 2.20 | 5.77 | |
| Methyl t-Butyl Ether | 0.034 | 0.001 | mg/L | 0.0400 | | 84.0 | 75.3-137 | 0.178 | 12.8 | |
| Methylene chloride | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 74.8-131 | 6.53 | 19.7 | |
| Naphthalene | 0.014 | 0.0005 | mg/L | 0.0200 | | 71.6 | 59.3-140 | 0.488 | 33.5 | |
| n-Butylbenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.7 | 70.1-136 | 3.04 | 10.1 | |
| n-Propylbenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.7 | 83-121 | 1.12 | 9.09 | |
| o-Xylene | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.4 | 76.2-135 | 1.96 | 6.29 | |
| p-Isopropyltoluene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.0 | 81.8-124 | 3.87 | 9.26 | |
| sec-Butylbenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 97.6 | 78.4-128 | 2.12 | 9.85 | |
| Styrene | 0.019 | 0.0005 | mg/L | 0.0200 | | 97.2 | 75.7-128 | 0.879 | 7.55 | |
| tert-Butylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 90.8-119 | 10.8 | 18.6 | |
| Tetrachloroethene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.9 | 66.8-126 | 4.22 | 6.38 | |
| Toluene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.6 | 78.8-121 | 0.415 | 5.67 | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0250</i> | | mg/L | <i>0.0250</i> | | <i>100</i> | <i>87.1-110</i> | | | |
| Total Xylenes | 0.060 | 0.0005 | mg/L | 0.0600 | | 99.2 | 74.3-134 | 2.12 | 5.83 | |
| trans-1,2-Dichloroethene | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.8 | 80.4-125 | 2.43 | 19.1 | |
| trans-1,3-Dichloropropene | 0.020 | 0.0005 | mg/L | 0.0200 | | 100 | 84-128 | 0.793 | 6.26 | |
| trans-1,4-Dichloro-2-butene | 0.050 | 0.010 | mg/L | 0.0400 | | 124 | 18.7-238 | 15.6 | 92.8 | |
| Trichloroethene | 0.020 | 0.0005 | mg/L | 0.0200 | | 97.5 | 73.1-117 | 0.205 | 4.92 | |
| Trichlorofluoromethane | 0.018 | 0.0005 | mg/L | 0.0200 | | 91.3 | 71.9-138 | 0.0548 | 19.8 | |
| Vinyl acetate | 0.023 | 0.0005 | mg/L | 0.0200 | | 116 | 39.5-167 | 4.02 | 7.84 | |
| Vinyl chloride | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 73.4-137 | 5.09 | 23 | |

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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| | | |
|-----------------------|--|------------------|
| Cottonwood Consulting | Project: COGCC Table 915-1 GW | |
| PO Box 1653 | Project Name / Number: Underwood Ditch Well Plugging Project | Reported: |
| Durango CO, 81302 | Project Manager: Kyle Siesser | 08/26/21 06:30 |

Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- BS2 Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
- 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
 *Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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