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Automated Report

Technical Report for

Kerr-McGee Oil & Gas Onshore LP

GWA_Badger_12N_3HZ

FID:752932 Reg:318A.f Freq.:1SUB

SGS Job Number: DA35338

Sampling Date: 06/21/21



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Total number of pages in report: 49



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



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Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049)
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Test results relate only to samples analyzed.

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Sample Summary

Kerr-McGee Oil & Gas Onshore LP

Job No: DA35338

GWA_Badger_12N_3HZ
Project No: FID:752932 Reg:318A.f Freq.:1SUB

| Sample Number | Collected | | Matrix | | Client | |
|---------------|-----------|---------|----------|-----------|-----------|--|
| | Date | Time By | Received | Code Type | Sample ID | |

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

| | | | | | | |
|------------|----------|----------|----------|----|----------------------|-------------------------------------|
| DA35338-1 | 06/21/21 | 10:20 JF | 06/22/21 | AQ | Ground Water | BW_MUELLER_113278 SWNW_15_1N_68W |
| DA35338-1A | 06/21/21 | 10:20 JF | 06/22/21 | AQ | Ground Water | BW_MUELLER_113278 SWNW_15_1N_68W |
| DA35338-1B | 06/21/21 | 10:20 JF | 06/22/21 | AQ | Ground Water | BW_MUELLER_113278 SWNW_15_1N_68W |
| DA35338-1F | 06/21/21 | 10:20 JF | 06/22/21 | AQ | Groundwater Filtered | BW_MUELLER_113278 SWNW_15_1N_68W |

CASE NARRATIVE / CONFORMANCE SUMMARY

2

Client: Kerr-McGee Oil & Gas Onshore LP

Job No: DA35338

Site: GWA_Badger_12N_3HZ

Report Date 7/20/2021 4:14:26 PM

On 06/22/2021, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 5.8 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA35338 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ

Batch ID: V7V3707

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method RSK175 MOD

Matrix: AQ

Batch ID: GFK171

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- DA35338-1A: Sample was not preserved to a pH < 2.

GC Volatiles By Method SW846 8015D

Matrix: AQ

Batch ID: GGD150

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846-8015D

Matrix: AQ

Batch ID: OP20301

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) DA35338-1MS, DA35338-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP20301-MB for TPH-DRO (C10-C28): Lab contamination.
- DA35338-1 for TPH-DRO (C10-C28): Target detected in associated method blank. Sample is ND. No further action required.

Metals Analysis By Method EPA 200.7

Matrix: AQ

Batch ID: MP32756

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA35308-1AMS, DA35308-1AMSD were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Strontium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Tuesday, July 20, 2021

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Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP32755

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA35333-2FAMS, DA35333-2FAMSD were used as the QC samples for the metals analysis.

General Chemistry By Method EPA 300.0

Matrix: AQ **Batch ID:** GP29339

- DA35338-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

General Chemistry By Method EPA 365.1

Matrix: AQ **Batch ID:** GP29437

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA35246-8DUP, DA35246-6MS were used as the QC samples for the Phosphorus, Total analysis.
- The matrix spike (MS) recovery(s) of Phosphorus, Total are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

General Chemistry By Method EPA300.0

Matrix: AQ **Batch ID:** GP29339

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA35321-2MS, DA35321-2MSD were used as the QC samples for the Bromide, Chloride, Fluoride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Bromide analysis.

General Chemistry By Method HACH IRB-BART

Matrix: AQ **Batch ID:** MB1446

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method HACH SLYM-BART

Matrix: AQ **Batch ID:** MB1447

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method HACH SRB-BART

Matrix: AQ **Batch ID:** MB1448

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM 2320B-2011

Matrix: AQ

Batch ID: GN53542

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA35338-1DUP, DA35340-1MS, DA35340-1MSD were used as the QC samples for the Alkalinity, Total as CaCO₃ analysis.

Matrix: AQ

Batch ID: GN53543

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ

Batch ID: GN53544

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM 2510B-2011

Matrix: AQ

Batch ID: GP29344

- The data for SM 2510B-2011 meets quality control requirements.

General Chemistry By Method SM 2540C-2011

Matrix: AQ

Batch ID: GN53538

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA35182-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.
- The duplicate RPD(s) for Solids, Total Dissolved are outside control limits for sample GN53538-D. High RPD acceptable due to low sample and duplicate concentration.

General Chemistry By Method SM1030E-2011

Matrix: AQ

Batch ID: GN53703

- The data for SM1030E-2011 meets quality control requirements.

General Chemistry By Method SM4500HB+-2011/9040C

Matrix: AQ

Batch ID: GN53555

- The data for SM4500HB+-2011/9040C meets quality control requirements.
- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: DA35338-1
- DA35338-1 for pH: Field parameter analyzed by the laboratory upon request.

Field Data By Method FIELD

Matrix: AQ

Batch ID: R55124

- The data for FIELD meets quality control requirements.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Page 1 of 1

Job Number: DA35338
 Account: Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Badger_12N_3HZ
 Collected: 06/21/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

DA35338-1 BW_MUELLER_113278 SWNW_15_1N_68W

| | | | | | |
|--|--------|-------|--|----------|-----------------------|
| Chloride | 79.0 | 5.0 | | mg/l | EPA300.0 |
| Bromide | 0.50 | 0.50 | | mg/l | EPA300.0 |
| Sulfate | 1700 | 50 | | mg/l | EPA300.0 |
| Alkalinity, Bicarbonate as CaCO ₃ | 535 | 5.0 | | mg/l | SM 2320B-2011 |
| Alkalinity, Total as CaCO ₃ | 535 | 5.0 | | mg/l | SM 2320B-2011 |
| Cation Anion Balance | 0.81 | | | % | SM1030E-2011 |
| Phosphorus, Total | 0.81 | 0.010 | | mg/l | EPA 365.1 |
| Solids, Total Dissolved | 2920 | 10 | | mg/l | SM 2540C-2011 |
| Specific Conductivity | 4070 | 1.0 | | umhos/cm | SM 2510B-2011 |
| pH ^a | 8.48 | | | su | SM4500HB+ -2011/9040C |
| Oxygen, Dissolved (Field) | 0.02 | | | mg/l | FIELD |
| pH (Field) | 8.05 | | | su | FIELD |
| Specific Conductivity (Field) | 4951.9 | 0.50 | | umhos/cm | FIELD |
| Turbidity | 3.09 | | | NTU | FIELD |
| Redox Potential Vs H ₂ | 72.9 | | | mv | FIELD |
| Temperature (Field) | 18.99 | | | Deg. C | FIELD |

DA35338-1A BW_MUELLER_113278 SWNW_15_1N_68W

| | | | | | |
|----------------------|--------|---------|---------|------|------------|
| Methane ^b | 0.0049 | 0.00080 | 0.00070 | mg/l | RSK175 MOD |
|----------------------|--------|---------|---------|------|------------|

DA35338-1B BW_MUELLER_113278 SWNW_15_1N_68W

| | | | | | |
|---------------------------|-------|-----|--|--------|----------------|
| Iron-Related Bacteria | 9000 | 25 | | CFU/ml | HACH IRB-BART |
| Slime Forming Bacteria | 13000 | 500 | | CFU/ml | HACH SLYM-BART |
| Sulfate Reducing Bacteria | 27000 | 200 | | CFU/ml | HACH SRB-BART |

DA35338-1F BW_MUELLER_113278 SWNW_15_1N_68W

| | | | | | |
|-----------|--------|--------|--|------|-----------|
| Barium | 0.0096 | 0.0020 | | mg/l | EPA 200.8 |
| Boron | 0.524 | 0.050 | | mg/l | EPA 200.7 |
| Calcium | 19.2 | 0.40 | | mg/l | EPA 200.7 |
| Iron | 0.0537 | 0.010 | | mg/l | EPA 200.7 |
| Magnesium | 8.03 | 0.20 | | mg/l | EPA 200.7 |
| Manganese | 0.0279 | 0.0050 | | mg/l | EPA 200.7 |
| Potassium | 5.94 | 1.0 | | mg/l | EPA 200.7 |
| Sodium | 1090 | 2.0 | | mg/l | EPA 200.7 |
| Strontium | 1.01 | 0.0050 | | mg/l | EPA 200.7 |

(a) Field parameter analyzed by the laboratory upon request.

(b) Sample was not preserved to a pH < 2.



Wheat Ridge, CO

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

| | | | |
|-------------------|----------------------------------|-----------------|----------|
| Client Sample ID: | BW_MUELLER_113278 SWNW_15_1N_68W | Date Sampled: | 06/21/21 |
| Lab Sample ID: | DA35338-1 | Date Received: | 06/22/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260B | | |
| Project: | GWA_Badger_12N_3HZ | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 7V73746.D | 1 | 06/23/21 17:42 | JB | n/a | n/a | V7V3707 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.60 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.50 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 1.0 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.96 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.60 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 104% | | 70-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | | 70-130% |
| 2037-26-5 | Toluene-D8 | 98% | | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | | 70-130% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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| | | | |
|-------------------|----------------------------------|-----------------|----------|
| Client Sample ID: | BW_MUELLER_113278 SWNW_15_1N_68W | Date Sampled: | 06/21/21 |
| Lab Sample ID: | DA35338-1 | Date Received: | 06/22/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8015D | | |
| Project: | GWA_Badger_12N_3HZ | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | GD03742.D | 1 | 06/23/21 21:10 | JB | n/a | n/a | GGD150 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|------------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | ND | 0.050 | 0.050 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 99% | | 60-140% | | |

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

| | | | |
|-------------------|----------------------------------|-----------------|----------|
| Client Sample ID: | BW_MUELLER_113278 SWNW_15_1N_68W | Date Sampled: | 06/21/21 |
| Lab Sample ID: | DA35338-1 | Date Received: | 06/22/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846-8015D SW846 3510C | | |
| Project: | GWA_Badger_12N_3HZ | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | FH057998.D | 1 | 06/26/21 10:48 | NO | 06/25/21 | OP20301 | GFP2233 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1060 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|--------------------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) ^a | ND | 0.19 | 0.18 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 71% | | 11-142% | | |

(a) Target detected in associated method blank. Sample is ND. No further action required.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|----------------------------------|-----------------|----------|
| Client Sample ID: | BW_MUELLER_113278 SWNW_15_1N_68W | Date Sampled: | 06/21/21 |
| Lab Sample ID: | DA35338-1 | Date Received: | 06/22/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Project: | GWA_Badger_12N_3HZ | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--|---------|-------|----------|-----|----------------|----|-----------------------|
| 300.0 | | | | | | | |
| Fluoride | < 1.0 | 1.0 | mg/l | 10 | 06/22/21 15:52 | JB | EPA300.0 |
| Chloride | 79.0 | 5.0 | mg/l | 10 | 06/22/21 15:52 | JB | EPA300.0 |
| Nitrogen, Nitrite | < 0.040 | 0.040 | mg/l | 10 | 06/22/21 15:52 | JB | EPA300.0 |
| Bromide | 0.50 | 0.50 | mg/l | 10 | 06/22/21 15:52 | JB | EPA300.0 |
| Nitrogen, Nitrate | < 0.10 | 0.10 | mg/l | 10 | 06/22/21 15:52 | JB | EPA300.0 |
| Sulfate | 1700 | 50 | mg/l | 100 | 06/22/21 16:08 | JB | EPA300.0 |
| 300.0 NO2 + NO3O | | | | | | | |
| Nitrogen, Nitrate + Nitrite ^a | < 0.14 | 0.14 | mg/l | 1 | 06/22/21 15:52 | JB | EPA 300.0 |
| Alkalinity, Bicarbonate as CaC | 535 | 5.0 | mg/l | 1 | 06/23/21 | JD | SM 2320B-2011 |
| Alkalinity, Carbonate | < 5.0 | 5.0 | mg/l | 1 | 06/23/21 | JD | SM 2320B-2011 |
| Alkalinity, Total as CaCO3 | 535 | 5.0 | mg/l | 1 | 06/23/21 | JD | SM 2320B-2011 |
| Cation Anion Balance | 0.81 | | % | 1 | 07/19/21 | EH | SM1030E-2011 |
| Phosphorus, Total | 0.81 | 0.010 | mg/l | 1 | 07/13/21 16:28 | AM | EPA 365.1 |
| Solids, Total Dissolved | 2920 | 10 | mg/l | 1 | 06/24/21 | ZS | SM 2540C-2011 |
| Specific Conductivity | 4070 | 1.0 | umhos/cm | 1 | 06/25/21 | ZS | SM 2510B-2011 |
| pH ^b | 8.48 | | su | 1 | 06/25/21 | ZS | SM4500HB+ -2011/9040C |

Field Parameters

| | | | | | | | |
|-------------------------------|--------|------|----------|---|----------------|-----|-------|
| Oxygen, Dissolved (Field) | 0.02 | | mg/l | 1 | 06/21/21 10:20 | SUB | FIELD |
| Redox Potential Vs H2 | 72.9 | | mv | 1 | 06/21/21 10:20 | SUB | FIELD |
| Specific Conductivity (Field) | 4951.9 | 0.50 | umhos/cm | 1 | 06/21/21 10:20 | SUB | FIELD |
| Temperature (Field) | 18.99 | | Deg. C | 1 | 06/21/21 10:20 | SUB | FIELD |
| Turbidity | 3.09 | | NTU | 1 | 06/21/21 10:20 | SUB | FIELD |
| pH (Field) | 8.05 | | su | 1 | 06/21/21 10:20 | SUB | FIELD |

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

(b) Field parameter analyzed by the laboratory upon request.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

| | | | |
|-------------------|----------------------------------|-----------------|----------|
| Client Sample ID: | BW_MUELLER_113278 SWNW_15_1N_68W | Date Sampled: | 06/21/21 |
| Lab Sample ID: | DA35338-1A | Date Received: | 06/22/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | RSK175 MOD | | |
| Project: | GWA_Badger_12N_3HZ | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 ^a | FK2483.D | 1 | 06/25/21 14:51 | JB | n/a | n/a | GFK171 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Headspace Volume | Volume Injected | Temperature |
|--------|----------------|------------------|-----------------|-------------|
| Run #1 | 39.0 ml | 4.0 ml | 500 ul | 21.0 Deg. C |
| Run #2 | | | | |

Methane, Ethane and Propane

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|---------|---------|-------|---|
| 74-82-8 | Methane | 0.0049 | 0.00080 | 0.00070 | mg/l | |
| 74-84-0 | Ethane | ND | 0.0016 | 0.0010 | mg/l | |
| 74-98-6 | Propane | ND | 0.0022 | 0.0017 | mg/l | |

(a) Sample was not preserved to a pH < 2.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|----------------------------------|-----------------|----------|
| Client Sample ID: | BW_MUELLER_113278 SWNW_15_1N_68W | Date Sampled: | 06/21/21 |
| Lab Sample ID: | DA35338-1B | Date Received: | 06/22/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Project: | GWA_Badger_12N_3HZ | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|---------------------------|--------|-----|--------|----|----------------|----|----------------|
| Iron-Related Bacteria | 9000 | 25 | CFU/ml | 1 | 06/27/21 17:00 | JB | HACH IRB-BART |
| Slime Forming Bacteria | 13000 | 500 | CFU/ml | 1 | 06/27/21 17:00 | JB | HACH SLYM-BART |
| Sulfate Reducing Bacteria | 27000 | 200 | CFU/ml | 1 | 06/27/21 17:00 | JB | HACH SRB-BART |

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|----------------------------------|-----------------|----------|
| Client Sample ID: | BW_MUELLER_113278 SWNW_15_1N_68W | Date Sampled: | 06/21/21 |
| Lab Sample ID: | DA35338-1F | Date Received: | 06/22/21 |
| Matrix: | AQ - Groundwater Filtered | Percent Solids: | n/a |
| Project: | GWA_Badger_12N_3HZ | | |

Dissolved Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|-----------|---------|-------|----|----------|-------------|------------------------|------------------------|
| Barium | 0.0096 | 0.0020 | mg/l | 1 | 06/30/21 | 07/01/21 JS | EPA 200.8 ¹ | EPA 200.8 ⁵ |
| Boron | 0.524 | 0.050 | mg/l | 1 | 07/01/21 | 07/08/21 KP | EPA 200.7 ² | EPA 200.7 ⁶ |
| Calcium | 19.2 | 0.40 | mg/l | 1 | 07/01/21 | 07/08/21 KP | EPA 200.7 ² | EPA 200.7 ⁶ |
| Iron | 0.0537 | 0.010 | mg/l | 1 | 07/01/21 | 07/12/21 KP | EPA 200.7 ³ | EPA 200.7 ⁶ |
| Magnesium | 8.03 | 0.20 | mg/l | 1 | 07/01/21 | 07/08/21 KP | EPA 200.7 ² | EPA 200.7 ⁶ |
| Manganese | 0.0279 | 0.0050 | mg/l | 1 | 07/01/21 | 07/08/21 KP | EPA 200.7 ² | EPA 200.7 ⁶ |
| Potassium | 5.94 | 1.0 | mg/l | 1 | 07/01/21 | 07/12/21 KP | EPA 200.7 ³ | EPA 200.7 ⁶ |
| Selenium | < 0.00040 | 0.00040 | mg/l | 1 | 06/30/21 | 07/01/21 JS | EPA 200.8 ¹ | EPA 200.8 ⁵ |
| Sodium | 1090 | 2.0 | mg/l | 5 | 07/01/21 | 07/15/21 JS | EPA 200.7 ⁴ | EPA 200.7 ⁶ |
| Strontium | 1.01 | 0.0050 | mg/l | 1 | 07/01/21 | 07/08/21 KP | EPA 200.7 ² | EPA 200.7 ⁶ |

(1) Instrument QC Batch: MA13978

(2) Instrument QC Batch: MA13991

(3) Instrument QC Batch: MA14005

(4) Instrument QC Batch: MA14014

(5) Prep QC Batch: MP32755

(6) Prep QC Batch: MP32756

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

Page 1 of 1

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accutest.com

| | | | |
|--|--|---|--|
| Bottle Order Control # | | FED-EX Tracking # | |
| SGS Quote # | | SGS Job # DA35338 | |
| Client / Reporting Information | | Project Information | |
| Company: (Report to) Absaroka Solutions | | Project Name: GWA_Badger_12C_3HZ Frequency: 1SUB | |
| Street: 112 High Street | | Regulation: 318A.f | |
| City, State: Buffalo, WY 82834 | | Facility ID: 752932 | |
| Project Contact: Tanya Cude | | EQULS Facility Code: 0089019-AN-GWABWQ | |
| Phone: 352-318-4034 | | Client Purchase Order #: 10571000 | |
| Email: Tanya.Cude@Absarokasolutions.com | | Street Address: 1099 18th Street, Suite 1800 | |
| Sampler(s) Name(s): Jordan Fleming | | Project Manager: Joel Mason Attention: Erik Mickelson User ID: fvv451 | |
| Field ID / Point of Collection | | Collection | |
| Date | | Time | |
| Sampled by | | Matrix | |
| # of bottles | | Number of preserved bottles | |
| NONE | | HCl | |
| HCl | | NaOH | |
| HNO3 | | H2SO4 | |
| H2SO4 | | DI Water | |
| MeOH | | ENCORE | |
| Na2S2O4 | | Other | |
| PH, SCOR, TDS | | XCARBICALK | |
| BRO, CHL, F, NO2, XNO3O, NO32, SO4 | | TP04 | |
| Dissolved Metals - Lab Filtered* | | VRSK175DGMPEP | |
| V8260BTX | | B801SDRO | |
| V8015GRO | | IRBAC, SFBAC, SOARBAC | |
| CABAL | | LAB USE ONLY | |
| DW - Drinking Water | | GW - Ground Water | |
| WW - Water | | SW - Surface Water | |
| SO - Soil | | SL - Sludge | |
| SED - Sediment | | OI - Oil | |
| LIQ - Other Liquid | | AIR - Air | |
| SOL - Other Solid | | WIP - Wipe | |
| FB-Field Blank | | EB-Equipment Blank | |
| RB-Rinse Blank | | TB-Trip Blank | |
| Turnaround Time (Business days) | | Data Deliverable Information | |
| Comments / Special Instructions | | | |
| <input checked="" type="checkbox"/> Std. 10 Business Days | | <input type="checkbox"/> Commercial "A" (Level 1, Results Only) | |
| <input type="checkbox"/> 5 Day RUSH | | <input type="checkbox"/> Commercial "B" (Level 2, Results + QC Summary) | |
| <input type="checkbox"/> 3 Day Emergency | | <input type="checkbox"/> COMMBN (Results/QC/Narrative) | |
| <input type="checkbox"/> 2 Day Emergency | | <input type="checkbox"/> COMMBN+ [Results/QC/Narrative (+ chromatograms)] | |
| <input type="checkbox"/> 1 Day Emergency | | <input type="checkbox"/> REDT2 | |
| Emergency & Rush T/A data available via LabLink. RUSH TAT approval needed. | | <input type="checkbox"/> FULT1 <input checked="" type="checkbox"/> EDD Format: COGCC Compatible | |
| Sample Custody must be documented below each time samples change possession, including courier delivery. | | | |
| Relinquished By: 1 | | Received By: 2 | |
| Date/Time: 6/21/21 1600 | | Date/Time: 6/22 13:45 | |
| Relinquished By: 3 | | Received By: 4 | |
| Date/Time: | | Date/Time: | |
| Custody Seal # | | Form MSQA 064-01, RV 6/19/17 | |
| Intact <input type="checkbox"/> Not intact <input type="checkbox"/> Absent <input type="checkbox"/> | | http://www.sgs.com/terms-and-conditions | |
| Preserved where applicable <input type="checkbox"/> | | Cooler Temp. °C: 5.8 Therm. ID: 7080 On Ice <input type="checkbox"/> | |

DA35338: Chain of Custody

Page 1 of 2



SGS Sample Receipt Summary

Job Number: DA35338

Client: ABSAROKA

Project: GWA

Date / Time Received: 6/22/2021 1:45:00 PM

Delivery Method:

Airbill #'s: CO

Cooler Temps (Initial/Adjusted): #1: (5.8/5.8):

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present:

Y or N

4. Smpl Dates/Time OK

☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: IR Gun;
3. Cooler media: Ice (Bag)
4. No. Coolers: 1

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Comments

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

DA35338: Chain of Custody

Page 2 of 2

MS Volatiles**QC Data Summaries**

Includes the following where applicable:

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**

Method Blank Summary

Page 1 of 1

Job Number: DA35338

Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP

Project: GWA_Badger_12N_3HZ

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V7V3707-MB | 7V73734.D | 1 | 06/23/21 | JB | n/a | n/a | V7V3707 |

The QC reported here applies to the following samples:

Method: SW846 8260B

DA35338-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.60 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.50 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.96 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.60 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 1.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Limits |
|------------|-----------------------|--------------|
| 1868-53-7 | Dibromofluoromethane | 103% 70-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% 70-130% |
| 2037-26-5 | Toluene-D8 | 99% 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 103% 70-130% |

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: DA35338

Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP

Project: GWA_Badger_12N_3HZ

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| V7V3707-BS | 7V73729.D | 1 | 06/23/21 | JB | n/a | n/a | V7V3707 |
| V7V3707-BSD | 7V73730.D | 1 | 06/23/21 | JB | n/a | n/a | V7V3707 |

The QC reported here applies to the following samples:

Method: SW846 8260B

DA35338-1

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|-----------|----------------|---------------|-------------|----------|-------------|----------|-----|-------------------|
| 71-43-2 | Benzene | 50 | 49.6 | 99 | 47.5 | 95 | 4 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 50 | 50.7 | 101 | 48.9 | 98 | 4 | 69-130/30 |
| 108-88-3 | Toluene | 50 | 49.8 | 100 | 47.8 | 96 | 4 | 70-130/30 |
| | m,p-Xylene | 100 | 103 | 103 | 98.4 | 98 | 5 | 70-130/30 |
| 95-47-6 | o-Xylene | 50 | 50.0 | 100 | 48.0 | 96 | 4 | 70-130/30 |
| 1330-20-7 | Xylene (total) | 150 | 153 | 102 | 146 | 97 | 5 | 70-130/30 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|------------|-----------------------|------|------|---------|
| 1868-53-7 | Dibromofluoromethane | 100% | 99% | 70-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 98% | 70-130% |
| 2037-26-5 | Toluene-D8 | 99% | 98% | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 105% | 111% | 70-130% |

* = Outside of Control Limits.

GC Volatiles**QC Data Summaries**

7

Includes the following where applicable:

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**

Method Blank Summary

Job Number: DA35338
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| | | | | | | | |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| GGD150-MB | GD03730.D | 1 | 06/23/21 | JB | n/a | n/a | GGD150 |

The QC reported here applies to the following samples: Method: SW846 8015D

DA35338-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|------------------|--------|-------|-------|-------|---|
| | TPH-GRO (C6-C10) | ND | 0.050 | 0.050 | mg/l | |

| CAS No. | Surrogate Recoveries | Limits |
|----------|------------------------|-------------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 91% 60-140% |

Method Blank Summary

Job Number: DA35338
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| | | | | | | | |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| GFK171-MB | FK2481.D | 1 | 06/25/21 | JB | n/a | n/a | GFK171 |

The QC reported here applies to the following samples: Method: RSK175 MOD

DA35338-1A

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|---------|---------|-------|---|
| 74-82-8 | Methane | ND | 0.00080 | 0.00070 | mg/l | |
| 74-84-0 | Ethane | ND | 0.0016 | 0.0010 | mg/l | |
| 74-98-6 | Propane | ND | 0.0022 | 0.0017 | mg/l | |

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA35338
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| GGD150-BS | GD03728.D | 1 | 06/23/21 | JB | n/a | n/a | GGD150 |
| GGD150-BSD | GD03729.D | 1 | 06/23/21 | JB | n/a | n/a | GGD150 |

The QC reported here applies to the following samples: Method: SW846 8015D

DA35338-1

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | BSD mg/l | BSD % | RPD | Limits Rec/RPD |
|---------|------------------|---------------|-------------|----------|-------------|----------|-----|-------------------|
| | TPH-GRO (C6-C10) | 2.2 | 1.98 | 90 | 2.00 | 91 | 1 | 51-130/30 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|----------|------------------------|-----|-----|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 92% | 92% | 60-140% |

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA35338
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|----------|----|----------|----|-----------|------------|------------------|
| GFK171-BS | FK2479.D | 10 | 06/25/21 | JB | n/a | n/a | GFK171 |
| GFK171-BSD | FK2480.D | 10 | 06/25/21 | JB | n/a | n/a | GFK171 |

The QC reported here applies to the following samples:

Method: RSK175 MOD

DA35338-1A

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | BSD mg/l | BSD % | RPD | Limits Rec/RPD |
|---------|----------|---------------|-------------|----------|-------------|----------|-----|-------------------|
| 74-82-8 | Methane | 0.512 | 0.592 | 116 | 0.589 | 115 | 1 | 70-130/30 |
| 74-84-0 | Ethane | 0.923 | 1.16 | 126 | 1.16 | 126 | 0 | 70-142/30 |
| 74-98-6 | Propane | 1.38 | 1.65 | 120 | 1.65 | 120 | 0 | 70-137/30 |

* = Outside of Control Limits.

GC/LC Semi-volatiles**QC Data Summaries**

Includes the following where applicable:

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**

Method Blank Summary

Job Number: DA35338
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| | | | | | | | |
|------------|------------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| OP20301-MB | FH057990.D | 1 | 06/26/21 | NO | 06/25/21 | OP20301 | GFP2233 |

The QC reported here applies to the following samples: Method: SW846-8015D

DA35338-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|--------------------------------|--------|------|------|-------|---|
| | TPH-DRO (C10-C28) ^a | 0.217 | 0.20 | 0.19 | mg/l | |

| CAS No. | Surrogate Recoveries | Limits |
|---------|----------------------|-------------|
| 84-15-1 | o-Terphenyl | 26% 11-142% |

(a) Lab contamination.

Blank Spike Summary

Job Number: DA35338
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| | | | | | | | |
|------------|------------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| OP20301-BS | FH057992.D | 1 | 06/26/21 | NO | 06/25/21 | OP20301 | GFP2233 |

The QC reported here applies to the following samples: Method: SW846-8015D

DA35338-1

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---------|-------------------|---------------|-------------|----------|--------|
| | TPH-DRO (C10-C28) | 5 | 2.96 | 59 | 22-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---------|----------------------|-----|---------|
| 84-15-1 | o-Terphenyl | 57% | 11-142% |

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA35338
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|------------|----|----------|----|-----------|------------|------------------|
| OP20301-MS | FH057994.D | 1 | 06/26/21 | NO | 06/25/21 | OP20301 | GFP2233 |
| OP20301-MSD | FH057996.D | 1 | 06/26/21 | NO | 06/25/21 | OP20301 | GFP2233 |
| DA35338-1 | FH057998.D | 1 | 06/26/21 | NO | 06/25/21 | OP20301 | GFP2233 |

The QC reported here applies to the following samples: Method: SW846-8015D

DA35338-1

| CAS No. | Compound | DA35338-1 mg/l | Spike Q mg/l | MS mg/l | MS % | Spike mg/l | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---------|-------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| | TPH-DRO (C10-C28) | ND | 10 | 7.87 | 79 | 10 | 7.89 | 79 | 0 | 22-130/30 |

| CAS No. | Surrogate Recoveries | MS | MSD | DA35338-1 | Limits |
|---------|----------------------|-----|-----|-----------|---------|
| 84-15-1 | o-Terphenyl | 89% | 84% | 71% | 11-142% |

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

6

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA35338
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

QC Batch ID: MP32755
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 06/30/21

| Metal | RL | IDL | MDL | MB raw | final |
|------------|------|-------|------|-----------|-------|
| Aluminum | 50 | .52 | 13 | | |
| Antimony | 0.40 | .0047 | .3 | | |
| Arsenic | 0.20 | .05 | .05 | | |
| Barium | 2.0 | .096 | .25 | 0.058 | <2.0 |
| Beryllium | 0.20 | .049 | .07 | | |
| Boron | 40 | 18 | 20 | | |
| Cadmium | 0.10 | .03 | .04 | | |
| Calcium | 400 | 25 | 75 | | |
| Chromium | 2.0 | .087 | .25 | | |
| Cobalt | 0.20 | .04 | .05 | | |
| Copper | 2.0 | .0088 | .81 | | |
| Iron | 20 | 1.6 | 10 | | |
| Lead | 0.50 | .094 | .13 | | |
| Magnesium | 100 | 10 | 25 | | |
| Manganese | 1.0 | .079 | .51 | | |
| Molybdenum | 1.0 | .037 | .27 | | |
| Nickel | 2.0 | .098 | .35 | | |
| Phosphorus | 60 | 7.6 | 25 | | |
| Potassium | 200 | 2 | 50 | | |
| Selenium | 0.40 | .05 | .1 | 0.017 | <0.40 |
| Silver | 0.10 | .0081 | .025 | | |
| Sodium | 500 | 4.3 | 75 | | |
| Strontium | 20 | .021 | 5 | | |
| Thallium | 0.20 | .032 | .05 | | |
| Tin | 10 | .22 | 2.5 | | |
| Titanium | 2.0 | .0062 | .37 | | |
| Uranium | 0.20 | .015 | .05 | | |
| Vanadium | 1.0 | .14 | .2 | | |
| Zinc | 10 | .05 | 2.1 | | |

Associated samples MP32755: DA35338-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA35338
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Badger_12N_3HZ

QC Batch ID: MP32755
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 06/30/21

| Metal | DA35333-2FA Original MS | Spikelot ICPALL4 | % Rec | QC Limits |
|------------|----------------------------|---------------------|-------|--------------|
| Aluminum | anr | | | |
| Antimony | anr | | | |
| Arsenic | anr | | | |
| Barium | 96.1 | 480 | 400 | 96.0 70-130 |
| Beryllium | anr | | | |
| Boron | anr | | | |
| Cadmium | anr | | | |
| Calcium | | | | |
| Chromium | anr | | | |
| Cobalt | | | | |
| Copper | anr | | | |
| Iron | anr | | | |
| Lead | anr | | | |
| Magnesium | | | | |
| Manganese | anr | | | |
| Molybdenum | anr | | | |
| Nickel | anr | | | |
| Phosphorus | | | | |
| Potassium | | | | |
| Selenium | 2.0 | 190 | 200 | 94.0 70-130 |
| Silver | anr | | | |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | anr | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | anr | | | |
| Vanadium | | | | |
| Zinc | anr | | | |

Associated samples MP32755: DA35338-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA35338
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Badger_12N_3HZ

QC Batch ID: MP32755
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 06/30/21

| Metal | DA35333-2FA Original | MSD | Spikelot ICPALL4 | % Rec | MSD RPD | QC Limit |
|------------|-------------------------|-----|---------------------|-------|------------|-------------|
| Aluminum | anr | | | | | |
| Antimony | anr | | | | | |
| Arsenic | anr | | | | | |
| Barium | 96.1 | 491 | 400 | 98.7 | 2.3 | 20 |
| Beryllium | anr | | | | | |
| Boron | anr | | | | | |
| Cadmium | anr | | | | | |
| Calcium | | | | | | |
| Chromium | anr | | | | | |
| Cobalt | | | | | | |
| Copper | anr | | | | | |
| Iron | anr | | | | | |
| Lead | anr | | | | | |
| Magnesium | | | | | | |
| Manganese | anr | | | | | |
| Molybdenum | anr | | | | | |
| Nickel | anr | | | | | |
| Phosphorus | | | | | | |
| Potassium | | | | | | |
| Selenium | 2.0 | 193 | 200 | 95.5 | 1.6 | 20 |
| Silver | anr | | | | | |
| Sodium | | | | | | |
| Strontium | | | | | | |
| Thallium | anr | | | | | |
| Tin | | | | | | |
| Titanium | | | | | | |
| Uranium | anr | | | | | |
| Vanadium | | | | | | |
| Zinc | anr | | | | | |

Associated samples MP32755: DA35338-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA35338
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

QC Batch ID: MP32755
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 06/30/21

| Metal | BSP Result | Spikelot ICPALL4 | % Rec | QC Limits |
|------------|---------------|---------------------|-------|--------------|
| Aluminum | anr | | | |
| Antimony | anr | | | |
| Arsenic | anr | | | |
| Barium | 386 | 400 | 96.5 | 85-115 |
| Beryllium | anr | | | |
| Boron | anr | | | |
| Cadmium | anr | | | |
| Calcium | | | | |
| Chromium | anr | | | |
| Cobalt | | | | |
| Copper | anr | | | |
| Iron | anr | | | |
| Lead | anr | | | |
| Magnesium | | | | |
| Manganese | anr | | | |
| Molybdenum | anr | | | |
| Nickel | anr | | | |
| Phosphorus | | | | |
| Potassium | | | | |
| Selenium | 190 | 200 | 95.0 | 85-115 |
| Silver | anr | | | |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | anr | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | anr | | | |
| Vanadium | | | | |
| Zinc | anr | | | |

Associated samples MP32755: DA35338-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA35338
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

QC Batch ID: MP32756
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/01/21

| Metal | RL | IDL | MDL | MB raw | final |
|------------|------|-----|-----|-----------|-------|
| Aluminum | 100 | 46 | 30 | | |
| Antimony | 30 | 14 | 10 | | |
| Arsenic | 25 | 22 | 7 | | |
| Barium | 10 | .3 | 2 | | |
| Beryllium | 10 | 1 | 1.3 | | |
| Boron | 50 | 3.3 | 7.4 | 4.1 | <50 |
| Cadmium | 10 | 1.9 | 1.6 | | |
| Calcium | 400 | 6.6 | 53 | 9.9 | <400 |
| Chromium | 10 | 1.1 | 1.7 | | |
| Cobalt | 5.0 | 2.7 | 2.3 | | |
| Copper | 10 | 4.6 | 2.3 | | |
| Iron | 10 | 8.9 | 3.1 | 3.0 | <10 |
| Lead | 50 | 13 | 6.3 | | |
| Lithium | 5.0 | .6 | 4 | | |
| Magnesium | 200 | 50 | 31 | 29.1 | <200 |
| Manganese | 5.0 | .5 | 1.1 | -0.10 | <5.0 |
| Molybdenum | 10 | 8.5 | 4.3 | | |
| Nickel | 30 | 6.2 | 6.1 | | |
| Phosphorus | 100 | 91 | 24 | | |
| Potassium | 1000 | 84 | 250 | 77.1 | <1000 |
| Selenium | 50 | 30 | 21 | | |
| Silicon | 50 | 41 | 45 | | |
| Silver | 30 | .6 | 4 | | |
| Sodium | 400 | 13 | 51 | -47 | <400 |
| Strontium | 5.0 | .1 | .6 | 0.0 | <5.0 |
| Thallium | 10 | 17 | 7.5 | | |
| Tin | 60 | 41 | 51 | | |
| Titanium | 10 | .5 | 1.9 | | |
| Uranium | 50 | 3.9 | 8.5 | | |
| Vanadium | 10 | .9 | .7 | | |
| Zinc | 30 | 9 | 3.8 | | |

Associated samples MP32756: DA35338-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA35338
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

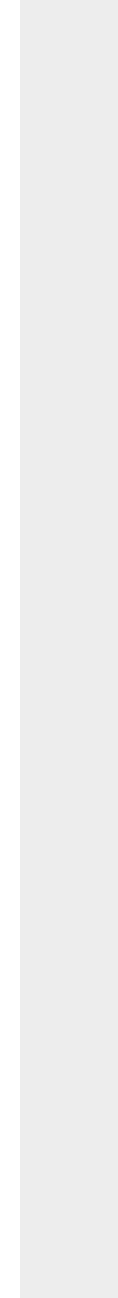
QC Batch ID: MP32756
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/01/21

| Metal | RL | IDL | MDL | MB raw | final |
|-------|----|-----|-----|-----------|-------|
|-------|----|-----|-----|-----------|-------|

(anr) Analyte not requested



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA35338
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Badger_12N_3HZ

QC Batch ID: MP32756
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/01/21

| Metal | DA35308-1A Original MS | | Spikelot ICPAL4 | % Rec | QC Limits |
|------------|---------------------------|--------|--------------------|----------|--------------|
| Aluminum | | | | | |
| Antimony | | | | | |
| Arsenic | | | | | |
| Barium | | | | | |
| Beryllium | | | | | |
| Boron | 542 | 1530 | 1000 | 98.8 | 70-130 |
| Cadmium | | | | | |
| Calcium | 412000 | 410000 | 25000 | 100.0 | 70-130 |
| Chromium | | | | | |
| Cobalt | | | | | |
| Copper | | | | | |
| Iron | 34.6 | 5530 | 5000 | 109.9 | 70-130 |
| Lead | | | | | |
| Lithium | | | | | |
| Magnesium | 150000 | 175000 | 25000 | 100.0 | 70-130 |
| Manganese | 20.8 | 560 | 500 | 108.0 | 70-130 |
| Molybdenum | | | | | |
| Nickel | | | | | |
| Phosphorus | | | | | |
| Potassium | 14300 | 44500 | 25000 | 114.8 | 70-130 |
| Selenium | | | | | |
| Silicon | | | | | |
| Silver | | | | | |
| Sodium | 401000 | 422000 | 25000 | 84.0 | 70-130 |
| Strontium | 16000 | 14700 | 500 | -260.0(a | 70-130 |
| Thallium | | | | | |
| Tin | | | | | |
| Titanium | | | | | |
| Uranium | | | | | |
| Vanadium | | | | | |
| Zinc | | | | | |

Associated samples MP32756: DA35338-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA35338
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Badger_12N_3HZ

QC Batch ID: MP32756
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/01/21

| Metal | DA35308-1A Original MS | Spikelot ICPALL4 % Rec | QC Limits |
|-------|---------------------------|---------------------------|--------------|
|-------|---------------------------|---------------------------|--------------|

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA35338
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Badger_12N_3HZ

QC Batch ID: MP32756
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/01/21

| | DA35308-1A | | Spikelot | | MSD | QC |
|------------|------------|--------|----------|------------|-----|-------|
| Metal | Original | MSD | ICPAL4 | % Rec | RPD | Limit |
| Aluminum | | | | | | |
| Antimony | | | | | | |
| Arsenic | | | | | | |
| Barium | | | | | | |
| Beryllium | | | | | | |
| Boron | 542 | 1520 | 1000 | 97.8 | 0.7 | 20 |
| Cadmium | | | | | | |
| Calcium | 412000 | 400000 | 25000 | 60.0 (a) | 2.5 | 20 |
| Chromium | | | | | | |
| Cobalt | | | | | | |
| Copper | | | | | | |
| Iron | 34.6 | 5570 | 5000 | 110.7 | 0.7 | 20 |
| Lead | | | | | | |
| Lithium | | | | | | |
| Magnesium | 150000 | 174000 | 25000 | 96.0 | 0.6 | 20 |
| Manganese | 20.8 | 557 | 500 | 107.4 | 0.5 | 20 |
| Molybdenum | | | | | | |
| Nickel | | | | | | |
| Phosphorus | | | | | | |
| Potassium | 14300 | 44600 | 25000 | 115.2 | 0.2 | 20 |
| Selenium | | | | | | |
| Silicon | | | | | | |
| Silver | | | | | | |
| Sodium | 401000 | 419000 | 25000 | 72.0 | 0.7 | 20 |
| Strontium | 16000 | 14200 | 500 | -360.0 (a) | 3.5 | 20 |
| Thallium | | | | | | |
| Tin | | | | | | |
| Titanium | | | | | | |
| Uranium | | | | | | |
| Vanadium | | | | | | |
| Zinc | | | | | | |

Associated samples MP32756: DA35338-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA35338
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Badger_12N_3HZ

QC Batch ID: MP32756
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/01/21

| Metal | DA35308-1A Original MSD | Spikelot ICPALL4 % Rec | MSD RPD | QC Limit |
|-------|----------------------------|---------------------------|------------|-------------|
|-------|----------------------------|---------------------------|------------|-------------|

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA35338
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Badger_12N_3HZ

QC Batch ID: MP32756
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/01/21

| Metal | BSP Result | Spikelot ICPALL4 | % Rec | QC Limits |
|------------|---------------|---------------------|-------|--------------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | | | | |
| Barium | | | | |
| Beryllium | | | | |
| Boron | 964 | 1000 | 96.4 | 85-115 |
| Cadmium | | | | |
| Calcium | 26900 | 25000 | 107.6 | 85-115 |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | 5170 | 5000 | 103.4 | 85-115 |
| Lead | | | | |
| Lithium | | | | |
| Magnesium | 24400 | 25000 | 97.6 | 85-115 |
| Manganese | 552 | 500 | 110.4 | 85-115 |
| Molybdenum | | | | |
| Nickel | | | | |
| Phosphorus | | | | |
| Potassium | 25900 | 25000 | 103.6 | 85-115 |
| Selenium | | | | |
| Silicon | | | | |
| Silver | | | | |
| Sodium | 25800 | 25000 | 103.2 | 85-115 |
| Strontium | 492 | 500 | 98.4 | 85-115 |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP32756: DA35338-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

Login Number: DA35338
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

Methods: EPA 200.7
Units: ug/l

| Metal | BSP Result | Spikelot ICPALL4 | % Rec | QC Limits |
|-------|---------------|---------------------|-------|--------------|
|-------|---------------|---------------------|-------|--------------|

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA35338
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| Analyte | Batch ID | RL | MB Result | Units | Spike Amount | BSP Result | BSP %Recov | QC Limits |
|--------------------------------|-----------------|--------|--------------|----------|-----------------|---------------|---------------|--------------|
| Alkalinity, Bicarbonate as CaC | GN53543 | 5.0 | 0.0 | mg/l | 100 | 97.5 | 97.5 | 90-110% |
| Alkalinity, Carbonate | GN53544 | 5.0 | 0.0 | mg/l | 100 | 97.5 | 97.5 | 80-120% |
| Alkalinity, Total as CaCO3 | GN53542 | 5.0 | 0.0 | mg/l | 100 | 97.5 | 97.5 | 90-110% |
| Bromide | GP29339/GN53539 | 0.050 | 0.0 | mg/l | 0.5 | 0.525 | 105.0 | 90-110% |
| Chloride | GP29339/GN53539 | 0.50 | 0.0 | mg/l | 5 | 5.10 | 102.0 | 90-110% |
| Fluoride | GP29339/GN53539 | 0.10 | 0.0 | mg/l | 1 | 1.01 | 101.0 | 90-110% |
| Iron-Related Bacteria | MB1446 | 25 | <25 | CFU/ml | | | | |
| Nitrogen, Nitrate | GP29339/GN53539 | 0.010 | 0.0 | mg/l | 0.1 | 0.102 | 102.0 | 90-110% |
| Nitrogen, Nitrite | GP29339/GN53539 | 0.0040 | 0.0 | mg/l | 0.05 | 0.0532 | 106.4 | 90-110% |
| Phosphorus, Total | GP29437/GN53686 | 0.010 | 0.0 | mg/l | | | | |
| Phosphorus, Total | GP29437/GN53686 | 0.010 | 0.0 | mg/l | 0.2 | 0.219 | 109.5 | 90-110% |
| Slime Forming Bacteria | MB1447 | 500 | <500 | CFU/ml | | | | |
| Solids, Total Dissolved | GN53538 | 10 | 0.0 | mg/l | 250 | 250 | 98.8 | 90-110% |
| Solids, Total Dissolved | GN53538 | 10 | 0.0 | mg/l | 250 | 250 | 98.8 | 90-110% |
| Specific Conductivity | GN53556 | | | umhos/cm | xxxxxxx | 999 | 100.1 | 90-110% |
| Sulfate | GP29339/GN53539 | 0.50 | 0.0 | mg/l | 5 | 5.27 | 105.4 | 90-110% |
| Sulfate Reducing Bacteria | MB1448 | 200 | <200 | CFU/ml | | | | |

Associated Samples:

Batch MB1446: DA35338-1B
Batch MB1447: DA35338-1B
Batch MB1448: DA35338-1B
Batch GN53538: DA35338-1
Batch GN53542: DA35338-1
Batch GN53543: DA35338-1
Batch GN53544: DA35338-1
Batch GN53556: DA35338-1
Batch GP29339: DA35338-1
Batch GP29437: DA35338-1
(*) Outside of QC limits

10.1
10

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA35338
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| Analyte | Batch ID | QC Sample | Units | Original Result | DUP Result | RPD | QC Limits |
|----------------------------|-----------------|-----------|----------|-----------------|------------|--------|-----------|
| Alkalinity, Total as CaCO3 | GN53542 | DA35338-1 | mg/l | 535 | 535 | 0.0 | 0-20% |
| Phosphorus, Total | GP29437/GN53686 | DA35246-8 | mg/l | 9.1 | 9.2 | 1.1 | 0-20% |
| Solids, Total Dissolved | GN53538 | DA35182-1 | mg/l | 149 | 161 | 7.7(a) | 0-5% |
| Solids, Total Dissolved | GN53538 | DA35182-1 | mg/l | 149 | 160 | 7.7(a) | 0-5% |
| Specific Conductivity | GN53556 | DA35308-1 | umhos/cm | 3470 | 3490 | 0.6 | 0-20% |

Associated Samples:

Batch GN53538: DA35338-1

Batch GN53542: DA35338-1

Batch GN53556: DA35338-1

Batch GP29437: DA35338-1

(*) Outside of QC limits

(a) High RPD acceptable due to low sample and duplicate concentration.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA35338
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MS Result | %Rec | QC Limits |
|--|-----------------|-----------|-------|-----------------|--------------|-----------|----------|-----------|
| Alkalinity, Total as CaCO ₃ | GN53542 | DA35340-1 | mg/l | 555 | 100 | 660 | 105.0 | 80-120% |
| Bromide | GP29339/GN53539 | DA35321-2 | mg/l | 0.63 U | 12.5 | 12.9 | 103.2 | 80-120% |
| Chloride | GP29339/GN53539 | DA35321-2 | mg/l | 59.5 | 125 | 192 | 106.0 | 80-120% |
| Fluoride | GP29339/GN53539 | DA35321-2 | mg/l | 1.3 U | 25 | 24.7 | 98.8 | 80-120% |
| Nitrogen, Nitrate | GP29339/GN53539 | DA35321-2 | mg/l | 6.6 | 2.5 | 9.3 | 108.0 | 80-120% |
| Nitrogen, Nitrite | GP29339/GN53539 | DA35321-2 | mg/l | 0.075 U | 1.25 | 1.4 | 112.0 | 80-120% |
| Phosphorus, Total | GP29437/GN53686 | DA35246-6 | mg/l | 9.9 | 0.2 | 9.8 | -28.0(a) | 90-110% |
| Sulfate | GP29339/GN53539 | DA35321-2 | mg/l | 33.3 | 125 | 163 | 103.8 | 80-120% |

Associated Samples:

Batch GN53542: DA35338-1

Batch GP29339: DA35338-1

Batch GP29437: DA35338-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA35338
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Badger_12N_3HZ

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MSD Result | RPD | QC Limit |
|--|-----------------|-----------|-------|-----------------|--------------|------------|-----|----------|
| Alkalinity, Total as CaCO ₃ | GN53542 | DA35340-1 | mg/l | 555 | 100 | 650 | 1.5 | 20% |
| Bromide | GP29339/GN53539 | DA35321-2 | mg/l | 0.63 U | 12.5 | 12.7 | 1.6 | 20% |
| Chloride | GP29339/GN53539 | DA35321-2 | mg/l | 59.5 | 125 | 191 | 0.5 | 20% |
| Fluoride | GP29339/GN53539 | DA35321-2 | mg/l | 1.3 U | 25 | 24.6 | 0.4 | 20% |
| Nitrogen, Nitrate | GP29339/GN53539 | DA35321-2 | mg/l | 6.6 | 2.5 | 9.3 | 0.0 | 20% |
| Nitrogen, Nitrite | GP29339/GN53539 | DA35321-2 | mg/l | 0.075 U | 1.25 | 1.3 | 7.4 | 20% |
| Sulfate | GP29339/GN53539 | DA35321-2 | mg/l | 33.3 | 125 | 161 | 1.2 | 20% |

Associated Samples:

Batch GN53542: DA35338-1

Batch GP29339: DA35338-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits