



August 3, 2023

Pamela Knight
1979 CARLSON RD
PARKER, CO 80138

**RE: GMT Exploration Company, LLC
Sample ID: Knight 81454-F
Water Source Sampling Results**

Dear Mr. Knight:

On July 05, 2023, WSP USA Inc. (WSP), on behalf of GMT Exploration Company, LLC (GMT), sampled your water source (well permit #81454F, Receipt #3683107), located in located in the northeast quarter of the northeast quarter in section 26, township 6 south, and range 65 west. Per the Colorado Oil and Gas Conservation Commission (COGCC) Rule 609, the water source has been identified within ½-mile of GMT's planned drilling activity. Baseline water samples were collected on February 10, 2022, prior to initially drilling an oil and gas well. The recent post well completion samples were collected to test the water quality of aquifer in the location of your water source after the completion of well and gas drilling.

FIELD WORK

WSP documented the visual appearance and odor (if any) of the water source. Field parameters (specific conductance, dissolved oxygen, pH, and temperature) were measured with instruments calibrated in accordance with manufacturer specifications and recorded prior to sampling.

Disposable or decontaminated equipment was used to collect the sample in containers supplied by the analytical laboratory.

ANALYTICAL RESULTS

WSP submitted the sample, under chain-of-custody procedures, to SGS Laboratories in Wheat Ridge, Colorado for the required water quality analysis. The laboratory analytical report, provided by SGS laboratories, is included as an Attachment. The Colorado Water Quality Control Commission has established regulation 41, the basic standards for groundwater. These standards can be used for general comparison to private water wells and can be accessed at the following internet address:

<https://cdphe.colorado.gov/water-quality-control-commission-regulations>

WSP USA
7245 W Alaska Dr STE 200
LAKEWOOD CO 80226

Tel.: 303-980-0540

wsp.com



SUMMARY

The analytical report provided by SGS Laboratories is included as an Attachment with field sampling forms. The laboratory analytical results from the water well sampling is provided to you.

GMT and WSP appreciate your cooperation in this sampling program. Should you have any questions, feel free to call me at 929-230-4126.

Sincerely,

WSP USA Inc.

Alisha D.

Alisha Dahal
Assistant Consultant, Geologist

Enclosure:

SGS Laboratory Analytical Report and Field Notes

ENCLOSURE A – SGS LABORATORY ANALYTICAL REPORT AND
FIELD NOTES

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP

Irwin Taylor/Marble Redstone

31403332.00

SGS Job Number: DA56609

Sampling Date: 07/05/23



Report to:

**WSP Environmental
4600 West 60th Avenue
Arvada, CO 80003
alisha.dahal@wsp.com; david.stainback@wsp.com**

ATTN: Alisha Dahal

Total number of pages in report: 45



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 unless noted in the narrative, comments or footnotes.

Eric Hoffman

Client Service contact: Kelly Blanchard 303-425-6021

Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049)

LA (LA150028), TX (T104704511), WY (8TMS-L), HI (CO00049), NJ (CO011), NV (CO00049)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

WSP

Job No: DA56609

Irwin Taylor/Marble Redstone
Project No: 31403332.00

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

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

| | | | | | | |
|-----------|----------|----------|----------|----|--------------|----------------|
| DA56609-1 | 07/05/23 | 14:30 AD | 07/05/23 | AQ | Ground Water | KNIGHT 81454-F |
|-----------|----------|----------|----------|----|--------------|----------------|

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: WSP

Job No: DA56609

Site: Irwin Taylor/Marble Redstone

Report Date 7/18/2023 3:48:00 AM

On 07/05/2023, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.2 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA56609 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: V5V3727 |
|-------------------|--------------------------|

- 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: GFK291 |
|-------------------|-------------------------|

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

GC Volatiles By Method SW846 8015D

| | |
|-------------------|--------------------------|
| Matrix: AQ | Batch ID: GGA2753 |
|-------------------|--------------------------|

- 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: OP23954 |
|-------------------|--------------------------|

- All samples were extracted 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) DA56527-8MS, DA56527-8MSD were used as the QC samples indicated.

Metals Analysis By Method EPA 200.7

| | |
|-------------------|--------------------------|
| Matrix: AQ | Batch ID: MP37656 |
|-------------------|--------------------------|

- 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) DA56612-2MS, DA56612-2MSD were used as the QC samples for the metals analysis.

General Chemistry By Method EPA 365.1

Matrix: AQ **Batch ID:** GP34609

- 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) DA56593-2DUP, DA56593-2MS, DA56593-2MSD were used as the QC samples for the Phosphorus, Total analysis.

General Chemistry By Method EPA300.0

Matrix: AQ **Batch ID:** GP34612

- 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) DA56652-2MS, DA56652-2MSD were used as the QC samples for the Bromide, Chloride, Fluoride, Sulfate, Bromide analysis.

General Chemistry By Method SM 2320B-2011

Matrix: AQ **Batch ID:** GN60617

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA56604-1DUP, DA56604-1MS, DA56604-1MSD were used as the QC samples for the Alkalinity, Total as CaCO₃ analysis.

Matrix: AQ **Batch ID:** GN60618

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

Matrix: AQ **Batch ID:** GN60619

- 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 2540C-2011

Matrix: AQ **Batch ID:** GN60640

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA56627-2DUP were used as the QC samples for the Solids, Total Dissolved analysis.

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

Job Number: DA56609
Account: WSP
Project: Irwin Taylor/Marble Redstone
Collected: 07/05/23



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

DA56609-1 KNIGHT 81454-F

| | | | | | | |
|----------------------------------|-------|-------|--|--|------|---------------|
| Calcium | 26400 | 400 | | | ug/l | EPA 200.7 |
| Magnesium | 2140 | 200 | | | ug/l | EPA 200.7 |
| Potassium | 3710 | 1000 | | | ug/l | EPA 200.7 |
| Sodium | 12600 | 400 | | | ug/l | EPA 200.7 |
| Fluoride | 0.37 | 0.10 | | | mg/l | EPA300.0 |
| Chloride | 3.3 | 0.50 | | | mg/l | EPA300.0 |
| Bromide | 0.075 | 0.050 | | | mg/l | EPA300.0 |
| Sulfate | 13.3 | 0.50 | | | mg/l | EPA300.0 |
| Alkalinity, Bicarbonate as CaCO3 | 80.0 | 5.0 | | | mg/l | SM 2320B-2011 |
| Alkalinity, Total as CaCO3 | 80.0 | 5.0 | | | mg/l | SM 2320B-2011 |
| Phosphorus, Total | 0.023 | 0.010 | | | mg/l | EPA 365.1 |
| Solids, Total Dissolved | 150 | 10 | | | mg/l | SM 2540C-2011 |

Sample Results

Report of Analysis

Report of Analysis

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client Sample ID: KNIGHT 81454-F Lab Sample ID: DA56609-1 Matrix: AQ - Ground Water Method: SW846 8260B Project: Irwin Taylor/Marble Redstone | Date Sampled: 07/05/23 Date Received: 07/05/23 Percent Solids: n/a |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5V75653.D | 1 | 07/11/23 23:43 | MB | n/a | n/a | V5V3727 |
| 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 | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 105% | | 70-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | | 70-130% |
| 2037-26-5 | Toluene-D8 | 104% | | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 112% | | 70-130% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

| | |
|----------------------------------------------|--------------------------------|
| Client Sample ID: KNIGHT 81454-F | Date Sampled: 07/05/23 |
| Lab Sample ID: DA56609-1 | Date Received: 07/05/23 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8015D | |
| Project: Irwin Taylor/Marble Redstone | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | GA61719.D | 1 | 07/11/23 21:21 | MB | n/a | n/a | GGA2753 |
| 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 | 0.040 | 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 J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client Sample ID: KNIGHT 81454-F Lab Sample ID: DA56609-1 Matrix: AQ - Ground Water Method: RSK175 MOD Project: Irwin Taylor/Marble Redstone | Date Sampled: 07/05/23 Date Received: 07/05/23 Percent Solids: n/a |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | FK4026.D | 1 | 07/12/23 16:30 | MB | n/a | n/a | GFK291 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Headspace Volume | Volume Injected | Temperature |
|--------|----------------|------------------|-----------------|-------------|
| Run #1 | 39.0 ml | 4.0 ml | 500 ul | 21.6 Deg. C |
| Run #2 | | | | |

Methane, Ethane and Propane

| 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 | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Client Sample ID: KNIGHT 81454-F Lab Sample ID: DA56609-1 Matrix: AQ - Ground Water Method: SW846-8015D SW846 3510C Project: Irwin Taylor/Marble Redstone | Date Sampled: 07/05/23 Date Received: 07/05/23 Percent Solids: n/a |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | LW13128.D | 1 | 07/11/23 14:57 | JB | 07/06/23 10:30 | OP23954 | GLW483 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH-DRO (C10-C28) | ND | 0.50 | 0.19 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 81% | | 10-131% | | |

| | |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range | MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

4.1
4

Report of Analysis

| | |
|----------------------------------------------|--------------------------------|
| Client Sample ID: KNIGHT 81454-F | Date Sampled: 07/05/23 |
| Lab Sample ID: DA56609-1 | Date Received: 07/05/23 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Project: Irwin Taylor/Marble Redstone | |

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|------|-------|----|----------|-------------|----------------------------|------------------------|
| Calcium | 26400 | 400 | ug/l | 1 | 07/07/23 | 07/11/23 | CDL EPA 200.7 ¹ | EPA 200.7 ² |
| Magnesium | 2140 | 200 | ug/l | 1 | 07/07/23 | 07/11/23 | CDL EPA 200.7 ¹ | EPA 200.7 ² |
| Potassium | 3710 | 1000 | ug/l | 1 | 07/07/23 | 07/11/23 | CDL EPA 200.7 ¹ | EPA 200.7 ² |
| Sodium | 12600 | 400 | ug/l | 1 | 07/07/23 | 07/11/23 | CDL EPA 200.7 ¹ | EPA 200.7 ² |

(1) Instrument QC Batch: MA16739

(2) Prep QC Batch: MP37656

RL = Reporting Limit

Report of Analysis

| | |
|----------------------------------------------|--------------------------------|
| Client Sample ID: KNIGHT 81454-F | Date Sampled: 07/05/23 |
| Lab Sample ID: DA56609-1 | Date Received: 07/05/23 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Project: Irwin Taylor/Marble Redstone | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|--------------------------------|--------|-------|-------|----|----------------|----|---------------|
| 300.0 | | | | | | | |
| Fluoride | 0.37 | 0.10 | mg/l | 1 | 07/07/23 13:17 | CS | EPA300.0 |
| Chloride | 3.3 | 0.50 | mg/l | 1 | 07/07/23 13:17 | CS | EPA300.0 |
| Bromide | 0.075 | 0.050 | mg/l | 1 | 07/07/23 13:17 | CS | EPA300.0 |
| Sulfate | 13.3 | 0.50 | mg/l | 1 | 07/07/23 13:17 | CS | EPA300.0 |
| Alkalinity, Bicarbonate as CaC | 80.0 | 5.0 | mg/l | 1 | 07/06/23 12:00 | JW | SM 2320B-2011 |
| Alkalinity, Carbonate | < 5.0 | 5.0 | mg/l | 1 | 07/06/23 12:00 | JW | SM 2320B-2011 |
| Alkalinity, Total as CaCO3 | 80.0 | 5.0 | mg/l | 1 | 07/06/23 12:00 | JW | SM 2320B-2011 |
| Phosphorus, Total | 0.023 | 0.010 | mg/l | 1 | 07/07/23 12:39 | MB | EPA 365.1 |
| Solids, Total Dissolved | 150 | 10 | mg/l | 1 | 07/07/23 08:00 | JW | SM 2540C-2011 |

RL = Reporting Limit

4.1
4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS Sample Receipt Summary

Job Number: DA56609

Client: WSP

Project: IRWINTAYLOR

Date / Time Received: 7/5/2023 5:00:00 PM

Delivery Method: HD

Airbill #s:

Cooler Temps (Initial/Adjusted): #1: (4.2/4.2):

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | IR Gun; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|----------------------------------------|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|-------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

DA56609: Chain of Custody

Page 2 of 3

5.1
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Problem Resolution

Page 2 of 2

Job Number: DA56609

CSR: _____

Response Date: _____

Response:

5.1

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DA56609: Chain of Custody
Page 3 of 3

MS 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: DA56609
 Account: LTENCODE WSP
 Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5V3727-MB | 5V75638.D | 1 | 07/11/23 | MB | n/a | n/a | V5V3727 |

The QC reported here applies to the following samples:

Method: SW846 8260B

DA56609-1

| 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 | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 1.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Limits | |
|------------|-----------------------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 107% | 70-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | 70-130% |
| 2037-26-5 | Toluene-D8 | 101% | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | 70-130% |

6.1.1
6

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA56609
 Account: LTENCODE WSP
 Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|------------|----|----------|----|-----------|------------|------------------|
| V5V3727-BS | 5V75633A.D | 1 | 07/11/23 | MB | n/a | n/a | V5V3727 |
| V5V3727-BSD | 5V75634.D | 1 | 07/11/23 | MB | n/a | n/a | V5V3727 |

The QC reported here applies to the following samples:

Method: SW846 8260B

DA56609-1

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|-----------|----------------|---------------|-------------|----------|-------------|----------|-----|-------------------|
| 71-43-2 | Benzene | 50 | 51.7 | 103 | 51.1 | 102 | 1 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 50 | 51.3 | 103 | 50.7 | 101 | 1 | 70-130/30 |
| 108-88-3 | Toluene | 50 | 51.2 | 102 | 50.8 | 102 | 1 | 70-130/30 |
| 1330-20-7 | Xylene (total) | 150 | 156 | 104 | 155 | 103 | 1 | 70-130/30 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|------------|-----------------------|------|------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | 101% | 70-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 100% | 70-130% |
| 2037-26-5 | Toluene-D8 | 99% | 99% | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 96% | 70-130% |

* = Outside of Control Limits.

GC 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: DA56609
Account: LTENCODE WSP
Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| GGA2753-MB | GA61712.D | 1 | 07/11/23 | MB | n/a | n/a | GGA2753 |

The QC reported here applies to the following samples:

Method: SW846 8015D

DA56609-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|------------------|--------|-------|-------|-------|---|
| | TPH-GRO (C6-C10) | ND | 0.050 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Limits |
|----------|------------------------|--------------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 101% 60-140% |

7.1.1

7

Method Blank Summary

Job Number: DA56609
Account: LTENCODE WSP
Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| GFK291-MB | FK4017.D | 1 | 07/12/23 | MB | n/a | n/a | GFK291 |

The QC reported here applies to the following samples:

Method: RSK175 MOD

DA56609-1

| 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 | |

7.1.2

7

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA56609
 Account: LTENCODE WSP
 Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| GGA2753-BS | GA61709.D | 1 | 07/11/23 | MB | n/a | n/a | GGA2753 |
| GGA2753-BSD | GA61710.D | 1 | 07/11/23 | MB | n/a | n/a | GGA2753 |

The QC reported here applies to the following samples:

Method: SW846 8015D

DA56609-1

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | BSD mg/l | BSD % | RPD | Limits Rec/RPD |
|---------|------------------|---------------|-------------|----------|-------------|----------|-----|-------------------|
| | TPH-GRO (C6-C10) | 2.2 | 1.77 | 80 | 1.82 | 83 | 3 | 64-130/30 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|----------|------------------------|------|------|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 114% | 111% | 60-140% |

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA56609
 Account: LTENCODE WSP
 Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|----------|----|----------|----|-----------|------------|------------------|
| GFK291-BS | FK4018.D | 10 | 07/12/23 | MB | n/a | n/a | GFK291 |
| GFK291-BSD | FK4019.D | 10 | 07/12/23 | MB | n/a | n/a | GFK291 |

The QC reported here applies to the following samples:

Method: RSK175 MOD

DA56609-1

| CAS No. | Compound | Spike | BSP | BSP | BSD | BSD | RPD | Limits |
|---------|----------|-------|-------|-----|-------|-----|-----|-----------|
| | | mg/l | mg/l | % | mg/l | % | | Rec/RPD |
| 74-82-8 | Methane | 0.512 | 0.439 | 86 | 0.434 | 85 | 1 | 70-135/30 |
| 74-84-0 | Ethane | 0.923 | 0.829 | 90 | 0.822 | 89 | 1 | 70-147/30 |
| 74-98-6 | Propane | 1.38 | 1.13 | 82 | 1.12 | 81 | 1 | 70-140/30 |

* = Outside of Control Limits.

7.2.2
7

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: DA56609
Account: LTENCODE WSP
Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP23954-MB | LW12927.D | 1 | 07/08/23 | JB | 07/06/23 | OP23954 | GLW481 |

The QC reported here applies to the following samples:

Method: SW846-8015D

DA56609-1

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

| CAS No. | Surrogate Recoveries | Limits |
|---------|----------------------|-------------|
| 84-15-1 | o-Terphenyl | 71% 10-131% |

Blank Spike Summary

Job Number: DA56609
Account: LTENCODE WSP
Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP23954-BS | LW12928.D | 1 | 07/08/23 | JB | 07/06/23 | OP23954 | GLW481 |

The QC reported here applies to the following samples:

Method: SW846-8015D

DA56609-1

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---------|-------------------|---------------|-------------|----------|--------|
| | TPH-DRO (C10-C28) | 5 | 4.12 | 82 | 20-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---------|----------------------|------|---------|
| 84-15-1 | o-Terphenyl | 100% | 10-131% |

8.2.1

8

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA56609
 Account: LTENCODE WSP
 Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP23954-BS | LW12931.D | 1 | 07/08/23 | JB | 07/06/23 | OP23954 | GLW481 |

The QC reported here applies to the following samples:

Method: SW846-8015D

DA56609-1

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---------|----------|---------------|-------------|----------|--------|
|---------|----------|---------------|-------------|----------|--------|

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---------|----------------------|-----|---------|
| 84-15-1 | o-Terphenyl | 90% | 10-131% |

8.2.2
8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA56609
 Account: LTENCODE WSP
 Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|----|----------|----|-----------|------------|------------------|
| OP23954-MS | LW12929.D | 1 | 07/08/23 | JB | 07/06/23 | OP23954 | GLW481 |
| OP23954-MSD | LW12930.D | 1 | 07/08/23 | JB | 07/06/23 | OP23954 | GLW481 |
| DA56527-8 ^a | LW12934.D | 1 | 07/08/23 | JB | 07/06/23 | OP23954 | GLW481 |

The QC reported here applies to the following samples:

Method: SW846-8015D

DA56609-1

| CAS No. | Compound | DA56527-8 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 | 5 | 3.53 | 71 | 5 | 3.50 | 70 | 1 | 20-130/30 |

| CAS No. | Surrogate Recoveries | MS | MSD | DA56527-8 | Limits |
|---------|----------------------|-----|-----|-----------|---------|
| 84-15-1 | o-Terphenyl | 94% | 93% | 82% | 10-131% |

(a) Used for QC purposes only.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA56609
 Account: LTENCODE WSP
 Project: Irwin Taylor/Marble Redstone

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|----|----------|----|-----------|------------|------------------|
| OP23954-MS | LW12932.D | 1 | 07/08/23 | JB | 07/06/23 | OP23954 | GLW481 |
| OP23954-MSD | LW12933.D | 1 | 07/08/23 | JB | 07/06/23 | OP23954 | GLW481 |
| DA56527-8 ^a | LW12934.D | 1 | 07/08/23 | JB | 07/06/23 | OP23954 | GLW481 |

The QC reported here applies to the following samples:

Method: SW846-8015D

DA56609-1

| CAS No. | Compound | DA56527-8 mg/l | Spike Q | MS mg/l | MS % | Spike mg/l | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---------|----------|-------------------|------------|------------|---------|---------------|-------------|----------|-----|-------------------|
|---------|----------|-------------------|------------|------------|---------|---------------|-------------|----------|-----|-------------------|

| CAS No. | Surrogate Recoveries | MS | MSD | DA56527-8 | Limits |
|---------|----------------------|-----|-----|-----------|---------|
| 84-15-1 | o-Terphenyl | 93% | 92% | 82% | 10-131% |

(a) Used for QC purposes only.

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

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: DA56609
Account: LTENCODE - WSP
Project: Irwin Taylor/Marble Redstone

QC Batch ID: MP37656
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/07/23

| Metal | RL | IDL | MDL | MB raw | final |
|------------|------|-----|-----|-----------|-------|
| Aluminum | 100 | 46 | 50 | | |
| Antimony | 30 | 14 | 20 | | |
| Arsenic | 25 | 22 | 7 | | |
| Barium | 10 | .3 | 3 | | |
| Beryllium | 10 | 1 | 2 | | |
| Boron | 50 | 3.3 | 10 | | |
| Cadmium | 10 | 1.9 | 5 | | |
| Calcium | 400 | 6.6 | 61 | -12 | <400 |
| Chromium | 10 | 1.1 | 2 | | |
| Cobalt | 5.0 | 2.7 | 4 | | |
| Copper | 10 | 4.6 | 6 | | |
| Iron | 20 | 8.9 | 10 | | |
| Lead | 50 | 13 | 15 | | |
| Lithium | 5.0 | .6 | 4 | | |
| Magnesium | 200 | 50 | 40 | -6.5 | <200 |
| Manganese | 5.0 | .5 | 1 | | |
| Molybdenum | 10 | 8.5 | 3 | | |
| Nickel | 30 | 6.2 | 10 | | |
| Phosphorus | 150 | 91 | 110 | | |
| Potassium | 1000 | 84 | 300 | -6.4 | <1000 |
| Selenium | 50 | 30 | 30 | | |
| Silicon | 100 | 41 | 50 | | |
| Silver | 30 | .6 | 5 | | |
| Sodium | 400 | 13 | 150 | 17.9 | <400 |
| Strontium | 5.0 | .1 | 1 | | |
| Thallium | 12 | 17 | 11 | | |
| Tin | 60 | 41 | 51 | | |
| Titanium | 10 | .5 | 2 | | |
| Uranium | 50 | 3.9 | 20 | | |
| Vanadium | 10 | .9 | 2 | | |
| Zinc | 30 | 9 | 7 | | |

Associated samples MP37656: DA56609-1

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA56609
Account: LTENCODE - WSP
Project: Irwin Taylor/Marble Redstone

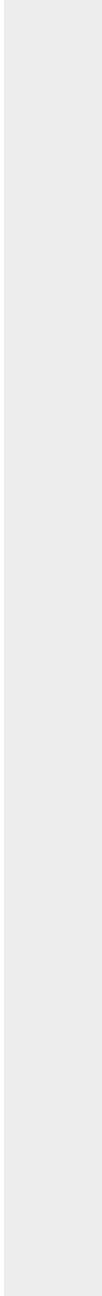
QC Batch ID: MP37656
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/07/23

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

(anr) Analyte not requested



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA56609
 Account: LTENCODE - WSP
 Project: Irwin Taylor/Marble Redstone

QC Batch ID: MP37656
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/07/23

| Metal | DA56612-2 Original MS | Spikelot ICPAL5 | % Rec | QC Limits |
|------------|--------------------------|--------------------|-------|--------------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | | | | |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Calcium | 3150 | 8410 | 5000 | 105.2 70-130 |
| Chromium | anr | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | anr | | | |
| Lead | | | | |
| Lithium | | | | |
| Magnesium | 617 | 6120 | 5000 | 110.1 70-130 |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Phosphorus | | | | |
| Potassium | 503 | 5440 | 5000 | 98.7 70-130 |
| Selenium | | | | |
| Silicon | | | | |
| Silver | | | | |
| Sodium | 1900 | 6970 | 5000 | 101.4 70-130 |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP37656: DA56609-1

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

9.1.2
 9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA56609
Account: LTENCODE - WSP
Project: Irwin Taylor/Marble Redstone

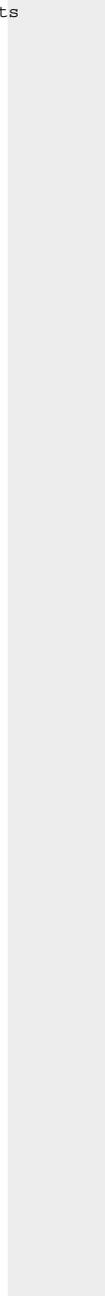
QC Batch ID: MP37656
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/07/23

| Metal | DA56612-2 Original MS | Spike/lot ICPAL5 % Rec | QC Limits |
|-------|--------------------------|---------------------------|--------------|
|-------|--------------------------|---------------------------|--------------|

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA56609
 Account: LTENCODE - WSP
 Project: Irwin Taylor/Marble Redstone

QC Batch ID: MP37656
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/07/23

| Metal | DA56612-2 Original MSD | Spikelot ICPAL5 | % Rec | MSD RPD | QC Limit | |
|------------|---------------------------|--------------------|-------|------------|-------------|----|
| Aluminum | | | | | | |
| Antimony | | | | | | |
| Arsenic | | | | | | |
| Barium | | | | | | |
| Beryllium | | | | | | |
| Boron | | | | | | |
| Cadmium | | | | | | |
| Calcium | 3150 | 8660 | 5000 | 110.2 | 2.9 | 20 |
| Chromium | anr | | | | | |
| Cobalt | | | | | | |
| Copper | | | | | | |
| Iron | anr | | | | | |
| Lead | | | | | | |
| Lithium | | | | | | |
| Magnesium | 617 | 6310 | 5000 | 113.9 | 3.1 | 20 |
| Manganese | | | | | | |
| Molybdenum | | | | | | |
| Nickel | | | | | | |
| Phosphorus | | | | | | |
| Potassium | 503 | 5600 | 5000 | 101.9 | 2.9 | 20 |
| Selenium | | | | | | |
| Silicon | | | | | | |
| Silver | | | | | | |
| Sodium | 1900 | 7160 | 5000 | 105.2 | 2.7 | 20 |
| Strontium | | | | | | |
| Thallium | | | | | | |
| Tin | | | | | | |
| Titanium | | | | | | |
| Uranium | | | | | | |
| Vanadium | | | | | | |
| Zinc | | | | | | |

Associated samples MP37656: DA56609-1

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

9.1.2
 9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA56609
Account: LTENCODE - WSP
Project: Irwin Taylor/Marble Redstone

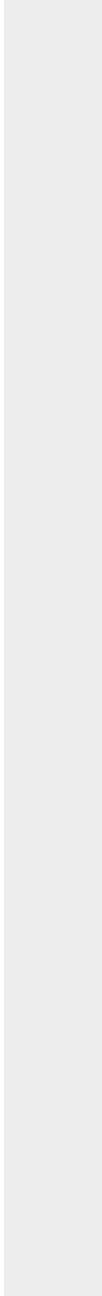
QC Batch ID: MP37656
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/07/23

| Metal | DA56612-2 Original MSD | Spike/lot ICPALS % Rec | MSD RPD | QC Limit |
|-------|---------------------------|---------------------------|------------|-------------|
|-------|---------------------------|---------------------------|------------|-------------|

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested



9.1.2
9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA56609
 Account: LTENCODE - WSP
 Project: Irwin Taylor/Marble Redstone

QC Batch ID: MP37656
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 07/07/23

| Metal | BSP Result | Spikelot ICPALL5 | % Rec | QC Limits |
|------------|------------|------------------|-------|-----------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | | | | |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Calcium | 5270 | 5000 | 105.4 | 85-115 |
| Chromium | anr | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | anr | | | |
| Lead | | | | |
| Lithium | | | | |
| Magnesium | 5530 | 5000 | 110.6 | 85-115 |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Phosphorus | | | | |
| Potassium | 5010 | 5000 | 100.2 | 85-115 |
| Selenium | | | | |
| Silicon | | | | |
| Silver | | | | |
| Sodium | 5150 | 5000 | 103.0 | 85-115 |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP37656: DA56609-1

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

9.1.3
 9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA56609
Account: LTENCODE - WSP
Project: Irwin Taylor/Marble Redstone

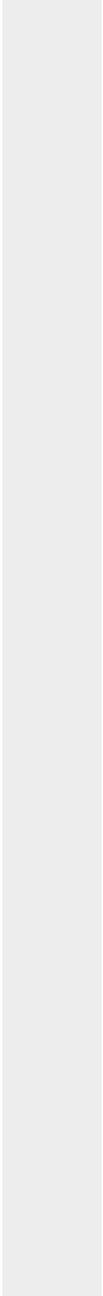
QC Batch ID: MP37656
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 07/07/23

| Metal | BSP Result | Spikelot ICPALL5 | % Rec | QC Limits |
|-------|---------------|---------------------|-------|--------------|
|-------|---------------|---------------------|-------|--------------|

(anr) Analyte not requested



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: DA56609
Account: LTENCODE - WSP
Project: Irwin Taylor/Marble Redstone

| Analyte | Batch ID | RL | MB Result | Units | Spike Amount | BSP Result | BSP %Recov | QC Limits |
|--------------------------------|-----------------|--------|-----------|-------|--------------|------------|------------|-----------|
| Alkalinity, Bicarbonate as CaC | GN60618 | 5.0 | 0.0 | mg/l | 100 | 100 | 100.0 | 90-110% |
| Alkalinity, Carbonate | GN60619 | 5.0 | 0.0 | mg/l | 100 | 100 | 100.0 | 90-110% |
| Alkalinity, Total as CaCO3 | GN60617 | 5.0 | 0.0 | mg/l | 100 | 100 | 100.0 | 90-110% |
| Bromide | GP34612/GN60635 | 0.050 | 0.0 | mg/l | 0.5 | 0.496 | 99.2 | 90-110% |
| Chloride | GP34612/GN60635 | 0.50 | 0.0 | mg/l | 5 | 4.72 | 94.4 | 90-110% |
| Fluoride | GP34612/GN60635 | 0.10 | 0.0 | mg/l | 1 | 0.957 | 95.7 | 90-110% |
| Nitrogen, Nitrate | GP34612/GN60635 | 0.010 | 0.0 | mg/l | 0.1 | 0.0984 | 98.4 | 90-110% |
| Nitrogen, Nitrite | GP34612/GN60635 | 0.0040 | 0.0 | mg/l | 0.05 | 0.0478 | 95.6 | 90-110% |
| Phosphorus, Total | GP34609/GN60632 | 0.010 | 0.0 | mg/l | 0.2 | 0.199 | 99.5 | 90-110% |
| Solids, Total Dissolved | GN60640 | 10 | 0.0 | mg/l | 250 | 258 | 103.2 | 90-110% |
| Solids, Total Dissolved | GN60640 | 10 | 0.0 | mg/l | 250 | 258 | 103.2 | 90-110% |
| Sulfate | GP34612/GN60635 | 0.50 | 0.0 | mg/l | 5 | 4.86 | 97.2 | 90-110% |

Associated Samples:

Batch GN60617: DA56609-1
Batch GN60618: DA56609-1
Batch GN60619: DA56609-1
Batch GN60640: DA56609-1
Batch GP34609: DA56609-1
Batch GP34612: DA56609-1
(*) Outside of QC limits

10.1
10

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA56609
Account: LTENCODE - WSP
Project: Irwin Taylor/Marble Redstone

| Analyte | Batch ID | QC Sample | Units | Original Result | DUP Result | RPD | QC Limits |
|----------------------------|-----------------|-----------|-------|-----------------|------------|-----|-----------|
| Alkalinity, Total as CaCO3 | GN60617 | DA56604-1 | mg/l | 145 | 145 | 0.0 | 0-20% |
| Phosphorus, Total | GP34609/GN60632 | DA56593-2 | mg/l | 0.54 | 0.52 | 3.8 | 0-20% |
| Solids, Total Dissolved | GN60640 | DA56627-2 | mg/l | 194 | 199 | 2.5 | 0-5.44% |
| Solids, Total Dissolved | GN60640 | DA56627-2 | mg/l | 194 | 199 | 2.5 | 0-5.44% |

Associated Samples:

Batch GN60617: DA56609-1

Batch GN60640: DA56609-1

Batch GP34609: DA56609-1

(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA56609
Account: LTENCODE - WSP
Project: Irwin Taylor/Marble Redstone

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MS Result | %Rec | QC Limits |
|----------------------------|-----------------|-----------|-------|-----------------|--------------|-----------|-------|-----------|
| Alkalinity, Total as CaCO3 | GN60617 | DA56604-1 | mg/l | 145 | 100 | 250 | 105.0 | 80-120% |
| Bromide | GP34612/GN60635 | DA56652-2 | mg/l | 0.63 U | 12.5 | 13.0 | 104.0 | 80-120% |
| Chloride | GP34612/GN60635 | DA56652-2 | mg/l | 141 | 125 | 270 | 103.2 | 80-120% |
| Fluoride | GP34612/GN60635 | DA56652-2 | mg/l | 1.3 U | 25 | 25.7 | 102.8 | 80-120% |
| Nitrogen, Nitrate | GP34612/GN60635 | DA56652-2 | mg/l | 4.4 | 2.5 | 6.9 | 100.0 | 80-120% |
| Nitrogen, Nitrite | GP34612/GN60635 | DA56652-2 | mg/l | 0.48 | 1.25 | 1.7 | 97.6 | 80-120% |
| Phosphorus, Total | GP34609/GN60632 | DA56593-2 | mg/l | 0.54 | 0.2 | 0.73 | 95.0 | 90-110% |
| Sulfate | GP34612/GN60635 | DA56652-2 | mg/l | 190 | 125 | 318 | 102.4 | 80-120% |

Associated Samples:

Batch GN60617: DA56609-1

Batch GP34609: DA56609-1

Batch GP34612: DA56609-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

10.3
10

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA56609
Account: LTENCODE - WSP
Project: Irwin Taylor/Marble Redstone

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MSD Result | RPD | QC Limit |
|----------------------------|-----------------|-----------|-------|-----------------|--------------|------------|------|----------|
| Alkalinity, Total as CaCO3 | GN60617 | DA56604-1 | mg/l | 145 | 100 | 255 | 2.0 | 20% |
| Bromide | GP34612/GN60635 | DA56652-2 | mg/l | 0.63 U | 12.5 | 12.9 | 0.8 | 20% |
| Chloride | GP34612/GN60635 | DA56652-2 | mg/l | 141 | 125 | 268 | 2.6 | 20% |
| Fluoride | GP34612/GN60635 | DA56652-2 | mg/l | 1.3 U | 25 | 25.4 | 1.6 | 20% |
| Nitrogen, Nitrate | GP34612/GN60635 | DA56652-2 | mg/l | 4.4 | 2.5 | 6.9 | 0.0 | 20% |
| Nitrogen, Nitrite | GP34612/GN60635 | DA56652-2 | mg/l | 0.48 | 1.25 | 1.7 | 19.4 | 20% |
| Phosphorus, Total | GP34609/GN60632 | DA56593-2 | mg/l | 0.54 | 0.2 | 0.73 | 0.0 | 20% |
| Sulfate | GP34612/GN60635 | DA56652-2 | mg/l | 190 | 125 | 316 | 5.5 | 20% |

Associated Samples:

Batch GN60617: DA56609-1

Batch GP34609: DA56609-1

Batch GP34612: DA56609-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

10.4
10

ATTACHMENT 1 - Example Field Sampling Data Sheet

Field Sampling Data Sheet

COGCC Facility ID _____ Facility Name Irwin Taylor Date of Sample 07/05/23
Site Address 1979 Carlson Rd Site Contact Pam Knight Phone # 720-851-1671
Sample Type (baseline, post-drill, etc.): Post drill O&G API Number _____
Property Owner Name Pomelo Knight Phone # _____

Mailing Address 1979 Carlson Rd, Parker, CO

Individuals Present (Who was on-site during the sampling?) Alisha Dahal

Handed Out:

Introduction Letter? Y N FAQ Sheet? Y N How Well Do You Know Your Water Well Booklet? Y N

Water Well Information from Permit Records

Permit Number 81154-F Receipt Number: _____ Total Depth (ft): NA Static Water Level (ft): N/A
Yield (GPM): _____ Well Diameter (in): 4"

Water Well Information Onsite

GPS Location (field): 39.504498, -104.627960

GPS Location (post-processed): _____

Legal Location (qtrqtr Section Township Range): NE NE Sec 26 T6S R6SW

Casing height (in.): _____ Ground Elevation (ft): 6222 How determined: Google Earth

Approximate distance to the Oil & Gas well pad: 2,300

%LEL at wellhead (if measured): _____ %CH₄ (by volume) at wellhead (if measured): _____

Photo(s) Taken? Y N Weather conditions: Sunny 78°F

Where was the sample taken? (Outside Tap, Well House, Kitchen Tap, Spring, Seep, etc.) Hydrant Infront of the house

Condition of the Well, Spring or Seep (Wellhead sealed? Does the ground slope away from the well? Visible contamination of spring/seep? etc.): Good, sealed well head, hydrant in front of the house.

