



Final Results

Report To:

Steve Christensen
DEPT OF NATURAL RESOURCES-OGM (WT1177)
1594 W NORTH TEMPLE-SUITE 1210
Salt Lake City, UT 84114

Bill To:

Steve Christensen
DEPT OF NATURAL RESOURCES-OGM
1594 W NORTH TEMPLE-SUIT 1210
Salt Lake City, UT 84114

Project ID: C2019-02696

Steve Christensen,

Your sample(s) submitted to Utah Public Health Laboratory (UPHL) on Wednesday, June 26, 2019 were assigned the UPHL Project ID **C2019-02696**. Enclosed are the analytical results pertaining to that Project ID.

Herein are the results relating only to the sample(s) received and tested for the project C2019-02696. All associated analyses were performed following the UPHL Quality Assurance Plan. This report and its contents have been reviewed and approved by the appropriate Laboratory Staff and Supervisor(s). This report shall not be reproduced, except in full, without the written permission of UPHL.

If you have any questions regarding your results, please contact UPHL at (801) 965-2400 and reference the Project ID C2019-02696.

A handwritten signature in black ink, appearing to read 'Kyle Ashby', written over a horizontal line.

Reviewed by: Kyle Ashby
Reviewed on: 7/10/2019



Project Summary

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Bill To:

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1594 W NORTH TEMPLE-SUIT 1210
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Fax: 801-359-3940

E-mail: stevechristensen@utah.gov

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Project ID: C2019-02696

<u>Sample #</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Facility</u>	<u>Sampling Point</u>	<u>Site Description</u>
2191497	06/25/19	06/26/19	N/A	N/A	002
2191499	06/25/19	06/26/19	N/A	N/A	002

Facility: N/A Sampling Point: N/A Site Description: 002	
Sample ID: 2191497 Text ID: TCH19-1395 Matrix: Water Bottle Type: Total Chemistry - 1 L unpreserved plastic SDWIS Type: Private Investigative	Date Collected 6/25/2019 10:20:00AM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

Analysis Method - EPA 375.2

Analyzed By: Keith Henderson Analysis Date: 06/27/2019 Analysis Batch: EPA375.2-20190627-1 Instrument ID: CHM_LACHAT_02	Reviewed By: Boyd Neilson Reviewed Date: 06/28/2019 Prep Method: Prep Batch: Prep Date:														
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Result</th> <th>Dil Fac</th> <th>Qualifier</th> <th>MDL</th> <th>MRL</th> <th>SRL</th> </tr> </thead> <tbody> <tr> <td>Sulfate</td> <td>147 mg/L</td> <td>1</td> <td></td> <td>9.04 mg/L</td> <td>20.00 mg/L</td> <td>20.0 mg/L</td> </tr> </tbody> </table>	Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL	Sulfate	147 mg/L	1		9.04 mg/L	20.00 mg/L	20.0 mg/L	
Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL									
Sulfate	147 mg/L	1		9.04 mg/L	20.00 mg/L	20.0 mg/L									

Facility: N/A Sampling Point: N/A Site Description: 002	
Sample ID: 2191499 Text ID: UFL19-0288 Matrix: Water, Non-filtered Bottle Type: UnFiltered water for Drinking Water SDWIS Type: Private Investigative	Date Collected 6/25/2019 10:20:00AM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

Analysis Method - Turbidity for Metals

Analyzed By: Robert Lo Analysis Date: 06/27/2019 Analysis Batch: EPA180.1_M-20190627-1 Instrument ID:	Reviewed By: Robert Lo Reviewed Date: 06/27/2019 Prep Method: Prep Batch: Prep Date:														
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Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL									
Turbidity	<1 NTU	1		.5 NTU	1.0 NTU	1.0 NTU									

Analysis Method - EPA 200.8

Analyzed By: Robert Lo Analysis Date: 07/03/2019 Analysis Batch: EPA200.8-20190703-1 Instrument ID: CHM_AGILENT_7700	Reviewed By: Stefan Liao Reviewed Date: 07/05/2019 Prep Method: Prep Batch: Prep Date:																					
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Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL																
Selenium	<1.00 µg/L	1.00	U	0.5 µg/L	1 µg/L	1.0 µg/L																
Aluminum	<10.0 µg/L	1.00	U	5 µg/L	10 µg/L	10.0 µg/L																



Analytical Report

Project ID: C2019-02696

Facility: N/A Sampling Point: N/A Site Description: 002	
Sample ID: 2191499 (Continued) Text ID: UFL19-0288 Matrix: Water, Non-filtered Bottle Type: UnFiltered water for Drinking Water SDWIS Type: Private Investigative	Date Collected 6/25/2019 10:20:00AM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

Analysis Method - EPA 200.8

Analyzed By: Robert Lo Analysis Date: 06/27/2019 Analysis Batch: EPA200.8_M-20190628-1 Instrument ID: CHM_AGILENT_7700	Reviewed By: Robert Lo Reviewed Date: 07/01/2019 Prep Method: Prep Batch: Prep Date:
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Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL
Iron	1070 µg/L	1.00		15 µg/L	30 µg/L	30.0 µg/L

Report Comments

This report contains only the results for analyses requested and tested.

Unless otherwise noted:

- Samples were received in acceptable condition.
- Samples have not been blank corrected.
- All Quality Control Samples processed yielded acceptable results.

Report Symbol Definitions

MDL - Method Detection Limit, a statistically estimated concentration for instrument/method/matrix sensitivity.

MRL - Method Reporting Limit, the minimum concentration that can be reported as a quantitated value.

SRL - Sample Reporting Limit, the minimum concentration that can be reported as a quantitated value taking into account limitations inherent in the sample matrix.

ND - Not Detected, tested result was not detected above MDL or MRL.

< - Less than, tested result is less than the numerical value.

U - Not detected/reported



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Project ID: C2019-02697

Steve Christensen,

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Reviewed by: Kyle Ashby
Reviewed on: 7/10/2019



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Project ID: C2019-02697

<u>Sample #</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Facility</u>	<u>Sampling Point</u>	<u>Site Description</u>
2191498	06/25/19	06/26/19	N/A	N/A	PRE-002
2191500	06/25/19	06/26/19	N/A	N/A	PRE-002

Facility: N/A Sampling Point: N/A Site Description: PRE-002	
Sample ID: 2191498 Text ID: TCH19-1396 Matrix: Water Bottle Type: Total Chemistry - 1 L unpreserved plastic SDWIS Type: Private Investigative	Date Collected 6/25/2019 10:20:00AM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

Analysis Method - EPA 375.2

Analyzed By: Keith Henderson Analysis Date: 06/27/2019 Analysis Batch: EPA375.2-20190627-1 Instrument ID: CHM_LACHAT_02	Reviewed By: Boyd Neilson Reviewed Date: 06/28/2019 Prep Method: Prep Batch: Prep Date:														
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Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL									
Sulfate	146 mg/L	1		9.04 mg/L	20.00 mg/L	20.0 mg/L									

Facility: N/A Sampling Point: N/A Site Description: PRE-002	
Sample ID: 2191500 Text ID: UFL19-0289 Matrix: Water, Non-filtered Bottle Type: UnFiltered water for Drinking Water SDWIS Type: Private Investigative	Date Collected 6/25/2019 10:20:00AM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

Analysis Method - Turbidity for Metals

Analyzed By: Robert Lo Analysis Date: 06/27/2019 Analysis Batch: EPA180.1_M-20190627-1 Instrument ID:	Reviewed By: Robert Lo Reviewed Date: 06/27/2019 Prep Method: Prep Batch: Prep Date:														
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Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL									
Turbidity	<1 NTU	1		.5 NTU	1.0 NTU	1.0 NTU									

Analysis Method - EPA 200.8

Analyzed By: Robert Lo Analysis Date: 07/03/2019 Analysis Batch: EPA200.8-20190703-1 Instrument ID: CHM_AGILENT_7700	Reviewed By: Kyle Ashby Reviewed Date: 07/10/2019 Prep Method: Prep Batch: Prep Date:																					
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Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL																
Aluminum	<10.0 µg/L	1.00	U	5 µg/L	10 µg/L	10.0 µg/L																
Selenium	<1.00 µg/L	1.00	U, M	0.5 µg/L	1 µg/L	1.0 µg/L																

Facility: N/A Sampling Point: N/A Site Description: PRE-002	
Sample ID: 2191500 (Continued) Text ID: UFL19-0289 Matrix: Water, Non-filtered Bottle Type: UnFiltered water for Drinking Water SDWIS Type: Private Investigative	Date Collected 6/25/2019 10:20:00AM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

Analysis Method - EPA 200.8

Analyzed By: Robert Lo Analysis Date: 06/27/2019 Analysis Batch: EPA200.8_M-20190628-1 Instrument ID: CHM_AGILENT_7700	Reviewed By: Kyle Ashby Reviewed Date: 07/10/2019 Prep Method: Prep Batch: Prep Date:
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Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL
Iron	1190 µg/L	1.00	S	15 µg/L	30 µg/L	30.0 µg/L

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ND - Not Detected, tested result was not detected above MDL or MRL.

< - Less than, tested result is less than the numerical value.

M - Sample results are not reliable due to matrix interference

S - Spiked sample recovery not within control limits.

U - Not detected/reported