

## DATA QUALITY REVIEW SHEET

COGCC Facility ID: 770716  
 Station Name: Fischer 314384  
 Sample Date: 11/14/2022  
 Field Sample ID: Fischer 314384

Operator: TEP Rocky Mountain LLC  
 Drill Pad: South Leverich 13-09  
 Purpose: Baseline Rule 615  
 Lab Sample ID: 2211178-03

Field Sampling Data Review	Yes	No	N/A
1. Well properly purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Flow rate reduced prior to sampling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Water quality parameters stable prior to sampling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Field instruments calibrated properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Sampling methods performed according to SAP procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Procedures consistent with obtaining a representative sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lab Data Report Review			
7. Proper sample custody maintained until laboratory receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Receipt form is without discrepancies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Samples received at the recommended water temperature of $\leq 6^{\circ}\text{C}$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. All samples analyzed for the requested analyses?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Proper laboratory methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. All sample holding times met besides pH?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Lab QC samples (LCS, LCSD, MB, MS, and MSD) collected and analyzed according to lab method and results within method acceptance limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Was the field investigation sample matrix used by the lab for matrix QC for all analyses?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15. Laboratory qualifiers for sample results (other than non-detect)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Additional qualifiers assigned by WWL to the sample results?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Were submitted trip blanks acceptable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18. Are corrective actions required? <i>If yes, list actions and dates to be completed by:</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Corrective Action</i>	<i>Date to be completed</i>		

Calculated Parameters	Calculated Value	Measured Lab Value	Ratio/Percent Difference	Acceptable Limit	Meets QC Criteria?
Cation/Anion Balance, % (CAB)	9.47%	1.33	N/A	2%	<input type="checkbox"/>
Total Dissolved Solids, mg/L (TDS)	291	235	0.81	1.0 – 1.2	<input type="checkbox"/>
Specific Conductance, $\mu\text{S}/\text{cm}$ (SpC)	351	467	0.75	0.9 – 1.1	<input type="checkbox"/>
TDS/SpC, calculated	N/A	N/A	0.83	0.55-0.7	<input type="checkbox"/>
TDS/SpC, lab measured	N/A	N/A	0.50	0.55-0.7	<input type="checkbox"/>
Anion (meq/L):SpC	N/A	N/A	1.28	0.9 – 1.1	<input type="checkbox"/>
Cation (meq/L):SpC	N/A	N/A	1.06	0.9 – 1.1	<input checked="" type="checkbox"/>

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**Comments:**

- There were MB detections for 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, ethylbenzene, naphthalene, o-xylene, and manganese.
- The trip blank had contamination of toluene, ethylbenzene, and 1,2,4- trimethylbenzene.
- Laboratory pH exceeded holding time by one day. GAL assigned an “H4” qualifier. Methane, ethane, and propane exceeded holding time by seven days. WWL assigned an “H” qualifier to indicate that the results are estimated.
- Analysis of GRO and DRO was requested to be analyzed by WWL, however, results were not received from GAL.
- The CAB was not within the acceptable range. WWL assigned an “O” qualifier.
- TDS was not within the acceptable range.
- A “J” qualifier was assigned to bromide and ethylbenzene.
- Selenium, calcium, and sodium were not within control limits.
- GRO C6-C10 was not within RPD limits. GAL assigned a “QR-04” qualifier.

**Data Suitability Statement**

Based upon this data quality review and your professional judgement, have the data been collected and analyzed in general accordance with the COGCC Model Sampling and Analysis Plan?	<input checked="" type="checkbox"/>
Are the data suitable for release for incorporation into the COGCC Environmental Database?	<input checked="" type="checkbox"/>
The inorganic data are qualified due to QC criteria not being met; data are considered estimated and released for incorporation into the COGCC Environmental Database.	<input checked="" type="checkbox"/>
<b>Data Reviewer's Name:</b> Taralee Mautz	<b>Company:</b> Western Water & Land, Inc.
<b>Reviewer's Signature:</b> <i>Taralee Mautz</i>	<b>Date:</b> 07/10/2023