DATA QUALITY REVIEW SHEET

COGCC Facility ID:	703040	Operator:	TEP Rocky Mountain LLC
Station Name:	Lindauer 47731	Drill Pad:	GM 21-12
Sample Date:	9/22/2020	Purpose:	Rule 609 2nd Subsequent
Field Sample ID:	703040	Lab Sample ID:	2009498-1

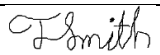
Field Sampling Data Review	**Yes**	**No**	**N/A**
1. Well properly purged?	☒	☐	☐
2. Flow rate reduced prior to sampling?	☒	☐	☐
3. Water quality parameters stable prior to sampling?	☒	☐	☐
4. Field instruments calibrated properly?	☒	☐	☐
5. Sampling methods performed according to SAP procedures?	☒	☐	☐
6. Procedures consistent with obtaining a representative sample?	☒	☐	☐
Lab Data Report Review			
7. Proper sample custody maintained until laboratory receipt?	☒	☐	☐
8. Receipt form is without discrepancies? *If no, list in comments.*	☐	☒	☐
9. Samples received at the recommended water temperature of ≤ 6˚C?	☒	☐	☐
10. All samples analyzed for the requested analyses?	☒	☐	☐
11. Proper laboratory methods used?	☒	☐	☐
12. All sample holding times met (other than lab pH)?	☐	☒	☐
13. Lab QA samples (e.g., matrix spikes and matrix spike duplicates) collected and analyzed according to lab method and results within method acceptance limits?	☐	☒	☐
14. Was the field investigation sample matrix used by the lab for matrix QC for all analyses?	☒	☐	☐
15. Laboratory qualifiers for data (other than non-detect)? *List in comments*.	☒	☐	☐
16. Additional qualifiers assigned by WWL (other than pH)?	☒	☐	☐
17. Were submitted trip blanks acceptable?	☒	☐	☐
18. Are corrective actions required? *If yes, list actions and dates to be completed by:*	☒	☐	☐

Corrective Action	*Date to be completed*
The analytic results for dissolved metals did fall within the historical range for the well with permit number 47731. A reanalysis for major dissolved cations (calcium, magnesium, potassium, and sodium) was requested by the laboratory on October 27, 2020. The reanalysis was conducted on December 2, 2020; the results were similar to the original analytic results and therefore accepted as quality data.	December 2, 2020

Calculated Parameters	**Calculated Value**	**Measured Lab Value**	**Ratio/Percent Difference**	**Acceptable Limit**	**Meets QC Criteria?**
Cation/Anion Balance, % (CAB)	1.608%	N/A	N/A	±5%	☒
Total Dissolved Solids, mg/L (TDS)	1151	1100	0.96	1.0 – 1.2	☐
Specific Conductance, µS/cm (SpC)	1642	1831	0.90	0.9 – 1.1	☒
TDS/SpC, calculated	N/A	N/A	0.70	0.55-0.7	☒

TDS/SpC, lab measured	N/A	N/A	0.60	0.55-0.7	☒

Comments:
It was noted on the sample receipt that the holding time for some of the analytes was about to expire. Laboratory pH, nitrate, nitrite, and TDS were analyzed out of holding time; WWL assigned an "H" qualifier to indicate the results are estimated. "J" qualifier assigned to manganese method blank results to indicate a result greater than the method detection limit but less than the reporting limit. ALS selected field investigation sample 703040 for assessing matrix quality control for MS and MSD testing for total phosphorus by Method SM4500-P. "J" qualifier assigned to DRO, barium, calcium, and total phosphorus sample results indicate a result greater than the method detection limit but less than the reporting limit. Iron reducing bacteria and sulfate reducing bacteria had RPDs outside of the acceptance criteria; WWL qualified these results with an "F" to indicate the results are estimated.

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?			☒
Are the data suitable for release for incorporation into the COGCC Environmental Database?			☒
Data Review's Name:	Trevor Smith	**Company:**	Western Water & Land, Inc.
Reviewer's Signature:		**Date:**	12/8/2020