DATA QUALITY REVIEW SHEET

Facility ID:	752711	Project:	GM 323-28 BWQ: Sub1
Station Name:	Puckett 151879	Lab Work Order:	1511116
Sample Date:	11/5/2015	QA/QC Review Date:	1/4/2016
Field Sample ID:	GM 323-28-151879	Reviewer:	S. Kipp

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. All samples analyzed for the requested analyses?	☒	☐	☐
10. Proper laboratory methods used?	☒	☐	☐
11. All sample holding times met (other than lab pH)?	☐	☒	☐
12. Lab QA samples (e.g., matrix spikes and matrix spike duplicates) collected and analyzed according to lab method and results within method acceptance limits?	☐	☒	☐
13. Was the field investigation sample matrix used by the lab for matrix QC for all analyses?	☐	☒	☐
14. Laboratory qualifiers for data (other than non-detect)? *List in comments*.	☐	☒	☐
15. Additional qualifiers assigned (other than pH)?	☒	☐	☐
16. Are corrective actions required? *If yes, list actions and dates to be completed by:*	☐	☒	☐

Corrective Action	*Date to be completed*
None	

Calculated Parameters	**Calculated Value**	**Lab Value**	**Ratio/Percent Difference**	**Acceptable Limit**	**Meets QC Criteria?**
Cation/Anion Balance, % (CAB)	0.427	N/A	N/A	±5%	☒
Total Dissolved Solids, mg/L (TDS)	974	810	1.20	0.8 – 1.2	☒
Specific Conductance, µS/cm (SpC)	1209	1322	0.91	0.8 – 1.2	☒

Comments: Parameters were stabilized according to the WPX Sampling and Analysis Plan stabilization criteria with the exception of field dissolved oxygen. ALS, Fort Collins forwarded the sample to an ALS lab in Kelso, WA for the anions analysis by EPA Method 300.0. Laboratory pH, nitrate, and nitrite were analyzed out of analysis holding time, WWL qualified with "H"; result considered estimated. MS recoveries were outside of control limits for bromide, fluoride, nitrite, and nitrite (11%, 74%, 53%, and 6% respectively), and MSD recoveries were outside of control limits for bromide, fluoride, nitrite, and nitrite (11%, 73%, 54%, and 6% respectively); the lab reported the matrix spike outlier suggested a potential low bias in this matrix. RPD for lab duplicate analysis was outside control limits for

fluoride (31%); RPD considered acceptable due to low duplicate and sample concentrations.