

DATA QUALITY REVIEW SHEET

Facility ID: 753974
 Station Name: Beaver Cr 2
 Sample Date: 11/8/2017
 Field Sample ID: Beaver Cr 2

Project: TEP RU 11-7 Annual
 Lab Work Order: 1711630-01
 QA/QC Review Date: 12/21/2017
 Reviewer: S. Goodwin

Field Sampling Data Review	Yes	No	N/A
1. Well properly purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Flow rate reduced prior to sampling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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? <i>If no, list in comments.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. All samples analyzed for the requested analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Proper laboratory methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. All sample holding times met (other than lab pH)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. 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"/>
14. Laboratory qualifiers for data (other than non-detect)? <i>List in comments.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Additional qualifiers assigned (other than pH)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. 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>		
None			

Calculated Parameters	Calculated Value	Lab Value	Ratio/Percent Difference	Acceptable Limit	Meets QC Criteria?
Cation/Anion Balance, % (CAB)	0.450	N/A	N/A	±5%	<input checked="" type="checkbox"/>
Total Dissolved Solids, mg/L (TDS)	252	200	1.26	0.8 – 1.2	<input type="checkbox"/>
Specific Conductance, µS/cm (SpC)	299	360	0.83	0.8 – 1.2	<input checked="" type="checkbox"/>

Comments: Custody seals were not used on the shipping container. Nitrite was analyzed based on method A4500-NO2 B-11; nitrate was analyzed based on EPA Method 353.2; total phosphorus was analyzed based on EPA Method 365.1; and GRO was analyzed based on method SW8015C. MS and MSD recoveries were outside of control limits for nitrate, nitrite, and total phosphorus; and "S" qualifier was assigned to nitrate, nitrite, and total phosphorus MS and MSD results to indicate a spike recovery outside of control limits. Laboratory pH was analyzed out of analysis holding time, WWL qualified with "H"; result considered estimated. "J" qualifier assigned to ethane, methane, boron, and manganese sample results and to ethane, methane, propane, boron, magnesium, and strontium MB results to indicate

a result greater than the method detection limit but less than the reporting limit. "O" qualifier assigned to calcium and manganese matrix spike and matrix spike duplicate results to indicate the sample amount was >4x the amount spiked. TDS ratio slightly outside of QC criteria, but data not qualified.