

DATA QUALITY REVIEW SHEET

Facility ID: 752711
 Station Name: Puckett 151879
 Sample Date: 2/27/2018
 Field Sample ID: 752711

Project: TEP Starkey Gulch Pit BWQ
 Lab Work Order: 18021605
 QA/QC Review Date: 3/7/2018
 Reviewer: S. Goodwin

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? <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 checked="" type="checkbox"/>	<input 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)	1.718	N/A	N/A	±5%	<input checked="" type="checkbox"/>
Total Dissolved Solids, mg/L (TDS)	920	750	1.23	0.8 – 1.2	<input type="checkbox"/>
Specific Conductance, µS/cm (SpC)	1119	1200	0.93	0.8 – 1.2	<input checked="" type="checkbox"/>

Comments: Custody seals were not used on the shipping container. Laboratory pH was analyzed out of analysis holding time, WWL qualified with "H"; result considered estimated. WWL assigned an "E" qualifier to the following field duplicate results for exceeding the RPD criteria: iron related bacteria, slime forming bacteria, and sulfate reducing bacteria; the results are considered estimated. MS recoveries were outside of control limits for total phosphorus and strontium (high 1%, low 7%, respectively); and MSD recoveries were outside of control limits for total phosphorus and calcium (high 1%, low 2%, respectively). The lab did not qualify these results because the result in the parent sample was greater than 4x the spike amount. "J" qualifier assigned to selenium and bromide sample results and to boron, potassium, sodium, and strontium method blank results to indicate a result greater than the method detection limit

but less than the reporting limit. TDS ratio slightly outside of QC criteria, but data not qualified.