

## DATA QUALITY REVIEW SHEET

Facility ID: 703035  
 Station Name: Rice, John  
 Sample Date: 2/9/2015  
 Field Sample ID: Rice-Well

Project: WPX BWQ: GV 86-2  
 Lab Work Order: 1502150  
 QA/QC Review Date: 3/17/2015  
 Reviewer: S. Kipp

| Field Sampling Data Review   | Yes                                 | No                                  | N/A                      |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1. Well properly purged?   | <input type="checkbox"/>            | <input checked="" 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 type="checkbox"/>            | <input checked="" 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 type="checkbox"/>            | <input checked="" 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 checked="" type="checkbox"/> | <input 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)      | 1.416            | N/A       | N/A                      | ±5%              | <input checked="" type="checkbox"/> |
| Total Dissolved Solids, mg/L (TDS) | 515              | 390       | 1.32                     | 0.8 – 1.2        | <input type="checkbox"/>            |
| Specific Conductance, µS/cm (SpC)  | 582              | 653       | 0.89                     | 0.8 – 1.2        | <input checked="" type="checkbox"/> |

**Comments:** Three casing volumes were not purged prior to sample collection; all parameters except field water temperature were stabilized according to WPX Sampling and Analysis Plan stabilization criteria. Laboratory pH analyzed out of analysis holding time, WWL qualified with "H"; result considered estimated. Lab control sample surrogate recovery for O-terphenyl outside of recovery limits (high 6%); surrogate recovery in the sample was within control limits, and DRO was less than the MDL; no further action was taken. "J" qualifier assigned to total phosphorus to indicate a result greater than the method detection limit but less than the reporting limit; result considered estimated. TDS ratio slightly outside of QC criteria, but data not qualified.