

## APPENDIX 2. TABLES & PROGRAM DOCUMENTATION

### Acceptance Criteria for QCA Results

Parameter	Precision	Accuracy	**Acceptance Criteria
Temperature (LaMotte)	± 0.5 ° C	± 0.5 ° C	Less than ± 1 ° C difference between reference thermometer.
Dissolved oxygen (LaMotte)	± 10%	± 10%	Value less than ± 1 ppm different from known
PH (LaMotte)	± .25 units	± 0.5 units	
Temperature (Hydrolab)	± 0.5 ° C	± 0.5 ° C	Less than ± 1 ° C difference between reference thermometer.
Dissolved oxygen (Hydrolab)	± 10%	± 10%	1 Standard Deviation as recommended by manufacturer
PH (Hydrolab)			
Conductivity (Hydrolab)	± 10%	± 10%	As recommended by manufacturer
Turbidity	± 10%	± 10%	± 5% of STD *value
Ammonia Nitrogen (Colorimeter®)	±0.2 (<2.0) ±10% (>2)	±0.2 (<2.0) ±10% (>2)	No greater than 20% RPD
Nitrate Nitrogen (Colorimeter®)	±0.2 (<2.0) ±10% (>2)	±0.2 (<2.0) ±10% (>2)	No greater than 20% RPD
Ortho-Phosphate (Colorimeter®)	±0.2 (<2.0) ±10% (>2)	±0.2 (<2.0) ±10% (>2)	No greater than 20% RPD
Ammonia Nitrogen (Color wheels)	± 0.5(<2.0) ± 1.0(>2.0)	± 1.0	30%RPD
Nitrate Nitrogen (Color wheels)	± 1.0	± 1.0	30%RPD
Ortho-Phosphate (Color wheels)	± 0.5	± 1.0	30%RPD

\* STD = standard deviation

\*\*References: United States Environmental Protection Agency (USEPA), “Methods for Chemical Analysis of Water and Wastes,” Manual #EPA-600-4-79-020; American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF ); American Society for Testing and Materials (ASTM) Annual Book of Standards,