

# **ABCWUA Compliance Division Protocol Agreement**

Effective Date: 5/17/2018

Program: WT Protocol: TTHMPC

Revision: 00

**Objective** Monitor the water quality of Distribution water.

**Reference Document:** None

**Sample Purpose:** Monitoring

**Sample Collection Type/Details:** Grab

**Sample Collection Frequency:** As needed

**Sample Matrix:** Drinking Water

**Sample Point Nomenclature Convention:** As specified .

**Sampling Personnel:** Water Quality Specialist or other personnel.

**Field Instructions:** These samples should never be collected from a sampling location designated for disinfection byproduct (DBP) compliance sampling. Samples are collected in distribution at established sites or reservoirs. Store/transport sample on ice in cooler. Record water quality field parameters using field meter. Record meter numbers and meter type in comments section of submittal form. Preserve samples per Protocol Analytical Definition. Log field parameters into Lab Vantage.

**Laboratory Instructions:** Preserve metals sample container with HNO3 to pH <2 upon receipt/submittal.

**External Laboratory Instructions:** These samples to be submitted to SLD under user code 3120 (non-compliance).

**Special Handling Instructions:** Any method or protocol change must be preapproved by the Program Manager (NPDES/WQ or WQL) or Compliance Division Manager.

**Chain of Custody:** Required ☐ Yes ☒ No

**QA/QC Data Requirements:** QA/QC data required and available upon request.

Revision History		
Revision	Effective Date	Description of Changes
# 00		New Protocol

**ABCWUA Compliance Division Protocol Agreement**

Effective Date: 5/17/2018

Program: WT Protocol: TTHMPC

Revision: 00

Client Contact(s) (include names of persons responsible for taking action if there is an exceedance or problem with sample):

Priority	Contact	Title	Phone	Cell Phone	Email
1	Michael Richardson	Water Quality Supervisor	289-3383	553-5731	<a href="mailto:mrichardson@abcwua.org">mrichardson@abcwua.org</a>
2	Elizabeth Anderson	Program Manager/WQ	289-3382	414-4043	<a href="mailto:eanderson@abcwua.org">eanderson@abcwua.org</a>

**Reporting Criteria:**

Reporting : LIMS View within four (4) weeks of sample submission

Reporting time frame: four (4) weeks maximum sample turnaround time.

**Billing Method:** 21160 No charge for invalid samples.

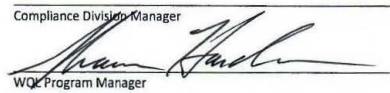
**Protocol Agreement:**

Protocol Agreement can only be approved or modified by 1) Compliance Division Manager, 2) Two Program Managers, or 3) Designated External Client Representative, and WQL Program Manager.

Michael Richardson Water Quality Supervisor 5/17/2018  
Prepared by Title Date

 5/17/2018  
Program Manager Approval Date

Designated External Client Representative Title Approval Date

Compliance Division Manager Approval Date  
 5/18/18  
WQL Program Manager Approval Date

ABCWUA Compliance Division Protocol Agreement  
Protocol Analyses Definition

Program: WT Protocol: TTHMPC Revision: 00

Program: WQ		Protocol: TTHM		Revision: 03							Reg Limit		Flag Limit	
Primary Laboratory	External Laboratory	Sample Kit	Analyte	Method*	Preservation	Units	EPA D/Q Limit	EPA D/Q Limit Type	Hold Time	Analyte Cost	Low	High	Low	High
SLD		2 - 40 mL vials	Total Trihalomethane (TTHM)	EPA 524.2	Cool to ≤ 4°C / Prepreserved by Lab with Sodium Thiosulfate	µg/L								
WQL		1 - 250 ml acid washed polypropylene bottle for metals	ARSENIC	EPA 200.8-1994	Lab acidifies with HNO <sub>3</sub> to pH <2	µg/L			6 months	\$17.00				
		500 ml Polypropylene bottle	TOTAL PHOSPHORUS	HACH 8190 HACH 8048	Cool to ≤ 4°C / Prepreserved by Lab with /H <sub>2</sub> SO <sub>4</sub>	mg/L	0.05		28 days	\$20.00				
		1-250 glass amber bottle	TOTAL ORGANIC CARBON	SM5310 C-2011	Cool to ≤ 4°C / Prepreserved by Lab with H <sub>3</sub> PO <sub>4</sub>	mg/L			28 days	\$30.00				
Total =										\$67.00				

FIELD ANALYSIS	FIELD	N/A	FLDCL2 (FREE CHLORINE RESIDUAL)	SM4500 CL, G-2000	-	mg/L	0.1		-	-	0.2	4.0	0.4	1.5
			FLDTCL2 (TOTAL CHLORINE RESIDUAL)	SM4500 CL, G-2000	-	mg/L	0.1		-	-			0.4	1.5
			FLDCOND (SPECIFIC CONDUCTANCE)	SM2510 B-1997	-	UMHOS/CM			-	-			200	650
			FLDDO (DISSOLVED OXYGEN)	SM4500 O <sub>2</sub> G-1997	-	mg/L			-	-				
			FLDEH (OXIDATION REDUCTION POTENTIAL)	SM2580 A-1997	-	MV			-	-			300	750
			FLDPH (pH)	SM4500 H+ B-2000	-	STD UNIT			-	-			7	9.5
			FLDTEMPC (TEMPERATURE)	SM2550-2000	-	DEG C			-	-			4	35
			METER NUMBER		-				-	-				
			METER TYPE	YSI										
			FLUSH (FLUSH TIME BEFORE SAMPLING)		-	MINUTES			-	-				

\* Any approved method in 40 CFR 136, 141, or 143 as applicable may be substituted.