



Tips for Successful WQP Sampling

Michelle Ross – Lead & Copper Monitoring Team

Overview

- Water Quality Parameters (WQP)
 - Scheduling
 - Sampling
- Common Issues
- Best Practices
- Laboratories

How are WQP schedules determined?

- New public water systems §290.117(e)(2)
- Long term change in source or treatment §290.117(d)(2)(E)
- When an Action Level Exceedance (ALE) occurs §290.117(e), §290.117(e)(2)(B)
- Following installation of optimal corrosion control treatment 290.117(n)

How is a PWS notified of WQP Schedules?

- Drinking Water Watch
- Letters
 - Plan Letters, Approval Letters, Reminder Letters
- TCEQ Webpage Excel Lists
- Call or Email the Lead & Copper Monitoring Team
- Reminder System

WQP Schedule Structure

- “6M1” January 1st – June 30th
 - Quarter 1 (January 1st – March 31st)
 - Quarter 2 (April 1st – June 30th)
- “6M2” July 1st – December 31st
 - Quarter 3 (July 1st – September 30th)
 - Quarter 4 (October 1st – December 31st)
- “YR” January 1st – December 31st

WQP Schedules + Drinking Water Watch

Scheduled per location:
 Check Entry Points
 Displays 6M requirement
 Divide by Quarter

Annual “YR” schedules
 are not collected quarterly

Group Non-TCR Sample Schedules					
Facility	Begin End Date	Seas.	Init. MP Begin Dt	Req's	Analyte Group
DS01	07-01- 2022 Continuous		07-01- 2022	20 RT/6M	WQP1 - WATER QUAL PARAM 1
PBCU001	07-01- 2022 Continuous		07-01- 2022	2 RT/6M	WQP1 - WATER QUAL PARAM 1
PBCU002	07-01- 2022 Continuous		07-01- 2022	2 RT/6M	WQP1 - WATER QUAL PARAM 1
PBCU008	07-01- 2022 Continuous		07-01- 2022	2 RT/6M	WQP1 - WATER QUAL PARAM 1
PBCU009	07-01- 2022 Continuous		07-01- 2022	2 RT/6M	WQP1 - WATER QUAL PARAM 1

WQP Collection

- Fully flushed samples (5 minutes)
- In 1-liter, clean, unpreserved, approved plastic bottles
- Collect sample immediately after completing full flush
- Where to collect:
 - Entry point – Finished water entering distribution
 - Distribution – Representative outdoor sites
 - Usually, microbial (Bac-T) sites
 - Prior approval not needed

Laboratory Approval

- pH and Temperature – Field Measurements
- Approval lasts three years – Lab Approval Form 10450
- Licensed operator must be present
- Systems can outsource
- Approved third party
- Approved lab
- Lab Approval Coordinator
PDWS@tceq.texas.gov

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Approved Public Water System Laboratories

The following list of laboratories are approved by the TCEQ's Drinking Water Standards Division. The list indicates each approved drinking water analyte and method for each public water system laboratory listed. For questions related to individual laboratory approval please call (512) 239-4691.

6711 HIGHWAY 332		Lab ID: AL0200630	Approval Date: 11/12/2020	
TX0200630		Accreditation ID: NA	Contact Name: Libby Simonson	
				Phone Number: (713) 840-8200
Analyte	Method	Instrument	Valid Until	
Alkalinity	Contract Lab	A&B Labs	11/12/2023	
Calcium	Contract Lab	A&B Labs	11/12/2023	
Conductivity	Contract Lab	A&B Labs	11/12/2023	
Free Chlorine	4500CL-G	Hach Pocket Colorimeter DR300	11/12/2023	
Hardness	Contract Lab	A&B Labs	11/12/2023	
Orthophosphate	365.1	Hach Pocket Colorimeter II	11/12/2023	
pH	150.1	Hanna 9125	11/12/2023	
Temperature	2550	Hanna 9125	11/12/2023	
Total Chlorine	4500CL-G	Hach Pocket Colorimeter DR300	11/12/2023	

WQPMF Example

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY PARAMETER MONITORING FORM (2017)															
Completed by PWS (or Agent)										Completed by Laboratory					
PWS Name:					Laboratory Name:										
PWS ID#: TX					TCRQ Lab ID #:										
PWS Address:					Laboratory Address:										
PWS Contact:					Laboratory Contact:										
PWS Contact Phone #:					Laboratory Contact Phone #:										
Inhibitor or Stabilizer Used (Y/N)		Phosphate	Silica	Calcium carbonate											
TREATMENT		Quantity Storage Rate	Inhibitor Storage Rate	Laboratory Contact Phone #:											
Sample Information															
Sample Type (Y)		Compliance	Non-compliance	Parameters Requested: Analysis are required for the parameters listed below. Parameters containing phosphate or silica are used, then they should also be analyzed depending on which is in use.											
Sample Collector (Y)		Public Water System	Accredited Lab	Self Party Contractor -> LAB ID #	AL										
Temperature and pH (Y or N)		Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ?			More temperature and pH measured in the laboratory? (Y=none collected?)										
Facility ID (e.g. WWSID, PWSID)	Sample Point ID (e.g. DSTRWQP, DSWQP)	Sample Location	Sample Collection		Field Measurements		Original Sample ID #	Original Sample Date (MM/DD/YY)	Lab Sample ID	pH	Temp (°C)	Temp (°F)	pH		
			Date (MM/DD/YY)	Time - 24 hr (MM/DD)	pH	Temp (°C)									
PSC001	EWQP														
PSC002	EWQP														
D001	DSTWQP														
D001	DSTWQP														
D001	DSTWQP														
D001	DSTWQP														
I acknowledge that information on this form is true and correct and also certify to sampling below the instructions in the TCRQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurement of pH and temperature immediately upon collection. Reproduction of this form at sampling with water samples is a crime punishable under state and/or federal law. (Texas Penal Code, Title 9, Chapter 91.00)										Sample Conditions upon Receipt (Y)					
Name of Authorized PWS Representative (Print)					Signature		Organization		Date		Rejection Code (if applicable)		Actual - Corrected sample temperature		
Chain of Custody					Signature		Organization		Date		Date & Time of Sample Reception (Actual)		Thermometer ID #		
Authorized by (Signature)					Date/Time		Authorized by (Signature)					Date/Time		Laboratory Comments	
Authorized by (Signature)					Date/Time		Authorized by Lab (Signature)					Date/Time			

WQP Monitoring Form 20679

- Facility ID – DS01 or PBCU00#
- Sample Point ID – DSTWQP or EWQP
- Entry Point Sample Location on DWW
- Sample collector number
- Check facility and sample point IDs
- PWS representative signature, organization and date
- Form Instructions on Page 2 of WQPMF

WQP Monitoring Form 20679 (Continued)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER QUALITY PARAMETER MONITORING FORM 20679
Completed by PWS (or Agent)

PWS Name: [REDACTED] Laboratory Name: [REDACTED]
PWS ID#: TX 1 [REDACTED] TCEQ Lab ID #: [REDACTED]
PWS Address: [REDACTED] Laboratory Address: [REDACTED]
PWS Contact: [REDACTED] Laboratory Contact: [REDACTED]
PWS Contact Phone #: [REDACTED] Laboratory Contact Phone #: [REDACTED]

Inhibitor or Stabilizer Used (Y/N): Phosphate [] Silica [] Calcium carbonate []
TREATMENT: Alkalinity Dosage Rate [] Inhibitor Dosage Rate [] Laboratory Contact Phone #: [REDACTED]

Sample Information
Sample Type (Y/N): Compliance Non-compliance
Sample Collector (Y/N): Public Water System Accredited Lab 3rd Party Contractor → LAB ID
Temperature and pH (Y or N): Are temperature and pH included on the sampling entry's Laboratory Approval Form on file at the TCEQ? Were temperature and pH measured in the field within 15 minutes of sample collection?

Facility ID (e.g. DS01, FBCJ001)	Sample Point ID (e.g. DSTWQP, EWQP)	Sample Location	Sample Collection		Field Measurements		Replacement? (Y/N)	Original Sample ID #	Original Sample Date (MMDDYY)
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (°C)			
DS01	EP064	[REDACTED]							
DS01	EP070	[REDACTED]							
DS01	EP075	[REDACTED]							
DS01	EP076	[REDACTED]							
DS01	EP078	[REDACTED]							
DS01	EP081	[REDACTED]	07/20/21	07:48	8.55	27.6			43

Name of Authorized PWS Representative (Print): [REDACTED] Signature: [REDACTED] Organization: [REDACTED] Date: [REDACTED]

WATER QUALITY PARAMETER MONITORING FORM 20679
Completed by PWS (or Agent)

PWS Name: [REDACTED] Laboratory Name: [REDACTED]
PWS ID#: TX [REDACTED] TCEQ Lab ID #: [REDACTED]
PWS Address: [REDACTED] Laboratory Address: [REDACTED]
PWS Contact: [REDACTED] Laboratory Contact: [REDACTED]
PWS Contact Phone #: [REDACTED] Laboratory Contact Phone #: [REDACTED]

Inhibitor or Stabilizer Used (Y/N): Phosphate [] Silica [] Calcium carbonate []
TREATMENT: Alkalinity Dosage Rate [] Inhibitor Dosage Rate [] Laboratory Contact Phone #: [REDACTED]

Sample Information
Sample Type (Y/N): Compliance Non-compliance
Temperature and pH (Y or N): Are temperature and pH included on the sampling entry's Laboratory Approval Form on file at the TCEQ? Were temperature and pH measured in the field within 15 minutes of sample collection?

Facility ID (e.g. DS01, FBCJ001)	Sample Point ID (e.g. DSTWQP, EWQP)	Sample Location	Sample Collection		Field Measurements		Replacement? (Y/N)	Original Sample ID #	Original Sample Date (MMDDYY)
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (°C)			
PBCJ001	EWQP	[REDACTED]	07/13/21	1420	8.8	23.1			
DS 01	DSTWQP	[REDACTED]	07/13/21	1435	8.7	23.5			
DS 01	DSTWQP	[REDACTED]	07/13/21	1445 08:50 7/13/21	8.9	24.4			

I acknowledge that information on this form is true and correct and was selected for sampling before the instructions in the TCEQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurement of pH and temperature immediately upon collection. Falsification of this form or tampering with water samples is a crime punishable under state and/or federal law. (Texas Penal Code, Title 8, Chapter 37.10)

Name of Authorized PWS Representative (Print): [REDACTED] Signature: [REDACTED] Organization: [REDACTED] Date: 07/13/21

Chain of Custody
Retrieved by [REDACTED] (Signature) Date/Time: 07/13/21 1700
Retrieved by [REDACTED] (Signature) Date/Time: [REDACTED]
Retrieved by [REDACTED] (Signature) Date/Time: [REDACTED]

TCEQ 20679 (Rev. 12/2013)

Sampling Success Story

Sample Type (-):		<input checked="" type="checkbox"/> Compliance	<input type="checkbox"/> Non-compliance						
Sample Collector (-):		<input type="checkbox"/> Public Water System	<input checked="" type="checkbox"/> Accredited Lab	3rd Party Contractor --> LAB ID: AL TX [REDACTED]					
Temperature and pH (Y or N):		<input checked="" type="checkbox"/> Y Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ?	<input checked="" type="checkbox"/> Y Were temperature and pH measured in the field within 15 minutes of sample collection?						
Facility ID (e.g. DS01, PBCU001)	Sample Point ID (e.g. DSTWQP, EWQP)	Sample Location	Sample Collection		Field Measurements		Replacement? (Y)	Original Sample ID #	Original Sample Date (MMDDYY)
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (-°C)			
✓ PBCU001	EWQP	1 [REDACTED] DR	4/13/21	08:00	7.91	24			
✓ DS01	DSTWQP	14 [REDACTED] RT	4/13/21	08:07	7.90	22			
<p>I acknowledge that information on this form is true and correct and was selected for sampling follow the instructions in the TCEQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurements of pH and temperature immediately upon collection. Fabrication of this form or tampering with water samples is a crime punishable under state and/or federal law. (Texas Penal Code, Title 8, Chapter 37.10)</p>									
Name of Authorized PWS Representative (Print)		Signature	Organization	Date					
[REDACTED]		[REDACTED]	[REDACTED]	4/13/21					
Chain of Custody									
Relinquished By (Signature)			Date/Time	Relinquished By Carrier (Signature)			Date/Time		
[REDACTED]			4/13/21 17:50	[REDACTED]					
Received by Carrier (Signature)			Date/Time	Received By Lab (Signature)			Date/Time		
[REDACTED]				[REDACTED]			4/13/21		

Sample Relinquishment

Confirm:

- Condition is acceptable
- WQPMF 20679 legible and complete
- Reporting deadline
- Turnaround time for reporting results to TCEQ
- Fee structure for rush samples/form corrections
- Contact information

PWS + Laboratory Communication

- Reliable contact information
- Receiving your analytical report
- Confirming samples reported and accepted
 - Check DWW
 - Follow up with lab first
 - Follow up with TCEQ if unable to resolve in your communications with lab

Laboratory Reporting

Ten days following the end of the monitoring period

- 6M1- Due by July 10th
- 6M2- Due by January 10th
- Annual- Due by January 10th
- Results posted on Drinking Water Watch
 - Other chemical results

Resources

- FMT Assistance
- Lab Maps
- Lab Approval: PDWS@tceq.texas.gov
- Lead and Copper Monitoring Team
- PWSLCR@tceq.texas.gov
- 512-239-4691



Questions?
PWSLCR@tceq.texas.gov

Thank you

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