



# **Compliance Monitoring Data Portal (CMDP) for Public Water System Laboratories**

James Stapel

# What is the CMDP?

- EPA's electronic reporting portal that allows laboratories and Public Water Systems (PWSs) to submit drinking water sample compliance data
- Developed by EPA to simplify electronic data submittal
- Sets national data standards and centralizes data submission

# Benefits of CMDP

- CMDP provides secure data transmittal and is compliant with EPA's Cross Media Electronic Reporting Rule (CROMERR)
- Increases data consistency across states/primacy agencies; all data is reported in the same format (an advantage if you report to more than one agency)
- Confirmation that your data has been received
- Instant feedback on data quality
- You can access CMDP 24 hours a day

# Data Reporting

## Samples/Sample Results type data

- Microbial
- Chemical
- Cryptosporidium
- Composite

## Operational type data

- CFE Turbidity
- IFE Turbidity
- Chlorine Chloramine Entering Distribution System
- Chlorine Chloramine in Distribution System
- Trihalomethane (THHM) and Haloacetic Acids (HAA5)
- Chlorine Dioxide and Chlorite
- Lead and Copper Rule Water Quality Parameters
- Total Organic Carbon
- Ozone Treatment (Bromate)



# Reporting Methods

- Online data entry screens available on the CMDP web site
- Using Microsoft Excel workbook templates (one for samples/sample results data, another for operational data).
  - Download the necessary Excel template from CMDP, enter data into the Excel workbook, and convert the workbook into a file format that you upload to CMDP as a samples job.
- For samples/results data only, using the CMDP Representation State Transfer Application Programming Interface (ReST API) to create samples jobs in CMDP directly from your Laboratory Information Management System (LIMS).

# CMDP Sample Result Templates Examples

CMDP Compliance Monitoring Data Portal					Microbiological Samples									
Reporting Lab. ID *					Generate XML									
Sample Information (* - Field required for record to exist)														
Sample ID *	Sample Received Date *	WS ID *	Facility ID *	Sampling Point ID *	Sampling Location	Collection Date *	Collection Time (24H) *	Sample Type *	Sample Volume (ML) *	Repeat Location	Original Sample ID *	Original Reporting Lab.ID	Original Collection Date	

Microbial	Chems-Rads	Cryptosporidium	Notes		

# CMDP Operational Templates: CFE Turbidity

CMDP Compliance Monitoring Data Portal					CFE Turbidity				
Reporting Organization					Turbidity Measurements				
WS ID					Total Required				
Facility ID					Total Taken				
Reporting Period					Total $\leq 0.3$ NTU in measurements taken				
Monthly Hours Of					Percentage				
					Was the CFE turbidity $\leq 0.15$ NTU in at least 95% of the measurements of the month?				
Daily CFE Turbidity - Grab Samples or Continuous Monitoring									
Day	Total Hours Filtering (In Operation)	Maximum Turbidity	Minimum Turbidity	Average Turbidity	Total Number of Results	# of Results Exceeding Max NTU	Total Hours Results Were Reported	Total Hours Results Were Required	
1									

Day	12:00 AM or 1st Reading	4:00 PM or 2nd Reading
1		



# CMDP Operational Templates: IFE Turbidity

CMDP				IFE Turbidity								
Compliance Monitoring Data Portal												
Reporting Organization												
WS ID *												
Facility ID *												
Reporting Period *												
<b>Combined Population Served *</b>												
Combined Population Served Less Than 10,000							Combined Po					
Did you monitor each individual filter effluent continuously and record measurements at least every 15 minutes (or combined filter effluent for systems with two filters)? **										Did you monitor each individual filter effluent continuously and record measurements at least every 15 minutes (or combined filter effluent for systems with two filters)? **		
If IFE continuous monitoring was interrupted, was continuous monitoring restored in 14 days or fewer? If No, please explain.										If IFE continuous monitoring was interrupted, was continuous monitoring restored in 14 days or fewer? If No, please explain.		



# CMDP Operational Templates: Chlorine & Chlorine Dioxide

<h2 style="margin: 0;">CMDP</h2> <p style="margin: 0;">Compliance Monitoring Data Portal</p>						
Reporting Laboratory ID						
WS ID *						
Facility ID *						
Sampling Point ID * <sup>f</sup>						
Reporting Period *						
Sample Id *						
Also reporting CT values for LT2ESWTR (Toolbox reporting requirements)?						
<h3 style="margin: 0;">Chlorine dioxide - No Booster chlorination</h3>						
Number of days where Chlorine Dioxide was used						

# CMDP Operational Templates: Chlorine, Chloramines entering Distribution

[illegible]

# CMDP Operational Templates: Chlorine, Chloramines in Distribution

Chlorine Chloramine in the Distribution System									
Residual Reporting Type *				Number of Minimum RDC Measurements Required					
MRDL Violation <sup>f</sup>				Number of Minimum RDC Measurements <sup>f</sup>					
Number of MRDL Measurements Required				Number of Measurements Meeting Minimum DS Residual <sup>f</sup>					
Number of MRDL Measurements <sup>f</sup>				% Meeting Minimum DS Residual Requirement <sup>f</sup>			#DIV/0!		
Monthly Average <sup>f</sup>				Previous Month % Meeting Minimum DS Residual Requirement <sup>f</sup>					

# CMDP Operational Templates: Lead and Copper Rule Water Quality Parameters (WQP)

<div>CMDP</div> <div>Compliance Monitoring Data Portal</div>				<div>LCR Water Quality Parameters</div>									
Reporting Organization				Generate XML									
WS ID													
Reporting Period (Month/Year)													
Distribution Tap Samples													
Collection Date	Collection Time	Facility ID	Sampling Point ID	Analyte	Result	Unit of Measure	Analyzing Laboratory (if Not reporting lab)	Lab Sample ID	Analysis Date	Method	Collected By	Comments	Collection Date

# CMDP Operational Templates: Total Organic Carbon

CMDP Compliance Monitoring Data Portal				Total Organic Carbon										
				Generate XML										
Laboratory ID *														
WS ID **														
Facility ID **				RAA of Monthly TOC Removal Ratios †							State Calculates RAAs for DBP Precursors? (Y/N) *			
Reporting Period **				RAA for Alternative Compliance †							Is the system in compliance with the enhanced softening percent removal requirements in 40 CFR 141.135(b)? †			
Sampling Point Id *				# of Paired Samples/Quarter †										
Sample ID *														
Month 1 Arithmetic Average % Reduction of TOC				Month 2 Arithmetic Average % Reduction of TOC				Month 3 Arithmetic Average % Reduction of						
Date **	Raw Water TOC **	Check Raw <=2.0	Raw Water Alkalinity **	Finished Water TOC **	Required TOC Removal % †	Actual TOC Removal % †	Removal Ratio †	Alt Comp. (1-6) †	Alt. Ratio Assigned †	Required TOC Removal (%) †	Actual TOC Removal % †	Removal Ratio †	Removal Achieved? †	Comments
							#VALUE!					#VALUE!		
							#VALUE!					#VALUE!		
							#VALUE!					#VALUE!		



# CMDP Operational Templates: Bromate

CMDP Compliance Monitoring Data Portal				Ozone Treatment (Bromate)								
Reporting Laboratory ID				Quarterly Bromate RAA <sup>†</sup>								
WS ID				Number of Samples Taken <sup>†</sup>								
Facility ID				<div>Generate XML</div>								
Sampling Point ID <sup>††</sup>												
Reporting Period (Month/Year) <sup>††</sup>												
				Also reporting for CT Values for LT2ESWTR (Toolbox reporting requirements)?								
Bromate Results												
Collection Date <sup>††</sup>	Analyzing Laboratory (if not reporting lab)	Sample ID <sup>†</sup>	Not Detected <sup>††</sup>	Result <sup>†</sup>	Result UOM <sup>†</sup>	Reporting Limit <sup>†</sup>	Reporting Limit UOM <sup>†</sup>	Method <sup>†</sup>	Analysis Start Date <sup>†</sup>	Analysis Start Time <sup>†</sup>	Analysis Completed Date	Analysis Completed Time

# CMDP Operational Templates: TTHM and HAA5

CMDP				TTHM and HAA5												
Water Quality Monitoring Data Portal																
City				Generate XML												
Results																
Samples Taken																
Sample ID	Sampling Point ID	Sample ID	Not Detected	Result	Result UOM	Location	Location	Was LRAA MCL violated?	Method	Reporting Limit	Reporting Limit UOM	Volume Assayed (ML)	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time



# CMDP User Roles

- **CMDP system administrators**

- Add new users and assign roles (preparer, reviewer and certifier) to the users.
- Can perform all preparer, reviewer and certifier tasks in the submission and certification process.

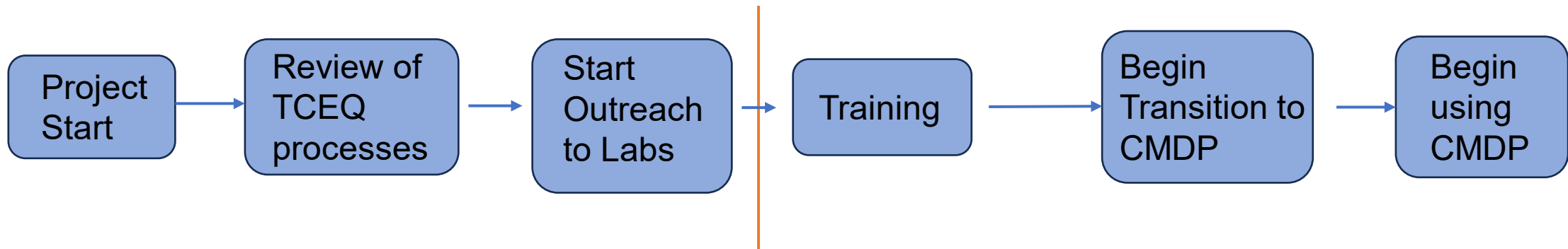
- **Other roles:**

- Certifier
- Reviewer
- Preparer



# CMDP Progress

- TCEQ is working with Global Environmental Consulting (GEC) to complete the transition to CMDP
- TCEQ and GEC have completed the following:
  - Review of TCEQ's existing processes for submittal of Chemical, Radiological, Lead & Copper, and Bacteriological samples
  - Review and approval of training materials for labs and PWSs
  - Format for training labs and PWSs
  - Plan for transitioning labs and PWSs to the CMDP



# CMDP Progress Next Steps

- Labs are encouraged to contact TCEQ or GEC to start the transition to CMDP
- GEC will be reaching out to labs to initiate the transition to CMDP
- GEC will conduct training
- GEC will guide lab in transitioning to the CMDP

# When can you start using CMDP?

- Labs and PWSs can start transitioning to the CMDP as early as mid-2024
- TCEQ has contractor assistance available now to help you register for and provide training to use CMDP

# Looking Ahead

- CMDP and EPA's Replacement for the Safe Drinking Water Information System (SDWIS)
  - Drinking Water State Federal Tribal Information Exchange System (DW-SFTIES)
- Texas Drinking Water Watch
- Decommissioning legacy applications

# System Requirements and Qualifications for Water Systems & Laboratories









- Latest version of Internet Explorer (9 and above), Firefox, or Chrome. (Please note that CMDP has not been tested for compatibility with the Microsoft Edge browser).
- A screen resolution of 1366 x 768 pixels is recommended.

# EPA CMDP Website

- <https://www.epa.gov/ground-water-and-drinking-water/compliance-monitoring-data-portal>

## Welcome to CMDP Support

Announcements for CMDP

 <b>Launch CMDP</b>	 <b>Password Reset</b>	 <b>Request Support</b>
 <b>Primacy Agencies Info</b>	 <b>Contacts &amp; Resources</b>	 <b>FAQs</b>
 <b>Labs/Water Systems Info</b>	 <b>Laboratory Information Management System (LIMS)</b>	



# Contacts

- TCEQ
  - James Stapel
    - [james.stapel@tceq.texas.gov](mailto:james.stapel@tceq.texas.gov)
    - (512)239-6712
- GEC
  - Kim Clemente
    - kim.clemente@1gec.com
    - (407)720-0477



**Questions?**