US Environmental Protection Agency Region 8

Drinking Water Branch 1595 Wynkoop Street Denver, CO 80202-1129

https://www.epa.gov/region8-waterops
Disinfectants/Disinfection Byproducts Rule (DBP) Precursors - Form 4.4.5

Stage 1 Total Organic Carbon Removal Ratios Enhanced Coagulation and Softening Treatment Plants

PWS ID No.:					PLANT NAME:					
SYSTEM NAME:					PREPARED BY:				•	
PREPARED DATE:					TITLE:					
Check One (Use X):			1st Quarter		2nd Quarter		3rd Quarter		4 th Quarter	r
	Current Year				**Note: Four Digi	its (YYYY). No	spaces. Numbers on		•	ľ
	Report Due				[
				Column D			Column E		Column F	
	Column A	Column B	Column B Column C		Source Water		Treated Water		Removal	Performance
Reporting Quarters	Month	Year	Plant Operating	Alkalinity mg/L	TOC mg/L	SUVA (Optional) L/mg-m	TOC mg/L	SUVA (Optional) L/mg-m	Actual TOC %	Compliance Ratio
Reporting Quarters	January	1 cai	Operating	1119/12	g.2	L'ing in	1115/ 22	L'ing in		111110
1st Quarter	February		/t	; /	l	 	[]		<i> </i>	
	March		/ -	,						
2nd Quarter	April									
	May		/							
	June						<u> </u>			
3rd Quarter	July		<u>/</u>	<u>, </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	
	August		/							
	September						<u> </u>			
4th Quarter	October		A	,			1			
	November		/	,			 			
	December									
					Running Annual Average (RAA) for your Compliance Removal Ratio					
Form Check:										
Preparer's Notes:										
Resources:	Domoval Perfor	manca Requiren	nonte				Table 2. Specific II	ltra Violet Absorbs	ance (SIIV &	()
Table 1: Actual TOC Removal Performance Requirements Source Water Alkalinity, mg				y/L (as CaCO ₂)	Table 2: Specific Ultra Violet Absorbar SUVA Calculato				`	9
Source Water TOC, mg/L		0-60	>60-120	>120			UV254	DO FE Calcula	cm-1	
-			_			ļ			mg/L	
>2.0 - 4.0		35%	25%	15%		ļ	DOC		~	
>4.0 - 8.0		45%	35%	25%	1	ļ	SUVA		L/mg-m	
>8.0		50% 40% 30%						$/UV_{254}$	(cm^{-1})	
APPROVED STEP 2 WAIVER		Not Applicable			j		$SUVA(^{L}/mg$ -	$(-m) = \left(\frac{UV_{254}}{DOC(n)}\right)$	$\frac{ma/L}{ma/L}$	100
								(200()	109/11/	

INSTRUCTIONS FOR COMPLETING

- 1. PWS ID No.: Enter the Public Water System (PWS) Identification Number assigned by USEPA.
- 2. System Name: Enter system legal name provided to USEPA when PWS ID assigned.
- 3. Prepared Date: Enter the date that the final report is prepared.
- 4. Plant Name: Enter the name of the treatment plant. If the plant has no name, please enter "Water Treatment Plant"
- <u>5. Prepared by</u>: Enter the name of the person completing the form.
- 6. Title: Enter the Title/position of individual submitting the document.
- 7. Check One Quarter: Place an X in the space to the left of the current quarter. Only X must be entered on this line.
- 8. Current Year: Enter the current for the report. This should be in a four digit (YYYY) format.
- 9. Report Due: This will automatically display the due date. The report must be submitted to R8DWU@epa.gov with the PWS ID # and "TOCA" in the subject line.
- 10. Column A: This column displays the months of the year. This column will not change.
- 11. Column B: This column will automatically populate depending on the submittal quarter (Step 7) and the year entered in Step 8. If problems occur, repeat Steps 7-8.
- 12. Column C: If any water was delivered to the distribution system during any part of the month, this must indicate "Yes." Otherwise, please indicate "No."
 - Use the failure to monitor (FTM) option, if the plant was running, but no approved samples were collected.
- 13. Column D: Enter the Alkalinity, TOC, or optional SUVA for the source water. Source water sampling must be conducted before any treatment or chemicals are added to the water.
- 14. Column E: Enter the TOC or optional SUVA for the finished treated water. Finished water sampling is located at or before the combined filter effluent turbidity monitoring location.
- 15. Column F: This will automatically display the removal performance for each month. The RAA compliance ratio will be displayed at the bottom.
- 16. Form Check: In filling out the spreadsheet, the notes section will display automatic notes for the preparer to check before submitting the spreadsheet.
- 17. Preparer's Notes: (Optional) The prepare may add notes here for documentation purposes.
- 18. Table 1: For reference only.
- 19. Table 2: This is a calculator for your own use. SUVA is Specific Ultra Violet Absorbance. DOC is dissolved organic carbon. UV254 is a measure of light absorbed by organic matter.