

## Massachusetts Department of Environmental Protection - Drinking Water Program

GWF CT1

## **CT Determination for Ground Water Rule Systems**

I. PWS INFORMATION:												
PWSI	D#:		PWS Na	me:					PWS Town:			
Treatment Plant Name <sup>1</sup> :					Reporting Period → Mo			onth:	Year:			
	Disinfecta											
II. DAILY REPORTING: Measurements taken during peak hourly flow.												
	Lowest Daily			Time of Free	Free				144.4			
Day	Free Chlorine Residual (mg/L)	Peak Hourly Flow <sup>2</sup> (gpm)		Chlorine Residual Measurement	Chlorine Residual <sup>3</sup> C (mg/L)	Disinfectant Contact Time⁴ T (min.)	CT calc (= CxT)	pH⁵	Water Temp <sup>6</sup> (°C)	CT <sup>7</sup> 99.99	Is CT 99.99 <sup>8</sup> greater than CT calc?	
1											☐ Yes	
2											☐ Yes	
3											☐ Yes	
4											☐ Yes	
5											☐ Yes	
6											Yes	
7											Yes	
8											Yes	
9											Yes	
10											☐ Yes	
11											☐ Yes	
12											☐ Yes	
13											Yes	
14											Yes	
15											Yes	
16											☐ Yes	
17											Yes	
18											Yes	
19											Yes	
20											Yes	
21											Yes	
22											Yes	
23											Yes	
24											Yes	
25											Yes	
26											Yes	
27											Yes	
28											☐ Yes	
29											☐ Yes	
30											☐ Yes	
31											☐ Yes	
2. Pea		ans th	e highest pum	point. page <i>hour</i> during		he absolute peak			h afana an at tha a	·		

- 3. The residual disinfectant concentration "C" of the water must be measured each day during peak hourly flow, before or at the first customer, after the required contact time, and at the location approved by MassDEP.
- 4. The disinfectant contact time(s) ("T") must be determined for each day during peak hourly flow. The time *T* used in calculating *CT*, is the time it takes the water, during peak hourly flow, to move between the point of disinfection application and the point at which the residual is measured.
- 5. The pH of the disinfected water must be measured at least once per day at the chlorine residual disinfectant concentration sampling point during peak hourly flow.
- 6. The temperature of the disinfected water must be measured at least once per day at the residual disinfectant concentration sampling point during peak hourly flow.
- 7. Use Inactivation Tables in 1999 August EPA Guidance Manual for Disinfection Profiling and Benchmarking.
- 8. One or more "Yes" responses above indicates a potential GWR Treatment Technique violation; call your regional office within 24 hours. If the continuous monitoring equipment fails, the PWS must conduct grab sampling every four hours until the equipment is returned to service; continuous monitoring must be restored within 14 days. Failure to achieve the required CT within 4 hours is a Treatment Technique violation (Tier 2).

I certify under penalties of law that I am the person authorized to	i iio Auu	norized Signature:					
fill out this form and the information contained herein is true accurate and complete to the best extent of my knowledge.	Date:	Title:					
In accordance with 240 CMP 22 4E/2) if mailing names reports	TIMO conice of this	an art my sat ha raaabsad	Lhu vour MassDED Dagional Of	ffina ma latar th	an 10 d	aug after the	

In accordance with 310 CMR 22.15(2), if mailing paper reports, <u>TWO</u> copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.