

# MONTHLY REPORT FOR WATER TREATMENT TECHNIQUE COMPLIANCE DETERMINATION

System No. \_\_\_\_\_ Report for the Month Beginning \_\_\_\_\_ 1, 19\_\_\_\_\_  
 Water System Name \_\_\_\_\_ Treatment Plant Name \_\_\_\_\_  
 Prepared by \_\_\_\_\_ Title \_\_\_\_\_ Signature \_\_\_\_\_

## Turbidity Performance Criteria

A. Hours of plant operation and clearwell effluent turbidity interpretation (reading) data. Charts are to be marked and interpreted at regular intervals of 4 hours or less. A satisfactory interpretation (reading) is one which is at or below the assigned plant turbidity limit.

Date	Hours Operated	Number of Turbidity Interpretations		Date	Hours Operated	Number of Turbidity Interpretations	
		Total	Satisfactory			Total	Satisfactory
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16				Total		A =	B =

Percentage of turbidity measurements which met the standard (100xB/A)\_\_\_\_\_

B. Record the date and turbidity value for any measurements exceeding the plant limit. Indicate whether the event being reported also exceeds 5 NTU. Attach details of public notice for each event. If none, enter "none".

Date	Type of Event (Turbidity exceeds 5 NTU or plant limit only)	Duration (Hours)	Pertinent Turbidity Value	Date Reported to State	Date of Public Notice

C. Date of turbidimeter calibration \_\_\_\_\_ Deviation \_\_\_\_\_ +/- (+ means previous readings lower)

## Disinfection Performance Criteria

- D. Record the daily minimum disinfectant residual at the point-of-entry (POE) to the distribution system and the daily plant total inactivation ratio ( $CT_{\text{provided}}/CT_{\text{required}}$ ) at maximum flow for the day.

Date	Minimum POE Residual (mg/L)	Total Inactivation Ratio	Date	Minimum POE Residual (mg/L)	Total Inactivation Ratio
1			16		
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		
14			29		
15			30		
			31		

- E. Record the date of occurrence, duration and date reported for each time the disinfectant residual was less than 0.2 mg/L or the Total Inactivation ratio was less than 1. Attach details of public notice for each event. If none, enter "none".

Date	Type of Event (Residual or Total Inactivation)	Duration (Hours)	Pertinent Residual or Total Inactivation Ratio Value	Date Reported to State	Date of Public Notice

- F. Distribution System Disinfectant Residual Criteria

Number of sites where disinfectant residual measurements were made	A =
Number of sites where HPC samples were taken instead of residual measurements	B =
Number of sites where no residual was detected and no HPC sample was taken	C =
Number of sites where no residual was detected and HPC exceeded 500	D =
Number of sites where no residual measurement was made and HPC exceeded 500	E =

Violation Percentage for This Month\* \_\_\_\_\_ Violation Percentage for Last Month\* \_\_\_\_\_  
 \*Violation Percentage =  $100 * (C+D+E) / (A+B)$

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System No. \_\_\_\_\_ Report for the Month of \_\_\_\_\_, 19\_\_\_\_\_

Water System Name \_\_\_\_\_ Treatment Plant Name \_\_\_\_\_

**Raw and Finished Water Characteristics**

G. Daily Maximum Turbidity Reading, Temperature and pH Data

Date	Raw Water Data			Finished Water Data		
	Temperature	Turbidity	pH	Temperature	Turbidity	pH
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
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19						
20						
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22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

**CT VALUES FOR 3-LOG INACTIVATION OF *GIARDIA LAMBLIA* CYSTS BY FREE CHLORINE<sup>1</sup>**

Residual ppm	Temperature ≤ 0.5 °C							Temperature 5.0 °C						
	pH							pH						
	≤6.0	6.5	7.0	7.5	8.0	8.5	9.0	≤6.0	6.5	7.0	7.5	8.0	8.5	9.0
<0.4	137	163	195	237	277	329	390	97	117	139	166	198	236	279
0.6	141	168	200	239	286	342	407	100	120	143	171	204	244	291
0.8	145	172	205	246	295	354	422	103	122	146	175	210	252	301
1.0	148	176	210	253	304	365	437	105	125	149	179	216	260	312
1.2	152	180	215	259	313	376	451	107	127	152	183	221	267	320
1.4	155	184	221	266	321	387	464	109	130	155	187	227	274	329
1.6	157	189	226	273	329	397	477	111	132	158	192	232	281	337
1.8	162	193	231	279	338	407	489	114	135	162	196	238	287	345
2.0	165	197	236	286	346	417	500	116	138	165	200	243	294	353
2.2	169	201	242	297	353	426	511	118	140	169	204	248	300	361
2.4	172	205	247	298	361	435	522	120	143	172	209	253	306	368
2.6	175	209	252	304	368	444	533	122	146	175	213	258	312	375
2.8	178	213	257	310	375	452	543	124	148	178	217	263	318	382
3.0	181	217	261	316	382	460	552	126	151	182	221	268	324	389
Residual ppm	Temperature 10.0 °C							Temperature 15 °C						
	pH							pH						
	≤6.0	6.5	7.0	7.5	8.0	8.5	9.0	≤6.0	6.5	7.0	7.5	8.0	8.5	9.0
<0.4	73	88	104	125	149	177	209	49	59	70	83	99	118	140
0.6	75	90	107	128	153	183	218	50	60	72	86	102	122	146
0.8	78	92	110	131	158	189	226	52	61	73	88	105	126	151
1.0	79	94	112	134	162	195	234	53	63	75	90	108	130	156
1.2	80	95	114	137	166	200	240	54	64	76	92	111	134	160
1.4	82	98	116	140	170	206	247	55	65	78	94	114	137	165
1.6	83	99	119	144	174	211	253	56	66	79	96	116	141	169
1.8	86	101	122	147	179	215	259	57	68	81	98	119	144	173
2.0	87	104	124	150	182	221	265	58	69	83	100	122	147	177
2.2	89	105	127	153	186	225	271	59	70	85	102	124	150	181
2.4	90	107	129	157	190	230	276	60	72	86	105	127	153	184
2.6	92	110	131	160	194	234	281	61	73	88	107	129	156	188
2.8	93	111	134	163	197	239	287	62	74	89	109	132	159	191
3.0	95	113	137	166	201	243	292	63	76	91	111	134	162	195
Residual ppm	Temperature 20 °C							Temperature ≥ 25 °C						
	pH							pH						
	≤6.0	6.5	7.0	7.5	8.0	8.5	9.0	≤6.0	6.5	7.0	7.5	8.0	8.5	9.0
<0.4	36	44	52	62	74	89	105	24	29	35	42	50	59	70
0.6	38	45	54	64	77	92	109	25	30	36	43	51	61	73
0.8	39	46	55	66	79	95	113	26	31	37	44	53	63	75
1.0	39	47	56	67	81	98	117	26	31	37	45	54	65	78
1.2	40	48	57	69	83	100	120	27	32	38	46	55	67	80
1.4	41	49	58	70	85	103	123	27	33	39	47	57	69	82
1.6	42	50	59	72	87	105	126	28	33	40	48	58	70	84
1.8	43	51	61	74	89	108	129	29	34	41	49	60	72	86
2.0	44	52	62	75	91	110	132	29	35	41	50	61	74	88
2.2	44	53	63	77	93	113	135	30	35	42	51	62	75	90
2.4	45	54	65	78	95	115	138	30	36	43	52	63	77	92
2.6	46	55	66	80	97	117	141	31	37	44	53	65	78	94
2.8	47	56	67	81	99	119	143	31	37	45	54	66	80	96
3.0	47	57	68	83	101	122	146	32	38	46	55	67	81	97

Note:

1. These CT values achieve greater than 4-log inactivation of viruses. CT values between the indicated temperature, pH and residual may be determined by linear interpolation. If no interpolation is used, use the CT value from the table corresponding to the lower temperature and residual, and higher pH.