

OHA - Drinking Water Program -Turbidity Monitoring Report Form

County: Tillamook

Conventional or Direct Filtration

Month/Year: June 2022

System Name:	Netarts Water District			ID#: 41	00556		WTP: TP - A
Day	12 AM [NTU]	4 AM [NTU]	8 AM [NTU]	NOON [NTU]	4 PM [NTU]	8 PM [NTU]	Highest Reading of the Day ¹ [NTU]
1	0.024	0.023	0.029	0.024	0.025	0.018	0.046
2	0.018	0.019	0.018	0.019	0.023	0.023	0.048
3	0.016	0.018	0.017	0.029	0.023	0.029	0.092
4	0.021	0.018	0.019	0.021	0.060	0.250	0.251
5	PO	PO	0.161	0.438	0.191	0.075	0.450
6	0.070	0.102	0.113	0.089	0.180	0.078	0.135
7	0.040	0.023	PO	0.019	0.019	0.015	0.170
8	0.021	0.027	0.027	0.016	0.015	0.015	0.053
9	0.021	0.018	0.018	0.020	0.046	0.092	0.092
10	PO	PO	0.223	0.189	0.117	0.200	0.279
11	PO	PO	0.290	0.115	0.119	0.081	0.240
12	0.089	0.090	0.108	0.102	0.063	0.051	0.239
13	0.075	0.076	0.101	0.139	0.126	0.148	0.148
14	0.123	0.103	0.049	0.080	0.089	0.043	0.128
15	0.065	0.060	0.040	0.029	0.045	0.058	0.144
16	0.070	0.052	0.065	0.080	0.070	0.060	0.170
17	0.065	0.085	0.041	0.047	0.054	0.034	0.031
18	0.029	0.029	0.029	0.020	0.027	0.025	0.190
19	0.024	0.031	0.039	0.019	0.018	0.021	0.115
20	0.019	0.018	0.022	0.016	0.018	0.023	0.085
21	0.026	0.020	0.018	0.029	0.021	0.018	0.046
22	0.018	0.023	0.028	0.023	0.018	0.018	0.060
23	0.021	0.020	0.026	0.030	0.021	0.027	0.107
24	0.019	0.020	0.021	0.022	0.021	0.019	0.092
25	0.019	0.018	0.024	0.018	0.016	0.020	0.115
26	0.021	0.018	0.017	0.016	0.037	0.024	0.049
27	0.034	0.020	0.019	0.026	0.026	0.041	0.115
28	0.018	0.019	0.024	0.019	0.078	0.064	0.139
29	0.020	0.019	0.025	0.022	0.019	0.018	0.070
30	0.020	0.020	0.017				
31							

Conventional or Direct Filtration

Monthly Summary (Answer Yes or No)

95% of daily turbidity readings ≤ 0.3 NTU? Yes / No
 All daily turbidity readings ≤ 1 NTU? Yes / No
 All turbidity readings < IFE² triggers Yes / No

CT's met everyday? (see back) Yes / No
 All Cl₂ residual at entry point Yes / No

Notes:

PRINTED NAME: TIM WOODS
 SIGNATURE: [Signature] DATE: 7-5-22
 PHONE #: () CERT #: 1657

¹ Including continuous NTU data, if applicable, for optimization recording purposes. Compliance values in columns correspond to continuous readings' maximum. ² IFE = Individ. Filter Effl. (333-061-0040(1)(e)(B&C))

OHA - Drinking Water Program - Surface Water Quality Data Form

WTP - : A

System Name: Netarts Water District ID#: 41 00556 Month/Year: June 2022							Disinfection Giardia Log Location: 0.5		
Date	Time	Minimum Cl ₂ Residual at 1st User (C) ³	Contact Time (T)	Actual CT	Temp	pH	Required CT	CT Met? ³	Peak Hourly Demand Flow
		[ppm or mg/L]	[minutes]	C X T	[° C]		formula	Yes / No	[GPM]
1	8:30	1.01	140	141.4	11.5	7.74	22.7	Yes	126
2	8:30	1.12	140	156.8	11.9	7.75	22.4	Yes	120
3	8:30	1.11	140	155.4	11.6	7.76	22.9	Yes	137
4	8:30	1.24	140	173.6	11.7	7.76	23.1	Yes	163
5	8:30	1.29	140	180.6	11.8	7.63	22.1	Yes	175
6	8:30	1.05	140	146.3	12.0	7.70	21.7	Yes	128
7	8:30	0.94	140	131.6	11.7	7.58	21.0	Yes	210
8	8:30	1.37	140	191.8	12.0	7.63	22.0	Yes	135
9	8:30	1.28	140	179.2	12.0	7.62	21.7	Yes	128
10	8:30	1.25	140	175.0	12.1	7.58	21.2	Yes	149
11	8:30	0.91	140	127.4	12.1	7.61	20.6	Yes	163
12	8:30	0.91	140	127.4	12.1	7.61	20.6	Yes	174
13	8:30	0.68	140	95.2	13.4	7.69	18.9	Yes	126
14	8:30	1.13	140	158.2	12.0	7.62	21.3	Yes	136
15	8:30	1.16	140	162.4	12.0	7.55	20.9	Yes	136
16	8:30	1.28	140	179.2	12.0	7.59	21.5	Yes	162
17	8:30	1.18	140	165.2	11.9	7.62	21.6	Yes	154
18	8:30	1.28	140	179.2	12.1	7.68	22.0	Yes	167
19	8:30	1.26	140	176.4	12.3	7.66	21.5	Yes	196
20	8:30	1.25	140	175.0	12.0	7.65	21.8	Yes	174
21	8:30	1.35	140	189.0	12.0	7.67	22.2	Yes	168
22	8:30	1.27	140	177.8	12.1	7.65	21.7	Yes	163
23	8:30	1.32	140	184.8	12.3	7.63	21.4	Yes	190
24	8:30	1.27	140	177.8	12.1	7.65	21.7	Yes	200
25	8:30	1.23	140	172.2	12.2	7.66	21.6	Yes	260
26	8:30	1.48	140	207.2	12.5	7.65	21.6	Yes	247
27	8:30	1.35	140	189.0	12.6	7.68	21.4	Yes	223
28	8:30	1.32	140	184.8	12.6	7.67	21.2	Yes	158
29	8:30	1.25	140	175.0	12.4	7.67	21.4	Yes	150
30	8:30	1.19	140	166.6	12.5	7.67	21.1	Yes	
31	8:30		140	0.0			4.2		

3 If Cl₂ at entry point < 0.2 mg/l or CT not met, DWP to be notified by end of next business day.

Revised February 2012

Chlorine Tests

Date	Site 1	Site 2	Clearwell	600,000 Tank	Pump Station
1	1.01	0.85	1.25	0.96	0.99
2	1.12	0.06	1.17	1.05	0.97
3	1.11	1.08	1.33	1.19	1.02
4	1.24	0.87	1.48 *	1.31	1.25
5	1.29	1.23	1.26	1.14	1.14
6	1.05	1.00	1.50	1.15	1.09
7	0.94	1.06	1.27	1.01	0.95
8	1.37	0.73	1.26	1.27	1.18
9	1.28	0.79	0.93	1.32	1.30
10	1.25	0.84	0.77	1.19	1.06
11	0.91	0.49	0.96	0.83	1.04
12	0.91	0.73	0.98	1.55	0.97
13	0.68	0.93	1.89	1.03	1.05
14	1.13	0.60	1.92	1.12	1.02
15	1.16	0.89	1.86	1.14	0.94
16	1.28	0.89	1.19	1.31	1.32
17	1.18	0.99	1.07	1.22	1.07
18	1.28	1.13	1.29	1.26	1.07
19	1.26	1.03	1.38	1.26	1.25
20	1.25	1.09	1.46	1.29	1.12
21	1.35	1.10	1.38	1.29	1.16
22	1.27	0.89	1.09	1.30	1.06
23	1.32	1.11	1.85 *	1.18	1.14
24	1.27	1.25	1.43	1.06	1.24
25	1.23	1.06	1.80	1.35	1.25
26	1.48	1.14	1.63	1.47	1.29
27	1.35	1.12	1.18	1.34	1.18
28	1.32	1.29	1.18	1.28	1.17
29	1.25	1.08	1.10	1.25	1.30
30	1.19	1.36	1.03	0.98	1.18
31					

Turbidity

JUNE 2022

Raw	Plant 1	Plant 2	Plant 3	Effluent Turbidity	Notes
0.775	0.046	PO	0.028	0.029	
0.653	0.032	PO	0.024	0.018	
1.518	0.034	PO	0.021	0.017	
0.546	0.063	PO	0.021	0.019	* BW P-1
1.105	PO	0.056	0.203	0.161	
0.935	PO	0.037	0.165	0.113	
0.968	PO	PO	PO	PO	Plants Off
1.315	PO	0.018	0.028	0.027	
0.833	PO	0.015	0.025	0.018	
2.089	2.184	PO	2.625	2.923	
0.971	0.239	PO	0.215	0.290	
1.807	0.053	PO	0.162	0.108	
0.841	0.125	PO	0.066	0.101	
1.452	0.028	PO	0.102	0.086	
1.918	0.051	PO	0.041	0.040	
1.094	0.076	0.013	0.063	0.065	
1.578	0.015	0.013	0.083	0.041	
0.725	0.017	0.013	0.039	0.027	Plants Off
0.756	PO	0.014	0.041	0.028	
0.789	PO	0.027	0.058	0.022	
0.857	PO	0.029	0.026	0.018	
0.806	PO	0.041	0.027	0.028	
0.763	PO	0.042	0.031	0.026	*Flush p3
0.732	PO	0.032	0.027	0.021	
1.138	0.037	0.014	0.067	0.024	
0.583	0.016	0.022	0.025	0.017	
0.485	0.041	PO	0.024	0.019	
1.514	0.035	PO	0.025	0.024	
0.802	0.016	0.040	0.040	0.025	
0.758	0.017	0.016	0.027	0.017	

R.T. 0.12

JUNE 2014

Raw Water Meter

Clearwell Meter

Ph

Chemicals

Date	Time	Meter Reading	Gain	Meter Reading	Gain	Raw	Finished	600,000 Tank	Pump Station	USP 7000	Chlorine	Soda Ash
		61,077,800		73029200								
1	8:30	61,241,200	163,400	73,187,800	158,600	7.48	7.75	7.80	7.76	56	23	28.0
2	8:30	61,446,200	205,000	73,381,900	194,100	7.58	7.78	7.76	7.76	45	14	26.0
3	8:30	61,592,100	145,900	73,521,000	139,100	7.52	7.77	7.73	7.78	39	26	25.0
4	8:30	61,815,200	223,100	73,731,100	210,100	7.44	7.61	7.72	7.76	87	15	22.5
5	8:30	61,930,400	115,200	73,837,600	106,500	7.48	7.62	7.68	7.63	80	10	21.5
6	8:30	62,179,100	248,700	74,072,200	234,600	7.40	7.64	7.61	7.62	66	23	18.0
7	8:30	62,374,200	195,100	74,256,500	184,300	7.48	7.63	7.65	7.64	55	14	16.0
8	8:30	62,543,100	168,900	74,416,200	159,700	7.53	7.61	7.61	7.62	45	31	13.5
9	8:30	62,708,100	165,000	74,571,000	154,800	7.40	7.61	7.65	7.63	36	24	12.0
10	8:30	62,833,500	125,400	74,688,100	117,100	7.27	7.54	7.61	7.61	94	18	29.0
11	8:30	63,043,600	210,100	74,882,600	194,500	7.52	7.68	7.61	7.68	80	3	27.0
12	8:30	63,272,200	228,600	75,110,200	227,600	7.45	7.63	7.63	7.68	66	15	24.0
13	8:30	63,490,500	218,300	75,316,900	206,700	7.56	7.80	7.75	7.74	53	28	21.5
14	8:30	63,664,400	173,900	75,482,800	165,900	7.59	7.71	7.61	7.64	42	18	19.5
15	8:30	63,845,500	181,100	75,652,700	169,900	7.43	7.69	7.59	7.55	91	8	17.0
16	8:30	64,131,400	285,900	75,931,900	279,200	7.44	7.61	7.62	7.61	75	18	14.0
17	8:30	64,361,400	230,000	76,155,200	223,300	7.42	7.64	7.64	7.61	65	8	15.0
18	8:30	64,548,000	186,600	76,338,700	183,500	7.45	7.68	7.70	7.65	55	25	10.5
19	8:30	64,774,500	226,500	76,562,000	223,300	7.46	7.64	7.68	7.66	45	14	10.00
20	8:30	64,954,000	179,500	76,735,000	173,000	7.50	7.67	7.66	7.65	35	3	6.0
21	8:30	65,145,400	191,400	76,919,000	184,000	7.42	7.63	7.68	7.64	82	18	28.5
22	8:30	65,364,800	219,400	77,127,300	208,300	7.42	7.59	7.62	7.62	70	28	25.5
23	8:30	65,552,900	188,100	77,309,500	182,200	7.30	7.68	7.66	7.63	56	19	23.0
24	8:30	65,767,300	214,400	77,512,300	202,800	7.31	7.65	7.67	7.66	44	7	20.50
25	8:30	66,000,200	232,900	77,738,500	226,200	7.39	7.66	7.66	7.67	92	25	18.5
26	8:30	66,329,700	329,500	78,023,900	285,400	7.38	7.66	7.66	7.62	76	8	15.50
27	8:30	66,584,900	255,200	78,208,100	184,200	7.47	7.69	7.70	7.68	61	20	13.0
28	8:30	66,815,100	230,200	78,488,400	280,300	7.39	7.67	7.69	7.68	49	8	10.00
29	8:30	67,008,500	193,400	78,673,100	184,700	7.38	7.66	7.68	7.67	96	25	28.5
30	8:30	67,231,700	223,200	78,890,000	216,900	7.37	7.65	7.68	7.64	86	16	26.5
31	8:30		(67,231,700)		(78,890,000)							

JUNE 2012

Date	HRMTR		Flow Meter		200,000 Gallon		Pump Station		Meter GPM	Tank	Notes
	Pump 1	Pump 2	Pump 1	Gain	Pump 2	Gain	Main Flow Meter	Gain			
			6636500		117930		992,795,680				
1	17060.57	15357.39	6,674,910	38,410	126,730	8,880	992,933,300	137,620	135	17'0"	Pumping
2	17066.12	15358.60	6,723,820	48,910	137,920	11,190	993,083,300	150,000	77	18'4"	
3	17066.12	15361.19	6,723,820	-	174,210	36,290	993,212,070	128,770	126	17'0"	
4	17069.49	15366.08	6,753,480	29,660	218,700	44,490	993,360,850	148,780	147	18'6"	Top Off
5	17073.94	15366.51	6,792,520	39,040	223,230	4,530	993,528,400	167,550	186	18'6"	
6	17035.36	15371.02	6,804,880	12,360	264,340	41,110	993,693,550	165,150	121	17'2"	Pumping
7	17076.12	15375.57	6,811,530	6,650	306,190	41,850	993,846,590	153,040	153	18'5"	
8	17080.10	15375.57	6,846,470	34,940	306,190	-	993,998,020	151,430	140	18'8"	
9	17080.93	15379.38	6,853,670	7,200	341,190	35,000	994,144,130	146,110	128	17'0"	
10	17083.11	15383.71	6,872,830	19,160	381,130	39,940	994,293,740	149,610	156	18'5"	
11	17087.51	15383.71	6,911,460	38,630	381,130	-	994,454,160	160,420	210	17'4"	
12	17089.10	15387.49	6,925,920	14,460	415,680	34,550	994,623,460	169,300	177	17'2"	
13	17089.99	15391.16	6,957,330	31,410	449,460	33,780	994,792,860	169,400	120	19'0"	
14	17094.05	15391.16	6,993,020	35,690	449,470	10	994,950,140	157,280	141	17'8"	
15	17094.05	15395.68	6,993,020	-	491,060	41,600	995,107,780	157,640	120	17'2"	
16	17100.59	15406.51	7,050,580	57,560	591,660	100,600	995,269,150	161,370	163	17'8"	Leak 8" line
17	17101.99	15409.42	7,092,500	41,920	618,350	26,690	995,434,730	165,580	168	19'10"	
18	17101.99	15414.42	7,092,510	10	664,580	46,230	995,608,170	173,440	102	19'0"	
19	17106.14	15419.38	7,129,070	36,560	710,200	45,620	995,797,650	189,480	187	19'0"	
20	17106.14	15427.78	7,129,070	-	750,960	40,760	995,971,110	173,460	172	18'2"	
21	17106.49	15427.66	7,132,120	3,050	786,590	76,390	996,152,490	181,380	166	16'8"	Pumping
22	11110.68	15431.36	7,169,480	37,360	820,740	34,150	996,329,890	177,400	163	18'6"	
23	11110.99	15436.36	7,205,270	35,790	820,740	-	996,522,090	192,200	180	17'8"	
24	17113.14	15443.60	7,224,140	18,870	859,730	38,990	996,716,090	194,000	159	17'8"	Pumping
25	17115.42	15439.47	7,244,170	20,030	895,440	35,710	996,922,400	206,310	181	17'10"	
26	17119.59	15442.70	7,282,040	37,870	931,840	36,400	997,172,600	250,200	240	18'6"	
27	17120.99	15444.21	7,320,540	38,500	945,070	13,230	997,408,430	235,830	204	18'3"	
28	17122.90	15447.25	7,343,180	22,640	973,660	28,590	997,623,580	215,150	166	17'0"	
29	17130.49	15447.25	7,409,880	66,700	973,660	-	997,799,760	176,180	160	17'4"	Pumping
30	17133.01	15451.30	7,432,160	22,280	1,010,910	37,250	997,972,070	172,310	144	18'10"	
31			(7,432,160)		(1,010,910)		(997,972,070)				

795,660

March 2020 *June 2022*

DATE	HRMTR 1	HRMTR 2	HRMTR 3	TRUCK MILEAGE	NOTES
1	11356.00	11359.10	409.10	121797	Dodge
2	11370.70	11359.10	409.40	109452	Ford
3	11381.20	11359.10	409.60	121816	Dodge
4	11397.30	11359.10	410.00	109515	Ford
5	11404.60	11359.90	410.00	109519	Ford
6	11405.00	11378.70	410.50	109526	Ford
7	11405.00	11393.60	410.70	121824	Dodge
8	11405.70	11406.20	411.10	121831	Dodge
9	11405.70	11418.80	411.20	109570	Ford
10	11406.10	11428.30	411.50	121873	Dodge
11	11421.30	11428.30	411.80	121890	Dodge
12	11437.60	11428.30	412.10	121895	Dodge
13	11453.50	11428.30	412.40	121903	Dodge
14	11465.70	11428.30	412.70	121942	Dodge
15	11478.70	11428.30	412.90	121992	Dodge
16	11498.60	11429.90	413.10	122018	Dodge
17	11511.30	11442.80	413.60	122061	Dodge
18	11521.47	11453.20	414.00	122091	Dodge
19	11534.10	11465.90	414.50	122096	Dodge
20	11534.10	11479.40	414.70	122103	Dodge
21	11534.10	11493.80	414.90	122130	Dodge
22	11534.10	11510.60	415.30	122173	Dodge
23	11534.10	11524.80	415.50	122187	Dodge
24	11534.10	11540.90	415.90	109603	Ford
25	11546.40	11554.10	416.30	109625	Ford
26	11564.80	11572.50	417.00	109632	Ford
27	11583.20	11572.70	417.30	109638	Ford
28	11599.90	11572.70	417.60	122233	Dodge
29	11610.70	11583.20	418.00	122244	Dodge
30	11622.70	11595.20	418.40	109714	Ford
31					

Date	1000 Phelps Ave.	5335 Netarts Hwy.	Mizee	Whiskey Creek Fish Hatchery	End of Ridgewood Dr.	Oregon St. & Bilyeu	End of Sequoia Dr.	Reeder St.	Champagne Lane	Top of Highland drive	Fifth St. Loop	Pearl St.	NWD Office	End of Happy Camp Rd.
1	1.01		0.85											
2	1.12						0.57							
3	1.11								1.08					
4	1.24											0.87		
5	1.29													1.23
6	1.05	1.00												
7	0.94			1.06										
8	1.37		0.73											
9	1.28						0.79							
10	1.25								0.84					
11	0.91											0.49		
12	0.91													0.73
13	0.68	0.93												
14	1.13			0.60										
15	1.16		0.89											
16	1.28						0.89							
17	1.18								0.99					
18	1.28											1.13		
19	1.26													1.03
20	1.25	1.09												
21	1.35			1.10										
22	1.27		0.89											
23	1.32									1.11				
24	1.27								1.25					
25	1.23											1.06		
26	1.48													1.14
27	1.35	1.12												
28	1.32			1.29										
29	1.25		1.08											
30	1.19									1.36				
31														

~~July, 2014 Chlorine Residuals~~

June 2022

Date	GPD	CL gpd	mg/l	lbs used at %100	USP 7000 gpd	
1	158600		8	1.261034048	1.668	9
2	194100		9	1.159196291	1.8765	9
3	139100		8	1.437814522	1.668	6
4	210100		11	1.308900524	2.2935	13
5	106500		5	1.17370892	1.0425	7
6	234600		12	1.278772379	2.502	14
7	184300		9	1.220835594	1.8765	11
8	159700		8	1.252348153	1.668	10
9	154800		7	1.130490956	1.4595	9
10	117100		6	1.280956447	1.251	6
11	194500		15	1.928020566	3.1275	14
12	227,600		13	1.427943761	2.7105	14
13	206700		12	1.45137881	2.502	13
14	165900		10	1.506931887	2.085	11
15	169900		10	1.471453796	2.085	11
16	279200		15	1.343123209	3.1275	16
17	223300		10	1.119570085	2.085	10
18	183500		8	1.089918256	1.668	10
19	223300		11	1.231527094	2.2935	10
20	173000		11	1.589595376	2.2935	10
21	184000		10	1.358695652	2.085	13
22	208300		7	0.840134422	1.4595	12
23	182200		9	1.234906696	1.8765	14
24	202800		12	1.479289941	2.502	12
25	226200		8	0.884173298	1.668	10
26	285400		17	1.489138052	3.5445	16
27	184200		13	1.764386536	2.7105	15
28	280300		12	1.070281841	2.502	12
29	184700		8	1.082837033	1.668	14
30	218900		9	1.027866606	1.8765	10
31				#DIV/0!	0	