



Fluoridation & Chlorination

WSSN 2310

Jun-16

DATE	Fluoride Applied F ⁻ mg/l	Fluoride Analyses mg/l			Chlorine App. Mg/l			Chlorine Residual mg/l							
					Chlorine App. Mg/l	Chlorine (prior to filtration) mg/L OCl ⁻	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap				
		Raw	Tap	Dist							Free	Free	Free	Free	
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
1			0.66						0.9						0.8
2			0.65						1.0						1.0
3			0.67						1.0						0.9
4			0.67						0.9						0.8
5			0.69						0.8						0.9
6			0.70						0.9						0.9
7			0.73						0.9						0.9
8			0.80						0.9						0.8
9			0.78						1.0						0.9
10			0.75						0.9						0.8
11			0.91						0.8						0.8
12			0.85						0.7						0.8
13			0.91			0.29			0.9						0.9
14			0.89			0.29			1.0						1.1
15			0.90			0.3			0.9						1.0
16			0.91			0.3			0.8						0.9
17			0.91			0.29			0.9						1.0
18			0.87			0.29			0.8						0.9
19			0.85			0.29			0.9						1.0
20			0.83			0.29			0.7						0.9
21			0.83			0.28			1.0						1.1
22			0.81			0.29			1.0						1.0
23			0.81			0.3			0.9						1.0
24			0.80			0.28			0.9						1.1
25			0.77			0.29			0.9						1.1
26			0.80			0.29			0.8						1.0
27			0.82			0.3			0.8						0.9
28			0.78			0.29			0.9						0.8
29															
30															
AVG			0.80						0.9						0.9
MAX			0.91						1.0						1.1
MIN			0.65						0.7						0.8



Chemical Analyses

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D A T E	pH		Total Hardness as CaCO ₃ mg/l		Total Alkalinity as CaCO ₃ mg/l		NonCarbonate Hardness as CaCO ₃ mg/l		Iron mg/L		Calcium Ca ²⁺ mg/l		Magnesium as Mg ²⁺ mg/l		Chloride as Cl ⁻ mg/l	
	CSII	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
1	7.49	7.27		100		72		28		0.02		32.1		4.9		12
2	7.47	7.34		100		70		30		0.01		32.1		4.9		11
3	7.33	7.18		98		70		28		0.01		32.9		3.9		11
4	7.46	7.32		100		72		28		0.01		35.3		2.9		11
5	7.49	7.33		100		70		30		0.02		32.9		4.4		12
6	7.46	7.31		100		72		28		0.01		32.9		4.4		11
7	7.41	7.30		100		70		30		0.02		33.7		3.9		12
8	7.40	7.27		100		72		28		0.02		29.7		6.3		12
9	7.45	7.31		104		72		32		0.01		30.5		6.8		12
10	7.37	7.26		102		70		32		0.03		28.9		7.3		11
11	7.41	7.31		100		72		28		0.02		30.5		5.8		11
12	7.41	7.28		100		72		28		0.04		32.1		4.9		14
13	7.54	7.34		106		76		30		0.05		34.5		4.9		14
14	7.38	7.29		104		76		28		0.02		30.5		6.8		14
15	7.38	7.28		106		74		32		0.02		35.3		4.4		14
16	7.42	7.29		106		76		30		0.03		35.3		4.4		14
17	7.39	7.29		104		76		28		0.03		31.3		6.3		14
18	7.45	7.27		104		76		28		0.03		35.3		3.9		13
19	7.43	7.29		104		74		30		0.02		34.5		4.4		14
20	7.40	7.31		102		74		28		0.05		36.1		2.9		12
21	7.39	7.31		102		76		26		0.04		31.3		5.8		12
22	7.43	7.30		102		74		28		0.03		34.5		3.9		13
23	7.47	7.33		102		72		30		0.02		36.1		2.9		13
24	7.48	7.41		98		75		23		0.02		32.9		3.9		12
25	7.46	7.37		104		74		30		0.02		32.9		5.3		12
26	7.53	7.34		102		72		30		0.02		36.1		2.9		13
27	7.52	7.35		104		74		30		0.03		32.9		4.4		13
28	7.44	7.33		102		70		32		0.02		33.7		4.4		12
29								0								
30								0								
AVG	7.44	7.31		102		73		27		0.02		33.1		4.7		12.5
MAX	7.54	7.41		106		76		32		0.05		36.1		7.3		14.0
MIN	7.33	7.18		98		70		0		0.01		28.9		2.9		11.0



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D A T E	Total Coliform						66	Standard Plate Count		Conductivity (mS)	Temp deg.C	Color		Odor	
	Plant Tap							Raw	Tap			Raw	Tap	Raw	Tap
			Dort	3MG Well	Sta II	Lab Tap									
	60	61	62	63	64	65									
1					2 / 0	2 / 0			0.19	12.5					
2					2 / 0	2 / 0			0.18	12.7					
3					2 / 0	2 / 0			0.19	12.8					
4					2 / 0	2 / 0			0.19	12.7					
5					2 / 0	2 / 0			0.19	13.7					
6					2 / 0	2 / 0			0.19	13.9					
7					2 / 0	2 / 0		< 2	0.20	13.5					
8					2 / 0	2 / 0			0.21	13.9					
9					2 / 0	2 / 0			0.20	13.3					
10					2 / 0	2 / 0			0.20	14.3					
11					2 / 0	2 / 0			0.20	13.9					
12					2 / 0	2 / 0			0.21	15.9					
13					2 / 0	2 / 0			0.22	15.0					
14					2 / 0	2 / 0			0.22	15.3					
15					2 / 0	2 / 0		< 2	0.22	15.7					
16					2 / 0	2 / 0			0.22	16.5					
17					2 / 0	2 / 0			0.22	15.8					
18					2 / 0	2 / 0			0.22	16.2					
19					2 / 0	2 / 0			0.22	16.1					
20					2 / 0	2 / 0			0.22	18.0					
21					2 / 0	2 / 0			0.22	16.6					
22					2 / 0	2 / 0		< 2	0.21	16.8					
23					2 / 0	2 / 0			0.22	16.6					
24					2 / 0	2 / 0			0.21	16.3					
25					2 / 0	2 / 0			0.21	16.4					
26					2 / 0	2 / 0			0.21	16.1					
27					2 / 0	2 / 0			0.21	17.1					
28									0.21	17.9					
29															
30															
										15.2					
										18.0					
										12.5					



Distribution System Monitoring WSSN 2310 Jun-16

D A T E	Free Chlorine Residual at Bacteriological Monitoring Stations mg/l										
	1	2	3	4	5	6	7	8	CS	WR	Number of Samples
1	0.81	0.57	0.72	0.89	0.68	0.20	0.73	0.76	0.97	2.68	10
2	0.79	0.77	0.77	0.63	0.49	0.26	0.67	0.81	2.35	0.81	10
3											0
4											0
5											0
6											0
7	0.80	0.34	0.63	0.59	0.56	0.20	0.71	0.81	1.42	0.92	10
8	0.83	0.71	0.81	0.62	0.59	0.21	0.67	0.85	1.09	1.91	10
9	0.84	0.85	0.82	0.72	0.64	0.28	0.73	0.92	1.75	0.92	10
10											0
11											0
12											0
13											0
14	0.94	0.97	0.91	0.81	0.75	0.25	0.86	0.97	2.62	0.99	10
15	1.06	1.00	0.94	0.83	0.81	0.29	0.90	0.88	1.08	1.06	10
16	0.85	0.74	0.75	0.67	0.60	0.28	0.73	0.93	0.98	2.20	10
17											0
18											0
19											0
20											0
21	0.77	0.90	0.94	0.69	0.72	0.20	0.88	1.03	1.14	0.92	10
22	0.98	0.99	0.90	0.69	1.07	0.55	0.86	1.05	0.91	1.48	10
23	0.95	0.92	0.92	0.74	0.89	0.44	0.84	1.00	0.92	1.35	10
24											0
25											0
26											0
27											0
28	0.85	0.79	0.75	0.68	0.52	0.22	0.73	0.89	0.93	0.75	10
29											0
30											0
Monthly Cl₂ Avg.				0.854							
Total Samples				120							



Distribution System Monitoring WSSN 2310 Jun-16

D A T E	Total Chlorine Residual at Bacteriological Monitoring Stations mg/l										
	1	2	3	4	5	6	7	8	CS	WR	Number of Samples
1	0.92	0.67	0.81	1.04	0.79	0.31	0.85	0.91	1.05	2.90	10
2	0.94	0.89	0.91	0.77	0.70	0.36	0.87	0.99	2.51	1.03	10
3											0
4											0
5											0
6											0
7	0.90	0.44	0.79	0.75	0.66	0.28	0.82	1.01	1.50	1.03	10
8	0.93	0.83	0.89	0.85	0.75	0.29	0.84	0.98	1.26	2.04	10
9	1.03	0.99	0.95	0.88	0.73	0.38	0.85	1.01	1.89	1.05	10
10											0
11											0
12											0
13											0
14	1.07	1.05	1.06	0.92	0.91	0.35	0.97	1.08	2.73	1.09	10
15	1.19	1.10	1.05	0.97	0.89	0.39	1.05	1.12	1.27	1.18	10
16	1.04	0.91	0.92	0.87	0.70	0.39	0.91	1.05	1.15	2.51	10
17											0
18											0
19											0
20											0
21	1.15	0.98	1.03	0.86	0.80	0.28	1.01	1.19	1.46	1.04	10
22	1.16	1.04	0.98	0.81	1.24	0.66	0.96	1.14	1.04	1.57	10
23	1.13	1.00	1.04	0.83	0.98	0.56	1.00	1.21	1.07	1.51	10
24											0
25											0
26											0
27											0
28	0.98	0.96	0.90	0.89	0.68	0.34	0.87	1.07	1.05	0.87	10
29											0
30											0
Monthly Cl₂ Avg.				0.992							
Total Samples				120							



ROUTINE POSITIVE DISTRIBUTION SAMPLES

Jun-16

Total number of positive routine samples:				Total Coliform: <u>1</u>		Fecal Coliform: <u>0</u>	
Date	Monitoring Station	Total Coliform	Fecal Coliform	Date	Retest of Station, Upstream & Downstream	Total Coliform	Fecal Coliform
Total number of routine distribution samples analyzed:				120			
Total number of routine distribution samples required:				100			