





**Fluoridation & Chlorination**

**WSSN 2310**

**Feb-20**

D A T E	Fluoride Applied F mg/l	Fluoride Analyses mg/l			Chlorine App. Mg/l			Chlorine Residual mg/l								
		Raw	Tap	Dist	Chlorine App. Mg/l	Chlorine (prior to filtration) mg/L OCl <sup>-</sup>	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap					
								Free	Free	Free	Free					
		14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1		0.70	0.64		1.02				1.1						1.8	
2		0.56	0.64		1.07				1.1						1.8	
3		0.55	0.55		0.97				1.1						1.6	
4		0.78	0.74		0.97				1.2						1.6	
5		0.70	0.74		1.02				1.1						1.8	
6		0.74	0.64		0.98				1.0						1.7	
7		0.65	0.65		0.95				1.0						1.6	
8		0.58	0.62		0.94				1.1						1.7	
9		0.56	0.65		0.98				1.2						1.7	
10		0.68	0.77		0.87				1.1						1.6	
11		0.44	0.58		0.90				1.2						1.6	
12		0.71	0.67		0.88				1.1						1.6	
13		0.58	0.67		0.91				1.1						1.7	
14		0.59	0.59		1.00				1.2						1.6	
15		0.61	0.67		0.98				1.0						1.6	
16		0.63	0.64		0.96				1.0						1.7	
17		0.67	0.66		0.98				1.0						1.7	
18		0.61	0.61		1.02				1.1						1.7	
19		0.59	0.64		0.91				0.9						1.7	
20		0.60	0.63		0.89				1.0						1.7	
21		0.56	0.57		1.05				1.0						1.7	
22		0.73	0.71		1.00				1.0						1.7	
23		0.57	0.65		0.93				1.0						1.6	
24		0.61	0.72		0.92				1.1						1.7	
25		0.57	0.57		0.97				1.1						1.7	
26		0.47	0.57		0.89				1.0						1.6	
27		0.59	0.67		0.89				1.1						1.7	
28		0.64	0.64		0.83				1.1						1.7	
29		0.59	0.60		0.87				1.1						1.7	
30																
31																
AVG			0.64		0.95				1.1						1.7	
MAX			0.77		1.07				1.2						1.8	
MIN			0.55		0.83				0.9						1.6	



**Chemical Analyses**

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**Feb-20**

D A T E	pH		Total Hardness as CaCO <sub>3</sub> mg/l		Total Alkalinity as CaCO <sub>3</sub> mg/l		NonCarbonate Hardness as CaCO <sub>3</sub> mg/l		Iron mg/L		Calcium Ca <sup>2+</sup> mg/l		Magnesium as Mg <sup>2+</sup> mg/l		Chloride as Cl <sup>-</sup> 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	38.00	39	40	41	42	43	44
1	7.36	7.73		98		84		28	0	0.01		28.1		6.8		13
2	7.41	7.54		102		84		34	0.0	0.01		27.3		8.3		14
3	7.26	7.67		102		88		32	0.03	0.03		28.1		7.8		14
4	7.41	7.65	102	98	74	86	38	34	0	0.04	25.7	25.7	9.2	8.8	13	12
5	7.47	7.69		98		84		28	0.01	0.02		28.1		6.8		13
6	7.05	7.70		110		86		42	0.03	0.02		27.3		10.2		13
7	7.22	7.32		102		86		34	0	0.01		27.3		8.3		14
8	7.50	7.70		108		88		38	0	0.02		28.1		9.2		13
9	7.43	7.63		106		80		28	0.02	0.01		28.1		6.8		13
10	7.24	7.77		100		82		36	0.04	0.03		25.6		8.7		14
11	7.25	7.50	100	100	94	80	30	32	0.02	0.00	28.1	27.3	7.3	7.8	12	13
12	7.50	7.61		100		84		28	0.02	0.02		28.9		6.8		14
13	7.30	7.54		102		88		32	0.02	0.00		28.1		7.8		14
14	7.34	7.56		100		90		30	0	0.02		28.1		7.3		15
15	7.36	7.46		106		88		34	0.01	0.01		28.9		8.3		15
16	7.30	7.64		108		88		36	0.02	0.01		28.9		8.7		16
17	7.38	7.46		100		86		32	0.02	0.06		27.3		7.8		15
18	7.30	7.42	102	104	82	84	30	32	0.02	0.02	28.9	28.9	7.3	7.8	14	15
19	7.34	7.41		104		86		30	0.01	0.01		29.7		7.3		15
20	7.24	7.51		104		86		32	0.03	0.02		28.9		7.8		16
21	7.34	7.44		102		86		32	0.03	0.01		28.1		7.8		15
22	7.25	7.46		104		86		32	0.02	0.00		28.9		7.8		15
23	7.29	7.44		104		84		32	0	0.01		28.9		7.8		15
24	7.34	7.43		100		84		26	0.01	0.00		29.7		6.3		15
25	7.29	7.53	100	100	80	84	28	30	0.03	0.02	28.9	28.1	6.8	7.3	15	15
26	7.31	7.51		104		84		32	0.01	0.02		28.9		7.8		16
27	7.20	7.48		100		82		28	0.01	0.03		28.9		6.8		14
28	7.18	7.55		104		84		34	0.04	0.01		28.1		8.3		16
29	7.24	7.51		100		84		32	0.02	0.01		27.3		7.8		15
30																
31																
AVG	7.31	7.55		102		85		32		0.02		28.1		7.8		14
MAX	7.50	7.77		110		90		42		0.06		29.7		10.2		16.0
MIN	7.05	7.32		98		80		26		0.00		25.6		6.3		12.0



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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			71	72	73	74
			Dort	3MG Well	Sta II	Lab Tap									
	60	61	62	63	64	65									
1						2/0			0.23	7.7					
2						2/0			0.24	8.3					
3						2/0			0.23	10.4					
4						2/0			0.23	10.3					
5						2/0			0.23	9.8					
6						2/0			0.23	9.3					
7						2/0			0.24	10.9					
8						2/0			0.23	8.7					
9						2/0			0.21	8.6					
10						2/0			0.23	10.3					
11						2/0			0.23	10.1					
12						2/0			0.23	9.4					
13						2/0			0.24	8.3					
14						2/0			0.25	9.3					
15						2/0			0.24	6.0					
16						2/0			0.24	7.0					
17						2/0			0.24	9.1					
18						2/0			0.24	8.5					
19						2/0			0.24	8.6					
20						2/0			0.26	8.8					
21						2/0			0.24	7.3					
22						2/0			0.24	8.2					
23						2/0			0.24	9.0					
24						2/0			0.24	9.9					
25						2/0			0.24	9.2					
26						2/0			0.25	8.6					
27						2/0			0.24	8.2					
28						2/0			0.24	7.0					
29						2/0			0.24	8.0					
30															
31															
AVG									0.24	8.8					
MAX									0.26	10.9					
MIN									0.21	6.0					



Distribution System Monitoring WSSN 2310

Feb-20

DATE	Free Chlorine Residual at Bacteriological Monitoring Stations mg/l																								Chlorine only sites mg/l					Number of Samples	
	1	2	3	4	CS	6	7	8	9	10	WR	12	13	14	15	16	17	18	19	20	26	27	28	29	30	21	22	23	24		25
1																															0
2																															0
3	1.43	1.65		1.47	1.48	1.46																	1.57							6	
4							0.92	1.70	1.49	1.48		1.23					1.46				1.48						1.49			8	
5													1.47	1.51	1.77	1.62			1.34					1.58				1.71	1.57	8	
6	1.46		1.46	1.58	1.32															1.42		1.57				1.24			7		
7												1.70				1.71	1.61		1.45						1.69				1.10	6	
8																														0	
9																														0	
10	1.35	1.54		1.38	1.68	1.55																	1.57					1.49		7	
11							1.25	1.64	1.70	1.49		1.16									1.78						1.64			7	
12													1.16	1.16	1.39	1.67	1.37	1.39						1.70			1.71			8	
13	1.46		1.16	1.61	1.78																1.06		1.65			1.46			7		
14													1.70			1.73	1.50		1.32						1.64				1.58	6	
15																														0	
16																														0	
17	1.32	1.71		1.58	1.68	1.57																		1.45				1.46		7	
18							1.31	1.63	1.24	1.61		1.36									1.63									6	
19														1.54	1.57	1.69	1.66	1.59	1.24					1.41			1.55	1.64		9	
20	1.42		1.53	1.57	1.79															1.39		1.68				1.45				7	
21													1.62			1.63	1.55		1.36						1.60				1.62	6	
22																														0	
23																														0	
24	1.23	1.61		1.32	1.62	1.48																	1.62					1.40		7	
25							1.65	1.69	1.48	1.66		1.28									1.69						1.44			7	
26														1.05	1.44	1.76	1.63	1.57	1.21					1.62			1.66			8	
27	1.49		1.63	1.63	1.69															1.20		1.47							6		
28													1.70			1.66	1.66		1.43						1.52				1.69	6	
29																														0	
30																														0	
31																														0	
<b>Monthly Cl<sub>2</sub> Avg.</b>				<b>1.51</b>																											
<b>Total Samples</b>				<b>120</b>																											



**Distribution System Monitoring**

**WSSN 2310**

**Feb-20**

DATE	Total Chlorine Residual at Bacteriological Monitoring Stations mg/l																									Chlorine only sites mg/l					Number of Samples	
	1	2	3	4	CS	6	7	8	9	10	WR	12	13	14	15	16	17	18	19	20	26	27	28	29	30	21	22	23	24	25		
1																																0
2																																0
3	1.62	1.87		1.74	1.88	1.80																									6	
4							1.12	1.92	1.87	1.80		1.37						1.66			1.74							1.72			8	
5														1.58	1.72	1.95	1.91		1.58							1.94			1.93	1.72	8	
6	1.57		1.78	1.78	1.97															1.64			1.83				1.66				7	
7													1.83			1.71	1.61		1.45								1.69			1.10	6	
8																															0	
9																															0	
10	1.35	1.54		1.38	1.68	1.55																								1.49	7	
11							1.58	1.91	1.84	1.84		1.48										1.78						1.64			7	
12														1.28	1.61	1.88	1.91	1.60	1.03								1.91		1.91		8	
13	1.65		1.91	1.78	2.02																										7	
14														1.93		1.96	1.88		1.53										1.83		1.81	6
15																																0
16																																0
17	1.53	1.90		1.80	1.98	1.87																									1.66	7
18							1.53	1.81	1.46	1.82		1.54										1.86										6
19															1.75	1.81	2.00	1.92	1.85	1.47								1.99				9
20	1.57		1.86	1.87	2.05																											7
21														1.80		1.90	1.81		1.56												1.83	6
22																																0
23																																0
24	1.49	1.80		1.79	1.87	1.73																									1.83	7
25							1.83	1.93	1.80	1.82		1.46																			1.65	7
26															1.38	1.71	1.98	1.97	1.82	1.50											1.95	8
27	1.71		1.78	1.84	1.94																											6
28														1.89		1.92	1.90		1.64												1.87	6
29																																0
30																																0
31																																0
<b>Monthly Cl<sub>2</sub> Avg.</b>				<b>1.74</b>																												
<b>Total Samples</b>				<b>120</b>																												



**ROUTINE POSITIVE DISTRIBUTION SAMPLES**

**Feb-20**

Total number of positive routine samples:				Total Coliform: <u>0</u>			E.coli Bacteria: <u>0</u>		Chlorine Residual (mg/L)	
Date	Monitoring Station	Total Coliform	E.coli Bacteria	Date	Time	Retest of Station, Upstream & Downstream	Total Coliform	E.coli Bacteria	Free	Total
Total number of routine distribution samples analyzed:				<b>120</b>						
Total number of routine distribution samples required:				<b>100</b>						