





**Fluoridation & Chlorination**

**WSSN 2310**

**Aug-19**

D A T E	Fluoride Applied F mg/l	Fluoride Analyses mg/l			Chlorine App. Mg/l			Chlorine Residual mg/l								
					Chlori ne 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					
		Raw	Tap	Dist	18	19	20	21	22	23	24	25	26	27	28	
1		0.71	0.74		1.23				0.9						1.6	
2		0.65	0.64		1.23				0.9						1.8	
3		0.73	0.71		1.19				0.9						1.7	
4		0.69	0.72		1.18				1.0						1.7	
5		0.79	0.83		1.17				0.8						1.7	
6		0.71	0.78		1.20				0.8						1.7	
7		0.76	0.81		1.34				0.8						1.7	
8		0.68	0.68		1.30				0.8						1.6	
9		0.67	0.67		1.29				0.9						1.7	
10		0.63	0.63		1.48				0.8						1.6	
11		0.64	0.64		1.54				0.8						1.6	
12		0.64	0.64		1.69				0.8						1.6	
13		0.63	0.63		1.63				0.9						1.7	
14		0.64	0.64		1.45				0.8						1.7	
15		0.73	0.73		1.40				0.8						1.7	
16		0.70	0.66		1.41				0.8						1.7	
17		0.65	0.68		1.53				0.8						1.7	
18		0.70	0.72		1.37				0.8						1.6	
19		0.89	0.79		1.36				0.8						1.6	
20		0.65	0.67		1.29				0.8						1.6	
21		0.81	0.72		1.30				0.8						1.7	
22		0.63	0.63		1.31				0.8						1.7	
23		0.64	0.64		1.43				0.8						1.7	
24		0.66	0.66		1.37				0.8						1.7	
25		0.65	0.65		1.40				0.8						1.6	
26		0.65	0.65		1.43				0.8						1.7	
27		0.68	0.67		1.30				0.8						1.7	
28		0.62	0.68		1.25				0.8						1.7	
29		0.70	0.72		1.51				0.8						1.7	
30		0.82	0.87		1.39				0.8						1.7	
31		0.87	0.82		1.41				0.8						1.7	
AVG			0.70		1.37				0.8						1.7	
MAX			0.87		1.69				1.0						1.8	
MIN			0.63		1.17				0.8						1.6	



**Chemical Analyses                      WSSN 2310                      Aug-19**

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	7.35	7.58		104		80		36	0.03	0.02		27.3		8.7		16
2	7.40	7.65		104		82		34	0.0	0.01		28.1		8.3		16
3	7.38	7.63		104		82		36	0.01	0.01		27.3		8.7		15
4	7.35	7.64		102		80		34	0.01	0.03		27.3		8.3		16
5	7.45	7.54		100		82		30	0.02	0.01		28.1		7.3		17
6	7.23	7.55	98	102	80	84	28	30	0.02	0.00	28.1	28.9	6.8	7.3	18	18
7	7.31	7.62		102		82		30	0.02	0.02		28.9		7.3		18
8	7.61	7.70		102		84		30	0.01	0.01		28.9		7.3		18
9	7.40	7.67		102		84		32	0	0.01		28.1		7.8		16
10	7.58	7.32		106		82		34	0.02	0.01		28.9		8.3		17
11	7.34	7.62		104		86		32	0.02	0.02		28.9		7.8		18
12	7.23	7.56		104		84		36	0.02	0.01		27.3		8.7		16
13	7.21	7.54	100	104	80	84	32	36	0.01	0.03	27.3	27.3	7.8	8.7	15	16
14	7.26	7.42		102		82		32	0.01	0.01		28.1		7.8		16
15	7.24	7.29		96		72		26	0	0.01		28.1		6.3		14
16	7.46	7.61		102		86		30	0.01	0.01		28.9		6.3		16
17	7.15	7.49		98		84		28	0.01	0.01		28.1		6.87.3		16
18	7.22	7.51		104		84		32	0.02	0.01		28.9		7.8		18
19	7.43	7.53	100	104	80	84	30	36	0	0.01	28.1	27.3	7.3	8.7		18
20	7.29	7.45		102		80		30	0	0.01		28.9		7.3		17
21	7.20	7.53		100		86		30	0	0.01		28.1		7.3		17
22	7.27	7.57		102		86		32	0.01	0.01		28.1		7.8		16
23	7.05	7.37		102		84		32	0.01	0.01		28.1		7.8		17
24	7.15	7.41		106		84		36	0.01	0.01		28.1		8.7		16
25	7.19	7.41		104		84		34	0.01	0.03		28.1		8.3		16
26	7.37	7.68		102		82		32	0.02	0.01		28.1		7.8		15
27	7.48	7.57	104	104	88	84	34	34	0.02	0.02	28.1	28.1	8.3	8.3	16	16
28	7.33	7.63		104		86		32	0.01	0.01		28.1		7.8		15
29	7.24	7.64		102		86		30	0.01	0.01		28.9		7.3		16
30	7.31	7.67		102		84		30	0.02	0.02		28.9		7.3		16
31	7.40	7.60		104		86		32	0.01	0.01		28.9		7.8		16
AVG	7.32	7.55		103		83		32		0.01		28.2		7.8		16
MAX	7.61	7.70		106		86		36		0.03		28.9		8.7		18.0
MIN	7.05	7.29		96		72		26		0.00		27.3		6.3		14.0



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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			0.24	19.6					
2						2/0			0.24	19.7					
3						2/0			0.23	19.4					
4						2/0			0.23	18.5					
5						2/0			0.24	18.5					
6						2/0			0.24	19.2					
7						2/0			0.24	19.7					
8						2/0			0.24	20.2					
9						2/0			0.24	20.2					
10						2/0			0.24	20.4					
11						2/0			0.24	20.4					
12						2/0			0.24	20.4					
13						2/0			0.24	19.8					
14						2/0			0.24	20.0					
15						2/0			0.24	20.9					
16						2/0			0.24	20.9					
17						2/0			0.24	21.0					
18						2/0			0.24	21.0					
19						2/0			0.24	21.2					
20						2/0			0.24	21.3					
21						2/0			0.24	20.6					
22						2/0			0.24	21.1					
23						2/0			0.24	21.1					
24						2/0			0.24	20.8					
25						2/0			0.24	20.4					
26						2/0			0.22	19.7					
27						2/0			0.24	19.8					
28						2/0			0.23	20.0					
29						2/0			0.24	20.6					
30						2/0			0.24	20.8					
31						2/0			0.24	20.8					
AVG									0.24	20.3					
MAX									0.24	21.3					
MIN									0.22	18.5					



Distribution System Monitoring WSSN 2310

Aug-19

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	0.95		1.29	1.24	1.89															0.80		1.64							1.19		7
2													0.83			1.50	1.53		1.03						1.66					1.49	6
3																															0
4																															0
5	1.07	1.66		1.68	1.65	1.26																	1.34								6
6							0.76	1.54	1.01	1.44	1.16										1.15						0.82				7
7														1.36	0.89	1.01	1.46	0.91	0.82					1.41				1.27			8
8	0.76		1.24	1.28	1.71	1.13	1.20	1.33	1.33	1.31	1.24		0.64	1.38	0.96	1.20	1.28	0.72	0.80	0.65	1.08	1.61	1.07	1.36						22	
9													0.87			1.50	1.55		1.03						1.60				0.92	6	
10																															0
11																															0
12	0.95	1.56		1.31	1.82	1.28																		1.42		0.79					7
13							0.89	1.50	1.04	1.44	1.26	0.56									1.16						0.90				8
14														1.38	1.13	1.47	1.46	0.99	0.90					1.52				1.63			8
15	0.75		1.30	1.29	1.71															0.58		1.56						1.10			7
16																															0
17																															0
18																															0
19	0.90	1.53		1.16	1.67	1.29																		1.32							6
20							0.78	1.47	1.47	1.33	1.18	0.49									0.61						0.89		1.48		8
21														1.67	0.75	1.26	1.38	1.03	0.89					1.37				1.05			8
22	0.86		1.25	1.29	1.80															0.80		1.65				1.03			1.05		8
23													0.78			1.32	1.47		1.04						1.54				0.89	6	
24																															0
25																															0
26	0.79	1.60		1.28	1.43	1.41																		1.30		1.14					7
27							0.83	1.59	1.06	1.51	1.25	0.37									1.17					0.84				8	
28														1.46	1.09	1.50	1.51	1.03	1.01					1.57				1.68			8
29	0.63		1.20	1.25	1.44															0.76		1.55						1.07			7
30													1.07			1.35	1.55		0.82										0.80	5	
31																															0
<b>Monthly Cl<sub>2</sub> Avg.</b>				<b>1.22</b>																											
<b>Total Samples</b>				<b>144</b>																											



Distribution System Monitoring

WSSN 2310

Aug-19

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	1.11		1.47	1.39	2.13															1.10		1.80							1.31		7
2													1.01			1.61	1.68		1.25							1.79				1.64	6
3																															0
4																															0
5	1.32	1.82		1.84	1.74	1.40																		1.53							6
6							0.96	1.69	1.14	1.69	1.39											1.42					1.00			7	
7														1.58	1.28	1.46	1.64	1.18	1.16					1.62				1.53		8	
8	1.10		1.37	1.41	1.94																									6	
9													0.99		1.60	1.69			1.22							1.77			0.98	6	
10																														0	
11																														0	
12	1.10	1.67		1.43	1.93	1.45																					0.94			7	
13							1.07	1.62	1.15	1.56	1.38	0.71															1.02			8	
14															1.59	1.28	1.61	1.55	1.16	1.08							1.77			8	
15	1.11		1.46	1.47	1.89																0.94									7	
16																														0	
17																														0	
18																														0	
19	1.10	1.71		1.42	1.87	1.51																								6	
20							1.00	1.64	1.11	1.59	1.43	0.68															1.14			8	
21															1.56	1.04	1.52	1.11	1.20	1.01								1.73		8	
22	0.93		1.42	1.38	1.90																									8	
23																														6	
24																														0	
25																														0	
26	1.06	1.78		1.47	1.62	1.56																								7	
27							1.02	1.76	1.26	1.69	1.44	0.52																		8	
28															1.67	1.27	1.66	1.69	1.19	1.17										8	
29	0.86		1.44	1.49	1.55																									7	
30																														5	
31																														0	
<b>Monthly Cl<sub>2</sub> Avg.</b>		<b>1.42</b>																													
<b>Total Samples</b>		<b>128</b>																													



**ROUTINE POSITIVE DISTRIBUTION SAMPLES**

**Aug-19**

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>144</b>						
Total number of routine distribution samples required:				<b>100</b>						