





**Fluoridation & Chlorination**

**WSSN 2310**

**Dec-17**

D A T E	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 <sup>-</sup>	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap				
		Raw	Tap	Dist							Free	Free	Free	Free	Free
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
1		0.80	0.76		1.31				0.9						1.7
2		0.81	0.79		1.25				1.0						1.6
3		0.77	0.75		1.20				0.9						1.8
4		0.79	0.78		1.30				0.7						1.7
5		0.82	0.80		1.28				0.9						1.7
6		0.81	0.80		1.25				0.8						1.6
7		0.79	0.78		1.26				0.8						1.7
8		0.84	0.81		1.23				0.8						1.7
9		0.83	0.80		1.29				0.9						1.7
10		0.82	0.81		1.29				1.0						1.8
11		0.82	0.81		1.22				0.9						1.7
12		0.80	0.79		1.23				1.0						1.8
13		0.79	0.80		1.41				0.9						1.7
14		0.82	0.81		1.34				0.9						1.7
15		0.81	0.80		1.31				0.9						1.7
16		0.79	0.78		1.27				1.0						1.8
17		0.76	0.76		1.21				1.0						1.9
18		0.76	0.76		1.34				0.9						1.7
19		0.80	0.80		1.41				0.9						1.7
20		0.73	0.74		1.27				0.8						1.7
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
AVG			0.78		1.28				0.9						1.7
MAX			0.81		1.41				1.0						1.9
MIN			0.74		1.20				0.7						1.6



**Chemical Analyses                      WSSN 2310                      Dec-17**

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	7.21	7.53		98		86		22		0.00	0	30.5		5.3		16
2	7.21	7.56		96		82		26	0.0	0.00		28.1		6.3		14
3	7.34	7.60		94		80		30	0.01	0.00		25.7		7.3		13
4	7.23	7.63		110		82		38	0	0.02		28.9		9.2		14
5	7.22	7.59	96	98	80	90	26	28	0	0.00	28.1	28.1	6.3	6.8	15	15
6	7.33	7.64		96		76		30	0	0.00		26.5		7.3		16
7	7.27	7.62		96		82		28		0.00		27.3		6.8		16
8	7.20	7.59		94		86		24		0.00		28.1		5.8		16
9	7.37	7.55		94		90		16		0.00		31.0		3.9		15
10	7.33	7.41		98		84		30		0.01		27.3		7.3		15
11	7.36	7.59		96		84		28		0.00		27.3		6.8		16
12	7.32	7.62	98	98	82	84	26	28	0	0.00	28.9	28.1	6.3	6.8	15	15
13	7.35	7.55		98		84		28		0.00		28.1		6.8		15
14	7.31	7.54		96		84		28	0	0.00		28.1		6.8		16
15	7.15	7.50		96		84		26	0.02	0.02		28.1		6.3		15
16	7.33	7.48		94		80		30	0	0.00		25.7		7.3		16
17	7.53	7.78		100		78		30	0	0.00		28.1		7.3		15
18	7.22	7.55		98		80		28	0	0.00	0.01	28.1		6.8		16
19	7.26	7.56		98		80		28	0.01	0.01		28.1		6.8		17
20	7.21	7.55		96		84		26	0	0.01		29.7		6.3		15
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
AVG	7.29	7.57		97		83		28		0.00		28.0		6.7		15
MAX	7.53	7.78		110		90		38		0.02		31.0		9.2		17.0
MIN	7.15	7.41		94		76		16		0.00		25.7		3.9		13.0



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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			0.23	11.7					
2						2/0			0.28	11.6					
3						2/0			0.22	11.5					
4						2/0			0.23	11.6					
5						2/0			0.24	11.5					
6						2/0			0.23	11.2					
7						2/0			0.23	11.3					
8						2/0			0.23	10.7					
9						2/0			0.21	10.5					
10						2/0			0.22	12.8					
11						2/0			0.23	10.5					
12						2/0			0.22	11.8					
13						2/0			0.23	12.4					
14						2/0			0.23	9.8					
15						2/0			0.23	11.3					
16						2/0			0.22	10.5					
17						2/0			0.23	11.1					
18						2/0			0.23	9.6					
19						2/0			0.23	9.8					
20						2/0			0.23	9.4					
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
AVG									0.23	11.0					
MAX									0.28	12.8					
MIN									0.21	9.4					



Distribution System Monitoring WSSN 2310

Dec-17

DATE	Free Chlorine Residual at Bacteriological Monitoring Stations 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	21	22	23	24	25					
1												1.01	1.27	0.71	1.13											1.29	5			
2																												0		
3																												0		
4	1.30	1.32	1.50	1.48	1.74	1.35																					6			
5							1.41	1.69	1.01	1.66		0.92	1.24										1.43				7			
6														0.68	1.07	1.66	1.66	1.24	1.01					1.74			7			
7						1.31	1.32	1.52	0.94	1.63															1.62		6			
8																1.67	1.66	1.35	1.18								4			
9																											10			
10																											0			
11	1.48	1.38	1.44	1.42	1.60	1.24																1.26					7			
12							1.21	1.68	1.14	1.67		0.89	1.47										1.45				7			
13														1.08	0.83	1.63	1.55	1.32	0.87					1.66			7			
14	1.41	1.22	1.47	1.48	1.79																1.04				1.59		7			
15												1.07	1.56	0.93	1.30												4			
16																											0			
17																											0			
18	1.39	1.17	1.52	1.50	1.74	1.14																1.32				1.44	8			
19							1.24	1.70	1.18	1.65		1.14	1.50										1.34				7			
20														1.15	1.37	1.65	1.66	1.37	0.99					1.67			7			
21																											0			
22																											0			
23																											0			
24																											0			
25																											0			
26																											0			
27																											0			
28																											0			
29																											0			
30																											0			
31																											0			
<b>Monthly Cl<sub>2</sub> Avg.</b>				<b>1.36</b>																										
<b>Total Samples</b>				<b>89</b>																										



Distribution System Monitoring

WSSN 2310

Dec-17

DATE	Total Chlorine Residual at Bacteriological Monitoring Stations 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	21	22	23	24	25			
1												1.23	1.44	0.87	1.24											1.49	5	
2																												0
3																												0
4	1.44	1.45	1.69	1.73	1.91	1.51																					6	
5							1.52	1.82	1.15	1.80		1.09	1.36									1.55					7	
6														0.81	1.28	1.87	1.85	1.42	1.21					1.93			7	
7						1.57	1.48	1.66	1.14	1.75															1.76		6	
8																1.79	1.85	1.54	1.26								4	
9																											0	
10																											0	
11	1.60	1.49	1.60	1.61	1.74	1.65																1.53					7	
12							1.43	1.83	1.32	1.80		1.11	1.65										1.59				7	
13														1.27	1.00	1.84	1.81	1.49	1.04					1.82			7	
14	1.63	1.44	1.70	1.71	2.01																					1.81	7	
15												1.25	1.75	1.12	1.55												4	
16																											0	
17																											0	
18	1.62	1.35	1.72	1.70	1.99	1.42																				1.64	7	
19							1.59	1.92	1.42	1.90		1.32	1.71									1.59					7	
20														1.37	1.59	1.90	1.85	1.57	1.15								7	
21																											0	
22																											0	
23																											0	
24																											0	
25																											0	
26																											0	
27																											0	
28																											0	
29																											0	
30																											0	
31																											0	
<b>Monthly Cl<sub>2</sub> Avg.</b>					<b>1.54</b>																							
<b>Total Samples</b>					<b>88</b>																							



**ROUTINE POSITIVE DISTRIBUTION SAMPLES**

**Dec-17**

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>77</b>						
Total number of routine distribution samples required:				<b>100</b>						