





**Fluoridation & Chlorination**

**WSSN 2310**

**Sep-17**

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 <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	28
1			0.78		1.66				0.8						1.8	
2			0.71		1.52				0.8						1.9	
3			0.74		1.40				0.8						2.0	
4			0.70		1.35				0.9						1.7	
5			0.78		1.35				0.8						1.7	
6			0.87		1.26				0.7						1.7	
7			0.73		1.24				0.8						1.8	
8			0.84		1.52				0.7						1.9	
9			0.87		1.27				0.8						1.8	
10			0.81		1.35				0.9						1.9	
11			0.80		1.43				0.8						1.6	
12			0.77		1.67				0.8						1.9	
13			0.78		1.56				0.8						1.7	
14			0.77		1.65				0.8						1.9	
15			0.79		1.74				0.9						1.9	
16			0.79		1.77				0.9						1.8	
17			0.79		1.80				0.8						1.8	
18			0.78		1.95				0.8						1.9	
19			0.75		1.63				0.8						1.9	
20			0.75		1.42				0.7						1.7	
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
AVG			0.78		1.53				0.8						1.8	
MAX			0.87		1.95				0.9						2.0	
MIN			0.70		1.24				0.7						1.6	



**Chemical Analyses                      WSSN 2310                      Sep-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	CSII	Tap	CSII	Tap	CSII	Tap	CSII	Tap	CSII	Tap	CSII	Tap	CSII	Tap
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
1	7.48	7.50	98	96	80	80	32	30	0.00	0.00	26.4	26.4	7.8	7.3	16	17
2	7.54	7.61		98		74		30	0.00	0.06		27.0		7.3		17
3	7.47	7.53		30		72		30	0.00	0.01		26.0		7.3		18
4	7.49	7.54		76		72		10	0.00	0.00		27.2		2.4		20
5	7.47	7.58	92	92	74	74	28	28	0.06	0.04	25.7	25.7	6.8	6.8	17	18
6	7.38	7.59		92		76		26	0.00	0.03		26.5		6.3		17
7	7.43	7.51		98		78		30	0.00	0.01		27.0		7.3		18
8	7.27	7.67		96		92		30	0.00	0.01		26.6		7.3		17
9	7.39	7.49	96	92	78	76	30	26	0.02	0.01	26	25.0	7	6.3	19	18
10	7.38	7.48		94		78		24	0.02	0.01		28.1		5.8		16
11	7.23	7.44		94	74	76		18	0.00	0.00		30.5		4.4		17
12	7.31	7.47	96	94	88	82	28	26	0.01	0.00	27.3	27.3	6.8	6.3	15	16
13	7.39	7.47		94		78		26	0.00	0.00		27.3		6.3		18
14	7.50	7.58		96		72		28	0.03	0.00		27.3		6.8		19
15	7.37	7.43		96		82		28	0.01	0.01		27.0		6.8		17
16	7.38	7.39		98		78		30	0.00	0.02		27.0		7.3		18
17	7.41	7.49		94		80		26	0.01	0.01		27.3		6.3		18
18	7.36	7.46		92		84		28	0.01	0.00		25.7		6.8		16
19	7.30	7.52	94	90	78	80	24	20	0.00	0.00	28	28.0	5.8	4.9	16	18
20	7.33	7.48		94		80		28	0.01	0.01		26.4		6.6		16
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
AVG	7.39	7.51		90		78		26		0.01		27.0		6.3		17
MAX	7.54	7.67		98		92		30		0.06		30.5		7.3		20.0
MIN	7.23	7.39		30		72		10		0.00		25.0		2.4		16.0



**WSSN 2310**

**Sep-17**

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			0.23	20.7					
2					2/0	2/0			0.23	19.6					
3					2/0	2/0			0.23	19.8					
4					2/0	2/0			0.23	20.0					
5					2/0	2/0			0.23	20.3					
6					2/0	2/0			0.23	20.4					
7					2/0	2/0			0.23	19.6					
8					2/0	2/0			0.23	19.4					
9					2/0	2/0			0.23	20.0					
10					2/0	2/0			0.23	20.3					
11					2/0	2/0			0.23	19.2					
12					2/0	2/0			0.23	20.8					
13					2/0	2/0			0.23	20.1					
14					2/0	2/0			0.22	18.8					
15					2/0	2/0			0.23	18.7					
16					2/0	2/0			0.23	18.9					
17					2/0	2/0			0.22	19.2					
18					2/0	2/0			0.22	19.0					
19					2/0	2/0			0.23	18.9					
20									0.22	20.8					
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
AVG									0.23	19.7					
MAX									0.23	20.8					
MIN									0.22	18.7					



**Distribution System Monitoring WSSN 2310**

**Sep-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	0.96		1.16	1.21								0.45							0.22						0.70	6					
2																										0					
3																										0					
4																										0					
5	1.28	1.63	1.31	1.19	1.34	1.14															0.95					7					
6							0.91	1.51	1.01	1.34		0.57										1.18				6					
7													0.77	0.71	0.61	0.58	1.37	0.40				1.29				7					
8							1.15	1.36	0.79	1.36									0.27	0.84				1.15		7					
9																										10					
10																										0					
11	1.14	1.19	1.31	1.20	1.59	0.82															0.97					7					
12							0.97	1.38	1.44	1.43		1.02										1.41				6					
13													0.62	0.81	0.76	0.80	1.40	0.53					1.59			7					
14							1.03	1.51	1.47	1.53										0.46				1.01		6					
15	0.97		1.34	1.42								1.15													1.29	5					
16																										0					
17																										0					
18	1.03	1.03	1.26	1.20	1.53	0.35															0.91					7					
19							1.09	1.61	1.62	1.57		1.25										1.04				6					
20													0.81	0.98	1.25	0.97	1.43	0.83					1.31			7					
21																										0					
22																										0					
23																										0					
24																										0					
25																										0					
26																										0					
27																										0					
28																										0					
29																										0					
30																										0					
<b>Monthly Cl<sub>2</sub> Avg.</b>					<b>1.09</b>																										
<b>Total Samples</b>					<b>84</b>																										



**Distribution System Monitoring**

**WSSN 2310**

**Sep-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	1.10		1.33	1.32								0.63							0.36							1.05	6		
2																												0	
3																												0	
4																												0	
5	1.42	1.85	1.45	1.42	1.49	1.31																1.13						7	
6							1.22	1.71	1.36	1.59		0.73										1.34						6	
7													0.94	0.89	0.81	0.84	1.52	0.57						1.46				7	
8							1.27	1.57	1.00	1.50										0.38	1.08				1.33			7	
9																												0	
10																												0	
11	1.31	1.35	1.52	1.41	1.78	1.10																1.13						7	
12							1.17	1.67	1.64	1.61		1.26											1.58					6	
13													0.74	0.88	0.82	0.93	1.50	0.69						1.68				7	
14							1.18	1.64	1.61	1.60										0.53					1.21			6	
15	1.09		1.37	1.52								1.40															1.36	5	
16																												0	
17																												0	
18	1.14	0.61	1.33	1.31	1.69	0.45																1.01						7	
19							1.18	1.68	1.63	1.65		1.30											1.17					6	
20													0.91	1.06	1.35	1.07	1.57	0.96										7	
21																												0	
22																												0	
23																												0	
24																												0	
25																												0	
26																												0	
27																												0	
28																												0	
29																												0	
30																												0	
	<b>Monthly Cl<sub>2</sub> Avg.</b>				<b>1.24</b>																								
	<b>Total Samples</b>				<b>84</b>																								



**ROUTINE POSITIVE DISTRIBUTION SAMPLES**

**Sep-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>71</b>						
Total number of routine distribution samples required:				<b>100</b>						