



Flouridation & Chlorination

WSSN 2310

Mar-16

D A T E	Fluorid e Applied F- mg/l	Fluoride Analyses mg/l			Chlorine App. Mg/l			Chlorine Residual mg/l							
						Chlorine (prior to filtration) mg/L OCI-	Post Chlorin e 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
1			0.67						1.0					1.0	
2			0.70						1.1					1.0	
3			0.72						1.0					0.9	
4			0.65						0.8					1.0	
5			0.64						1.0					0.9	
6			0.66						0.9					0.9	
7			0.71						0.9					0.9	
8			0.73						0.9					0.9	
9			0.74						0.9					0.8	
10			0.78						0.8					0.8	
11			0.79						0.6					0.7	
12			0.73						0.9					0.8	
13			0.73						0.4					0.7	
14			0.74						0.8					0.8	
15			0.75						0.8					0.8	
16			0.76						0.9					0.8	
17			0.76						0.9					0.9	
18			0.74						0.9					0.8	
19			0.69						0.9					0.8	
20			0.71						0.8					0.8	
21			0.72						0.9					0.9	
22			0.75						0.9					0.9	
23			0.74						0.9					0.8	
24			0.75						0.9					0.8	
25			0.77						0.9					0.9	
26			0.79						0.9					0.9	
27			0.75						0.9					0.9	
28			0.73						1.0					0.9	
29			0.78						0.9					0.9	
30			0.75						0.9					0.9	
31			0.75						0.9					0.8	
AVG			0.73						0.9					0.9	
MAX			0.79						1.1					1.0	
MIN			0.64						0.4					0.7	



Chemical Analyses

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D A T E	pH		Total Hard as CaCO ₃ mg/l		Total Alk as CaCO ₃ mg/l		NonCarbonate Hardness as CaCO ₃ mg/l		Iron (mg/L)		Calcium Ca ++ mg/l		Magnesium as Mg ++ 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	38.00	39	40	41	42	43	44
1	7.22	7.17		102		70		32		0.03		32.9		4.9		12
2	7.31	7.18		100		68		32		0.03		34.5		3.4		11
3	7.32	7.21		98		72		26		0.00		35.3		2.4		12
4	7.27	7.16		100		70		30		0.01		31.1		5.3		13
5	7.16	7.13		100		68		32		0.03		39.3		0.5		12
6	7.23	7.12		104		72		32		0.03		32.9		5.3		10
7	7.37	7.15		104		72		32		0.03		33.7		4.9		11
8	7.31	7.19		104		70		34		0.01		36.9		2.9		12
9	7.32	7.24		98		70		28		0.03		35.3		2.4		12
10	7.32	7.23		100		70		30		0.04		34.5		3.4		12
11	7.32	7.28		98		72		26		0.02		32.1		4.4		11
12	7.24	7.17		98		72		26		0.02		36.1		1.9		11
13	7.41	7.22		102		72		30		0.02		31.3		5.8		10
14	7.34	7.25		98		72		26		0.02		28.9		6.3		11
15	7.28	7.18		96		72		24		0.01		36.9		1.0		11
16	7.29	7.16		102		68		34		0.02		35.3		3.4		10
17	7.48	7.13		98		68		30		0.01		34.5		2.9		11
18	7.32	7.16		96		70		26		0.01		34.5		2.4		11
19	7.34	7.27		102		70		32		0.00		33.7		4.4		10
20	7.29	7.19		100		72		28		0.01		32.9		4.4		9
21	7.35	7.17		100		68		32		0.02		29.7		6.3		10
22	7.28	7.17		96		68		28		0.01		34.5		2.4		11
23	7.31	7.16		96		70		26		0.01		32.9		3.4		11
24	7.30	7.19		102		72		30		0.01		37.7		1.9		11
25	7.32	7.19		98		70		28		0.01		33.7		3.4		11
26	7.27	7.20		98		70		28		0.01		35.3		2.4		10
27	7.42	7.17		100		70		30		0.01		36.1		2.4		11
28	7.27	7.17		96		68		28		0.01		35.3		1.9		11
29	7.21	7.11		100		74		26		0.00		36.1		2.4		11
30	7.25	7.18		102		72		30		0.01		33.7		4.4		12
31	7.39	7.27		102		72		30		0.01		33.7		4.4		11
AVG	7.31	7.19		100		70		29				34.2		3.5		11.0
MAX	7.48	7.28		104		74		34				39.3		6.3		13.0
MIN	7.16	7.11		96		68		24				28.9		0.5		9.0



Bacteriological & Physical Parameters

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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			< 2	0.22	9.9				
2					2/0	2/0				0.21	10.0				
3					2/0	2/0				0.22	12.4				
4					2/0	2/0				0.22	10.8				
5					2/0	2/0				0.22	10.7				
6					2/0	2/0				0.22	10.0				
7					2/0	2/0				0.21	10.8				
8					2/0	2/0			< 2	0.21	10.1				
9					2/0	2/0				0.21	7.8				
10					2/0	2/0				0.20	10.7				
11					2/0	2/0				0.21	8.8				
12					2/0	2/0				0.21	7.9				
13					2/0	2/0				0.21	7.8				
14					2/0	2/0				0.21	7.9				
15					2/0	2/0				0.21	9.3				
16					2/0	2/0			< 2	0.21	10.5				
17					2/0	2/0				0.21	8.8				
18					2/0	2/0				0.21	9.1				
19					2/0	2/0				0.21	10.4				
20					2/0	2/0				0.21	8.7				
21					2/0	2/0				0.21	9.8				
22					2/0	2/0			< 2	0.21	9.9				
23					2/0	2/0				0.20	10.5				
24					2/0	2/0				0.21	10.9				
25					2/0	2/0				0.21	12.9				
26					2/0	2/0				0.21	9.7				
27					2/0	2/0				0.21	9.8				
28					2/0	2/0				0.21	10.1				
29					2/0	2/0				0.21	10.6				
30					2/0	2/0				0.22	13.7				
31					2/0	2/0				0.22	12.1				
										0.21	10.1				
										0.22	13.7				
										0.20	7.8				



Distribution System Monitoring WSSN 2310 Mar-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	0.10	0.90	1.00	0.90	0.80	0.40	1.00	1.00	1.20	2.20	10
2	0.05	1.00	0.90	0.90	0.70	0.60	0.80	0.90	1.10	2.30	10
3	0.00	0.88	0.76	0.69	1.30	0.46	0.79	0.87	1.10	2.14	10
4											0
5											0
6											0
7											0
8	0.79	0.54	0.69	1.15	0.63	0.30	0.60	0.77	1.33	2.80	10
9	0.85	0.71	0.74	0.74	0.65	0.37	0.66	0.80	1.18	2.90	10
10	0.73	0.56	0.66	0.72	0.63	0.26	0.56	0.70	0.76	2.70	10
11											0
12											0
13											0
14											0
15											0
16	0.74	0.65	0.71	0.62	0.57	0.22	0.63	0.78	1.40	2.54	10
17	0.90	0.70	0.80	1.00	0.60	0.20	0.70	0.80	1.10	2.40	10
18											0
19											0
20											0
21											0
22	0.86	0.58	0.71	0.64	0.62	0.15	0.62	0.72	1.52	2.49	10
23	0.63	0.61	0.68	0.62	0.65	0.26	0.64	0.79	1.36	2.36	10
24											0
25											0
26											0
27											0
28											0
29											0
30											0
31											0
Monthly Cl₂ Avg.				0.908							
Total Samples				100							



Distribution System Monitoring WSSN 2310 Mar-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	0.30	1.10	1.20	1.10	0.90	0.60	1.10	1.10	1.40	2.40	10
2	0.09	1.20	1.10	0.90	0.80	1.00	1.10	1.10	1.30	2.50	10
3	0.00	0.97	0.97	0.85	1.50	0.58	0.89	0.99	1.30	2.41	10
4											0
5											0
6											0
7											0
8	0.93	0.77	0.86	1.28	0.77	0.43	0.72	0.99	1.46	2.94	10
9	0.91	0.95	0.91	0.83	0.75	0.54	0.81	0.92	1.30	3.03	10
10	1.04	0.68	0.79	0.81	0.80	0.33	0.74	1.01	0.91	2.91	10
11											0
12											0
13											0
14											0
15											0
16	0.91	0.87	0.91	0.72	0.77	0.31	0.75	0.95	1.62	2.76	10
17	1.10	0.90	1.00	1.20	0.70	0.30	0.90	1.00	1.30	2.60	10
18											0
19											0
20											0
21											0
22	1.01	0.78	0.91	0.81	0.77	0.26	0.84	1.00	1.73	2.74	10
23	0.87	0.83	0.87	0.82	0.79	0.43	0.82	0.95	1.45	2.64	10
24											0
25											0
26											0
27											0
28											0
29											0
30											0
31											0
Monthly Cl₂ Avg.				1.078							
Total Samples				100							



ROUTINE POSITIVE DISTRIBUTION SAMPLES

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Total number of positive routine samples:				Total Coliform: <u>0</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:				100			
Total number of routine distribution samples required:				100			

** THE 7:00AM SAMPLE READ 1.48 mg/L PO4, ANOTHER SAMPLE WAS RAN AT 12:00PM AND HAD A LEVEL OF 3.43 mg/L PO4. AFTER THE 7:30AM SAMPLING RESULTS, I SPOKE WITH OPERATIONS AND FOUND THAT THERE HAD BEEN A SITUATION WITH THE PHOSPHATE PUMP AND IT HAD NOT BEEN PUMPING PROPERLY. THE PROBLEM WAS RECTIFIED AT APPROX. 8:00AM, SO THE LOW PHOSPHATE DOSAGE SHOULD HAVE ONLYBEEN AN ISSUE FOR APPROXIMATELY ONE HOUR .
 LAB SUPERVISOR, CHRIS BEATENHEAD