

Phone: (207) 622-3701  
SCOTT J. MINOR, P.E.  
General Manager

**AUGUSTA WATER DISTRICT**  
170 Hospital Street  
Augusta, Maine 04330  
[www.augustawater.org](http://www.augustawater.org)

Eng. Fax: (207) 621-0360  
BRIAN H. TARBUCK, P.E.  
Assistant General Manager

MICHAEL A. MOREY  
Director of Engineering Services

TRUSTEES

DAVID P. SMITH, President  
BEVERLY BEAUCAGE, Treasurer  
PAUL MCCLAY

February 3, 2005

Jennifer Hitchcock  
SWTR Coordinator  
State of Maine Drinking Water Program  
11 State House Station  
Augusta, ME 04333-0011

Dear Ms. Hitchcock:

Please find attached the monthly reports for compliance with the Safe Drinking Water Act and Maine's Rules Relating to Drinking Water for the month of January, 2005. You should find the following documents:

1. Fluoridation Report;
2. Total Coliform Monitoring Report for Dawn Carpenter;
3. South Well, Brookside Well and Triangle well pumpage report;
4. Triangle Station Monthly Operating Report

We stopped adding Seaquest 77 / 23 poly / orthophosphate on January 6<sup>th</sup>. It appeared to be doing a decent job, but because it shipped only in drums it was difficult to handle and more costly than the Calciquest liquid product. Calciquest 75 / 25 poly / orthophosphate was placed in service on January 6<sup>th</sup>. The target Calciquest 75 / 25 dose is 0.25 mg / L as orthophosphate.

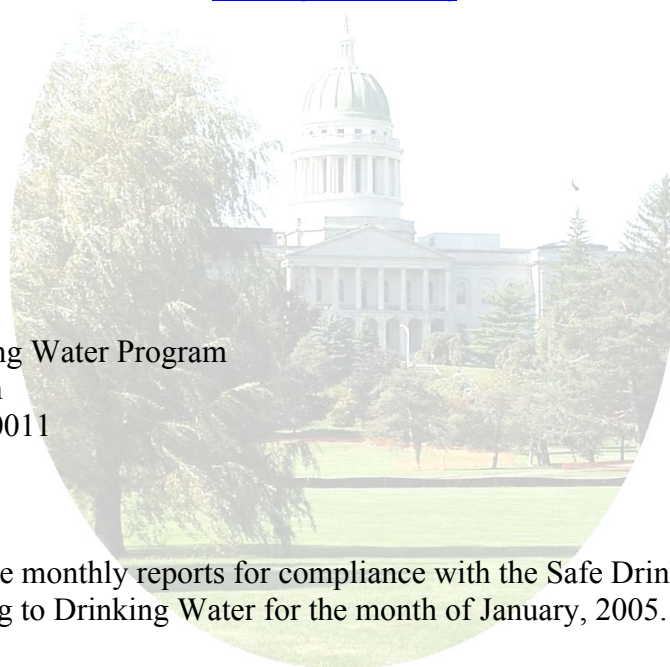
The Hach CA610 fluoride residual analyzer went out of calibration for about 3 days while technicians worked on the analyzer and waited for replacement parts. In the meantime, daily compliance samples were analyzed using a Hach DR850 portable colorimeter and the SPADNS method.

Please contact me at 622-3701 x117 if you have any questions about any of these reports.

Sincerely,

Brian Tarbuck, PE, Class IV System ME #2026  
Assistant General Manager

cc: Scott Minor



<b>Monthly Fluoride Report</b>		<b>System Information</b>	
<b>System Type - Fluoride Systems</b>		Treatment plant/pump station:	G.F. Laurin Treatment Plant
System Name:	<b>Augusta Water District</b>	Fluoride Chemical Used:	Hydrofluorosilic Acid
PWSID#:	<b>90080</b>	Notes: See notes below for specific operating conditions.	
Reporting period:	<b>January - 05</b>		
Signature: _____ Date: <u>2/10/2005</u>		<b>Date</b>	<b>AWD mg/l</b>
		1/18/2005 14:00	0.98
		1/18/2005 13:35	0.89
		1/18/2005 14:20	1.15
		1/18/2005 15:15	0.93
		<b>Location</b>	<b>HETL mg/l</b>
		Plant Finished	1.04
		Western Station	1.00
		Northwest Station	1.28
		Hospital Street Station	1.06

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	1.87	93.70	0.98	0.90
2	1.42	72.00	1.06	0.91
3	1.92	82.40	1.08	0.77
4	1.91	92.00	1.00	0.87
5	1.90	95.60	1.01	0.90
6	1.90	104.30	1.00	0.99
7	1.91	86.40	1.01	0.82
8	1.88	98.30	0.98	0.94
9	1.50	96.80	1.04	1.16
10	1.75	84.50	0.93	0.87
11	2.01	92.00	0.97	0.82
12	2.02	86.10	0.93	0.77
13	1.96	98.10	0.99	0.90
14	1.38	95.95	1.09	1.25
15	1.95	95.95	1.11	0.89
16	2.40	123.50	1.08	0.93
17	1.29	75.10	1.02	1.05
18	2.43	125.70	1.00	0.93
19	1.45	61.10	0.86	0.76
20	1.48	107.00	1.76	1.30
21	1.79	101.80	1.51	1.02
22	1.72	118.60	1.30	1.24
23	1.77	78.60	1.30	0.80
24	1.48	90.40	1.20	1.10
25	1.99	79.20	0.92	0.72
26	1.81	33.30	0.74	0.33
27	1.32	62.20	1.03	0.85
28	2.15	51.50	0.91	0.43
29	1.34	86.10	0.99	1.16
30	2.24	62.90	0.84	0.50
31	1.57	71.40	0.91	0.82
<b>Avg</b>	<b>1.79</b>	<b>87.18</b>	<b>1.05</b>	<b>0.89</b>
<b>Min</b>	<b>1.29</b>	<b>33.30</b>	<b>0.74</b>	<b>0.33</b>
<b>Max</b>	<b>2.43</b>	<b>125.70</b>	<b>1.76</b>	<b>1.30</b>
<b>Total</b>	<b>55.52</b>	<b>2,702.50</b>		

**Systems that don't use the state lab need to report their distribution system certified lab results here.**

Date	Location in the distribution system	Result mg/L

Analyzer had a problem with electrode filling solution; substituted daily grab samples for this period. Grab samples analyzed with Hach DR850 portable colorimeter using Hach Accuvac SPADNS method.

Fluoride tank cleaned on 1/24 and returned to service on 1/24.

**Bacteriological Report Form**  
**Utility:** Augusta Water District, PWSID: 90080  
**Laboratory:** Augusta Water District, Lab # 1015075

Number of samples required	15
Number of samples taken for compliance	29
Number of quality control samples	1
Number of positive samples	0

I hereby certify that this report is true and correct and that the bacterial analyses reported herein were performed in accordance with the Standard Methods for Water Analysis.

June Mooney, Laboratory Director

Seq. #	Samp. #	Location	Sam. Type	Collected by	Collection date & time	Temp (C)	pH	Free Cl <sub>2</sub>	Total Cl <sub>2</sub>	Res'd in lab	Turb (NTU)	Fluoride (mg/l)	Set up by:	Date & time	Coliform Present/Absent	Method	Lauryl Trypblese 24 hr	48 hr	bril. green	EC 44.5c	HPC 48 hrs	Fecal	
50101	1	TREATMENT PLANT	DIS	MOONEY	1-4-05/9:45	9.3	7.6	0.02	0.04	1-4-05/9:45	0.09	1.23	MOONEY	1-4-05/10:45	A	COLLERT						5:12ML	
50102	2	WESTERN STA.	DIS	MOONEY	1-4-05/11:45	8.5	7.5	0.83	0.86	1-4-05/4:00	0.05	0.97	MOONEY	1-4-05/4:45	A	COLLERT							
50103	3	WELLHOUSE	DIS	MOONEY	1-4-05/12:10	11.5	7.6	1.42	1.46	1-4-05/4:00	0.04	0.93	MOONEY	1-4-05/4:45	A	COLLERT							
50104	4	AWD OFFICE	DIS	MOONEY	1-4-05/12:35	11.6	7.5	1.33	1.35	1-4-05/4:00	0.08	1.06	MOONEY	1-4-05/4:45	A	COLLERT							
50106	5	NORTHWEST STA.	DIS	MOONEY	1-4-05/1:50	11.5	7.5	1.32	1.36	1-4-05/4:00	0.05	0.91	MOONEY	1-4-05/4:45	A	COLLERT							
50107	6	WILLOW ST. STA.	DIS	MOONEY	1-4-05/2:15	8.7	7.5	1.01	1.04	1-4-05/4:00	0.05	0.96	MOONEY	1-4-05/4:45	A	COLLERT							
50108	7	HOSPITAL ST. STA.	DIS	MOONEY	1-4-05/2:45	8.6	7.6	0.98	0.99	1-4-05/4:00	0.04	1.03	MOONEY	1-4-05/4:45	A	COLLERT							0.2ML
50109	8	TREATMENT PLANT	DIS	MOONEY	1-11-05/9:15	5.0	7.3	0.11	0.15	1-11-05/9:15	0.18	1.02	MOONEY	1-11-05/10:00	A	COLLERT							
50110	9	WESTERN STA.	DIS	MOONEY	1-11-05/11:05	8.2	7.6	0.86	0.87	1-11-05/3:30	0.10	0.96	MOONEY	1-11-05/4:30	A	COLLERT							
50111	10	GREYBIRCH	DIS	MOONEY	1-11-05/11:25	7.4	7.6	0.91	0.93	1-11-05/3:30	0.05	0.94	MOONEY	1-11-05/4:30	A	COLLERT							
50112	11	WELLHOUSE	DIS	MOONEY	1-11-05/11:50	10.1	7.6	1.30	1.29	1-11-05/3:30	0.04	0.89	MOONEY	1-11-05/4:30	A	COLLERT							
50113	12	NORTHWEST STA.	DIS	MOONEY	1-11-05/12:20	9.9	7.6	1.21	1.22	1-11-05/3:30	0.03	0.90	MOONEY	1-11-05/4:30	A	COLLERT							
50114	13	AWD OFFICE	DIS	MOONEY	1-11-05/1:15	10.1	7.6	1.26	1.28	1-11-05/3:30	0.04	0.93	MOONEY	1-11-05/4:30	A	COLLERT							
50115	14	HOSPITAL ST. STA.	DIS	MOONEY	1-11-05/1:45	7.8	7.6	0.95	0.97	1-11-05/3:30	0.04	0.99	MOONEY	1-11-05/4:30	A	COLLERT							
50116	15	MAINLY GYMNASICS	DIS	MOONEY	1-11-05/2:10	7.5	7.6	0.58	0.61	1-11-05/3:30	0.06	0.99	MOONEY	1-11-05/4:30	A	COLLERT							
50117	16	TREATMENT PLANT	DIS	MOONEY	1-18-05/11:30	5.8	7.5	0.49	0.53	1-18-05/11:30	0.09	0.88	MOONEY	1-18-05/5:00	A	COLLERT							
50118	17	BEST INN	DIS	MOONEY	1-18-05/1:20	7.7	7.5	1.16	1.20	1-18-05/4:00	0.06	0.94	MOONEY	1-18-05/5:00	A	COLLERT							
50119	18	WESTERN STA.	DIS	MOONEY	1-18-05/1:35	8.4	7.5	1.16	1.16	1-18-05/4:00	0.05	0.89	MOONEY	1-18-05/5:00	A	COLLERT							
50120	19	WELLHOUSE	DIS	MOONEY	1-18-05/2:00	10.2	7.6	1.30	1.31	1-18-05/4:00	0.04	0.98	MOONEY	1-18-05/5:00	A	COLLERT							
50121	20	NORTHWEST STA.	DIS	MOONEY	1-18-05/2:20	9.3	7.7	1.18	1.19	1-18-05/4:00	0.04	1.15	MOONEY	1-18-05/5:00	A	COLLERT							
50122	21	AWD OFFICE	DIS	MOONEY	1-18-05/2:50	10.2	7.7	1.20	1.22	1-18-05/4:00	0.05	0.92	MOONEY	1-18-05/5:00	A	COLLERT							
50123	22	HOSPITAL ST. STA.	DIS	MOONEY	1-18-05/3:15	8.4	7.6	0.97	1.00	1-18-05/4:00	0.05	0.93	MOONEY	1-18-05/5:00	A	COLLERT							
50125	23	TREATMENT PLANT	DIS	MOONEY	1-24-05/4:50	5.9	7.8	1.31	1.34	1-24-05/4:50	0.11	1.05	MOONEY	1-24-05/5:00	A	COLLERT							
50127	24	WESTERN STA.	DIS	MOONEY	1-26-05/11:40	7.0	7.5	0.99	0.99	1-26-05/3:15	0.05	1.05	MOONEY	1-26-05/4:00	A	COLLERT							
50128	25	WELLHOUSE	DIS	MOONEY	1-26-05/12:10	9.3	7.6	1.22	1.24	1-26-05/3:15	0.04	0.77	MOONEY	1-26-05/4:00	A	COLLERT							
50130	26	NORTHWEST STA.	DIS	MOONEY	1-26-05/12:50	9.2	7.6	1.16	1.17	1-26-05/3:15	0.03	0.84	MOONEY	1-26-05/4:00	A	COLLERT							
50131	27	AWD OFFICE	DIS	MOONEY	1-26-05/1:20	8.6	7.7	1.01	1.02	1-26-05/3:15	0.04	0.39	MOONEY	1-26-05/4:00	A	COLLERT							
50131	28	HOSPITAL ST. STA.	DIS	MOONEY	1-26-05/1:50	8.3	7.6	0.96	0.99	1-26-05/3:15	0.04	0.21	MOONEY	1-26-05/4:00	A	COLLERT							
50132	29	MULLIGANS	DIS	MOONEY	1-26-05/2:30	6.9	7.5	0.36	0.36	1-26-05/3:15	0.10	0.94	MOONEY	1-26-05/4:00	A	COLLERT							
50105		305 STATE ST.	CUS	MOONEY	1-4-05/4:25	9.0	7.5	0.52	0.56	1-4-05/4:00	0.10	0.92	MOONEY	1-4-05/4:45	A	COLLERT							
50124		71 STONE ST.	CUS	MOONEY	1-24-05/4:00	10.3	7.4	0.83	0.86	1-24-05/4:40	0.06	1.06	MOONEY	1-24-05/5:00	A	COLLERT							
50126	*	LAB DI WATER POUR PLA	SPT	MOONEY	1-26-05/9:15			0.04	0.03	1-26-05/9:15			MOONEY	1-26-05/9:30						COND.=0.45	UMHOS	0.2ML	

**Monthly Operating Report**  
**System Type - All GW systems**  
System Name: **Augusta Water District**  
PWSID#: **90080**  
Designated operator name and ME License #: **Brian Tarbuck**  
**2026**  
e-mail address: **btarbuck@augustawater.org**  
Reporting period (month and year): **January - 05**  
Signature: \_\_\_\_\_ Date: **2/10/2005**

**System Information**  
Treatment plant/pump station: **Triangle Station**  
Select one  
Community System →   
Non-transient Non-community →   
Transient Non-Community →   
List any new or changed system information (facilities, treatments, sources, operators, address, tele, ect.):  
**Began using Calciquest 75 / 25 on January 6, 2005.**  
List any operation problems or comments:

Daily water production				
Date	Mgals pumped	Peak hourly flow	pH	Dis. log inactivator
1	1.87	n/a	7.68	n/a
2	1.42	n/a	7.71	n/a
3	1.92	n/a	7.69	n/a
4	1.91	n/a	7.69	n/a
5	1.90	n/a	7.69	n/a
6	1.90	n/a	7.69	n/a
7	1.91	n/a	7.68	n/a
8	1.88	n/a	7.69	n/a
9	1.50	n/a	7.71	n/a
10	1.75	n/a	7.70	n/a
11	2.01	n/a	7.65	n/a
12	2.02	n/a	7.65	n/a
13	1.96	n/a	7.66	n/a
14	1.38	n/a	7.69	n/a
15	1.95	n/a	7.69	n/a
16	2.40	n/a	7.69	n/a
17	1.29	n/a	7.75	n/a
18	2.43	n/a	7.67	n/a
19	1.45	n/a	7.72	n/a
20	1.48	n/a	7.65	n/a
21	1.79	n/a	7.67	n/a
22	1.72	n/a	7.68	n/a
23	1.77	n/a	7.69	n/a
24	1.48	n/a	7.67	n/a
25	1.99	n/a	7.69	n/a
26	1.81	n/a	7.69	n/a
27	1.32	n/a	7.67	n/a
28	2.15	n/a	7.70	n/a
29	1.34	n/a	7.70	n/a
30	2.24	n/a	7.68	n/a
31	1.57	n/a	7.69	n/a
Summary	<b>55.52</b>		<b>7.69</b>	
	(total)	(avg.)	(avg.)	(min.)

From table below:  
List units: (i.e. lbs, gal)

Chemical usage						Disinfectant Residual
1	2	3	4	5	6	
gal	gal	lbs	gal			mg/L
25	15	0	0			1.31
21	20	0	0			1.27
18	16	100	0			1.32
14	21	0	0			1.32
10	21	50	0			1.32
5	23	0	1			1.32
0	22	100	4			1.32
0	22	0	5			1.29
0	19	0	3			1.22
0	17	100	5			1.16
0	20	0	4			1.26
0	21	0	5			1.28
0	21	100	5			1.29
0	19	100	3			1.14
0	15	0	5			1.20
0	19	0	5			1.23
0	26	0	7			0.99
0	20	100	4			1.18
0	8	0	6			1.00
0	15	0	2			1.14
0	16	0	5			1.18
0	24	0	5			1.20
0	17	0	4			1.22
0	17	0	3			1.21
0	16	150	1			1.25
0	21	100	6			1.25
0	20	150	6			1.22
0	13	150	3			1.26
0	24	0	3			1.23
0	13	0	3			1.27
0	25	100	4			1.25
<b>93.00</b>	<b>584.49</b>	<b>1300.00</b>	<b>106.64</b>			<b>0.99</b>
(total)	(total)	(total)	(total)	(total)	(total)	(min.)

**Chemicals Used**  
(report fluoride info on separate fluoride form)

Number	Chemical Name	Purpose	Chemical Strength
1	Sequest liquid 77 / 23	calcium sequestration / Pb / Cu control	77% polyphosphate
2	Sodium hypochlorite	primary and secondary disinfection	12.50%
3	sodium fluoride	fluoridation	
4	Calciquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate
5			
6			
Disinfectant			

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
Number of routine samples taken	29	Number of repeat samples taken	0
Number of positive samples	0	Average chlorine residual at sites	0.98

Monthly Well Production Report		System Information	
<b>System Type - All GW systems</b>		Treatment plant/pump station: <b>All wells</b>	
System Name:	<b>Augusta Water District</b>	Select one	
PWSID#:	<b>90080</b>	Community System	→ <input checked="" type="checkbox"/>
Designated operator name and ME License #:	<b>Brian Tarbuck 2026</b>	Non-transient Non-community	→ <input type="checkbox"/>
e-mail address:	<a href="mailto:btarbuck@augustawater.org">btarbuck@augustawater.org</a>	Transient Non-Community	→ <input type="checkbox"/>
Reporting period (month and year):	<b>January - 05</b>	List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Signature: _____ Date: <u>2/10/2005</u>		List any operation problems or comments:	
		This sheet reports production from all three wells at Augusta Water District. This is a supplemental report to the MOR.	

Daily water production (MG)				
Date	Triangle Well	South Well	Brookside Well	Sum
1	0.00	1.03	0.84	1.87
2	0.00	1.08	0.34	1.42
3	0.00	1.04	0.88	1.92
4	0.00	1.04	0.87	1.91
5	0.00	1.04	0.86	1.90
6	0.00	1.03	0.86	1.90
7	0.00	1.04	0.87	1.91
8	0.00	1.03	0.85	1.88
9	0.11	1.06	0.33	1.50
10	1.19	0.38	0.18	1.75
11	1.21	0.00	0.80	2.01
12	1.20	0.00	0.82	2.02
13	1.20	0.00	0.76	1.96
14	0.69	0.38	0.32	1.38
15	0.02	1.05	0.88	1.95
16	1.08	0.80	0.52	2.40
17	0.51	0.42	0.36	1.29
18	1.08	0.76	0.59	2.43
19	0.62	0.50	0.33	1.45
20	1.27	0.13	0.08	1.48
21	1.20	0.37	0.23	1.79
22	1.21	0.31	0.20	1.72
23	1.21	0.33	0.23	1.77
24	1.26	0.14	0.09	1.48
25	1.18	0.48	0.33	1.99
26	1.20	0.36	0.25	1.81
27	1.29	0.02	0.01	1.32
28	1.15	0.59	0.42	2.15
29	0.53	0.14	0.67	1.34
30	0.67	0.82	0.75	2.24
31	0.38	0.26	0.93	1.57
Sum	<b>21.48</b>	<b>17.61</b>	<b>16.43</b>	<b>55.52</b>