



MUNICIPALITY OF ANCHORAGE
MAYOR DAVE BRONSON

OFFICE OF THE MUNICIPAL MANAGER

January 21, 2022

Dear Chris and Suzanne,

Thank you for your letter, dated January 13, 2022. I appreciate your questions and look forward to resolving any concerns you have so that the Assembly may refocus its energies on work that actually impacts Anchorage and its citizens. As it relates to water fluoridation, it is important to note that at no time in the last six months has the content of Anchorage's water supply been out of compliance with AMC 26.40.050.A.¹ I am again providing you with relevant water-logs showing the same.

This letter serves as the administration's response to your letter. Answers to your questions are formatted and listed in the order received.

1. *Health and Safety Issues.* The Administration indicated that as early as August 25 it became aware of health (sic) and safety issues in connection with the handling of fluoride by AWWU employees. To what extent are the health and safety issues ongoing?

The Eklutna Water Treatment Facility employees' general sentiment is that they feel safe using all the proper PPE for loading fluoride.² Nonetheless, it is known and frequently discussed amongst operators and Eklutna staff that, even with proper PPE, employees handling fluoride in connection with the water fluoridation program often experience a chalky taste in their mouth and/or eye, skin and nose irritation.³ Employees are especially likely to experience these symptoms during the cleanup and post loading process.⁴

Because water fluoridation continues to be implemented, the issues noted above are very likely to be ongoing.

2. *Protective Measures.* Prior to October 1, 2021, what protective practices and protocols did AWWU have in place in regard to the handling of fluoride by municipal employees?

The Eklutna staff uses the following PPE and safety precautions during fluoride hopper loading:

- Rubber gloves with extended arm cuffs;
- Coveralls and apron; Tyvek suits are available for use also;

¹ "The manager of the utility is... directed to continue supplementing the fluoride content of the water supply, to maintain a level of not more than 1.3 parts per million.." AMC 26.40.050.A.

² See Attachment 2 - Memorandum from Mark Corsentino, P.E., to Amy Demboski, dated December 17, 2021.

³ *Id.*

⁴ *Id.*



- 3M Versaflo PAPR (powered air purifying respirator) with appropriate filtration, helmet, and face shield; and
 - Exhaust fans and proper ventilation are used in the fluoride hopper loading room, and the mix/feed room.⁵
3. *Subsequent Remedial Measures.* What new measures have been implemented since October 1 to address health and safety issues related to handling of fluoride by AWWU employees?

Over the years, Eklutna staff has tried to limit fluoride dust in operational mix/feed areas by regular washdowns, along with sealing joints and floor penetrations in the hopper feed chute.⁶ These efforts are ongoing.

4. *OSHA.* Have there been any discussions with OSHA or AKOSH regarding the handling of fluoride by AWWU employees? If yes, when did those discussions occur, and what did they consist of?

There are no reported or recorded complaints with OSHA relating to fluoride.⁷ I am unaware of any current conversations with OSHA regarding the handling of fluoride by AWWU employees.

Finally, as you know, we are working diligently towards fulfilling the Assembly's records request. Records responsive to the request, subject to any applicable privileges, will be provided to the Assembly as promptly as is reasonable. At this time, I believe the records will be provided no later than February 1, 2022. Should this change, I will notify you as soon as possible.

Please let me know if you have further questions or concerns.

Respectfully,



Amy Demboski
Municipal Manger

Cc: Mayor Dave Bronson
Patrick Bergt
Assembly Counsel

Enclosed: Attachments 1-2

⁵ *Id.*

⁶ *Id.*

⁷ *Id.*

MEMORANDUM

DATE: December 17, 2021
TO: Amy Demboski, Municipal Manager
FROM: Mark A. Corsentino, P.E., General Manager
SUBJECT: Request for AWWU Written Response to Assembly Questions re Fluoride

AWWU's written responses to the Assembly's fluoride inquiries directed to the administration during the Enterprise Committee Meeting are provided below.

If I can provide any further information or clarification, please do not hesitate to ask at your earliest convenience.

1. Please describe the concerns that employees have raised relating to fluoride in the past.

The Eklutna Water Treatment Facility employees' general sentiment is that they feel safe using all the proper PPE for loading fluoride; but, if given a choice, they would rather not handle it. It has been expressed amongst operators that after loading fluoride with the proper PPE you may experience a chalky taste in your mouth or eye and nose irritation on occasion while cleaning up post loading process.

2. Were these complaints in writing, or just verbal?

Verbal communication amongst Eklutna operators about this topic during general conversation is all that Eklutna staff is aware of.

3. Have there been any changes in the way fluoride is being used considering the concerns raised by employees over the years?

Over the years, Eklutna staff has tried to limit fluoride dust in operational mix/feed areas by regular washdowns, along with sealing joints and floor penetrations in the hopper feed chute. In addition, several years ago, there were some batches of fluoride that originated in China that was a more powdery product and caused issues with the feed system equipment. Subsequently, that vendor did not bid on the fluoride contract and a different supplier from Europe provided a more granular product.

4. Has there been any complaints or concerns raised with OSHA relating to fluoride?

Per AWWU OSHA 300 logs, on file in MOA's Risk Management, there have not been any recordable or reportable complaints or concerns raised with OSHA relating to fluoride.

5. What PPE/safety protocols are used by AWWU when handling fluoride?

The Eklutna staff uses the following PPE and safety precautions during fluoride hopper loading:

- Rubber gloves with extended arm cuffs
- Coveralls and apron; Tyvek suits are available for use also
- 3M Versaflo PAPR (powered air purifying respirator) with appropriate filtration, helmet, and face shield.
- Exhaust fans and proper ventilation are used in the fluoride hopper loading room, and the mix/feed room.





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Start Date: 10/01/2021 12:00 AM Go

Entry Min Daily Limit Min Var Info

Max Max Equation

Eklutna Laboratory Daily Entry

Friday, October 1, 2021

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	
																						25 22
Start		Clearwell										Stop										
		TURBIDITY										TEMP °F										
		Raw	Sed	CFE	Raw	CFE	Raw	CFE	Raw	CFE	Raw	CFE	Raw	CFE	Raw	CFE	Raw	CFE	Raw	CFE	Raw	CFE
5	0000	6.07	5.65	0.026	8.13	8.11	8.09	8.03	0.64	1.05												
6	0100																					
7	0200	6.54	5.32	0.028	8.14	8.10	8.06	8.01	0.62	1.05												
8	0300																					
9	0400	5.81	5.26	0.029	8.10	8.07	8.03	7.98	0.61	1.08												
10	0500																					
11	0600	5.54	5.37	0.030	8.12	8.08	8.03	7.99	0.62	1.06												
12	0700																					
13	0800	5.41	4.27	0.026	8.16	8.12	8.07	8.03	0.61	1.07												
14	0900																					
15	1000	7.32	3.91	0.027	8.16	8.14	8.08	8.04	0.62	1.02												
16	1100																					
17	1200	5.85	4.16	0.027	8.11	8.08	8.05	8.04	0.66	1.06												
18	1300																					
19	1400	5.16	4.03	0.028	8.09	8.07	8.03	7.97	0.63	1.04												
20	1500																					
21	1600	5.30	3.61	0.025	8.05	8.04	8.01	8.04	0.58	1.06												
22	1700																					
23	1800	5.21	3.64	0.025	8.08	8.06	8.04	8.00	0.60	1.06												
24	1900																					
25	2000	5.00	3.64	0.024	8.10	8.11	8.07	8.08	0.58	1.09												
26	2100																					
27	2200	5.11	3.81	0.024	8.10	8.08	8.04	8.00	0.60	1.11												
28	2300																					
29	AVG	5.7	4.4	0.027	8.1	8.1	8.0	8.0	0.6	1.1	0.064	N/A										
30																						
31																						

FILE OFF

FILE ON



Eklutna Laboratory Daily Entry

Tuesday, November 2, 2021

Start	24 90		24 78												Stop			
	Clearwell		Clearwell															
	TURBIDITY																	
Raw	Sed	CFE	Raw	Coag	CFE	Fin	FL2	CL2	ALUM	AKLALINITY	HARDNESS	COLOR	TEMP °F	FLOW	BW	CCA		
1.89	2.26	0.029	8.12	8.07	8.06	7.98	0.65	1.02		Raw	Fin	Raw	Fin	Raw	Fin	Raw	Coag	
0100														45.8	51.2	19.9	0.01	
0200	1.94	2.27	0.028	8.12	8.08	8.08	8.01	0.64	0.02					45.8	51.1	20.9		
0300														45.9	51.1	20.9	-0.01	
0400	2.04	2.62	0.032	8.10	8.07	8.05	8.02	0.64	1.05					45.9	51.1	20.9		
0500														45.9	51.1	20.9	-0.01	
0600	2.08	2.53	0.030	8.13	8.08	8.04	8.01	0.61	1.04					45.9	51.1	20.9	0.01	
0700														45.9	51.1	20.9	1	
0800	2.29	2.02	0.029	8.20	8.12	8.08	8.01	0.63	1.04	0.062				45.9	51.1	20.9		
0900														45.9	51.1	20.7	0.02	
1000	1.99	2.45	0.029	8.14	8.12	8.08	8.02	0.64	1.07					45.8	51.1	19.6	-0.02	
1100														45.9	51.1	7.9		
1200	2.02	2.54	0.029	8.13	8.11	8.06	8.04	0.67	1.05					45.9	51.1	18.5	-0.08	
1300														45.9	51.1	20.1		
1400	1.94	1.81	0.028	8.12	8.10	8.08	8.01	0.68	1.04					45.8	51.2	20.1	-0.05	
1500														45.8	51.2	20.1		
1600	2.01	2.19	0.029	8.16	8.15	8.05	7.97	0.61	1.03					45.9	51.1	20.1	-0.03	
1700														45.9	51.2	20.1		
1800	2.01	1.89	0.028	8.10	8.07	8.03	7.94	0.50	1.03					45.9	51.2	20.1	-0.02	
1900														45.9	51.2	20.1		
2000	1.87	2.42	0.032	8.15	8.09	8.04	7.97	0.44	1.04					45.9	51.2	20.1	-0.04	
2100														45.9	51.2	20.1		
2200	1.94	2.31	0.029	8.12	8.08	8.05	7.95	0.40	1.07					45.9	51.1	20.1	-0.03	
2300														45.8	51.1	20.1		
AVG	2.0	2.3	0.029	8.1	8.1	8	8.0	0.6	1.0	N/A				45.9	51.1	19.8	2	
																		-0.02



Eklutna Laboratory Daily Entry

Wednesday, November 3, 2021

Start	24 78		24 39												Stop														
	Clearwell		Clearwell																										
	TURBIDITY																												
Raw	Sed	CFE	Raw	Coag	CFE	Fin	FL2	Fin	CL2	Fin	ALUM	Raw	Fin	AKALINITY	Raw	Fin	HARDNESS	Raw	Fin	COLOR	Raw	Fin	TEMP F	Raw	Fin	MGD	Filter #	BW	CCA
0000	1.98	2.92	0.028	8.11	8.06	8.03	7.98	0.48	1.05														45.9	51.1	20.2				-0.03
0100																							45.9	51.1	20.1	3			
0200	1.76	2.65	0.029	8.14	8.07	8.04	7.96	0.41	1.06	1.06	0.066	80	82	0	0	0	0	0	0	0	0	0	45.9	51.1	20.2				-0.02
0300																							45.9	51.1	20.2				
0400	1.69	2.44	0.028	8.15	8.08	8.02	7.93	0.30	1.03														45.9	51.1	20.2				-0.02
0600																							45.9	51.0	20.2				
0600	1.72	2.25	0.030	8.12	8.09	8.01	7.96	0.40	1.04														45.9	51.1	22.8				0.01
0700																							45.9	51.0	24.0				
0800	2.35	1.95	0.026	8.13	8.14	8.09	8.07	0.35	1.03														45.9	51.0	24.0				-0.01
0900																							45.9	51.0	24.0				
1000	2.67	2.00	0.028	8.11	8.14	8.09	8.04	0.34	1.02														45.9	51.0	24.0	4			
1100																							45.9	51.0	24.0				0.00
1200	2.74	2.45	0.028	8.12	8.12	8.08	8.05	0.29	1.03														45.9	50.9	24.0				
1300																							45.9	50.9	20.1				0.00
1400	2.47	2.54	0.027	8.14	8.15	8.07	8.09	0.22	1.03														45.9	50.8	18.7				
1500																							45.9	50.8	18.8				-0.02
1600	2.05	3.26	0.027	8.16	8.08	8.07	8.05	0.20	1.02														45.9	50.9	18.8				
1700																							45.9	50.8	18.8	5			0.00
1800	1.88	3.19	0.029	8.12	8.09	8.06	8.03	0.19	1.03														45.8	50.8	18.7				
1900																							45.8	50.9	18.2				-0.01
2000	1.73	2.67	0.028	8.13	8.07	8.05	8.01	0.17	1.08														45.8	50.8	19.4				
2100																							45.8	51.0	20.2	6			-0.01
2200	1.91	2.43	0.027	8.12	8.08	8.04	7.99	0.19	1.05														45.8	51.0	20.1				
2300																							45.8	51.0	20.1				-0.01
AVG	2.1	2.6	0.028	8.1	8.1	8.1	8.0	0.3	1.0	N/A	48.0	80.0	82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.9	51.0	20.7	4			-0.01



Eklutna Laboratory Daily Entry

Friday, November 5, 2021

Start	26 16		25 29												Stop						
	Clearwell		Clearwell																		
	TURBIDITY		pH				ALUM		AKALINITY		HARDNESS		COLOR			TEMP °F		FLOW	BW	CCA	
Raw	Sed	CFE	Raw	Coag	CFE	Fin	Fin	Raw	Fin	Raw	Fin	Raw	Fin	Raw	Fin	Raw	Fin	MGD	Filter #	Coag	
0000	2.43	2.36	0.038	8.14	8.12	8.11	8.12	0.07	1.01	0.052						45.6	50.8	25.2			-0.05
0100																45.6	50.7	25.2			
0200	2.56	2.45	0.036	8.15	8.16	8.10	8.12	0.07	1.07							45.6	50.7	23.6			-0.06
0300																45.6	50.7	22.0			
0400	2.42	2.42	0.037	8.12	8.11	8.08	8.11	0.08	1.06							45.6	50.7	21.6			-0.04
0500																45.5	50.7	21.6			
0600	2.05	2.03	0.032	8.12	8.14	8.11	8.13	0.13	1.05							45.5	50.7	21.6			-0.05
0700																45.5	50.7	21.5			
0800	2.01	2.00	0.030	8.14	8.12	8.07	8.12	0.16	0.99							45.5	50.6	20.5	2		-0.05
0900																45.5	50.6	18.5			
1000	1.98	2.12	0.025	8.13	8.12	8.06	8.10	0.08	1.00							45.5	50.7	18.5			-0.05
1100																45.5	50.5	18.1			
1200	1.65	2.16	0.024	8.14	8.07	8.07	8.06	0.18	1.03							45.5	50.6	18.1			-0.05
1300																45.5	50.6	18.1			
1400	1.65	1.62	0.027	8.12	8.12	8.06	8.04	0.16	1.01							45.5	50.6	18.1			-0.06
1500																45.5	50.6	18.1			
1600	1.60	1.73	0.032	8.10	8.10	8.06	8.12	0.05	1.00							45.5	50.6	18.1	3		-0.05
1700																45.5	50.7	18.1			
1800	1.66	1.48	0.036	8.13	8.12	8.07	8.11	0.04	0.99							45.5	50.6	18.1			-0.07
1900																45.5	50.6	18.1			
2000	1.75	1.46	0.035	8.12	8.14	8.06	8.11	0.03	1.02							45.5	50.6	18.8			-0.06
2100																45.5	50.6	19.7			
2200	1.89	1.54	0.033	8.11	8.13	8.06	8.11	0.07	0.97							45.5	50.7	20.2			-0.06
2300																45.5	50.7	20.2			-0.07
AVG	2.0	1.9	0.032	8.1	8.1	8	8.1	0.1	1.0	N/A						45.5	50.7	20.2	2		-0.06



Eklutna Laboratory Daily Entry

Saturday, November 6, 2021

Start 25 29
Clearwell

26 28
Clearwell

Stop

	TURBIDITY				PH				ALUM	AKALINITY		HARDNESS		COLOR		TEMP °F		FLOW MGD	BW Filter #	CCA Coag				
	Raw	Sed	CFE	CFE	Raw	Coag	CFE	CFE		Fin	Fin	Raw	Fin	Raw	Fin	Raw	Fin				Raw	Fin		
0000	2.06	1.68	0.035	8.13	8.14	8.09	8.13	8.13	0.05	1.02							45.5	50.6	20.2		-0.06			
0100																	45.5	50.6	20.2	4				
0200	1.91	1.69	0.036	8.15	8.13	8.08	8.13	8.13	0.10	1.04							45.5	50.6	20.2			-0.06		
0300																	45.5	50.6	20.2					
0400	2.08	1.70	0.038	8.12	8.14	8.09	8.12	8.12	0.08	1.00							45.5	50.6	20.2					
0500																	45.5	50.6	20.2				-0.06	
0600	1.95	1.62	0.037	8.14	8.15	8.08	8.13	8.13	0.13	1.01							45.5	50.6	20.2				-0.05	
0700																	45.5	50.6	20.2					
0800	1.69	1.74	0.030	8.11	8.12	8.07	8.12	8.12	0.18	0.95	0.062						45.5	50.6	20.2	5			-0.04	
0900																	45.5	50.6	20.1	5				
1000	1.66	1.71	0.034	8.16	8.19	8.13	8.16	8.16	0.15	0.95							45.5	50.6	20.1					
1100																	45.5	50.7	20.2					-0.03
1200	1.65	1.55	0.032	8.19	8.18	8.15	8.18	8.18	0.11	0.96							45.5	50.6	24.2	6				-0.03
1300																	45.5	50.7	24.2					
1400	1.97	1.68	0.034	8.22	8.18	8.14	8.17	8.17	0.16	0.97							45.5	50.6	24.3					-0.03
1500																	45.5	50.6	24.3					
1600	2.29	1.81	0.028	8.20	8.19	8.15	8.18	8.18	0.09	0.99							45.5	50.6	24.2					-0.04
1700																	45.5	50.5	24.2					
1800	2.36	1.92	0.035	8.21	8.17	8.13	8.16	8.16	0.06	0.97							45.5	50.5	22.7	7				-0.04
1900																	45.5	50.5	22.7					
2000	2.03	1.93	0.037	8.20	8.18	8.15	8.16	8.16	0.06	1.01							45.5	50.4	20.7					-0.04
2100																	45.5	50.4	20.7					
2200	2.62	2.36	0.037	8.17	8.16	8.14	8.15	8.15	0.06	1.04							45.4	50.5	20.7					-0.04
2300																	45.4	50.5	20.7					
AVG	2.0	1.8	0.034	8.2	8.12	8	8.1	8.1	0.1	1.0	N/A						45.5	50.6	21.4	4				-0.04

Eklutna Laboratory Daily Entry

Sunday, November 7, 2021

Start	26 28		26 07																Stop				
	Clearwell		Clearwell																				
	TURBIDITY		PH				FL2		ALUM		AKALINITY		HARDNESS		COLOR		TEMP °F			FLOW	BW	CCA	
Raw	Sed	CFE	Raw	Coag	CFE	Fin	Fin	Fin	Fin	Raw	Fin	Raw	Fin	Raw	Fin	Raw	Fin	Raw	Fin	MGD	Filter #	Coag	
0000	2.37	2.81	0.039	8.18	8.14	8.10	8.12	1.03	0.063	54	52	82	84	0	0	45.4	50.5	20.7					-0.04
0100																45.4	50.4	20.7					
0200	1.81	2.03	0.033	8.17	8.16	8.11	8.15	0.99								45.4	50.5	20.7					-0.04
0300																45.4	50.5	20.7					
0400	1.91	1.80	0.039	8.15	8.17	8.10	8.13	1.00								45.4	50.5	20.7	8				
0500																45.4	50.5	20.7					-0.03
0600	1.94	1.77	0.036	8.17	8.18	8.13	8.15	0.99								45.3	50.5	20.7					
0700																45.3	50.5	20.7					-0.03
0800	1.70	1.66	0.035	8.17	8.13	8.07	8.12	0.99								45.3	50.4	20.7					
0900																45.3	50.5	20.7					-0.03
1000	1.81	1.72	0.038	8.17	8.16	8.09	8.13	1.00								45.3	50.4	20.7	1				
1100																45.3	50.5	20.7					-0.03
1200	1.79	1.61	0.037	8.17	8.17	8.11	8.14	0.96								45.3	50.4	20.6					
1300																45.3	50.4	20.7					-0.04
1400	1.85	1.60	0.035	8.15	8.12	8.07	8.11	1.04								45.3	50.4	20.7					
1500																45.3	50.4	20.7					-0.04
1600	1.65	1.70	0.037	8.14	8.10	8.07	8.11	0.97								45.3	50.3	20.7					
1700																45.3	50.4	20.6					-0.05
1800	1.62	1.57	0.033	8.18	8.19	8.12	8.13	0.97								45.3	50.4	19.4					-0.04
1900																45.3	50.3	19.4					
2000	1.86	1.64	0.039	8.17	8.18	8.10	8.12	0.98								45.3	50.2	19.4					-0.04
2100																45.3	50.3	18.9					
2200	1.74	1.61	0.036	8.18	8.19	8.11	8.13	0.98								45.3	50.3	18.7					
2300																45.2	50.3	18.7	2				-0.05
AVG	1.8	1.8	0.036	8.2	8.2	8	8.1	0.1	1.0	N/A	52.0	82.0	84.0	0.0	0.0	45.3	50.4	20.2	3				-0.04



Eklutna Laboratory Daily Entry

Monday, November 8, 2021

Start	26 07										26 06										Stop
	Clearwell					Clearwell					Clearwell					Clearwell					
	TURBIDITY		pH		ALUM		AKALINITY		HARDNESS		COLOR		TEMP °F		FLOW		BW		CCA		
Raw	Sed	CFE	Raw	Coag	Raw	Fin	Raw	Fin	Raw	Fin	Raw	Fin	Raw	Fin	Raw	Fin	MGD	Filter #	Coag	CCA	
0000	1.75	1.64	0.033	8.15	8.14	8.08	8.09	0.07	0.99						45.2	50.3	18.7			-0.05	
0100															45.2	50.3	18.7				
0200	1.80	1.59	0.036	8.14	8.13	8.09	8.12	0.05	1.00						45.2	50.3	18.7			-0.06	
0300															45.2	50.3	18.7				
0400	1.64	1.55	0.034	8.15	8.14	8.08	8.07	0.11	1.01						45.2	50.3	18.7	3		-0.07	
0500															45.2	50.4	20.2				
0600	1.86	1.68	0.038	8.08	8.09	8.04	8.09	0.12	1.00						45.1	50.3	20.3			-0.06	
0700															45.1	50.3	20.3				
0800	1.77	1.53	0.035	8.16	8.17	8.11	8.16	0.19	1.00						45.1	50.3	20.5			-0.07	
0900															45.1	50.3	22.1				
1000	1.78	1.66	0.028	8.18	8.17	8.11	8.17	0.17	0.98						45.1	50.3	22.1			-0.07	
1100															45.1	50.3	22.1				
1200	1.85	1.75	0.031	8.20	8.18	8.14	8.17	0.22	0.97						45.1	47.7	22.1				
1300															45.0	50.0	22.1	4		-0.06	
1400	1.83	1.77	0.030	8.20	8.18	8.13	8.16	0.31	0.98						45.0	50.2	22.2				
1500															45.0	50.2	20.1			-0.06	
1600	1.75	1.74	0.034	8.20	8.21	8.14	8.18	0.34	1.11						45.0	50.2	19.8			-0.08	
1700															44.9	50.1	19.1				
1800	1.79	1.81	0.032	8.23	8.19	8.13	8.16	0.33	0.97						44.9	50.2	18.5			-0.07	
1900															44.9	50.1	18.5				
2000	1.85	1.55	0.033	8.21	8.18	8.14	8.15	0.32	1.01						44.9	50.1	18.6	5		-0.06	
2100															44.9	50.2	19.7				
2200	1.74	1.99	0.036	8.21	8.18	8.13	8.15	0.41	1.00						44.9	50.2	20.1			-0.07	
2300															44.8	50.2	20.1				
AVG	1.8	1.7	0.033	8.2	8.2	8	8.1	0.2	1.0	N/A					45.0	50.1	20.1	3		-0.07	

BACK ON LINE



Eklutna Laboratory Daily Entry

Tuesday, November 9, 2021

27.47

Clearwell

Stop

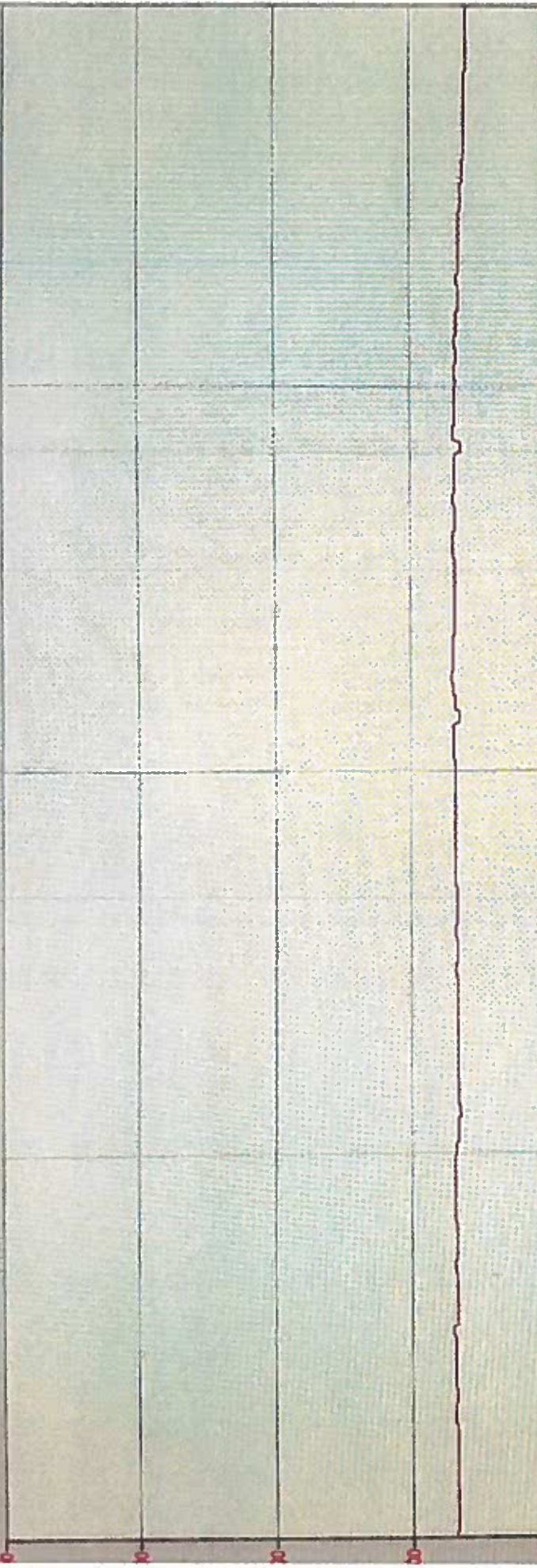
26.06

Clearwell

Start

	TURBIDITY				PH				ALUM		AKLALINITY		HARDNESS		COLOR		TEMP °F		FLOW	BW	CCA
	Raw	Sed	CFE		Raw	Coag	CFE	Fin	Fin	Fin	Raw	Fin	Raw	Fin	Raw	Fin	Raw	Fin	MGD	Filter #	Coag
0000	1.61	1.70	0.031	8.21	8.19	8.10	8.08	0.34	1.02	0.055							44.8	50.1	20.1		-0.07
0100																	44.8	50.1	20.2	6	
0200	1.74	1.71	0.036	8.18	8.17	8.07	8.10	0.43	1.01								44.8	50.1	20.2		-0.07
0300																	44.8	50.1	20.2		
0400	1.76	1.87	0.037	8.13	8.12	8.08	8.07	0.43	1.04								44.8	50.0	20.2		-0.07
0500																	44.8	50.0	20.2		
0600	1.98	1.69	0.039	8.12	8.12	8.09	8.06	0.53	1.09								44.7	50.0	20.1		-0.07
0700																	44.7	50.0	20.1		
0800	1.64	1.69	0.035	8.10	8.11	8.07	8.08	0.55	0.96								44.7	50.0	20.1	7	-0.06
0900																	44.7	49.9	20.1		
1000	1.64	1.70	0.037	8.20	8.18	8.08	8.15	0.61	0.98								44.7	49.9	20.1		-0.06
1100																	44.7	49.9	14.7		
1200	1.58	1.61	0.033	8.20	8.17	8.13	8.11	0.57	0.99								44.7	49.9	18.8		-0.06
1300																	44.7	49.9	20.0		
1400	1.66	1.66	0.037	8.22	8.18	8.11	8.10	0.60	1.03								44.7	49.9	20.1		-0.07
1500																	44.7	49.9	20.1		
1600	1.60	1.57	0.035	8.21	8.17	8.13	8.11	0.58	1.01								44.8	49.8	20.0		-0.05
1700																	44.9	49.8	20.0	8	
1800	1.91	1.61	0.032	8.20	8.18	8.15	8.11	0.61	1.01								44.9	49.8	20.0		-0.04
1900																	44.9	49.9	19.4		
2000	1.71	1.51	0.036	8.18	8.17	8.14	8.10	0.61	1.04								44.9	49.8	19.3		-0.05
2100																	44.9	49.8	19.3		
2200	1.76	1.50	0.036	8.17	8.15	8.10	8.06	0.64	1.00								44.9	49.9	19.3		-0.05
2300																	44.9	49.9	19.3		
AVG	1.7	1.7	0.035	8.2	8.2	8	8.1	0.5	1.0	N/A							44.8	49.9	19.7	3	-0.06





2:40:21 PM 10/1/2021
 4:40:21 PM 10/1/2021
 6:40:21 PM 10/1/2021
 8:40:21 PM 10/1/2021

Fluoride Water Flow
 Fluoride Water Temp
 Fluoride Residual (CAQ10 in Lab)
 Fluoride Auger Rotation

etHIST adPa_10/2021
 etHIST adPa_10/2021
 etHIST EHEFF_Alt5120
 etHIST adPa_Augur_04

Electra Trends

Right mouse click to chart. Hold alt key value.
 L.C. click to zoom. Double click to zoom in.

oxide System

Auto Refresh On

Start Date

Print

Toggle Scroll Grid

Change Colors

Multiple Values

Zoom

Reset Zoom

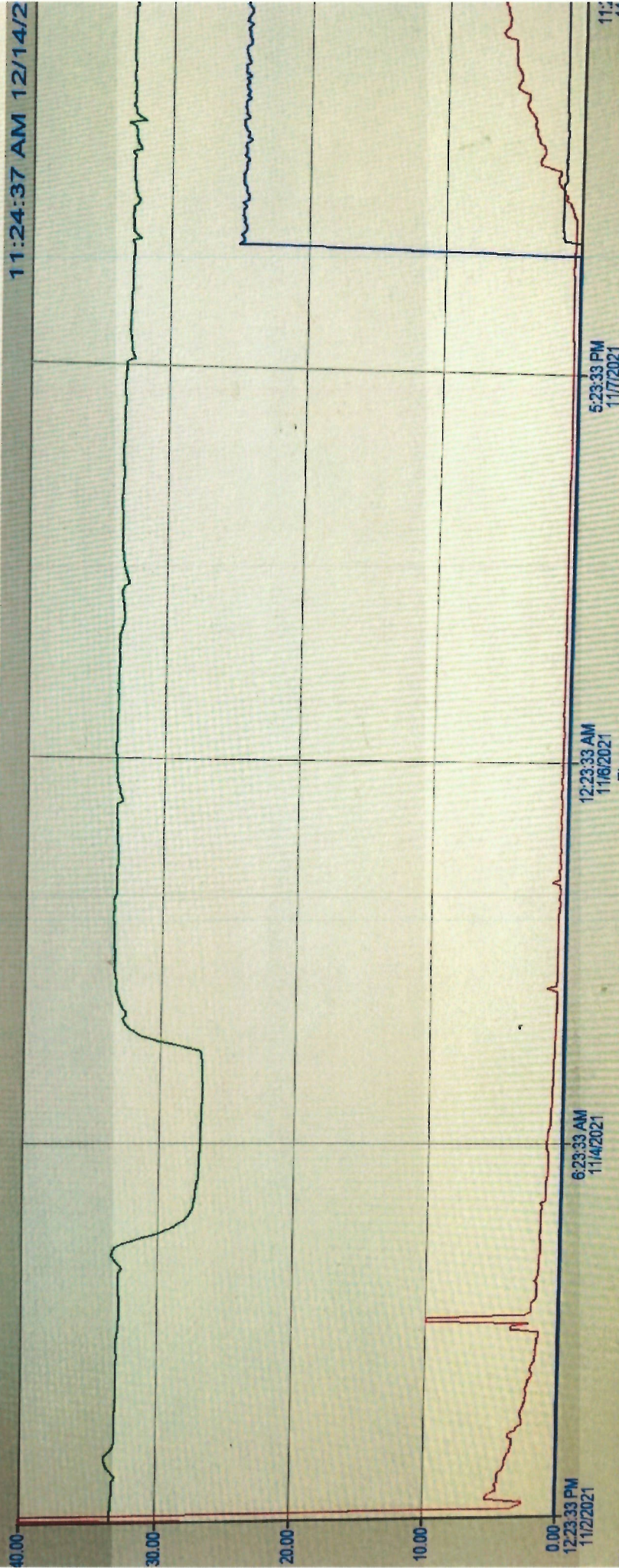
5

Reset Chart

Select



11:24:37 AM 12/14/21



L01 Fluoride Water Flow
 L02 Fluoride Water Temp
 L03 Fluoride Residual (CA610 in Lab)
 L00 Fluoride Augar Rotation

6:23:33 AM 11/4/2021

ekHIST.ekFis_Fit6200
 ekHIST.ekFis_Tit6200
 ekHIST.EKEFF_Aln6120
 ekHIST.ekFI_Augar_cv

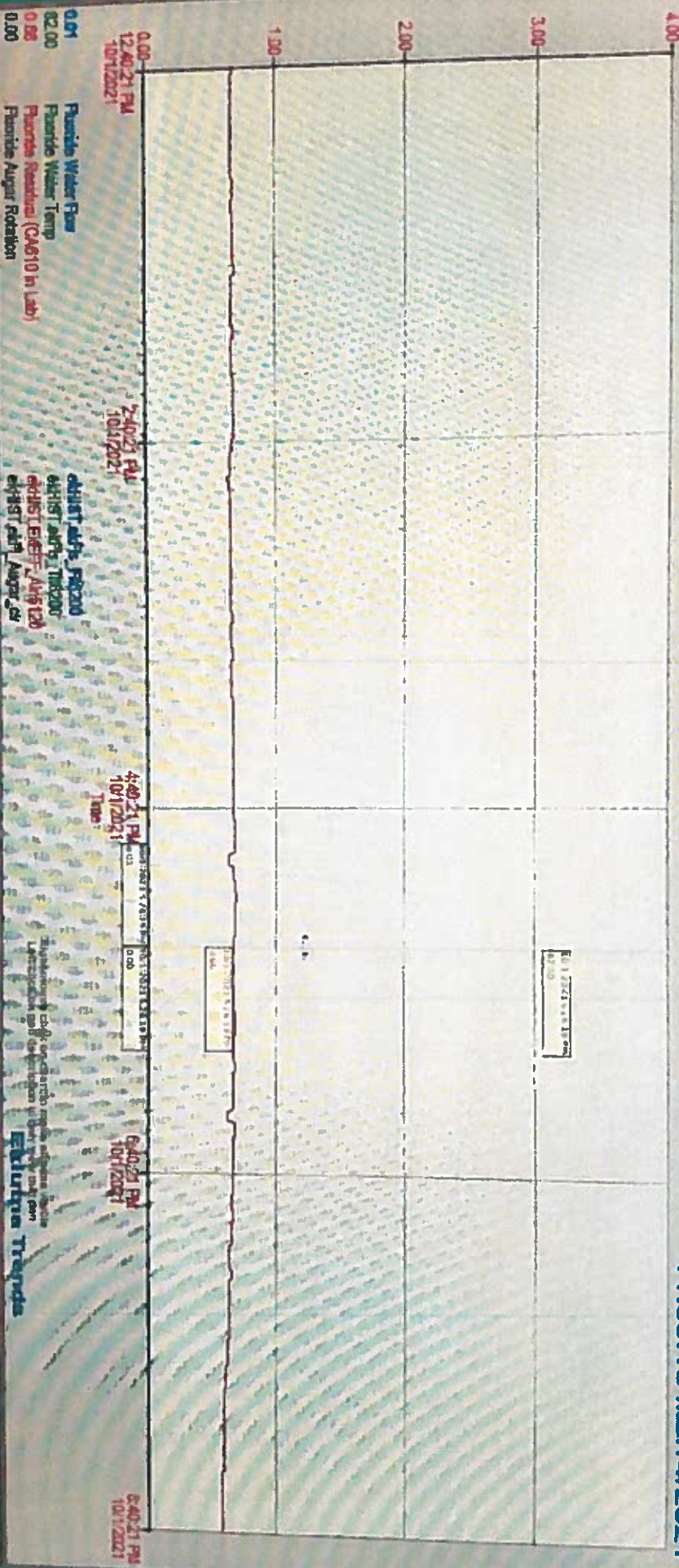
12:23:33 AM 11/6/2021

5:23:33 PM 11/7/2021

Right mouse click on chart to make all pens visible
 Left click on pen description to only view that pen

Ekjutna Trends

11:24:37 AM 12/14/21



0.01 Fluoride Water Flow
02.00 Fluoride Water Temp
0.00 Fluoride Residual (CA610 in Lab)
0.00 Fluoride Augur Rotation

adjust augr, pfc200
adjust augr, temp200
adjust enegf, Aug120
adjust enegf, Augr20

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Eklunne Treanda

Fluoride System

8 hours

Reset Chart

Select

SmartView
Print

Toggle Scroll Cmd
Change Colors
Multiple Values

Zoom
Reset Zoom