WHITEHEAD ELTON
REGIONAL WATER CO-OP

2023
ANNUAL REPORT

Board of Directors

President:
Ches Bollman

Vice President:
Trevor Tuttosi

Secretary Treasurer:
Shawna Paulsen

Directors:
James Maxon
Cam Hales
Jeff Owens

Name of Public Water System:

Whitehead Elton Regional Water Co-operative Inc.

Name of Legal Owner:

Whitehead Elton Regional Water Co-operative Inc.

Contact Person: **Ralph Berg** Manager

(204) 729 6116 Cell

(204) 571 0910 Forrest Reservoir

(204) 752 2378 Water Treatment Plant

Contact Numbers:

Whitehead Elton Regional Water Co-operative Inc.

(204) 729 6116 Cell

(204) 752 2261 R.M. Of Whitehead

(204) 728 7834 R.M. Of Elton

Emergency Numbers:

Whitehead Elton Regional Water Co-operative Inc.

(204) 729 6116 Cell

(204) 730-2867 24 Hour Emergency Line

(204) 752 2261 R.M. Of Whitehead

(204) 728 7834 R.M. Of Elton

Names of Operators:

Ralph Berg

Bo Yeomans

Howard Buffi

Melanie Bollman

1) Introduction:

The 2023 Whitehead Elton Regional Water Cooperative Inc. Annual Report summarizes the water utility's ability to provide safe economical potable water and comply with provincial standards.

2) Description of the Water System:

The Whitehead Elton Regional Water Cooperative Inc. provides potable water to a population of approximately 2400 residents. Corrective Actions were taken and reported as required throughout the course of operations. Full results have been attached in Section 3.

The Whitehead Elton Regional Water Cooperative Inc. water system consists of a network of pressure pipelines, a water treatment plant, a booster station, a pressure reducing station and a water storage reservoir. The Whitehead Elton Regional Water Cooperative Inc. owns the Alexander Water Treatment Plant, Dungannan Pressure Reducing Station, Co-op Booster Station and the Forrest Reservoir.

The R.M. of Elton owns three pressure reducing stations and one booster station located east of #10 Highway and north of #1 Highway.

The R.M. of Whitehead owns the pressure reducing station located south of the #1 Highway down Road 115W.

2.I)Water Supply Source

The Whitehead Elton Regional Water Cooperative Inc. receives its water supply from two wells located in the R.M. Of Whitehead. The wells are situated to draw raw water from a sand and gravel aquifer.

The system provides treated water to the R.M. Of Elton, the villages of Forrest and Douglas, the R.M. Of Whitehead, the villages of Alexander and Kemnay and a few residents of the R.M. Of Riverdale and the R.M. Of Cornwallis.

2.II) Water Treatment Process:

The water treatment process is designed to remove hardness, iron, manganese, total dissolved solids, turbidity and arsenic from the raw water supply to meet the water quality standards outlined in the *Guidelines for Canadian Drinking Water Quality (GCDWQ)*. The plant currently provides virus inactivation through chlorine treated water obtaining adequate contact time within the treated water reservoirs.

Re-Chlorination is available at the Forrest Reservoir, but it is not in use. The average daily flow through the Alexander Water Treatment Plant of raw water is 802 cubic meters per day, with the plant rated at a maximum daily flow of raw water of 1,814.4 cubic meters per day and a yearly raw water total of 387,000 cubic meters.

Raw water is diverted from a sand and gravel aquifer by two wells located approximately 2.5 km NE of the Alexander Water Treatment Plant. The well pumps deliver water to the WTP through a 150 mm HDPE raw water pipeline. Water passes through the reverse osmosis (R.O.) system to remove hardness, iron, manganese, total dissolved solids and turbidity. Following the R.O. unit, permeate water is passed through a membrane contactor to remove carbon dioxide in the permeate water, therefore increasing the pH. Bypass water (raw water) passes through a 1.4 m diameter manganese greensand filter to remove iron and manganese allowing for hardness and pH adjustment in the treated water. A portion of the permeate water is also passed through the greensand filter for arsenic removal. Treated water from the R.O. unit is pH buffered by with Sodium Hydroxide injection. The combined R.O. unit and greensand treatment streams are chlorinated prior to entering the 950 cubic meter, 7 cell reservoir. The distribution pumps send water through a 200 mm pipeline to the distribution system.

Iron and Manganese are metals that cause laundry and plumbing fixture staining problems and can accumulate in the distribution pipes and cause reduced flow. Calcium Carbonate causes hardness in the water which diminishes the ability of the water to react with soap and lather. Hardness also forms scale deposits in kettles, hot water tanks and plumbing fixtures which can reduce their life expectancy.

2.III) Classification and Certification

- The Alexander Water Treatment Plant is a Class 2 water treatment facility.
- The Whitehead Elton Regional Water Co-operative Inc. water distribution system is Class 1.
- The R.M. Of Whitehead's distribution system is Class 1.
- The R.M. Of Elton's distribution system is Class 1

The Facility classifications are used to determine certification requirements for the water system operators. The requirements fall under the Water and Wastewater Facility Operators Regulation under the Environment Act.

3) List of Water Quality Standards

3.I) Water Quality Standards and Monitoring Requirements

The Province of Manitoba has adopted several water quality standards from the Health Canada *Guidelines for Canadian Drinking Water Quality*. The health-based parameters express the *maximum acceptable concentrations, or MAC*, for drinking water. Concentration values in excess of the guidelines constitute a health-related issue and require corrective actions. All health-based parameters were within the limits in 2023 for Whitehead Elton Regional Water Co-operative Inc. and both R.M.`s.

All public water systems (PWS) are required to monitor chlorine residual levels daily. Monitoring is done daily at both the Alexander Water Treatment Plant and the Forrest Reservoir. Results are recorded and at the end of each month, results are forwarded to our Provincial Drinking Water Officer. Copies of the originals must be kept on file and on hand for **TWO YEARS** at each facility.

Bacterial Testing for Total Coliforms and E.coli are done every two weeks, with sample sets being separated by at least 12 days. Chlorine residuals are tested in the distribution system at the same time and location as bacterial samples. All results are kept in the files at the Water Treatment Plant for a period of 2 years.

3.II) 2023 General Chemical Analysis

As part of the operating licence for Whitehead Elton Regional Water Co-operative Inc., a general chemical analysis of the raw water, treated water and midpoint of the distribution system must be done every **Three years**. Water samples were sent to the lab on October 18th, and we will be required to be sample again in 2026.

It is an extensive test including a physical test, Anions and Nutrients, Organic/Inorganic Carbon, Total Metals and Volatile Organic Compounds tests.

The tests are conducted at ALS Labs in Winnipeg. The results are on the following page. The highlighted areas on the results indicate that the raw water exceeds Aesthetic Objectives or Maximum Acceptable Concentrations cited in the *Guidelines for Canadian Drinking Water Standards*. None of the treated water produced exceeds MAC limits or Aesthetic Objectives.

If there are questions that you may have regarding the lab results, please use one of the contact numbers listed and we can assist in any questions or concerns.

3.III) Arsenic Test

As part of our license with ODW, the Whitehead Elton Regional Water Co-operative Inc. is required to conduct arsenic testing .The results of the Arsenic test are in the General Chemical Analysis.

CERTIFICATE OF ANALYSIS

Work Order	: **WP2326968**	Page	: 1 of 6
Client	: **Manitoba Conservation & Climate**	Laboratory	: ALS Environmental - Winnipeg
Contact	: RETIRED Melanie Betsill	Account Manager	: Sheriza Rajack-Ahamed
Address	: 14 Fultz Boulevard Winnipeg MB Canada R3Y 0L6	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4
Telephone	: 204 945 5776	Telephone	: +1 204 255 9720
Project	: whitehead elton regional - PWS- 248.70	Date Samples Received	: 19-Oct-2023 10:30
PO	: ----	Date Analysis Commenced	: 19-Oct-2023
C-O-C number	: ----	Issue Date	: 30-Oct-2023 15:34
Sampler	: ----		
Site	: whitehead elton regional - PWS- 248.70 OP ID: 46658		
Quote number	: WTP Chemistry - 248.70 - Whitehead Elton Regional		
No. of samples received	: 3		
No. of samples analysed	: 3		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Christopher Chow		Inorganics, Winnipeg, Manitoba
Gerry Vera	Analyst	Organics, Winnipeg, Manitoba
Oleksandr Busel		Inorganics, Winnipeg, Manitoba
Oleksandr Busel		Metals, Winnipeg, Manitoba

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	no units
%	percent
% T/cm	% transmittance per centimetre
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre
AU/cm	absorbance units per centimetre
CU	colour units (1 cu = 1 mg/l pt)
meq/L	milliequivalents per litre
mg/L	milligrams per litre
NTU	nephelometric turbidity units
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
HTD	*Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time.*
RRV	*Reported result verified by repeat analysis.*

Analytical Results

Sub-Matrix: **Drinking Water**
(Matrix: **Water**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WHITEHEAD ELTON REGIONAL 1 - RAW	WHITEHEAD ELTON REGIONAL 2 - TREATED	WHITEHEAD ELTON REGIONAL 3 - DISTRIBUTION MID	----	----
					Client sampling date / time	18-Oct-2023 08:00	18-Oct-2023 08:20	18-Oct-2023 12:10	----	----
						WP2326968-001	WP2326968-002	WP2326968-003	--------	--------
						Result	Result	Result	----	----
Physical Tests										
Absorbance, UV (@ 254nm)	----	E404/WP	0.0050	AU/cm		0.0490	0.0130	----	----	----
Alkalinity, bicarbonate (as CaCO3)	----	E290/WP	1.0	mg/L		339	110	----	----	----
Alkalinity, carbonate (as CaCO3)	----	E290/WP	1.0	mg/L		<1.0	<1.0	----	----	----
Alkalinity, hydroxide (as CaCO3)	----	E290/WP	1.0	mg/L		<1.0	<1.0	----	----	----
Alkalinity, total (as CaCO3)	----	E290/WP	1.0	mg/L		339	110	----	----	----
Colour, true	----	E329/WP	5.0	CU		<5.0 HTD	<5.0 HTD	----	----	----
Conductivity	----	E100/WP	2.0	µS/cm		1160	333	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/WP	0.50	mg/L		600	105	----	----	----
Langelier index (@ 4°C)	----	EC105A/WP	0.010	-		0.932	-0.198	----	----	----
Langelier index (@ 60°C)	----	EC105A/WP	0.010	-		1.68	0.571	----	----	----
pH	----	E108/WP	0.10	pH units		8.01	7.98	----	----	----
Solids, total dissolved [TDS]	----	E162-L/WP	3.0	mg/L		818	180	----	----	----
Turbidity	----	E121/WP	0.10	NTU		23.9	<0.10	----	----	----
pH, saturation (@ 4°C)	----	EC105A/WP	0.010	pH units		7.08	8.18	----	----	----
Transmittance, UV (@ 254nm)	----	E404/WP	1.0	% T/cm		89.3	97.0	----	----	----
pH, saturation (@ 60°C)	----	EC105A/WP	0.010	pH units		6.33	7.41	----	----	----
Anions and Nutrients										
Bromide	24959-67-9	E235.Br-L/WP	0.050	mg/L		<0.100 DLM	<0.050	----	----	----
Chloride	16887-00-6	E235.Cl-L/WP	0.10	mg/L		15.3	5.01	----	----	----
Fluoride	16984-48-8	E235.F/WP	0.020	mg/L		0.146	0.033	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/WP	0.0050	mg/L		<0.0100 DLM	<0.0050	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2-L/WP	0.0010	mg/L		<0.0020 DLM	<0.0010	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WP	0.30	mg/L		331	58.4	----	----	----
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/WP	0.50	mg/L		3.28	1.37 RRV	----	----	----

Analytical Results

Sub-Matrix: **Drinking Water**
(Matrix: **Water**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID: WHITEHEAD ELTON REGIONAL 1 - RAW	WHITEHEAD ELTON REGIONAL 2 - TREATED	WHITEHEAD ELTON REGIONAL 3 - DISTRIBUTION MID	----	----
Client sampling date / time					18-Oct-2023 08:00	18-Oct-2023 08:20	18-Oct-2023 12:10	----	----
					WP2326968-001	WP2326968-002	WP2326968-003	--------	--------
					Result	Result	Result	----	----
Organic / Inorganic Carbon									
Carbon, total organic [TOC]	----	E355-L/WP	0.50	mg/L	3.32	<0.50	----	----	----
Ion Balance									
Anion sum	----	EC101A/WP	0.10	meq/L	14.1	3.56	----	----	----
Cation sum (total)	----	EC101A/WP	0.10	meq/L	12.7	3.10	----	----	----
Ion balance (cations/anions)	----	EC101A/WP	0.01	%	90.1	87.1	----	----	----
Ion balance (APHA)	----	EC101A/WP	0.010	%	-5.22	-6.91	----	----	----
Total Metals									
Aluminum, total	7429-90-5	E420/WP	3.0	µg/L	<3.0	<3.0	<3.0	----	----
Antimony, total	7440-36-0	E420/WP	0.10	µg/L	<0.10	<0.10	<0.10	----	----
Arsenic, total	7440-38-2	E420/WP	0.10	µg/L	5.64	0.93	0.80	----	----
Barium, total	7440-39-3	E420/WP	0.10	µg/L	24.4	4.58	4.00	----	----
Beryllium, total	7440-41-7	E420/WP	0.020	µg/L	<0.020	<0.020	<0.020	----	----
Bismuth, total	7440-69-9	E420/WP	0.050	µg/L	<0.050	<0.050	<0.050	----	----
Boron, total	7440-42-8	E420/WP	10	µg/L	70	52	57	----	----
Cadmium, total	7440-43-9	E420/WP	0.0050	µg/L	<0.0050	<0.0050	0.0221	----	----
Calcium, total	7440-70-2	E420/WP	50	µg/L	147000	26000	26600	----	----
Cesium, total	7440-46-2	E420/WP	0.010	µg/L	<0.010	<0.010	<0.010	----	----
Chromium, total	7440-47-3	E420/WP	0.50	µg/L	<0.50	<0.50	<0.50	----	----
Cobalt, total	7440-48-4	E420/WP	0.10	µg/L	<0.10	<0.10	<0.10	----	----
Copper, total	7440-50-8	E420/WP	0.50	µg/L	<0.50	18.4	5.43	----	----
Iron, total	7439-89-6	E420/WP	10	µg/L	1680	<10	<10	----	----
Lead, total	7439-92-1	E420/WP	0.050	µg/L	<0.050	0.112	0.408	----	----
Lithium, total	7439-93-2	E420/WP	1.0	µg/L	43.1	10.3	10.8	----	----
Magnesium, total	7439-95-4	E420/WP	5.0	µg/L	56700	9820	10000	----	----
Manganese, total	7439-96-5	E420/WP	0.10	µg/L	466	0.96	0.60	----	----
Molybdenum, total	7439-98-7	E420/WP	0.050	µg/L	4.74	0.651	0.638	----	----
Nickel, total	7440-02-0	E420/WP	0.50	µg/L	<0.50	<0.50	21.8	----	----

Analytical Results

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						WP2326968-001	WP2326968-002	WP2326968-003	--------	--------
						Result	Result	Result	---	---
Total Metals										
Phosphorus, total	7723-14-0	E420/WP	50	µg/L		<50	<50	<50	----	----
Potassium, total	7440-09-7	E420/WP	50	µg/L		4920	1290	1320	----	----
Rubidium, total	7440-17-7	E420/WP	0.20	µg/L		1.86	0.51	0.50	----	----
Selenium, total	7782-49-2	E420/WP	0.050	µg/L		<0.050	<0.050	<0.050	----	----
Silicon, total	7440-21-3	E420/WP	100	µg/L		13400	2360	2470	----	----
Silver, total	7440-22-4	E420/WP	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Sodium, total	7440-23-5	E420/WP	50	µg/L		11100	22200	21800	----	----
Strontium, total	7440-24-6	E420/WP	0.20	µg/L		456	76.2	83.4	----	----
Sulfur, total	7704-34-9	E420/WP	500	µg/L		114000	18300	18500	----	----
Tellurium, total	13494-80-9	E420/WP	0.20	µg/L		<0.20	<0.20	<0.20	----	----
Thallium, total	7440-28-0	E420/WP	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Thorium, total	7440-29-1	E420/WP	0.10	µg/L		<0.10	<0.10	<0.10	----	----
Tin, total	7440-31-5	E420/WP	0.10	µg/L		<0.10	0.21	<0.10	----	----
Titanium, total	7440-32-6	E420/WP	0.30	µg/L		<0.30	<0.30	<0.30	----	----
Tungsten, total	7440-33-7	E420/WP	0.10	µg/L		<0.10	<0.10	<0.10	----	----
Uranium, total	7440-61-1	E420/WP	0.010	µg/L		7.67	1.23	1.32	----	----
Vanadium, total	7440-62-2	E420/WP	0.50	µg/L		<0.50	<0.50	<0.50	----	----
Zinc, total	7440-66-6	E420/WP	3.0	µg/L		<3.0	12.9	87.4	----	----
Zirconium, total	7440-67-7	E420/WP	0.20	µg/L		<0.20	<0.20	<0.20	----	----
Volatile Organic Compounds										
Benzene	71-43-2	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Bromodichloromethane	75-27-4	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Bromoform	75-25-2	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Chloroform	67-66-3	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Dibromochloromethane	124-48-1	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Dichloromethane	75-09-2	E611D/WP	0.0010	mg/L		<0.0010	----	----	----	----
Ethylbenzene	100-41-4	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----

Analytical Results

Sub-Matrix: **Drinking Water**
(Matrix: **Water**)

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						WP2326968-001	WP2326968-002	WP2326968-003	--------	--------
						Result	Result	Result	----	----
Volatile Organic Compounds										
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Tetrachloroethylene	127-18-4	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Toluene	108-88-3	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Trichloroethylene	79-01-6	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Xylene, m+p-	179601-23-1	E611D/WP	0.00040	mg/L		<0.00040	----	----	----	----
Xylene, o-	95-47-6	E611D/WP	0.00030	mg/L		<0.00030	----	----	----	----
Xylenes, total	1330-20-7	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
BTEX, total	----	E611D/WP	0.0010	mg/L		<0.0010	----	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611D/WP	1.0	%		88.6	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WP	1.0	%		102	----	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

4) Water System Incidents and Corrective Actions

There were no incidents or corrective actions needed in 2023.

5) Drinking Water Safety Orders, Warnings and Charges

On March 8th, a boil water advisory was issues after a water line repair took place on Highway #10, between Road 62N and Road 63N. It was rescinded after all bacteriological samples were done and results indicated water was safe for consumption.

6) *Major Expenses Incurred*

In 2023, we replaced the drop pipes in both of our raw water wells to stainless steel.

7) Current/Future System Expansions

In 2023, further investigations were done to find a suitable location for an additional raw water well with the hope for a 2024 install date.

Appendix A

Appendix A contains all the bacterial test results for all 3 Public Water Systems as well the newly implemented manganese testing. Four sets of manganese samples are taken every third year. The next year we will conduct our manganese sampling will be 2026.

Appendix B

Appendix B contains the 2023 Water Use Report that must be sent to the Provincial Government and the Monitoring Well Graph Reports . The Monitoring Wells are checked periodically throughout the year. One well is located at the raw water supply wells and the second is located a quarter of a mile south. These Monitoring Wells are a daily snapshot on the health of the aquifer we draw our water from.

APPENDIX A

2023

BACTERIA AND MANGANESE SAMPLE RESULTS

2023	Initals	Time	PWS #	Location	Tested	Chlorine Free	Chlorine Total	Total Coliforms	Escherichia Coli	Manganese
January 3, 2023	HB	13:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	13:00	248.70	WTP	Treated	0.64	0.82	<1	<1	
	HB	14:30	248.70	Forrest	Incoming	0.74	0.82	<1	<1	
	HB	14:30	248.70	Forrest	Outgoing	0.50	0.63	<1	<1	
	HB	13:30	248.80	Fire Hall	Fire Hall	0.74	0.84	<1	<1	
	HB	13:45	248.80	Dunganon	Dunganon	0.76	0.83	<1	<1	
	HB	14:00	63.50	PR#2	PR#2	0.54	0.57	<1	<1	
	HB	14:15	63.50	Elton Booster	Elton Booster	0.67	0.73	<1	<1	
January 11, 2023	HB	11:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	11:00	248.70	WTP	Treated	0.68	0.91	<1	<1	
	HB	12:45	248.70	Forrest	Incoming	1.00	1.12	<1	<1	
	HB	12:45	248.70	Forrest	Outgoing	0.71	0.89	<1	<1	
	HB	11:10	248.80	Fire Hall	Fire Hall	0.67	0.79	<1	<1	
	HB	11:20	248.80	Dunganon	Dunganon	0.83	0.93	<1	<1	
	HB	12:15	63.50	PR#2	PR#2	0.76	0.84	<1	<1	
	HB	12:30	63.50	Elton Booster	Elton Booster	0.49	0.58	<1	<1	
January 25, 2023	HB	11:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	11:00	248.70	WTP	Treated	0.93	1.03	<1	<1	
	HB	13:20	248.70	Forrest	Incoming	0.62	0.79	<1	<1	
	HB	13:20	248.70	Forrest	Outgoing	0.60	0.74	<1	<1	
	HB	11:15	248.80	Fire Hall	Fire Hall	0.70	0.86	<1	<1	
	HB	11:35	248.80	Dunganon	Dunganon	0.69	0.83	<1	<1	
	HB	12:15	63.50	PR#2	PR#2	0.62	0.78	<1	<1	
	HB	12:50	63.50	Elton Booster	Elton Booster	0.62	0.72	<1	<1	
February 8, 2023	HB	10:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	10:00	248.70	WTP	Treated	0.64	0.73	<1	<1	
	HB	13:00	248.70	Forrest	Incoming	0.73	0.79	<1	<1	
	HB	13:00	248.70	Forrest	Outgoing	0.72	0.82	<1	<1	
	HB	10:10	248.80	Fire Hall	Fire Hall	0.63	0.70	<1	<1	
	HB	10:30	248.80	Dunganon	Dunganon	0.66	0.69	<1	<1	
	HB	11:30	63.50	PR#2	PR#2	0.77	0.81	<1	<1	
	HB	12:20	63.50	Elton Booster	Elton Booster	0.79	0.85	<1	<1	
February 22, 2023	HB	10:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	10:00	248.70	WTP	Treated	0.83	0.94	<1	<1	
	HB	12:00	248.70	Forrest	Incoming	0.80	0.88	<1	<1	
	HB	12:00	248.70	Forrest	Outgoing	0.66	0.72	<1	<1	
	HB	10:15	248.80	Fire Hall	Fire Hall	0.92	0.97	<1	<1	
	HB	10:30	248.80	Dunganon	Dunganon	0.96	1.04	<1	<1	
	HB	11:00	63.50	PR#2	PR#2	0.92	0.94	<1	<1	
	HB	11:30	63.50	Elton Booster	Elton Booster	0.85	0.94	<1	<1	
March 8, 2023	HB	10:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	10:00	248.70	WTP	Treated	0.71	0.81	<1	<1	
	HB	12:00	248.70	Forrest	Incoming	0.79	0.80	<1	<1	
	HB	12:00	248.70	Forrest	Outgoing	0.71	0.78	<1	<1	
	HB	10:15	248.80	Fire Hall	Fire Hall	0.65	0.79	<1	<1	
	HB	10:30	248.80	Dunganon	Dunganon	0.76	0.80	<1	<1	
	HB	11:00	63.50	PR#2	PR#2	0.77	0.82	<1	<1	
	HB	11:40	63.50	Elton Booster	Elton Booster	0.76	0.81	<1	<1	
March 22, 2023	HB	10:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	10:05	248.70	WTP	Treated	0.79	0.83	<1	<1	
	HB	11:50	248.70	Forrest	Incoming	0.88	0.90	<1	<1	
	HB	11:53	248.70	Forrest	Outgoing	0.86	0.93	<1	<1	
	HB	10:15	248.80	Fire Hall	Fire Hall	0.82	0.86	<1	<1	
	HB	10:30	248.80	Dunganon	Dunganon	0.86	0.90	<1	<1	
	HB	10:40	63.50	PR#2	PR#2	0.81	0.89	<1	<1	
	HB	11:30	63.50	Elton Booster	Elton Booster	0.75	0.78	<1	<1	

2023	Initals	Time	PWS #	Location	Tested	Chlorine Free	Chlorine Total	Total Coliforms	Escherichia Coli	Manganese
April 4, 2023	HB	09:30	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	09:30	248.70	WTP	Treated	0.70	0.78	<1	<1	
	HB	12:00	248.70	Forrest	Incoming	0.70	0.72	<1	<1	
	HB	12:00	248.70	Forrest	Outgoing	0.58	0.68	<1	<1	
	HB	09:35	248.80	Fire Hall	Fire Hall	0.64	0.68	<1	<1	0.00142
	HB	10:00	248.80	Dunganon	Dunganon	0.74	0.76	<1	<1	
	HB	11:00	63.50	PR#2	PR#2	0.68	0.75	<1	<1	0.00031
	HB	11:40	63.50	Elton Booster	Elton Booster	0.80	0.83	<1	<1	
April 18, 2023	HB	13:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	13:00	248.70	WTP	Treated	0.66	0.80	<1	<1	
	HB	10:00	248.70	Forrest	Incoming	0.78	0.85	<1	<1	
	HB	10:00	248.70	Forrest	Outgoing	0.67	0.77	<1	<1	
	HB	12:15	248.80	Fire Hall	Fire Hall	0.68	0.79	<1	<1	
	HB	11:58	248.80	Dunganon	Dunganon	0.68	0.74	<1	<1	
	HB	10:50	63.50	PR#2	PR#2	0.73	0.74	<1	<1	
	HB	10:15	63.50	Elton Booster	Elton Booster	0.66	0.67	<1	<1	
May 3, 2023	HB	09:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	09:00	248.70	WTP)	Treated	0.83	0.92	<1	<1	
	HB	12:00	248.70	Forrest	Incoming	0.70	0.78	<1	<1	
	HB	12:00	248.70	Forrest	Outgoing	0.70	0.77	<1	<1	
	HB	09:15	248.80	Fire Hall	Fire Hall	0.77	0.86	<1	<1	
	HB	09:30	248.80	Dunganon	Dunganon	0.62	0.68	<1	<1	
	HB	10:44	63.50	PR#2	PR#2	0.88	0.96	<1	<1	
	HB	11:30	63.50	Elton Booster	Elton Booster	0.66	0.71	<1	<1	
May 16, 2023	HB	09:30	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	09:30	248.70	WTP	Treated	0.85	1.02	<1	<1	
	HB	12:00	248.70	Forrest	Incoming	0.94	1.10	<1	<1	
	HB	12:00	248.70	Forrest	Outgoing	0.91	1.00	<1	<1	
	HB	09:35	248.80	Fire Hall	Fire Hall	0.98	1.01	<1	<1	0.00107
	HB	10:00	248.80	Dunganon	Dunganon	1.04	1.18	<1	<1	
	HB	11:00	63.50	PR#2	PR#2	0.84	0.97	<1	<1	0.00038
	HB	11:45	63.50	Elton Booster	Elton Booster	0.83	0.91	<1	<1	
May 31,2023	HB	09:15	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	09:20	248.70	WTP	Treated	0.75	0.93	<1	<1	
	HB	12:10	248.70	Forrest	Incoming	0.88	1.03	<1	<1	
	HB	12:15	248.70	Forrest	Outgoing	0.85	0.92	<1	<1	
	HB	09:30	248.80	Fire Hall	Fire Hall	0.88	1.04	<1	<1	
	HB	10:00	248.80	Dunganon	Dunganon	0.83	0.99	<1	<1	
	HB	11:00	63.50	PR#2	PR#2	0.91	0.99	<1	<1	
	HB	11:30	63.50	Elton Booster	Elton Booster	0.84	0.93	<1	<1	
June 14, 2023	BY	09:40	248.70	WTP	Raw	0.00	0.00	<1	<1	
	BY	09:40	248.70	WTP	Treated	0.72	0.86	<1	<1	
	BY	11:55	248.70	Forrest	Incoming	0.78	0.88	<1	<1	
	BY	11:55	248.70	Forrest	Outgoing	0.73	0.83	<1	<1	
	BY	09:55	248.80	Fire Hall	Fire Hall	0.76	0.84	<1	<1	
	BY	10:20	248.80	Dunganon	Dunganon	0.79	0.83	<1	<1	
	BY	11:05	63.50	PR#2	PR#2	0.76	0.83	<1	<1	
	BY	11:35	63.50	Elton Booster	Elton Booster	0.80	0.85	<1	<1	
June 28, 2023	BY	10:45	248.70	WTP	Raw	0.00	0.00	<1	<1	
	BY	10:50	248.70	WTP	Treated	0.74	0.86	<1	<1	
	BY	13:25	248.70	Forrest	Incoming	0.89	0.96	<1	<1	
	BY	13:25	248.70	Forrest	Outgoing	0.86	0.97	<1	<1	
	BY	11:10	248.80	Fire Hall	Fire Hall	0.80	0.88	<1	<1	
	BY	11:30	248.80	Dunganon	Dunganon	0.86	0.94	<1	<1	
	BY	12:25	63.50	PR#2	PR#2	0.88	0.95	<1	<1	
	BY	13:00	63.50	Elton Booster	Elton Booster	0.95	0.99	<1	<1	

2023	Initals	Time	PWS #	Location	Tested	Chlorine Free	Chlorine Total	Total Coliforms	Escherichia Coli	Manganese
July 12, 2023	HB	09:30	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	09:30	248.70	WTP	Treated	0.89	0.99	<1	<1	
	HB	12:12	248.70	Forrest	Incoming	0.95	1.05	<1	<1	
	HB	12:12	248.70	Forrest	Outgoing	0.94	1.11	<1	<1	
	HB	09:37	248.80	Fire Hall	Fire Hall	0.81	0.97	<1	<1	
	HB	10:01	248.80	Dunganon	Dunganon	0.98	1.08	<1	<1	
	HB	11:10	63.50	PR#2	PR#2	0.99	1.06	<1	<1	
	HB	11:48	63.50	Elton Booster	Elton Booster	0.89	0.96	<1	<1	
July 26, 2023	BY	09:40	248.70	WTP	Raw	0.00	0.00	<1	<1	
	BY	09:35	248.70	WTP	Treated	0.73	0.87	<1	<1	
	BY	12:45	248.70	Forrest	Incoming	0.89	0.97	<1	<1	
	BY	12:45	248.70	Forrest	Outgoing	0.96	1.04	<1	<1	
	BY	10:20	248.80	Fire Hall	Fire Hall	0.79	0.86	<1	<1	
	BY	10:40	248.80	Dunganon	Dunganon	0.89	0.94	<1	<1	
	BY	11:25	63.50	PR#2	PR#2	1.06	1.11	<1	<1	
	BY	12:30	63.50	Elton Booster	Elton Booster	0.81	0.86	<1	<1	
August 9, 2023	BY	09:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	BY	09:00	248.70	WTP	Treated	0.71	0.84	<1	<1	
	BY	11:47	248.70	Forrest	Incoming	0.79	0.89	<1	<1	
	BY	11:50	248.70	Forrest	Outgoing	0.77	0.84	<1	<1	
	BY	09:13	248.80	Fire Hall	Fire Hall	0.76	0.81	<1	<1	
	BY	09:35	248.80	Dunganon	Dunganon	0.81	0.85	<1	<1	
	BY	10:40	63.50	PR#2	PR#2	0.78	0.82	<1	<1	
	BY	11:20	63.50	Elton Booster	Elton Booster	1.01	1.03	<1	<1	
August 23, 2023	RB	10:15	248.70	WTP	Raw	0.00	0.00	<1	<1	
	RB	10:15	248.70	WTP	Treated	1.01	1.07	<1	<1	
	RB	15:26	248.70	Forrest	Incoming	0.87	0.92	<1	<1	
	RB	15:26	248.70	Forrest	Outgoing	0.68	0.76	<1	<1	
	RB	10:50	248.80	Fire Hall	Fire Hall	0.91	0.97	<1	<1	0.00136
	RB	11:15	248.80	Dunganon	Dunganon	0.79	0.89	<1	<1	
	RB	14:13	63.50	PR#2	PR#2	0.69	0.79	<1	<1	0.00201
	RB	14:33	63.50	Elton Booster	Elton Booster	0.74	0.83	<1	<1	
September 6, 2023	HB	11:40	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	11:40	248.70	WTP	Treated	0.74	0.94	<1	<1	
	HB	09:00	248.70	Forrest	Incoming	0.80	0.94	<1	<1	
	HB	09:00	248.70	Forrest	Outgoing	0.78	0.89	<1	<1	
	HB	11:30	248.80	Fire Hall	Fire Hall	0.80	0.86	<1	<1	
	HB	11:00	248.80	Dunganon	Dunganon	0.81	0.86	<1	<1	
	HB	10:07	63.50	PR#2	PR#2	0.74	0.80	<1	<1	
	HB	09:28	63.50	Elton Booster	Elton Booster	0.81	0.88	<1	<1	
September 20, 2023	HB	11:32	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	11:32	248.70	WTP	Treated	0.79	0.98	<1	<1	
	HB	09:00	248.70	Forrest	Incoming	0.78	0.88	<1	<1	
	HB	09:00	248.70	Forrest	Outgoing	0.81	0.91	<1	<1	
	HB	11:25	248.80	Fire Hall	Fire Hall	0.84	0.88	<1	<1	
	HB	11:02	248.80	Dunganon	Dunganon	0.85	0.93	<1	<1	
	HB	10:08	63.50	PR#2	PR#2	0.89	0.90	<1	<1	
	HB	09:29	63.50	Elton Booster	Elton Booster	0.83	0.92	<1	<1	
October 4, 2023	HB	09:00	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	09:00	248.70	WTP	Treated	0.83	1.02	<1	<1	
	HB	11:41	248.70	Forrest	Incoming	0.86	0.98	<1	<1	
	HB	11:41	248.70	Forrest	Outgoing	0.83	0.86	<1	<1	
	HB	09:17	248.80	Fire Hall	Fire Hall	0.83	0.92	<1	<1	
	HB	09:42	248.80	Dunganon	Dunganon	0.92	1.03	<1	<1	
	HB	10:43	63.50	PR#2	PR#2	0.84	0.90	<1	<1	
	HB	11:20	63.50	Elton Booster	Elton Booster	0.76	0.84	<1	<1	

2023	Initals	Time	PWS #	Location	Tested	Chlorine Free	Chlorine Total	Total Coliforms	Escherichia Coli	Manganese
October 18, 2023	BY	09:30	248.70	WTP	Raw	0.00	0.00	<1	<1	
	BY	09:30	248.70	WTP	Treated	0.80	0.91	<1	<1	
	BY	12:15	248.70	Forrest	Incoming	0.97	1.05	<1	<1	
	BY	12:15	248.70	Forrest	Outgoing	1.67	1.90	<1	<1	
	BY	09:50	248.80	Fire Hall	Fire Hall	0.93	0.97	<1	<1	
	BY	10:05	248.80	Dunganon	Dunganon	0.90	0.94	<1	<1	
	BY	11:15	63.50	PR#2	PR#2	2.20	2.30	<1	<1	
	BY	11:50	63.50	Elton Booster	Elton Booster	0.84	0.89	<1	<1	
November 1, 2023	HB	10:30	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	10:30	248.70	WTP	Treated	0.80	0.96	<1	<1	
	HB	13:30	248.70	Forrest	Incoming	0.83	0.93	<1	<1	
	HB	13:30	248.70	Forrest	Outgoing	0.72	0.85	<1	<1	
	HB	11:00	248.80	Fire Hall	Fire Hall	0.79	0.90	<1	<1	
	HB	11:35	248.80	Dunganon	Dunganon	0.91	0.98	<1	<1	
	HB	12:29	63.50	PR#2	PR#2	0.80	0.85	<1	<1	
	HB	13:00	63.50	Elton Booster	Elton Booster	0.74	0.77	<1	<1	
November 20, 2023	HB	10:20	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	10:25	248.70	WTP	Treated	0.92	1.06	<1	<1	
	HB	14:04	248.70	Forrest	Incoming	0.79	0.84	<1	<1	
	HB	14:04	248.70	Forrest	Outgoing	0.73	0.81	<1	<1	
	HB	10:38	248.80	Fire Hall	Fire Hall	0.92	1.05	<1	<1	0.00109
	HB	11:49	248.80	Dunganon	Dunganon	0.95	1.05	<1	<1	
	HB	12:56	63.50	PR#2	PR#2	0.86	0.90	<1	<1	0.00040
	HB	13:41	63.50	Elton Booster	Elton Booster	0.82	0.88	<1	<1	
November 29, 2023	MB	10:05	248.70	WTP	Raw	0.00	0.00	<1	<1	
	MB	10:00	248.70	WTP	Treated	0.84	0.97	<1	<1	
	MB	13:32	248.70	Forrest	Incoming	0.91	1.00	<1	<1	
	MB	13:35	248.70	Forrest	Outgoing	0.91	0.94	<1	<1	
	MB	10:37	248.80	Fire Hall	Fire Hall	0.84	0.92	<1	<1	
	MB	11:07	248.80	Dunganon	Dunganon	0.88	0.96	<1	<1	
	MB	12:05	63.50	PR#2	PR#2	0.89	0.97	<1	<1	
	MB	12:42	63.50	Elton Booster	Elton Booster	0.85	0.90	<1	<1	
December 13, 2023	HB	09:20	248.70	WTP	Raw	0.00	0.00	<1	<1	
	HB	09:30	248.70	WTP	Treated	0.81	0.94	<1	<1	
	HB	11:45	248.70	Forrest	Incoming	0.79	0.89	<1	<1	
	HB	11:45	248.70	Forrest	Outgoing	0.79	0.87	<1	<1	
	HB	09:35	248.80	Fire Hall	Fire Hall	0.80	0.81	<1	<1	
	HB	09:58	248.80	Dunganon	Dunganon	0.87	0.94	<1	<1	
	HB	11:00	63.50	PR#2	PR#2	0.83	0.85	<1	<1	
	HB	11:34	63.50	Elton Booster	Elton Booster	0.78	0.82	<1	<1	
December 27, 2023	MB	09:41	248.70	WTP	Raw	0.00	0.00	<1	<1	
	MB	09:40	248.70	WTP	Treated	0.75	0.86	<1	<1	
	MB	12:31	248.70	Forrest	Incoming	0.82	0.89	<1	<1	
	MB	12:37	248.70	Forrest	Outgoing	0.78	0.89	<1	<1	
	MB	09:59	248.80	Fire Hall	Fire Hall	0.74	0.86	<1	<1	
	MB	10:28	248.80	Dunganon	Dunganon	0.58	0.66	<1	<1	
	MB	11:34	63.50	PR#2	PR#2	0.85	0.91	<1	<1	
	MB	12:11	63.50	Elton Booster	Elton Booster	0.74	0.82	<1	<1	

APPENDIX B

2023 Water Use Report

Monitoring Well Graph Report

Manitoba Sustainable Development
Water Licensing Section
Box 16 – 200 Saulteaux Crescent
Winnipeg MB R3J 3W3
wateruse@gov.mb.ca

Manitoba
Sustainable Development

Annual Water Use Report for 20 23

Pursuant to ***The Water Rights Act***

LICENSEE'S NAME: Whitehead Elton Regional Water Co-operative Inc.	LICENCE NO. PWS-11-487
POST OFFICE ADDRESS General Delivery, Forrest MB R0K 0W0	PHONE NO. 204 728 7834

SOURCE OF WATER SUPPLY (CHECK ONE)/ ☒ WELL ☐ SURFACE WATER _____ (Name of River, Creek, etc.)

LOCATION OF PUMP (OR WELL):

QUARTER	SECTION	TOWNSHIP	RANGE	OR OTHER (SPECIFY)
SE	21	10	21	W1

DESIGN PUMPING RATE: LITRES PER SECOND 22.7 OR OTHER (SPECIFY) _____

NOTE 1: **QUANTITIES OF WATER IN TABLE BELOW EXPRESSED IN (CHECK ONE)**

☐ LITRES ☐ DECAMETRES

☒ OTHER (SPECIFY): Cubic Meters

METER READING DECEMBER 31/20 22 662083

	JANUARY		FEBRUARY		MARCH		APRIL	
DAY OF MONTH	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION
1	662727	644	682135	648	700861	643	721913	678
2	663313	586	682748	613	701547	686	722596	683
3	663934	621	683368	620	702230	683	723335	739
4	664546	612	684163	795	702949	719	724011	676
5	665164	618	684760	597	703612	663	724774	763
6	665714	550	685403	643	704890	1278	725448	674
7	666352	638	686150	747	705012	122	726199	751
8	666965	613	686624	474	705670	658	726962	763
9	667595	630	687209	585	706313	643	727665	703
10	668175	580	688023	814	706956	643	728468	803
11	668787	612	688756	733	707645	689	729052	584
12	669340	553	689400	644	708241	596	729841	789
13	670060	720	690018	618	708963	722	730491	650
14	670637	577	690676	658	709620	657	731175	684
15	671168	531	691325	649	710308	688	731872	697
16	671880	712	692012	687	711018	710	732661	789
17	672573	693	692590	578	711734	716	733348	687
18	673167	594	693383	793	712473	739	734079	731
19	673714	547	693970	587	713153	680	734789	710
20	674302	588	694680	710	713798	645	735461	672
21	674968	666	695384	704	714485	687	736121	660
22	675604	636	696032	648	715166	681	736804	683
23	676227	623	696676	644	715832	666	737393	589
24	676873	646	697330	654	716465	633	738154	761
25	677500	627	698079	749	717157	692	738794	640
26	678184	684	698776	697	717827	670	739587	793
27	678877	693	699532	756	718555	728	740259	672
28	679505	628	700218	686	719248	693	740961	702
29	680157	652	-	-	719924	676	741773	812
30	680829	672	-	-	720539	615	742433	660
31	681487	658	-	-	721235	696	-	-
TOTAL	19404	19404	18731	18731	21017	21017	21,198	21,198

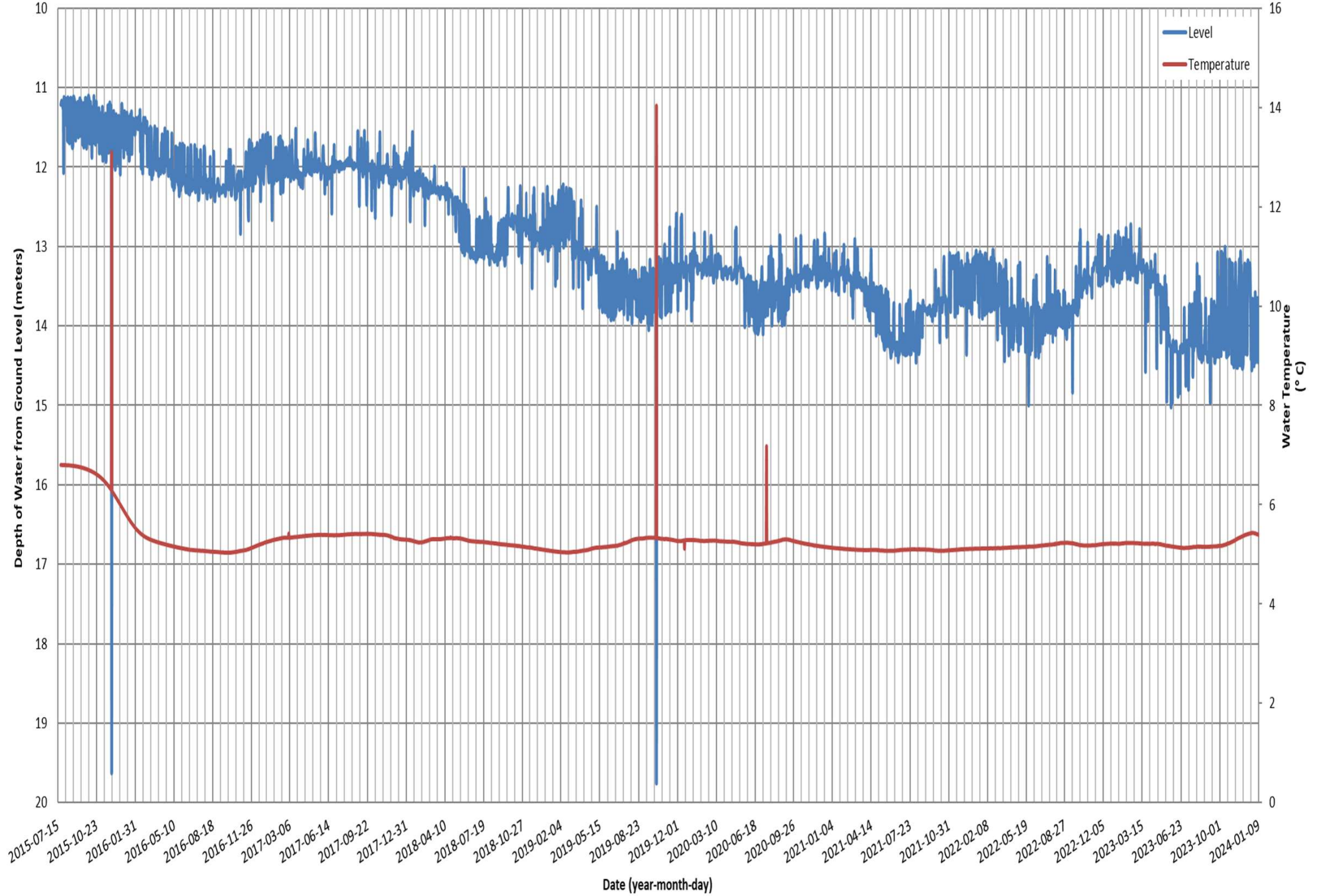
NOTE2:/

LICENSEE MUST COMPLETE "**ANNUAL WATER USE REPORT**" FOR EACH CALENDAR YEAR AND FORWARD THE REPORT TO THE WATER LICENSING SECTION AT THE ABOVE ADDRESS **NOT LATER THAN FEB. 1 OF THE FOLLOWING YEAR.**

DAY OF MONTH	MAY		JUNE		JULY		AUGUST	
	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION
1	743103	670	774648	1,258	8311.9	1007.6	37100.11	1039.01
2	743919	816	775738	1,090	9174.3	862.4	38196.52	1096.41
3	744735	816	776873	1,135	9945.8	771.5	39606.32	1409.8
4	745542	807	778278	1,405	10897.5	951.7	40780.22	1173.9
5	746375	833	779420	1,142	11905.6	1008.1	41895.82	1115.6
6	747125	750	781006	1,586	13019.8	1114.2	42838.6	942.78
7	747962	837	782293	1,287	14175.6	1155.8	43798.02	959.42
8	748721	759	783613	1,320	15244.85	1069.25	44785.09	987.07
9	749681	960	784554	941	16123.3	878.45	45950.62	1165.53
10	750693	1012	785607	1,053	16833.1	709.8	46886.8	936.18
11	751643	950	786502	895	17879.3	1046.2	47466.47	579.67
12	752656	1013	788113	1,611	18893	1013.7	48290.43	823.96
13	753557	901	789703	1,590	19876.2	983.2	49091.24	800.81
14	754515	958	791116	1,413	20919	1042.8	49846.07	754.83
15	755741	1226	792228	1,112	21847.86	928.86	50604.35	758.28
16	756886	1145	793483	1,255	22392.9	545.04	51664.44	1060.09
17	758076	1190	794599	1,116	23195.4	802.5	52479.64	815.2
18	759039	963	795635	1,036	24140	944.6	53547.75	1068.11
19	759916	877	796718	1,083	24961.2	821.2	54550.69	1002.94
20	761077	1161	797798	1,080	25925.9	964.7	55322.54	771.85
21	762173	1096	798911	1,113	26874.3	948.4	56054.55	732.01
22	763237	1064	799933	1,022	27846.04	971.74	56967.55	913
23	764524	1287	800797	864	28653.36	807.32	57949.25	981.7
24	765639	1115	1123.98	1,124	29473.37	820.01	58853.28	904.03
25	766462	823	2068.1	944	30482.52	1009.15	60026.33	1173.05
26	767760	1298	3175.1	1,107	31365.65	883.13	61049.35	1023.02
27	768843	1083	4233.6	1,059	32412.58	1046.93	61955.11	905.76
28	769870	1027	5048.7	815	33321.93	909.35	62690.85	735.74
29	771052	1182	6066.8	1,018	34220.02	898.09	63601.73	910.88
30	772225	1173	7304.3	1,238	34980.57	760.55	64725.01	1123.28
31	773390	1165	-	-	36061.1	1080.53	65642.73	917.72
TOTAL	30957	30957	34,711	34,711	28756.8	28756.8	29581.63	29581.63

DAY OF MONTH	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION
1	66749.42	1,107	91608.43	706.36	112447.05	634	133351.97	656.69
2	67853.49	1,104	92373.57	765.14	112975.62	529	133945.61	593.64
3	68626.07	773	93060.41	686.84	113836.77	861	134598.27	652.66
4	69506.63	881	93671.77	611.36	114415.9	579	135354.66	756.39
5	70237.33	731	94430.66	758.89	115096.08	680	136021.72	667.06
6	71046.44	809	95155.86	725.2	115928.98	833	136584.06	562.34
7	72112.74	1,066	95753.15	597.29	116624.08	695	137232.45	648.39
8	72865.98	753	96373.79	620.64	117429.38	805	137887.52	655.07
9	73743.31	877	97102.99	729.2	118054.75	625	138563.64	676.12
10	74659.09	916	97804.93	701.94	118781.82	727	139232.58	668.94
11	75469.71	811	98457.02	652.09	119676.07	894	139827.95	595.37
12	76392.08	922	99022.13	565.11	120251.26	575	140458.52	630.57
13	77165.62	774	99662.64	640.51	120983.88	733	141317.17	858.65
14	78009.44	844	100410.81	748.17	121680.34	696	141963.03	645.86
15	78829.74	820	101127.91	717.1	122457.54	777	142657.91	694.88
16	79799.79	970	101778.97	651.06	123137.95	680	143435.28	777.37
17	80445.96	646	102503.95	724.98	123779.3	641	144004.95	569.67
18	81101.32	655	103143.11	639.16	124575.48	796	144698.91	693.96
19	82124.71	1,023	103683.89	540.78	125178.34	603	145516.09	817.18
20	83104.27	980	104450.42	766.53	125938.43	760	146318.64	802.55
21	83958.24	854	105265.23	814.81	126628.51	690	146986.56	667.92
22	84798.8	841	105919.96	654.73	127311.38	683	147627.28	640.72
23	85625.04	826	106640.3	720.34	128025.68	714	148358.67	731.39
24	86238.7	614	107292.34	652.04	128736.06	710	149018.72	660.05
25	86890.42	652	107879.36	587.02	129320.55	584	149698.45	679.73
26	87808.23	918	108618.76	739.4	129939.04	618	150361.25	662.8
27	88494.4	686	109205.05	586.29	130728.79	790	151031.16	669.91
28	89393.66	899	109857.07	652.02	131408.5	680	151740.89	709.73
29	90068.65	675	110440.64	583.57	132087.61	679	152453.81	712.92
30	90902.07	833	111187.45	746.81	132695.28	608	153154.08	700.27
31	-	-	111812.84	625.39	-	-	153849.33	695.25
TOTAL	25,259	25,259	20910.77	20910.77	20,882	20,882	21154.05	21154.05

Whitehead/Elton Well Monitoring Reading (North of PTH 1)



Whitehead/Elton Well Monitoring Reading (South of PTH 1)