Introduction

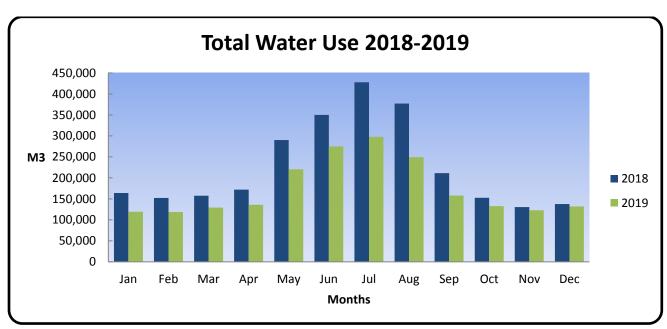
The City of Merritt is the purveyor of drinking water to users connected to the City of Merritt Community Water System. This report is provided to City Council and Interior Health for their information, and in fulfillment of the City's obligations under the Provincial Drinking Water Act and associated regulations, as well as the terms and conditions of the City's Water System Operating Permit. Enforcement of the regulations and issuance of water system permits is the responsibility of the Interior Health Authority's Drinking Water Officer.

Water Consumption

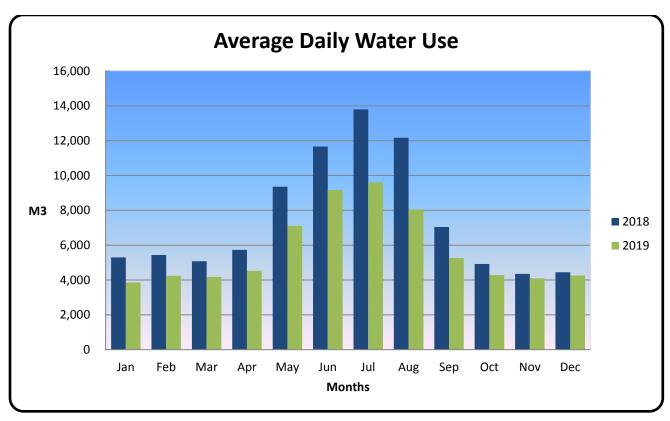
Raw water for the City of Merritt water system is extracted from an aquifer through five pump stations. The aquifer provided the 2,091,196,000 litres of water consumed within the Merritt system in 2019. This represents a 23.2% decrease in overall water consumption from 2018. Maximum daily water demand peaked at 14,141,000 litres on August 6, 2019 while minimum daily demand occurred on April 14, 2019 at 1,685,000 litres.

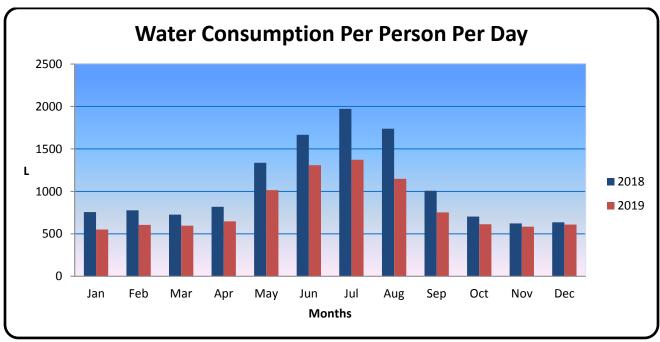
The water consumption for Merritt in 2019 averaged 5,729,304 litres per day. The maximum day (Aug 6th) water consumption was 2020 litres per person, while the minimum day (Apr 14th) consumption was 241 litres per person. The average was 819 litres per person in Merritt every day of the year (based on a population of 7000); average daily consumption in British Columbia is only 296 litres per person (2013 Stats Canada).

The City of Merritt has been tracking water consumption since 1977. The year 2019 had the lowest water consumption in the last 43 years. Due to the level 4 drought the City of Merritt enforced watering restrictions which we believe contributed to this reduced water consumption. To continue a reduction in water usage the enforcement of sprinkling and excess water usage must be a high priority.









Water Storage

Water storage capacity is just over 7.7 million litres between four reservoirs named, Nicola, Grimmett, Grandview and South East Balancing Reservoir.

Merritt's distribution system accounts for another approximate 1.5 million litres. Distribution piping sizes range from 100mm to 350mm – approx. 72 Km in total length.

South East Balancing Reservoir



Water Production

All four production water wells are located within the deepest part of the aquifer. Kengard was drilled into a different aquifer.

- Voght Park #1 250hp rated at 125 L/sec.
- Voght Park #2 200hp rated 112 L/sec.
- Fairley Park 100hp rated at 60L/sec.
- Collettville 125hp rated at 60 L/sec.
- Kengard 100hp rated at 50 L/sec.

In the event of a power outage the Voght Park pumps and Disinfection building are powered by a new diesel generator. Well depths range from 29.8m at Fairley Park to 135m below ground surface at Kengard.

Kengard Pump House



Source Water Quality

The coarse composition of the Aquifer suggests the Aquifer is unconfined - (the Aquifer is not pressurized or capped), and therefore is very vulnerable to contamination. The BC Ministry of Environment Aquifer Classification system categorizes the Merritt Aquifer as type "IA", identifying it as one of the most highly developed and vulnerable Aquifers in the Province. Less than 5% of Aquifers identified in BC currently have this rating. The City has enjoyed a high-quality source of water for many years from this Aquifer. Our water source is also rated as Groundwater at Risk of Pathogens (GARP) therefore we have ongoing plans to protect the Aquifer and the area around it. We have placed signage over the Aquifer to let the public know where it

is to help protect the aquifer. We have also developed a Source Water Protection Plan to help protect our Aquifer.

Source water is tested several times a year for a variety of characteristics from the presence of metals or chemicals to its clarity (turbidity), acidity, base (pH) and temperature. A complete list of the test elements is included as Appendix 'A' to this report and the 2019 Caro lab report is in Appendix "B".

Water Treatment Systems

In June 2019, the City's Water Treatment system was commissioned and fully functional to treat the City's water. The City now has ETS-UV Spectra II SX635 and SX225 reactors followed by Chlorination with complete mix chlorine contact piping installed at each pumphouse.

The City follows Interior Health's 4-3-2-1-0 Drinking Water Objectives.

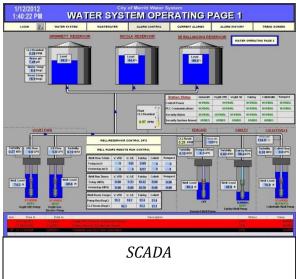
- 4 log inactivation of Viruses (99.99%)
- 3 log removal or inactivation of Giardia Lamblia and Cryptosporidium (99.9%)
- 2 refers to two treatment processes
- 1 for less than 1 NTU of Turbidity
- 0 total and fecal coliforms and E. coli

Voght Park Disinfection



Interior Health mandated our water supply be treated due to the GARP (Groundwater at Risk of Pathogens) rating of the shallow and unconfined (not pressurized or capped) aquifer the City uses.

Quality Monitoring

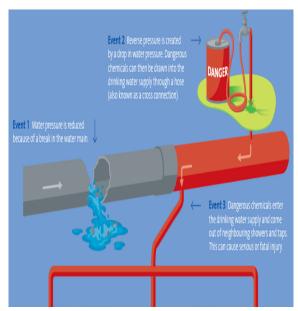


Drinking water delivered to users of the city system is subject to a comprehensive and rigorous testing program that ensures quality drinking water. Water samples from up to eleven (11) separate locations within the system were sent in 2019, on a weekly basis, to the *Caro Analytical Services* laboratories to be tested for the presence/absence of E.coli and Total Coliform Bacteria. City staff also perform Chlorine residual testing to ensure proper levels of Chlorine are maintained. Lab results are downloaded by *Caro* directly onto the City's WaterTrax© system as well as emailed to the Chief Operator and Cross Connection Control Officer for review.

The standard protocol when a water sample is found to

contain the presence of Coliform (an early indicator that we could have a problem arising), however minute, is to flush and resample the water immediately at the same location and resubmit for testing. The Regional Drinking Water Officer will determine if any further action by the purveyor is necessary.

All five wells, pumps and reservoirs are monitored 24/7 with our water quality monitoring devices. These devices will monitor in real time Flow, Temperature, Turbidity, PH and Chlorine residual. The quality control and accuracy of monitoring greatly increases with these devices online. All information from the different stations is sent back to the central computer system (SCADA) at the Wastewater Treatment Plant for monitoring and review. With this real time monitoring the Operators will be able to instantly check the water quality and tell if a problem is arising. In many cases, before the lab results are finished each week. With the SCADA alarm system Operators will also be made aware of any problems 24/7, if any one system falls outside of the control parameters.



Merritt has a Cross Connection Control Coordinator (CCCC) and he has developed a Cross-connection Control Program for the City of Merritt. This program is designed to inspect and eliminate any possible connections between our potable water system and any other connections that are not potable. For example, a connection to potable water and a sprinkler system that injects fertilizer could possibly contaminate the whole water system without the proper back flow device in place and maintained. Our Cross-Connection Control Coordinator inspects all commercial and industrial connections to our system. Our CCCC also makes sure consumers regularly have their back-flow assemblies inspected, tested and maintained. This is vitally important to ensure safe clean drinking water supply for the City of Merritt.

Records

The City employs an automated and continuously operating system to monitor, Flow, Ph., Turbidity, Water temperature, Well room temperature, Chlorine residual and Reservoir storage. This system is called SCADA, *Supervisory Control and Data Acquisition*, and it assists City staff with maintaining a safe drinking water supply by advising of any monitored change within our water system. The SCADA system will alert staff by way of a portable 2-way radio and/or cell phone to ensure that corrections can be made before water levels or quality can be adversely affected.

Test records are stored on the City's WaterTrax© database. Information from this database can be retrieved in many formats for presentation, analysis or public information. This data is also used to provide information to the provincial Drinking Water Officer, including the completion of this annual report.

The public is able to log in and view information about our water system at: http://www.watertrax.com using the name "Merritt Guest" and password of "MerrittGuest1".

Operation

The City of Merritt's Community Water System and Water Treatment facilities are operated and maintained by highly trained and certified operators. The SCADA system continuously monitors the water quality which in turn assists the operators to make necessary adjustments to meet or exceed the provincial drinking water quality objectives established by Interior Health as well as federal Canadian Drinking Water Quality objectives. Water distribution work is also carried out by staff certified for their tasks: water main replacement, water service installation, fire hydrant maintenance, valve maintenance and leak detection. Special tasks such as reservoir cleaning and leak detection are undertaken by qualified contractors with the proper equipment and experience to complete the work.



Operations Staff

- Kevin Vilac EOCP Wastewater Treatment III
 - EOCP Water Distribution MU II
 - EOCP Water Treatment MU I
 - EOCP Wastewater Collections MU II
 - BCWWA Chlorine Handling Certificate
 - ABC Class II Wastewater Treatment Professional Operator
- Jessica Sulz EOCP Wastewater Treatment MU I
 - EOCP Water Distribution MU I
 - EOCP Water Treatment MU I
 - EOCP Wastewater Collection MU I
 - BCWWA Chlorine Handling Certificate
- Jeremy Long EOCP Water Treatment MU I
 - EOCP Water Distribution MU I
 - EOCP Small Water System
 - EOCP Small Wastewater System
 - BCWWA Chlorine Handling Certificate
- Tom Harrington EOCP Water Distribution MU II
 - EOCP Wastewater Collection MU II
- Tim Strayer -
- EOCP Water Distribution MU I
 - EOCP Wastewater Treatment MU I
 - BCWWA Chlorine Handling Certificate

Emergency Callouts – 2019

There was a total of 43 emergency callouts in 2019. UV Reactor alarms made up most calls – totaling 12. The other callouts were ten (10) chlorine pump faults, nine (9) communications alarms, six (6) reservoir alarms, five (5) well alarms and one (1) power outage alarm.



Water Leak

Maintenance / Capital Projects – 2019

- Completed and commissioned UV disinfection
- Installed 7 new Chlorine analyzers
- Replaced 5 Hydrants
- Replaced 5 Water main Valves
- Installed Backup Generator at Voght Park
- 271 Weekly water samples



Initiatives - 2020

In 2020 the City will be building a new chlorine storage building. Replace the outdated PLC at Grimmett Reservoir and install UVT meters in all pump houses. The Cross-Connection Control Coordinator will continue to perform facility hazard assessments throughout the City to identify and work closely with owners to install the proper backflow assemblies. With these devices in place, it is a positive step forward in protecting the City's drinking water system.

Future Water Quality

Council has committed to an on-going program to improve quality and fire flow throughout the City through the reduction of dead-end mains and installation of blow off assemblies where they presently do not exist. The City of Merritt has been advised by the Drinking Water Officer to include compliance with the new Drinking Water Regulation standards in any future capital works plans. Replacement or expansion of major parts of the City's water system will have to include provisions to ensure that standards of treatment required by current regulations are achieved.



Conclusion

The City of Merritt Employees work hard in the effort to maintain, ensure proper water usage, monitoring water quantity, monitoring water quality, and educating the public whenever possible. With these goals the City of Merritt should be able to maintain a quality water source and distribution system for many years to come.

This 2019 City of Merritt Water System Report is presented to the public, by way of posting on the City of Merritt website, as required by the British Columbia Drinking Water Protection Act and Regulations, as well as to meet the terms and conditions of the City's Water System Operating Permit (0210617) issued by the Interior Health Drinking Water Officer.

Weekly Tests

- E. Coli & Total Coliforms
- Free Chlorine Residual
- Temperature, Turbidity & Ph

Appendix "A"



APPENDIX 1: SUPPORTING INFORMATION

ROJECT Merritt, City Comprehens			9050072 2019-05-09 17:09
Analysis Description	Method Ref.	Technique	Location
Alkalinity in Water	SM 2320 B* (2011)	Titration with H2SO4	Kelowna
Anions in Water	SM 4110 B (2011)	Ion Chromatography	Kelowna
Coliforms, Total in Water	SM 9222* (2006)	Membrane Fitration / Chromocult Agar	Kelowna
Colour, True in Water	SM 2120 C (2011)	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	SM 2510 B (2011)	Conductivity Meter	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	Kelowna
€. coli i n Water	SM 9222* (2006)	Membrane Filtration / Chromocult Agar	Kelowna
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	Richmond
Hardness in Water	SM 2340 B* (2011)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	N/A
Langelier Index in Water	SM 2330 B (2010)	Calculation	N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	SM 4500-H+ B (2011)	Electrometry	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2011)	Calculation: 100 x ([Cations]-[Anions])/([Cations]+[Anions])	N/A
lotal Metals in Water	EPA 200.2* / EPA 6020B	HNO3+HCI Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	Richmond
Tribulomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	Richmond
Turbidity in Water	SM 2130 B (2011)	Nephelometry	Kelowna
Volatil e Organic Compounds in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	Richmond
into: An asterisk in the Method Ref	erence indicates that the CAR	O method has been modified from the reference method	

Glossary	of	Terms
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Glossary of Ter	ms:
RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
10	Degrees Celcius
$\wedge \gamma$	Aesthetic Objective
UFU/100 mL	Colony Forming Units per 100 millilitres
<1D	Colour Units (referenced against a platinum cobalt standard)
PAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
C.3	Operational Guideline (treated water)
r i units	pH < 7 = acidic, ph > 7 = basic
1 201	Micrograms per litre
7cm	Microsiemens per centimetre
TM	ASTM International Test Methods
LrA	United States Environmental Protection Agency Test Methods
1.1.1	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

Carpage (page Carpage)

Appendix "B"



TEST RESULTS

PROJECT Merritt, Compre	ehensive			WORK ORDER REPORTED	9050072 2019-05-0	9 17:09
Analyte	Resu	ılt Guld	eline RL	Units	Analyzed	Qualif
WT# 1FE5C Grimmet Rese	ervoir (9050072-01) Matrix	: Water Sampl	ed: 2019-04-30 11:25	50000000000000000000000000000000000000	10.00	
Anions						
Chloride	31	0.7 AO ≤	250 0.10) mg/L	2019-05-01	
Fluoride	< 0.	10 MAC			2019-05-01	
Nitrate (as N)	0.6	17 MAC	= 10 0.010	Section Contraction	2019-05-01	
Nitrite (as N)	< 0.0	10 MAC	= 1 0.010) mg/L	2019-05-01	
Sulfate		64 AO ≤		mg/L	2019-05-01	
Calculated Parameters						
Total Trihalomethanes	0.009	63 MAC	= 0.1 0.00400) ma/l	N/A	
Hardness Total (as CaCO3)		97 None R		mg/L	N/A	100
1 angelier Index		0.8 N			2019-05-08	
Solids Total Dissolved		39 AO ≤		mg/L	N/A	
General Parameters			The State of the Control of the Cont			
Alkalmity, Iotal (as CaCO3)	1	84 N	Ά 1.0	mg/L	2019-05-04	
Alkalınıty Phenolphthalein (1.0 N		mg/L	2019-05-04	
Alkalinity Bicarbonate (as C	The second of th	84 N			2019-05-04	
Alkalinity, Carbonate (as Ca	CO3) <	1.0 N	TO 100 TO) mg/L	2019-05-04	A
Alkalinity, Hydroxide (as Cat	CO3) <	1.0 N			2019-05-04	
Colour, True	< !	5.0 AO		2 MM - CO	2019-05-01	
Conductivity (EC)	7	00 N			2019-05-04	
Cyanide Total	< 0.00	20 MAC	= 0.2 0.0020	mg/L	2019-05-02	
рH		.09 7.0-	10.5 0,10	pH units	2019-05-04	HT2
Temperature, at pH	2:	2.5 N	Ά	°C	2019-05-04	HT2
Turbidity		16 OG	< 1 0.10	NTU	2019-05-02	
Haloacetic Acids						
Monochloroacetic Acid	< 0.00	20 N	A 0.0020	mg/L	2019-05-09	
Monobromoacetic Acid	< 0.00			mg/L	2019-05-09	
Dichloroacetic Acid	< 0.00	20 N		mg/L	2019-05-09	
Trichtoroacetic Acid	< 0.00	20 N	The second of th) mg/L	2019-05-09	
Dibromoacetic Acid	< 0.00	20 N		-	2019-05-09	
Intal Haloacetic Acids (HAA	5) < 0.002	00 MAC		1.00	N/A	
Surrogate: 2-Bromopropioni	c Acid 10	05	70-130	and the same of th	2019-05-09	
Microbiological Parameters						
Cotiforms, Total		1 MAC	= 0 1	CFU/100 mL	2019-05-01	
ti. coli		1 MAC	1.7	CFU/100 mL	2019-05-01	
Total Metals						
Aluminum, total	0.01	25 OG -	0.1 0.0050) mg/L	2010 DE C7	
Antimony, total	< 0.000				2019-05-07	
Arsenic, total	0.001				2019-05-07 2019-05-07	1 1/10/11/11
Barium, total	0.09		. 1	mg/L		
Boron, total	0.03	The second second second		mg/L	2019-05-07 2019-05-07	
		711114	3.0000		2010-03-07	





TEST RESULTS

REPORTED TO Merritt, City of Comprehensive

WORK ORDER REPORTED

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
NT# 1FE5C Grimmet Reservoir (905	0072-01) Matrix: Wat	er Sampled: 2019-	04-30 11:25,	Continued		7
Tetal Metals, Continued			* *			
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	ma/L	2019-05-07	
Calcium, total	70.5	None Required		mg/L	2019-05-07	
Chromium total	0.00091	MAC = 0.05	0.00050	-	2019-05-07	
Cobalt, total	< 0.00010	N/A	0.00010	1 mar 1 m	2019-05-07	
Copper total	0.00130	AO ≤ 1	0.00040		2019-05-07	
son total	0.028	AO ≤ 0.3		mg/L	2019-05-07	(4.1.0)
coad, total	< 0.00020	MAC = 0.005	0.00020		2019-05-07	
Magnesium total	29.3	None Required	0.010	The state of the s	2019-05-07	
Manganese, total	0.0238	AO ≤ 0.05	0.00020		2019-05-07	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	THE RESERVE OF THE PARTY OF	2019-05-07	
Molybdenum total	0.00268	N/A	0.00010		2019-05-07	
rlicket, total	< 0.00040	N/A	0.00040		2019-05-07	
Potassium, total	3.61	N/A		mg/L	2019-05-07	
Selentum, total	< 0.00050	MAC = 0.05	0.00050		2019-05-07	
Sodium, total	25.9	AO ≤ 200		mg/L	2019-05-07	
Strontium, total	0.581	N/A	0.0010		2019-05-07	
Ganium, total	0.00244	MAC = 0.02	0.000020		2019-05-07	
Zinc. total	< 0.0040	AO ≤ 5	0.0040		2019-05-07	
menzene Bromodichloromethane	< 0.5 3.5	MAC = 5 N/A	0.5 1.0	µg/L µg/L	2019-05-04 2019-05-04	CT8
dramodichloromethane	0.0030	N/A	0.0010	(A) (Ta) (A)	2019-05-06	
*foreotorm	2.2	N/A		µg/L	2019-05-04	
Soumoform	0.0012	N/A	0.0010		2019-05-06	
Carbon tetrachloride	< 0.5	MAC = 2		μg/L	2019-05-04	
Chlorobenzene	< 1.0	AO ≤ 30	1.0		2019-05-04	
Gillorgethane	< 2.0	N/A	2.0	µg/L	2019-05-04	
Citloraform	1.5	N/A	1.0	µg/L	2019-05-04	
Chiaroform	0.0022	N/A	0.0010		2019-05-06	
. seremochloromethane	0.0032	N/A	0.0010	•	2019-05-06	
Abromochloromethane	4.6	N/A	1.0	µg/L	2019-05-04	
:2-Dipromoethane	< 0.3	N/A	0.3	μg/L	2019-05-04	
Dibromomethane	< 1.0	N/A	1.0	μg/L	2019-05-04	
.2 Dichlorobenzene	< 0.5	AO ≤ 3		μg/L	2019-05-04	
3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2019-05-04	
1-4-Dichlorobenzene	< 1.0	AO ≤ 1		μg/L	2019-05-04	
1-Dichloroethane	< 1.0	N/A	1.0	μg/L μg/L	2019-05-04	
1.2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2019-05-04	
1.1-Dichloroethylene	< 1.0	MAC = 14	1.0	μg/L	2019-05-04	
39-1 2-Dichloroethylene	< 1.0	N/A	1.0	μg/L	2019-05-04	
icans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2019-05-04	
Cichloromethane	< 3.0	MAC = 50			2019-05-04	
1.00	W	iounistes uhau Obyto		µg/L	2019-05-04	





TEST RESULTS

Late and the man through an intelligence		ra secolo — su distant a	- The standard wife	and the second of the second o		
RLPORTED TO Merritt, City of Comprehensive				WORK ORDER REPORTED	9050072 2019-05-0	9 17:09
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
WT# 1FE5C Grimmet Reservoir (9050072-01)	Matrix: Wat	ter Sampled: 2019-0	04-30 11:25,	Continued		
Voiatile Organic Compounds (VOC), Continued						СТ8
1-2-Eachloropropane	< 1.0	N/A	1.0	µg/L	2019-05-04	
3-Dichloropropene (cis + trans)	< 1.0	N/A		µg/L	2019-05-04	
Havit onzene	< 1.0	AO ≤ 1.6		µg/L	2019-05-04	
for thyl tert-butyl ether	< 1.0	AO ≤ 15		µg/L	2019-05-04	
tyre o	< 1.0	N/A		µg/L	2019-05-04	
1.2 Tetrachloroethane	< 0.5	N/A		μg/L	2019-05-04	
iate: alloroethylene	< 1.0	MAC = 10		µg/L	2019-05-04	
Thurse	< 1.0	AO ≤ 24		µg/L	2019-05-04	
1. 1. 1 richloroethane	< 1.0	N/A		µg/L	2019-05-04	
1.1. Trichloroethane	< 1.0	N/A		µg/L	2019-05-04	
Tricheroethylene	< 1.0	MAC = 5		µg/L	2019-05-04	
Trichlorofluoromethane	< 1.0	N/A	1.0	20 T		
`-n,i :::iloride	< 1.0	MAC = 2			2019-05-04	
Aviet is (total)	< 2.0	AO ≤ 20		µg/L	2019-05-04	
5 Prograte: Toluene-d8	78	AU 5 20		µg/L	2019-05-04	
St. Physic. 4-Bromofluorobenzene	94		70-130	The second reserves to the second sec	2019-05-04	
ulo 1,4-Dichlorobenzene-d4	101		70-130 70-130		2019-05-04 2019-05-04	
Win 14 D30 Voght Park VFD (9050072-02) Ma	atrix: Water	Sampled: 2019-04-3	0 10:40			
A,						
C 22 , 40	14.0	AO ≤ 250	0.10	mg/L	2019-05-01	
The entropy	< 0.10	MAC = 1.5		mg/L	2019-05-01	
flor gras N)	0.291	MAC = 10	0.010	The second secon	2019-05-01	
function (as N)	< 0.010	MAC = 1	0.010		2019-05-01	
interior	31.5	AO ≤ 500		mg/L	2019-05-01	
Dr. Seested Parameters				•		
had a less. Total (as CaCO3)	133	None Required	0.500	ma/l	N/A	
Lu Index	0.1	N/A	-5.0	ilig/L	2019-05-08	100000000000000000000000000000000000000
iotal Dissolved	176	AO ≤ 500		mg/L	N/A	
50 ar il Parameters					10/1	
A scriinity, Total (as CaCO3)	118	N/A	1.0	mg/L	2010 05 04	
y, Phenolphthalein (as CaCO3)	< 1.0	N/A		and the second second second second second	2019-05-04	
Bicarbonate (as CaCO3)	118	N/A		mg/L	2019-05-04	
Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2019-05-04	
Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2019-05-04	
lo. True	< 5.0	AO ≤ 15		mg/L	2019-05-04	
C nc. :ctivity (EC)	309	N/A		CU	2019-05-01	1
figurine, Total	< 0.0020	MAC = 0.2		μS/cm	2019-05-04	
; (c)	7.94	7.0-10.5	0.0020		2019-05-02	
	7.34	7.0-10.5	0.10	pH units	2019-05-04	HT2





TEST RESULTS

REPORTED TO Merritt, City of Comprehensive

WORK ORDER REPORTED

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
T# 11D30 Voght Park VFD (905007	72-02) Matrix: Water	Sampled: 2019-04-	30 10:40, Co	ntinued		
neral Parameters, Continued			1	*		
urbidity	0.14	OG < 1	0.10	NTU	2019-05-02	
crobiological Parameters						
Coliforms, Total	< 1	MAC = 0	4	CFU/100 mL	2040 05 04	
i. coli	< 1	MAC = 0		CFU/100 mL	2019-05-01 2019-05-01	
tal Metals				OF OF TOO ME	2013-03-01	
	\$100,000,000					
duminum, total	< 0.0050	OG < 0.1	0.0050		2019-05-07	
Intimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2019-05-07	
rsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2019-05-07	
∃arium, total	0.0603	MAC = 1	0.0050	mg/L	2019-05-07	
foron, total	0.0149	MAC = 5	0.0050	mg/L	2019-05-07	
admium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2019-05-07	
Calcium, total	37.2	None Required	0.20	mg/L	2019-05-07	
>hromium, total	0.00295	MAC = 0.05	0.00050	mg/L	2019-05-07	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2019-05-07	
Copper, total	0.00323	AQ ≤ 1	0.00040		2019-05-07	
on, total	0.029	AO ≤ 0.3	0.010		2019-05-07	
ead, total	0.00024	MAC = 0.005	0.00020	-	2019-05-07	
4agnesium, total	9.66	None Required	0.010	A STATE OF THE STA	2019-05-07	
/anganese, total	0.00030	AO ≤ 0.05	0.00020		2019-05-07	
fercury, total	< 0.000010	MAC = 0.001	0.000010		2019-05-07	
lolybdenum, total	0.00072	N/A	0.00010		2019-05-07	
lickel, total	0.00119	N/A	0.00040	the beautiful to the same of t	2019-05-07	**************************************
otassium, total	1.27	N/A		mg/L	2019-05-07	
elenium, total	< 0.00050	MAC = 0.05	0.00050		2019-05-07	
odium, total	8.41	AO ≤ 200		mg/L		0.00
trontium, total	0.243	N/A		\$100 market (100 m)	2019-05-07	
ranium, total	0.000551	MAC = 0.02	0.0010		2019-05-07	
inc, total	0,0043	MAC = 0.02 AO ≤ 5	0.000020		2019-05-07	
W. V. I		1 + 1		mg/L	2019-05-07	50550 FE
T# 11D2B Voght Park G/E (905007	2-03) Matrix: Water	Sampled: 2019-04-3	U 10:28 —	-		
hloride	=					
luoride	18.8	AO ≤ 250		mg/L	2019-05-01	
titrate (as N)	< 0.10	MAC = 1.5		mg/L	2019-05-01	
- P - P	0.561	MAC = 10	0.010	_	2019-05-01	
itrite (as N)	< 0.010	MAC = 1	0.010	The state of the second st	2019-05-01	
309 E	28.0	AO ≤ 500	1.0	mg/L	2019-05-01	
culated Parameters						
ardness, Total (as CaCO3)	137	None Required	0.500	ma/L	N/A	
ingelier Index	0,07	N/A	-5.0		2019-05-08	
	***		5.0		2019-03-00	





TEST RESULTS

REPORTED TO Merritt, City of Comprehensive

WORK ORDER REPORTED

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
WT# 11D2B Voght Park G/E (9050072-03) Matrix: Water	Sampled: 2019-04-	30 10:28, Co	ntinued		
Calculated Parameters, Continued		3 7	8.0			
Solids, Total Dissolved	176	AO ≤ 500	1.00	mg/L	N/A	
G operal Parameters						
/ukalinity, Total (as CaCO3)	112	N/A	1.0	mg/L	2019-05-04	
Aikalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0		2019-05-04	
Alkalinity, Bicarbonate (as CaCO3)	112	N/A	1.0	mg/L	2019-05-04	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1,0	mg/L	2019-05-04	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2019-05-04	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2019-05-01	
onductivity (EC)	313	N/A	2.0	µS/cm	2019-05-04	
Gyanide, Total	< 0.0020	MAC = 0.2	0.0020		2019-05-02	
рн	7.87	7.0-10.5	and the second second	pH units	2019-05-04	HT2
femperature, at pH	22.3	N/A		°c	2019-05-04	HT2
Turbidity	0.16	OG < 1	0.10	NTU	2019-05-02	
Microbiological Parameters						
oliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2019-05-01	
coli	< 1	MAC = 0		CFU/100 mL	2019-05-01	
T∧tal Metals					20.0000	
Sluminum, total	< 0.0050	OG < 0.1	0.0050	ma/l	2019-05-07	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	N -0	2019-05-07	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	THE COURSE OF TH	2019-05-07	
arium, total	0.0661	MAC = 1	0.0050	100		
oron, total	0.0149	MAC = 5	0.0050	Andrew Control of the	2019-05-07	
admium, total	< 0.000010	MAC = 0.005	0.000010	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2019-05-07	
alcium, total	38.9	None Required	0.20	and a supplied	2019-05-07	
Chromium, total	0.0153	MAC = 0.05	0.00050		2019-05-07	
Cobalt, total	0.00022	N/A	0.00030	_	2019-05-07	
Copper, total	0.00271	AO ≤ 1	0.00040	1000000	2019-05-07	
iron, total	0.117	AO ≤ 0.3	0.010	100	2019-05-07	
_ead, total	0.00021	MAC = 0.005	0.00020		2019-05-07	
Magnesium, total	9.61	None Required	0.00020	and the same of the same	2019-05-07	- seems 6
Manganese, total	0.00084	AO ≤ 0.05			2019-05-07	
Mercury, total	< 0.000010	MAC = 0.001	0.00020		2019-05-07	W. W. W. W. W. W.
Molybdenum, total	0.00055	N/A	0.000010		2019-05-07	
Nickel, total	0.0108	N/A	0.00010		2019-05-07	
Potassium, total	1.18	N/A	0.00040	1. The second se	2019-05-07	
Selenium, total	< 0.00050	MAC = 0.05		mg/L	2019-05-07	
Sodium, total	8.43	AO ≤ 200	0.00050		2019-05-07	
Strontium, total	0.43	The state of the s	0.10	mg/L	2019-05-07	
Uranium, total		N/A	0.0010		2019-05-07	
Zinc, total	0.000439	MAC = 0.02	0.000020		2019-05-07	
	0.0042	AO ≤ 5	0.0040	mg/L	2019-05-07	



TEST RESULTS

REPORTED TO Merritt, City of Comprehensive

WORK ORDER

9050072

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
WT# 11D2B Voght Park G/E (9050072-03)	Matrix: Water	Sampled: 2019-04-3	30 10:28, Co	ntinued		1224 12300
Calculated Parameters, Continued					- 2.00	
Solids, Total Dissolved	176	AO ≤ 500	1.00	mg/L	N/A	
Gineral Parameters						
Aikalinity, Total (as CaCO3)	112	N/A	1.0	mg/L	2019-05-04	
Aikalinity, Phenolphthalein (as CaCO3)	< 1,0	N/A		mg/L	2019-05-04	
Alkalinity, Bicarbonate (as CaCO3)	112	N/A		mg/L	2019-05-04	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2019-05-04	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2019-05-04	
olour, True	< 5.0	AO ≤ 15		CU	2019-05-04	
onductivity (EC)	313	N/A	2.0		2019-05-01	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	25	2019-05-02	
На	7.87	7.0-10.5	0.10			HT2
Temperature, at pH	22.3	N/A	0.10	°C	2019-05-04	
Furbidity	0.16	0G < 1	0.10	NTU	2019-05-04	HT2
Microbiological Parameters	0.10	00 1	0.10	NIO	2019-05-02	
oliforms. Total	< 1	MAC = 0		CFU/100 mL	0040 05 04	
coli	< 1	MAC = 0		CFU/100 mL	2019-05-01	
		WAC - U	1	CF0/100 ML	2019-05-01	
Total Metals						
Sluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2019-05-07	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2019-05-07	
\rsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2019-05-07	
arium, total	0.0661	MAC = 1	0.0050	A STATE OF THE PARTY OF THE PAR	2019-05-07	
oron, total	0.0149	MAC = 5	0.0050	mg/L	2019-05-07	
admium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2019-05-07	
alcium, total	38.9	None Required		mg/L	2019-05-07	
Chromium, total	0.0153	MAC = 0.05	0.00050	ma/L	2019-05-07	
Cobalt, total	0.00022	N/A	0.00010	mg/L	2019-05-07	
Copper, total	0.00271	AO ≤ 1	0.00040	mg/L	2019-05-07	
Iron, total	0.117	AO ≤ 0.3	0.010		2019-05-07	
_ead, total	0.00021	MAC = 0.005	0.00020		2019-05-07	******
Magnesium, total	9.61	None Required	0.010	mg/L	2019-05-07	
Manganese, total	0.00084	AO ≤ 0.05	0.00020	mg/L	2019-05-07	
Mercury, total	< 0.000010	MAC = 0.001	0.000010		2019-05-07	
Jolybdenum, total	0.00055	N/A	0.00010	-	2019-05-07	
Nickel, total	0.0108	N/A	0.00040		2019-05-07	
Potassium, total	1.18	N/A		mg/L	2019-05-07	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2019-05-07	
Sodium, total	8.43	AO ≤ 200	0.10	mg/L	2019-05-07	
Strontium, total	0.261	N/A	0.0010	mg/L	2019-05-07	
Uranium, total	0.000439	MAC = 0.02	0.000020		2019-05-07	
Zinc, total	0.0042	AO ≤ 5	0.0040		2019-05-07	



TEST RESULTS

REPORTED TO Merritt, City of PROJECT

Comprehensive

WORK ORDER REPORTED

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
√T# 11D29 Colletteville Pump House (9	050072-04) M atri	x: Water Sampled:	2019-04-30	09:56		
nions	W. 92552		, , , , , , , , , , , , , , , , , , ,			
Chloride	15.8	AO ≤ 250	0.10	mg/L	2019-05-01	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2019-05-01	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Nitrate (as N)	0.189	MAC = 10	0.010	mg/L	2019-05-01	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2019-05-01	
Sulfate	57.9	AO ≤ 500	1.0	mg/L	2019-05-01	
ulculated Parameters						
Hardness, Total (as CaCO3)	190	None Required	0.500	mg/L	N/A	
Langelier Index	0.5	N/A	-5.0	The second secon	2019-05-08	
Solids, Total Dissolved	250	AO ≤ 500	1.00	mg/L	N/A	
eneral Parameters						
Alkalinity, Total (as CaCO3)	155	N/A	1.0	mg/L	2019-05-04	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2019-05-04	
Alkalinity, Bicarbonate (as CaCO3)	155	N/A		mg/L	2019-05-04	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	A. M. Marie E.	mg/L	2019-05-04	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2019-05-04	
Colour, True	< 5.0	AO ≤ 15		CÜ	2019-05-01	
Conductivity (EC)	405	N/A	2.0	µS/cm	2019-05-04	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2019-05-02	
рН	8.03	7.0-10.5	0.10	pH units	2019-05-04	HT2
Temperature, at pH	20.9	N/A		°C	2019-05-04	HT2
Turbidity	4.60	OG < 1	0.10	NTU	2019-05-02	
icrobiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2019-05-01	
E. coli	< 1	MAC = 0		CFU/100 mL	2019-05-01	
otal Metals		A MANUAL DESIGNATION OF THE PARTY OF THE PAR	****		2010-00-01	
Aluminum, total	< 0.0050	OG < 0.1	0.0050	ma/l	2040 05 07	
Antimony, total	< 0.00020	MAC = 0.006	0.0000		2019-05-07	
Arsenic, total	< 0.00050	MAC = 0.000	0.00020		2019-05-07	322 3
Barium, total	0.0591	MAC = 1	0.0050	A CHARLES A CO.	2019-05-07	
Boron, total	0.0196	MAC = 5	0.0050	Company of the second s	2019-05-07	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	0.000.00	2019-05-07	
Calcium, total	49.8	None Required		mg/L	2019-05-07	
Chromium, total	0.00089	MAC = 0.05	0.00050		2019-05-07	
Cobalt, total	< 0.00010	N/A	0.00030	The second second	2019-05-07	
Copper, total	0.00079	AO ≤ 1	0.00010		2019-05-07	
Iron, total	0.233	AO ≤ 0.3	0.00040		2019-05-07	
Lead, total	< 0.00020	MAC = 0.005	0.00020		2019-05-07	
Magnesium, total	15.8	None Required	0.00020		2019-05-07	
Manganese, total	0.00329	AO ≤ 0.05	0.00020	100 Carlot - 100 C	2019-05-07	
Mercury, total	< 0.000010	MAC = 0.001		V30-000 - C-0100	2019-05-07	
The second secon		out Results, Obvic	0.000010	mg/L	2019-05-07	4 6 6 6 6 6 6 6



EST RESULTS

REPORTED TO Merritt, City of

WORK ORDER 9050072

### 11D29 Colletteville Pump House (9050072-04) Matrix: Water Sampled: 2019-04-30 09:56, Continued **Total Metals, Continued** Molybdenum, total		Comprehensive				WORK ORDER REPORTED	9050072 2019-05-0	9 17:09
Nickel, total	Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
Molybdenum, total 0.00174 N/A 0.00010 mg/L 2019-05-0 Nickel, total < 0.00040 N/A 0.00040 mg/L 2019-05-0 Nickel, total < 2.05 N/A 0.100 mg/L 2019-05-0 Selentium, total < 0.00050 MAC = 0.05 0.00050 mg/L 2019-05-0 Selentium, total 13.4 AO ≤ 200 0.10 mg/L 2019-05-0 Strontium, total 0.323 N/A 0.0010 mg/L 2019-05-0 Nickel Nick		eville Pump House (90	50072-04) Matrix	: Water Sampled:	2019-04-30	09:56,		•
Nicket, total	Total Metals, Continu	red						
Nickel, total	Molybdenum, total		0.00174	N/A	0.00010	mg/L	2019-05-07	
Potassium total 2.05 N/A 0.10 mg/L 2019-05-0 Selentium total < 0.00050 MAC = 0.05 0.00050 mg/L 2019-05-0 Todium total 13.4 AO ≤ 200 0.10 mg/L 2019-05-0 2019-05-0 2019-05-1 2019-05-0 2019-05-1 2019-05-0 2019-05-1 2019-05-0 2019-05-1 2019-05-0 2019-05-1 2019-05-1 2019-05-0 2019-05-1 2019-05	Nickel, total					(100)		
Selentium total	Potassium total	***************************************	2.05	N/A		- 337.53		
13.4 AO ≤ 200 0.10 mg/L 2019-05-0 2019-05	Selenium, total		< 0.00050	MAC = 0.05		10-0	2019-05-07	
Stronfium, total 0.323	Sodium, total		13.4	AO ≤ 200		101 101 100	2019-05-07	
Uranium total 0.00134 MAC = 0.02 0.000020 mg/L 2019-05-0 Zinc, total < 0.0040 AO ≤ 5 0.0040 mg/L 2019-05-0 Zinc, total < 0.0040 AO ≤ 5 0.0040 mg/L 2019-05-0 Zinc, total < 0.0040 AO ≤ 5 0.0040 mg/L 2019-05-0 Zinc, total Zinc, tota	Strontium, total		0.323	N/A		10.100 - 0	2019-05-07	
Zinc, total < 0.0040 AO ≤ 5 < 0.0040 mg/L < 2019-05-00 277# 11D2A Fairley Pump House (9050072-05) Matrix: Water Sampled: 2019-04-30 09:38 38 2000	Uranium, total		0.00134	MAC = 0.02		CONTRACTOR OF THE PARTY OF THE		
Chloride 70.5 AO ≤ 250 0.10 mg/L 2019-05-0 Fluoride < 0.10 MAC = 1.5 0.10 mg/L 2019-05-0 Nitrate (as N) 2.07 MAC = 10 0.010 mg/L 2019-05-0 Nitrate (as N) < 0.010 MAC = 1 0.010 mg/L 2019-05-0 Sulfate 45.9 AO ≤ 500 1.0 mg/L 2019-05-0 Heutated Parameters Harmess, Total (as CaCO3) 245 None Required 0.500 mg/L N/A 2019-05-0 Solis, Total Dissolved 342 AO ≤ 500 1.00 mg/L N/A N/A 2019-05-0 Mg/L M	Zinc, total		< 0.0040	AO ≤ 5	0.0040	mg/L	2019-05-07	
Chloride 70.5 AO ≤ 250 0.10 mg/L 2019-05-0 Fluoride < 0.10	√T# 11D2A Fairley	Pump House (905007	2-05) Matrix: Wa	ter Sampled: 2019	9-04-30 09:38			
Fluoride	nions							
Fluoride	Chloride		70.5	AO ≤ 250	0.10	ma/L	2019-05-01	
Nitrate (as N)	Fluoride		< 0.10	TO SHOW THE PARTY AND THE PART				
Nitrite (as N)	Nitrate (as N)		2.07	MAC = 10		the second secon		
Suitable 45.9 AO ≤ 500 1.0 mg/L 2019-05-00 iduated Parameters Harmoss, Total (as CaCO3) 245 None Required 0.50 mg/L N/A Langelier Index 0.5 N/A -5.0 2019-05-05 Sollus, Total Dissolved 342 AO ≤ 500 1.00 mg/L 2019-05-05 Sollus, Total Parameters Alkadinity, Total (as CaCO3) 171 N/A 1.0 mg/L 2019-05-06 Alkadinity, Phenolphthalein (as CaCO3) 171 N/A 1.0 mg/L 2019-05-06 Alkadinity, Phenolphthalein (as CaCO3) 171 N/A 1.0 mg/L 2019-05-06 Alkadinity, Phenolphthalein (as CaCO3) 171 N/A 1.0 mg/L 2019-05-06 Alkadinity, Phenolphthalein (as CaCO3) 171 N/A 1.0 mg/L 2019-05-06 Alkadinity, Phenolphthalein (as CaCO3) 171 N/A 1.0 mg/L 2019-05-06 Alkadinity, Total (as CaCO3) 171 N/A 1.0 mg/L 2019-05-06 Alkadinity, Hydroxide (as CaCO3) 4.1 0 N/A </td <td>Nitrite (as N)</td> <td></td> <td>< 0.010</td> <td>MAC = 1</td> <td></td> <td></td> <td>C 10 (1000) 1 (1)</td> <td></td>	Nitrite (as N)		< 0.010	MAC = 1			C 10 (1000) 1 (1)	
Haramess Total (as CaCO3) 245 None Required 0.500 mg/L N/A	Sulfate		45.9	AO ≤ 500				
Langelier Index 0.5 N/A -5.0 2019-05-00 Sollus, Total Dissolved 342 AO ≤ 500 1.00 mg/L N/A eneral Parameters Alkanity, Total (as CaCO3) 171 N/A 1.0 mg/L 2019-05-00 Alkanity, Phenolphthalein (as CaCO3) 1.10 N/A 1.0 mg/L 2019-05-00 Alkanity, Carbonate (as CaCO3) 1.10 N/A 1.0 mg/L 2019-05-00 Alkanity, Hydroxide (as CaCO3) 1.0 N/A 1.0 mg/L 2019-05-00 Alkanity, Hydroxide (as CaCO3) 1.0 N/A 1.0 mg/L 2019-05-00 Collur, True < 5.0 AO ≤ 15	deutated Paramete	rs			The section of the section of	Secretary Secretary		
Langelier Index 0.5 N/A -5.0 2019-05-00 Sollus, Total Dissolved 342 AO ≤ 500 1.00 mg/L N/A eneral Parameters Alkanity, Total (as CaCO3) 171 N/A 1.0 mg/L 2019-05-00 Alkanity, Phenolphthalein (as CaCO3) 1.10 N/A 1.0 mg/L 2019-05-00 Alkanity, Carbonate (as CaCO3) 1.10 N/A 1.0 mg/L 2019-05-00 Alkanity, Hydroxide (as CaCO3) 1.0 N/A 1.0 mg/L 2019-05-00 Alkanity, Hydroxide (as CaCO3) 1.0 N/A 1.0 mg/L 2019-05-00 Collur, True < 5.0 AO ≤ 15	Harriness, Total (as	CaCO3)	245	None Required	0.500	ma/t	N/Δ	
Solius, Total Dissolved 342 AO ≤ 500 1.00 mg/L N/A				- 201404.4		gr _		
Alkalinity, Total (as CaCO3) 171 N/A 1.0 mg/L 2019-05-0-05-05-05-05-05-05-05-05-05-05-05-0	Solius, Total Dissolve	ed			201 100	ma/l		
Alkannity, Phenolphthalein (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0-04 2019-05-0-05 2019-05-05 201	eneral Parameters							
Alkamity, Phenolphthalein (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0. Alkamity, Bicarbonate (as CaCO3) 171 N/A 1.0 mg/L 2019-05-0. Alkamity, Bicarbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0. Alkamity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0. Alkamity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0. Colour, True < 5.0 AO ≤ 15 5.0 CU 2019-05-0. Colour, True < 5.0 AO ≤ 15 5.0 CU 2019-05-0. Conductivity (EC) 606 N/A 2.0 μS/cm 2019-05-0. Cymide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2019-05-0. Ten retature at pH 7.89 7.0-10.5 0.10 pH units 2019-05-0. Ten retature at pH 21.0 N/A "C 2019-05-0. Turn dity < 0.10 OG < 1 0.10 NTU 2019-05-0. **Alkamity, Hydroxide (as CaCO3)	Alkolinity Total (se C	:=CO3/	474	A1/A				
Alk nity, Bicarbonate (as CaCO3) 171 N/A 1.0 mg/L 2019-05-0. Alk nity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0. Alk nity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0. Alk nity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0. Colour, True < 5.0 AO ≤ 15 5.0 CU 2019-05-0. Conductivity (EC) 606 N/A 2.0 µS/cm 2019-05-0. Cynide, Total <0.0020 MAC = 0.2 0.0020 mg/L 2019-05-0. Cynide, Total <0.0020 MAC = 0.2 0.0020 mg/L 2019-05-0. Here crature, at pH 21.0 N/A °C 2019-05-0. Tun, dity <0.10 OG < 1 0.10 NTU 2019-05-0. Microbiological Parameters Colourns, Total <1 MAC = 0 1 CFU/100 mL 2019-05-0. Mac = 0.1 MAC = 0 1 CFU/100 mL 2019-05-0. Mac = 0.1 MAC = 0 1 CFU/100 mL 2019-05-0.						177		
Alk bity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0. Alk bity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0. Alk bity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0. Colcut, True < 5.0 AO ≤ 15 5.0 CU 2019-05-0. Conductivity (EC) 606 N/A 2.0 μS/cm 2019-05-0. Cyride, Total <0.0020 MAC = 0.2 0.0020 mg/L 2019-05-0. pH 7.89 7.0-10.5 0.10 pH units 2019-05-0. Ten crature at pH 21.0 N/A °C 2019-05-0. Turn dity <0.10 OG < 1 0.10 NTU 2019-05-0. Microbiological Parameters Col orms, Total < 1 MAC = 0 1 CFU/100 mL 2019-05-0. Mac 44a/s						4 4 60 40 40 40 40 40 40 40 40 40 40 40 40 40	COMMERCIAL CO.	
Alk enity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2019-05-0-05-00								
Colour, True < 5.0 AO ≤ 15 5.0 CU 2019-05-00 Coludativity (EC) 606 N/A 2.0 µS/cm 2019-05-00 Cyllide, Total < 0.0020		The second secon						
Conductivity (EC) 606 N/A 2.0 µS/cm 2019-05-00 Сум ide, Total < 0.0020		(40 414 00)						
Cyride, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2019-05-00 mg/L ρH 7.89 7.0-10.5 0.10 pH units 2019-05-00 mg/L Ten crature, at pH 21.0 N/A °C 2019-05-00 mg/L Turn, dity < 0.10				THE RESERVE OF THE PARTY OF THE	THE RESIDENCE TO SECURE			
PH 7.89 7.0-10.5 0.10 pH units 2019-05-0- Ten erature at pH 21.0 N/A °C 2019-05-0- Turn dity < 0.10 OG < 1 0.10 NTU 2019-05-0- **Title biological Parameters** Col prins, Total < 1 MAC = 0 1 CFU/100 mL 2019-05-0- ### 1 MAC = 0 1 CFU/100 mL 2019-05-0- #### 1 MAC = 0 1 CFU/100 mL 2019-05-0- #### 1 MAC = 0 1 CFU/100 mL 2019-05-0- ################################	15 17 16 1					ALCOHOLD STREET		
Ten perature, at pH 21.0 N/A °C 2019-05-06 Tun dity < 0.10 OG < 1 0.10 NTU 2019-05-06 **Microbiological Parameters** Col prins, Total < 1 MAC = 0 1 CFU/100 mL 2019-05-06 E. di						10 / 10 / 10 - 10 / 10 / 10 / 10 / 10 /		HT2
Turn dity < 0.10 OG < 1 0.10 NTU 2019-05-05 Micro-fological Parameters Col ∋rms, Total < 1					0.10	CONTRACTOR OF THE PARTY OF THE		
### MAC = 0 1 CFU/100 mL 2019-05-00	33	The course of			0.10	2.5	2019-05-04	HT2
	⁄licr⇔iological Parai	neters						
E. C. II. < 1 MAC = 0 1 CFU/100 mL 2019-05-0 Star Metals	Col ∋rms, Total		< 1	MAC = 0	1	CFU/100 ml	2019-05-01	
ota detals	£.ε n				the state of the s			
Also, hum total 50,0050 OC 50.1 0,0050 mm/s	Mar Metals	100000					-5,10,00,01	
	Alia inum, total		< 0.0050	OG < 0.1	0.0050	ma/l	2010 05 67	
A.: and total						The state of the s	2019-05-07 2019-05-07	*****



TEST RESULTS

REPORTED TO PROJECT

Merritt, City of Comprehensive

WORK ORDER 9050072 REPORTED

Completiensive				REPORTED	2019-05-0	9 17:09
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
T# 11D2A Fairley Pump House (90500	72-05) Matrix: Wa	ater Sampled: 2019	9-04-30 09:38	3, Continued	4.50	
atal Metals, Continued			107.532			
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	ma/L	2019-05-07	
Barium, total	0.145	MAC = 1	0.0050		2019-05-07	W-W 201-70
Borin, total	0.0209	MAC = 5	0.0050	901111 M. P. C. C.	2019-05-07	
Cadmium, total	0.000015	MAC = 0.005	0.000010	THE R. LEWIS CO., LANSING, MICH. LANSING, MICH. 49-140-140-140-140-140-140-140-140-140-140	2019-05-07	
Calcium, total	67.3	None Required		mg/L	2019-05-07	
Chromium, total	0.00098	MAC = 0.05	0.00050		2019-05-07	
Cot alt, total	< 0.00010	N/A	0.00010	1000 - 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2019-05-07	
Copper, total	0.00455	AO ≤ 1	0.00040	A C. M. SERVICE AND DESCRIPTION OF THE PARTY	2019-05-07	
Iro:., total	< 0.010	AO ≤ 0.3	0.010	* T	2019-05-07	
Leud, total	< 0.00020	MAC = 0.005	0.00020	Charles and the contract of th	2019-05-07	***
Magnesium, total	18.7	None Required	0.010		2019-05-07	
Manganese, total	< 0.00020	AO ≤ 0.05	0.00020	190,00	2019-05-07	
Accounty, total	< 0.000010	MAC = 0.001	0.000010		2019-05-07	
Morradenum, total	0.00037	N/A	0.00010	mg/L	2019-05-07	
Note of, total	< 0.00040	N/A	0.00040	mg/L	2019-05-07	
Pot assium, total	1.87	N/A	0.10	mg/L	2019-05-07	
Seimium, total	< 0.00050	MAC = 0.05	0.00050	and the same of th	2019-05-07	
Socium, total	24.3	AO ≤ 200		mg/L	2019-05-07	
Strentium, total	0.561	N/A	0.0010	TO THE PARTY OF TH	2019-05-07	
Junium, total	0.000996	MAC = 0.02	0.000020		2019-05-07	
Lim- , total	0.0040	AO ≤ 5	0.0040	mg/L	2019-05-07	
VT# 272CD Kengard Pump House (9050	0072-06) Matrix: \	Water Sampled: 20	19-04-30 11:	05		
nions Chillide		Nation Reserved				
Flacide	6.55	AO ≤ 250		mg/L	2019-05-01	
Commence of	0.12	MAC = 1.5		mg/L	2019-05-01	
Vitrate (as N)	< 0.010	MAC = 10	0.010		2019-05-01	
Strite (as N)	< 0.010	MAC = 1	0.010	The state of the s	2019-05-01	
tr ate	294	AO ≤ 500	1.0	mg/L	2019-05-01	
alculated Parameters						
la: Iness, Total (as CaCO3)	431	None Required	0.500	mg/L	N/A	
La gelier Index	1.1	N/A	-5.0		2019-05-08	
is, Total Dissolved	620	AO ≤ 500		mg/L	N/A	
neral Parameters				- 1. manuar	yan marka	* ** \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Alkalinity, Total (as CaCO3)	222	N/A	1.0	mg/L	2019-05-04	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2019-05-04	
Alkalinity, Bicarbonate (as CaCO3)	222	N/A		mg/L	2019-05-04	
Alk. linity, Carbonate (as CaCO3)	< 1.0	N/A	5405 March 40 M 50 M	mg/L	2019-05-04	
linity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2019-05-04	
Colour, True	< 5.0	AO ≤ 15		CU	2019-05-01	
77.7 P. M. J. W. 200.7 P. M.	COT No. +60. COLOCOS STrings on accompany	oon Results, Otivio			2019-05-01	



TEST RESULTS

PROJECT

REPORTED TO Merritt, City of Comprehensive WORK ORDER

REPORTED

9050072 2019-05-09 17:09

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
/T# 272CD Kengard Pump House	(9050072-06) Matrix: \	Water Sampled: 20	19-04-30 11:	05, Continued		
eneral Parameters, Continued						
Conductivity (EC)	913	N/A	2.0	µS/cm	2019-05-04	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020		2019-05-02	
pH	8.20	7.0-10.5		pH units	2019-05-04	HT2
Temperature, at pH	21.2	N/A		°C	2019-05-04	HT2
Turbidity	0.18	OG < 1	0.10	NTU	2019-05-02	1112
crobiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2019-05-01	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2019-05-01	
otal Metals		The state of the s				
Aluminum, total	< 0.0050	OG < 0.1	0.0050	ma/L	2019-05-07	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2019-05-07	
vrsenic, total	0.00295	MAC = 0.01	0.00050	1000 Marie - 000 Local	2019-05-07	
Barium, total	0.0746	MAC = 1	0.0050		2019-05-07	
Boron, total	0.0550	MAC = 5	0.0050		2019-05-07	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010		2019-05-07	
Calcium, total	92.1	None Required	Caraca a Co.	mg/L	2019-05-07	
Chromium, total	0.00075	MAC = 0.05	0.00050		2019-05-07	
Cobalt, total	< 0.00010	N/A	0.00010	W. C. Constitution and the second	2019-05-07	
Copper, total	0.00168	AO ≤ 1	0.00040		2019-05-07	
ron, total	0.046	AO ≤ 0.3	0.010	mg/L	2019-05-07	
ead, total	< 0.00020	MAC = 0.005	0.00020	ma/L	2019-05-07	
്യgnesium, total	48.8	None Required	0.010	CONTRACTOR OF THE PARTY OF THE	2019-05-07	
Janganese, total	0.116	AO ≤ 0.05	0.00020		2019-05-07	taran -
Mercury, total	< 0.000010	MAC = 0.001	0.000010		2019-05-07	
Aolybdenum, total	0.00562	N/A	0.00010	10000	2019-05-07	
lickel, total	< 0.00040	N/A	0.00040		2019-05-07	
otassium, total	5.98	N/A		mg/L	2019-05-07	
elenium, total	< 0.00050	MAC = 0.05	0.00050		2019-05-07	
dium, total	37.6	AO ≤ 200		mg/L	2019-05-07	(100,000,000)
arontium, total	0.787	N/A	0.0010	2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	2019-05-07	
Jranium, total	0.00453	MAC = 0.02	0.000020	7777 - C.	2019-05-07	
Jinc, total	< 0.0040	AO ≤ 5	0.0040		2019-05-07	

Headspace in sample container is greater than 5% volume - VOC results may be compromised

The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.



TEST RESULTS

REPORTED TO Merritt, City of Comprehensive

WORK ORDER REPORTED

Completiensive	Y-0			REPORTED	2019-05-0	9 17:09
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
/T# 11D2A Fairley Pump House (90500	72-05) Matrix: Wa	ter Sampled: 2019	-04-30 09:38	3, Continued		
stal Metals, Continued			8	100	-0.5 W	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2019-05-07	
Barium, total	0.145	MAC = 1	0.0050	mg/L	2019-05-07	
Borin, total	0.0209	MAC = 5	0.0050	mg/L	2019-05-07	
Cadmium, total	0.000015	MAC = 0.005	0.000010		2019-05-07	
Caldium, total	67.3	None Required	0.20	mg/L	2019-05-07	
hromium, total	0.00098	MAC = 0.05	0.00050	10 10	2019-05-07	
Cot alt, total	< 0.00010	N/A	0.00010	mg/L	2019-05-07	
Copp er, total	0.00455	AO ≤ 1	0.00040		2019-05-07	
Iron, total	< 0.010	AO ≤ 0.3	0.010		2019-05-07	
Lead, total	< 0.00020	MAC = 0.005	0.00020		2019-05-07	
Magn esium, total	18.7	None Required	0.010		2019-05-07	
Mar ganese, total	< 0.00020	AO ≤ 0.05	0.00020	10.7	2019-05-07	
Jernury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2019-05-07	
Macadenum, total	0.00037	N/A	0.00010		2019-05-07	
the of, total	< 0.00040	N/A	0.00040		2019-05-07	
Polis sium, total	1.87	N/A		mg/L	2019-05-07	
Seienium, total	< 0.00050	MAC = 0.05	0.00050		2019-05-07	
Soc.um, total	24.3	AO ≤ 200		mg/L	2019-05-07	
Strentium, total	0.561	N/A	0.0010	W. C. C. C.	2019-05-07	
his ium, total	0.000996	MAC = 0.02	0.000020	1011 (1011 1011 1011 1011 1011 1011 101	2019-05-07	
im a total	0.0040	AO ≤ 5	0.0040		2019-05-07	
Tr 272CD Kengard Pump House (9050	0072-06) Matrix: V	Vater Sampled: 20	19-04-30 11:	05		n - 46
Ohl ide		10 - 050	72.12	_		
1 ride	6.55	AO ≤ 250		mg/L	2019-05-01	
fittine (as N)	0.12	MAC = 1.5		mg/L	2019-05-01	
dirite (as N)	< 0.010	MAC = 10	0.010	•	2019-05-01	
'ate	< 0.010	MAC = 1	0.010	1-10470 W	2019-05-01	
ate ate	294	AO ≤ 500	1.0	mg/L	2019-05-01	
alculated Parameters						
nemateu Farameters						
da: Iness, Total (as CaCO3)	431	None Required	0.500	mg/L	N/A	
ta: Iness, Total (as CaCO3)	431 1.1	None Required N/A	0.500 -5.0	mg/L		
ta: Iness, Total (as CaCO3)			-5.0	mg/L	N/A 2019-05-08 N/A	1105 250
da: Iness, Total (as CaCO3) .a neller Index ਹਾਂ ਭ੍ਰਿ Total Dissolved	1.1	N/A	-5.0		2019-05-08	
daciness, Total (as CaCO3) n nelier Index ಲಿ is Total Dissolved waral Parameters	1.1	N/A	-5.0 10.0	mg/L	2019-05-08 N/A	
taciness, Total (as CaCO3) amelier Index off is, Total Dissolved maral Parameters Middlinity, Total (as CaCO3)	1.1 620	N/A AO ≤ 500	-5.0 10.0	mg/L	2019-05-08 N/A 2019-05-04	
datiness, Total (as CaCO3) an nelier Index and is, Total Dissolved coral Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3)	1.1 620 222	N/A AO ≤ 500 N/A	-5.0 10.0 1.0 1.0	mg/L mg/L mg/L	2019-05-08 N/A 2019-05-04 2019-05-04	
daciness, Total (as CaCO3) In melier Index India Total Dissolved India India Total (as CaCO3) Alkolinity, Phenolphthalein (as CaCO3) Alkolinity, Phenolphthalein (as CaCO3)	1.1 620 222 < 1.0	N/A AO ≤ 500 N/A N/A	-5.0 10.0 1.0 1.0 1.0	mg/L mg/L mg/L mg/L	2019-05-08 N/A 2019-05-04 2019-05-04 2019-05-04	
daciness, Total (as CaCO3) In melier Index India Total Dissolved India India Total (as CaCO3) Alkolinity, Phenolphthalein (as CaCO3) Alkolinity, Phenolphthalein (as CaCO3)	1.1 620 222 < 1.0 222	N/A AO ≤ 500 N/A N/A N/A	-5.0 10.0 1.0 1.0 1.0	mg/L mg/L mg/L mg/L mg/L	2019-05-08 N/A 2019-05-04 2019-05-04 2019-05-04	
Har Iness, Total (as CaCO3) An effect Index Total Dissolved Total Parameters Alkalinity, Total (as CaCO3) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Bicarbonate (as CaCO3)	1.1 620 222 < 1.0 222 < 1.0	N/A AO ≤ 500 N/A N/A N/A N/A	-5.0 10.0 1.0 1.0 1.0 1.0	mg/L mg/L mg/L mg/L	2019-05-08 N/A 2019-05-04 2019-05-04 2019-05-04	