

Waterworks Compliance Inspection - Human Consumptive Use (Part I)

System Name: WEYBURN UTILITY BOARD WATERWORKS PIPELINE
Remote Inspection ID: 1166298

Approval No: 00051855-02-00

Population: 1000
Announced: Yes

Date: 13-MAR-2020 09:30
Person Interviewed: FELLNER, LORRAINE

General Section

Water Supplies in Service : PIPELINE (SURFACE)
System Classification: NONE WT ONE WD

of Service Connections: 335
System Type: PIPELINE CONNECTED TO MUNICIPAL SYSTEM

Service Connection Metering: Yes
Source Inspection Completed: No

Comments:

Contacts

Name	Position	Phone / Fax	Email
BALL, RAY	CERTIFIED OPERATOR	Business: (306) 842-3444	N/A
FELLNER, RON	MANAGER	Cell: (306) 891-9711	WUBMANAGER@SASKTEL.NET
SMOLINSKI, JENNA	ADMINISTRATOR	Business: (306) 842-2314	WUB@SASKTEL.NET
FELLNER, LORRAINE	MANAGER	Phone: (306) 891-9711	WUBMANAGER@SASKTEL.NET
Complaints:			
N/A			

Operator Certification Section

Operator Name	Certification Levels		Expiry Date	Operator is a Supervisor
	Water Distribution	Water Treatment		
BALL, RAY	ONE	NONE	15-SEP-2019	Yes

Test Results

Station #	Sample ID	Location/Comments	Variable	Flag	Measurement	Qualifier
SK05NB0094	2020067095	WEST PUMPHOUSE	CHLORINE (FREE)	N/A	0.170 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	0.890 mg/l	N/A
"	"	"	TURBIDITY	N/A	1.120 NTU	N/A
"	2020067096	VITERRA - BACTI TAKEN	CHLORINE (FREE)	L	0.020 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	0.600 mg/l	N/A
"	"	"	TURBIDITY	N/A	1.070 NTU	N/A
SK05NB0095	2020067097	NORTH PUMPHOUSE	CHLORINE (FREE)	N/A	0.420 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.170 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.400 NTU	N/A
"	2020067098	PROBE RESIDENCE - BACTI TAKEN	CHLORINE (FREE)	N/A	0.130 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	0.830 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.350 NTU	N/A
SK05NB0093	2020067099	EAST PUMPHOUSE	CHLORINE (FREE)	N/A	0.480 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.180 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.290 NTU	N/A
"	2020067100	CUGNET RESIDENCE - BACTI TAKEN	CHLORINE (FREE)	L	0.020 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	0.440 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.200 NTU	N/A
SK05NB0096	2020067101	SOUTH PUMPHOUSE	CHLORINE (FREE)	N/A	0.670 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.460 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.160 NTU	N/A
"	2020067102	FELLNER RESIDENCE - BACTI TAKEN	CHLORINE (FREE)	L	0.020 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	0.360 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.240 NTU	N/A

Equipment Validation

Chlorine

Equipment Type	Equipment Name/Number	STD1 (Expected, Test)	STD2 (Expected, Test)	STD3 (Expected, Test)	Result
PC II	SOUTH LINE ANALYZER	(0.22, 0.22)	(0.89, 0.92)	(1.60, 1.65)	GOOD

Comment: WITHIN SPECS,

Human Consumptive Regulatory Section C=Compliant NC=Non-Compliant N/A=Not Applicable

C	NC	NA	General	Comments
X			Valid permit to operate and/or construct EMPA2010 24(1)	
	X		Certified operator WWSW 62	CERTIFIED OPERATOR'S CERTIFICATION HAS EXPIRED. MUST EITHER HAVE RENEWED OR A CONTRACT WITH A NEW OPERATOR BY APRIL 30TH, 2020.
X			Valid water rights license EMPA2010 29(1)	WRL 14209 - C001, C002, C003, C004
		X	Copy of permit posted at waterworks EMPA2010 29(1)	NO WTP EXISTS.
			Distribution System	
X			Disinfection of new and repaired pipelines WWSW 23(4)& 27(4)	
			Water Treatment Plants and Pumphouses	
X			Backflow prevention device on treatment component WWSW 25(c)	ALL CONNECTIONS TO THE SYSTEM HAVE DOUBLE CHECK VALVES ON THEM ALONG WITH AN AIR GAP INTO THEIR INDIVIDUAL STORAGE TANKS.
X			Water meter(s) installed in WTP or pumphouse WWSW 25(d)	
X			Water quality monitoring and testing equipment is maintained and calibrated as recommended by manufacturer EMPA2010 29(1)	
X			Facility is clean and in orderly condition WWSW 25(f)	
			Disinfection	
X			Continuous chlorine disinfection (unless otherwise approved per 27(7)) WWSW 27(5)	PROVIDED BY THE CITY OF WEYBURN.
	X		A total chlorine residual of not less than 0.5 mg/L OR a free chlorine residual of not less than 0.1 mg/L in water throughout the distribution system WWSW 27(6)(b)	DAILY READINGS ARE TAKEN FROM AROUND THE PIPELINE BECAUSE THERE IS NO DAILY OPERATOR AND THE COST ASSOCIATED WITH THE DAILY TESTING AT THE METER HOUSES IS QUITE HIGH. SINCE LAST INSPECTION SOUTH LINE (AT LOCATION TESTED) WAS BELOW ~136 TIMES. THAT LOCATION IS AT END OF LINE. WEST LINE - BELOW 46 TIMES 2 SAMPLES ON INSPECTION WERE BELOW REQUIREMENTS. LOW READINGS ARE LIKELY DUE TO LOW USAGE.
			Standards	
X			Bacteriological WWSW 29	
	X		Chemical standards WWSW 26(2)(3) & 31	ANY UTILITY PURCHASING WATER FROM CITY OF WEYBURN WILL NOT MEET THM REQUIREMENTS. UNLESS REMOVAL AT CITY WTP THERE ISN'T MUCH THAT THE WUB CAN DO. 2019 AVERAGES ARE AS FOLLOWS: EAST - 112.8 PPB SOUTH - 117.5 PPB WEST - 136.5 PPB NORTH - 124.4 PPB
		X	Waterworks meets the requirements of future chemical health and pesticide related standards (July 1, 2020) see Table 3 WWSW 31	HAAS WILL BE ADDED TO THE PERMIT THIS YEAR.

			Assessment	
		X	Proper waterworks assessment WWSW 32	NO WSA ON FILE AT WATER SECURITY AGENCY. WEYBURN UTILITY BOARD UNABLE TO FIND A COMPLETED REPORT. IT WAS ADDED AS A PERMIT CONDITION ON PERMIT RENEWAL WITH A DUE DATE OF DECEMBER 31, 2020.
			Operational Anomalies	
X			Reported upset condition WWSW 34(1)	
X			Reported missing on-site water quality testing records WWSW 34(2)(c)	
			Testing	
X			Bacteriological testing WWSW 37(2)	WSA DATABASE MISSING JANUARY 2020 BACTI SAMPLES. RRPL WAS VICTIM OF MALWARE ATTACK WHICH HAS DISRUPTED THE TRANSFER OF LAB SAMPLES TO WSA. WUB ADMINISTRATOR PROVIDED COPIES TO EPO ON INSPECTION.
X			Bacteriological follow-up WWSW 37(5) & 37(9)	
X			Bacteriological sample after completion, alteration, extension or repair WWSW 38	MUST ENSURE PDWA SAMPLES ARE MARKED AS OTHERS.
	X		Chlorine monitoring WWSW 37(2)(4)	7 DAYS OF MISSED TESTING ON EAST LINE. IF OPERATORS ARE UNAVAILABLE, PLEASE ENSURE TESTING IS DONE SOMEWHERE ELSE. MUST ENSURE CHLORINE IS TESTED/REPORTED FOR PDWA SAMPLES.
			Other Constituents	
X			Trihalomethane sampling conducted WWSW 37(2)(6)	
		X	Haloacetic acid sampling conducted WWSW 37(2)(6)	WILL BE ADDED THIS YEAR TO PERMIT.
X			Accredited laboratory WWSW 37(2)(b)	
			Operational Records	
	X		Daily water meter reading WWSW 40(1)(a)	NO EASILY ACCESSIBLE METER TO READ DAILY. CITY AS WELL AS WUB READ THE MAIN METERS MONTHLY AND THE CONSUMER METERS ARE READ SEMI MONTHLY.
X			Samples - locations, sampler, and results WWSW 40(1)(c)	
X			Abnormal operating procedures WWSW 40(1)(d) & 40(1)(e)	ANY ABNORMALITIES MUST BE CALLED IN TO WSA AND NOTED IN LOGBOOK/MANAGERS REPORT.
X			Upset conditions (includes water treatment facility and water distribution system upsets) WWSW 40(1)(f)	
X			Calibration records for test equipment WWSW 40(1)(h)	WHEN ANALZERS WERE TAKEN TO SARWP IT WAS NOTED IN MANAGERS LOGS.
X			Maintenance WWSW 40(1)(i)	
X			Chronological order WWSW 40(2)(a)	
X			Permittee recorder WWSW 40(2)(b)	
X			Identification of recorder WWSW 40(2)(c)	PLEASE ENSURE THAT DAILY TESTERS ARE INITIALING THE TEST RESULTS EVERY DAY.

X			Five year history of log WWSW 40(2)(d)	
X			Explanatory notes WWSW 40(2)(e)	
X			Factual data entry WWSW 40(2)(f)	
X			No default values used WWSW 40(2)(g)	
			QA/QC and Recordkeeping Review	
X			QA/QC and ERP in place WWSW 41(1)	
X			Monthly review of records by permittee WWSW 41(2)	SINCE WATER TESTING IS BEING DONE BY BOARD MEMBERS THE RECORDS SHOULD BE REVIEWED AND ADDED TO MEETING MINUTES.
X			Report abnormal or missing records WWSW 41(3)	
			Annual Notice To Customers	
X			On water quality and sample submission compliance WWSW 42(1)	
X			Written notice provided to Minister of completion of annual notice to consumers WWSW 42(2)	RECEIVED 2018 NOTICE. 2019 NOTICE IS DUE BY JUNE 30, 2020.
			General	
X			Operator's test equipment appears to be performing adequately	SOUTH LINE EQUIPMENT WAS WITHIN SPECS, OTHER LINES EQUIPMENT WAS NOT AVAILABLE. NORTH AND SOUTH TEST EQUIPMENT WAS CALIBRATED IN DECEMBER 2019.
X			Representative of the waterworks signature was obtained	YES
X			Representative of the waterworks agreed with the inspection statements	YES



(Operator/Supervisor Signature)



Agree with statements



(EPO Signature)