

Waterworks Compliance Inspection - Human Consumptive Use (Part I)

System Name: WEYBURN UTILITY BOARD WATERWORKS PIPELINE

Remote Inspection ID:
1139588

Approval No: 00051855-02-00

Population: 300

Announced:

Yes

Date: 15-FEB-2018 11:30

Person Interviewed:

FELLNER, RON

General Section

Water Supplies in Service : PIPELINE
(SURFACE)

System Classification: NONE WT ONE WD

of Service Connections: 300

System Type: PIPELINE CONNECTED TO MUNICIPAL SYSTEM

Service Connection Metering: Yes

Comments:

Contacts

Name	Position	Phone / Fax	Email
BALL, RAY	CERTIFIED OPERATOR	Business: (306) 842-3444	N/A
FELLNER, RON	MANAGER	Phone: (306) 842-5572 Cell: (306) 891-9711 Fax: (306) 842-5573	RLFELLNER@SASKTEL.NET
OLMSTED, VALERIE	OTHER - SECERTARY/TREASURER	Phone: (306) 842-8066 Fax: (306) 842-0738	WUB@SASKTEL.NET
FELLNER, LORRAINE	MANAGER	Phone: (306) 891-9700	N/A

Operator Certification Section

Operator Name	Certification Levels		Expiry Date	Operator is a Supervisor	Certification Exam Written	Taken Training	Plans to Test or Take Training
	Water Distribution	Water Treatment				# of CEUs	
BALL, RAY	ONE	NONE	15-SEP-2017	Yes	Yes	0.0	No

Test Results

Station #	Sample ID	Location/Comments	Variable	Flag	Measurement	Qualifier
SK05NB0093	2018067060	PUMPHOUSE	CHLORINE (FREE)	N/A	0.710 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.450 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.160 NTU	N/A
"	2018067061	CUGNET RESIDENCE	CHLORINE (FREE)	L	0.020 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	0.350 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.310 NTU	N/A
SK05NB0095	2018067062	PUMPHOUSE	CHLORINE (FREE)	N/A	0.450 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.200 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.120 NTU	N/A
"	2018067063	PROBE RESIDENCE - BACTI TAKEN	CHLORINE (FREE)	N/A	0.470 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.100 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.340 NTU	N/A
SK05NB0096	2018067064	PUMPHOUSE - BACTI TAKEN	CHLORINE (FREE)	N/A	0.470 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.170 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.270 NTU	N/A
"	2018067065	FELLNER RESIDENCE	CHLORINE (FREE)	L	0.020 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	0.300 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.180 NTU	N/A
SK05NB0094	2018067066	PUMPHOUSE - BACTI TAKEN	CHLORINE (FREE)	N/A	0.300 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	0.990 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.130 NTU	N/A
"	2018067067	VITERRA	CHLORINE (FREE)	N/A	0.690 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	1.380 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.290 NTU	N/A
SK05NB0096	N/A	OPR SPLIT OF FELLNER RESIDENCE	CHLORINE (FREE)	L	0.020 mg/l	N/A
"	"	"	CHLORINE (TOTAL)	N/A	0.270 mg/l	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, 1.69)	GOOD
Comment					
WITHIN SPECS					

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

C	NC	NA	General	Comments
X			Approved System EMPA2010 24(1)	MUST ENSURE THAT ANY WATER MAIN INSTALLATION GETS PERMITS TO CONSTRUCT FROM THE WATER SECURITY AGENCY APPROVALS SECTION.
	X		Certified Operator WWSW2010 62	CONTRACT OPERATOR'S CERTIFICATION HAS EXPIRED. UTILITY BOARD MUST HAVE A CERTIFIED OPERATOR BY THE END OF MARCH, 2018. NEXT MEETING IS MARCH 8/9, DEADLINE IS MARCH 1ST.
			Distribution System	
X			Disinfection of New and Repaired Pipelines WWSW2010 23(4)& 27(4)	FOLLOW AWWA STANDARDS FOR DISINFECTING PIPELINES WHERE NECESSARY.
			Water Storage Reservoirs	
			Water Treatment Plants and Pumphouses	
X			Backflow Prevention Device WWSW2010 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 WWSW2010 25(d)	ALL METERS WERE RECENTLY REPLACED.
		X	Adjustable Chemical Feeder WWSW2010 25(e)	NOT RECHLORINATING AT THIS TIME. WUB SHOULD BE CONSIDERING CHLORAMMINATION IN ORDER TO MEET RESIDUALS AT THE FURTHER REACHES OF THE DISTRIBUTION SYSTEM.
X			Facility is Clean and in Orderly Condition WWSW2010 25(f)	
			Disinfection	
X			Continuous Disinfection WWSW2010 27(5)	PROVIDED BY THE CITY OF WEYBURN.
	X		A Free Chlorine Residual of not less than 0.1 mg/L in Water Entering the Distribution System WWSW2010 27(6)a	BUYING TREATED WATER FROM CITY OF WEYBURN. 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. EPO ADVISED BOARD THAT DAILY TESTING CAN HAPPEN DOWN THE LINE. SINCE LAST INSPECTION SOUTH LINE (AT DAILY TESTING LOCATION) HAS ~100 TESTS BELOW REGULATIONS, WEST LINE HAS 3 TESTS BELOW. IN DECEMBER 2017, EAST AND SOUTH LINES HAD INSTRUMENTS CALIBRATED SO NO TESTS FOR 3 DAYS.
	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 WWSW2010 27(6)b	WUB MANAGEMENT HAS DONE A LOT OF TESTING TO DETERMINE WHERE ON EACH LINE THE CHLORINE LEVELS ARE ABOVE THE REGULATIONS AND WHERE THOSE FALL BELOW. WUB MUST LOOK AT OPTIONS TO MEET THE REGULATED CHLORINE REQUIREMENTS. SOUTH LINE (AT LOCATION TESTED) WAS BELOW ~100 TIMES. THAT LOCATION IS AT END OF

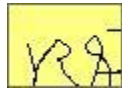
				LINE. EAST LINE (AT LOCATION TESTED) MISSED 7 DAYS OF TESTING (2 DAYS WERE FOR INSTRUMENT CALIBRATION). WEST LINE - BELOW 3 DAYS NORTH LINE - ALWAYS MET ON INSPECTION, SAMPLE FROM EAST LINE WAS BELOW REGULATIONS.
Standards				
	X		Bacteriological WWSW2010 29	POSITIVE FROM SOUTH LINE ON SEPTEMBER 26, 2017. RESAMPLE WAS NEGATIVE.
	X		Chemical Standards WWSW2010 26(2,3) & 31	THMS FOR 2017 EAST - 121.95 PPB SOUTH - 120. PPB WEST - 137.25 PPB NORTH - 122.75 PPB 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.
	X		Waterworks meets the requirements of current and future chemical health and pesticide related standards(Effective Dec 2010 and July 1, 2020) See Table 3 WWSW2010 31	AS ABOVE, NOT MEETING THM REQUIREMENT.
Assessment				
		X	Proper Waterworks Assessment WWSW2010 32	NO WSA ON FILE AT WATER SECURITY AGENCY. WUB WILL NEED TO DO DIGGING TO FIND OUT IF ONE WAS EVER COMPLETED IN 2005.
Operational Anomalies				
X			Reported Upset Condition WWSW2010 34(1)	ENSURE ALL UPSETS ARE CALLED INTO WSA, EITHER TO EPO DIRECTLY OR IF AFTER HOURS (OR EPO IS UNAVAILABLE) TO THE UPSET REPORTING LINE 1-844-536-9494.
X			Reported Missing On-site Water Quality Testing Records WWSW2010 34(2)c	
Testing				
X			Bacteriological Testing WWSW2010 37(2)	ALL LINES HAVE ALL SAMPLES TAKEN.
X			Bacteriological Follow-up WWSW2010 37(5) & 37(9)	
X			Bacteriological Sample after Completion, Alteration, Extension or Repair WWSW2010 38	MUST ENSURE CHLORINE DATA IS INCLUDED WITH SAMPLING FOR PDWAS
	X		Chlorine Monitoring WWSW2010 37(2)	SOUTH LINE - MISSED TWO DAYS (METER WAS BEING CALIBRATED) WEST LINE - MISSED ONE DAY NORTH LINE - NO MISSES EAST LINE - MISSED 7 DAYS (2 DAYS WERE BECAUSE METER WAS BEING CALIBRATED) IF BOARD MEMBERS WHO ARE TESTING ARE GONE FOR EXTENDED PERIODS MUST GET ANOTHER PERSON ON THAT LINE TO TEST.
Other Constituents WWSW2010 37(2)a				
X			Trihalomethane sampling conducted	DATABASE IS MISSING 1ST QUARTER SAMPLE FROM SOUTH LINE, BUT 2 1ST QUARTER SAMPLES FOR NORTH LINE. THE COMMENTS ALLOW FOR PROPER IDENTIFICATION. PLEASE ENSURE PROPER STATION NUMBERS ARE BEING USED FOR

				ACCURATE SAMPLE TRACKING AND REPORTING.
X			Accredited Laboratory WWSW2010 37(2)b	
			Operational Records	
	X		Daily Water Meter Reading WWSW2010 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	Types, Dosages and Total amounts of Chemical WWSW2010 40(1)b	NOT RECHLORINATING AT THIS MOMENT. WUB MUST LOOK INTO OPTIONS TO MEET THE REQUIRED LIMITS.
X			Samples - Locations, Sampler, and Results WWSW2010 40(1)c	
X			Abnormal Operating Procedures WWSW2010 40(1)d & 40(1)e	ANY ABNORMALITIES MUST BE CALLED IN TO WSA AND NOTED IN LOGBOOK/MANAGERS REPORT.
X			Upset Conditions WWSW2010 40(1)f	NO UPSET CONDITIONS LATELY.
X			Calibration of Equipment WWSW2010 40(1)h	WHEN ANALYZERS WERE TAKEN TO SARWP IT WAS NOTED IN MANAGERS LOGS.
X			Maintenance WWSW2010 40(1)i	
X			Chronological Order WWSW2010 40(2)a	
X			Permittee Recorder WWSW2010 40(2)b	
X			Identification of Recorder WWSW2010 40(2)c	PLEASE ENSURE THAT DAILY TESTERS ARE INITIALING THE TEST RESULTS EVERY DAY.
X			Five Year History of Log WWSW2010 40(2)d	
X			Explanatory Notes WWSW2010 40(2)e	
X			Factual Data Entry WWSW2010 40(2)f	
X			No Default Values Used WWSW2010 40(2)g	
			QA/QC and Recordkeeping	
X			QA/QC in Place WWSW2010 41(1)	
X			Monthly Review WWSW2010 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 WWSW2010 41(3)	
			Annual Notice To Customers	
X			Quality WWSW2010 42(1)a	
X			Compliance WWSW2010 42(1)b	
X			Notification of Consumer Report to Minister WWSW2010 42(2)	2017 ANNUAL NOTICE IS DUE JUNE 30, 2018 AT THE LATEST.

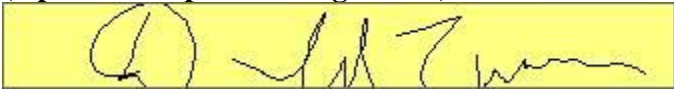
			General	
X			General comments	
X			Split sampling with the operator was completed	SPLIT FOR SOUTH LINE EQUIPMENT WAS GOOD, OTHER LINES EQUIPMENT WAS NOT AVAILABLE.
X			Operator's test equipment is performing adequately	AS ABOVE.
X			Representative of the waterworks signature was obtained	YES
X			Representative of the waterworks agreed with the inspection statements	YES



(Operator/Supervisor Signature)



Agree with statements



(EPO Signature)