



# Waterworks Compliance Inspection - Human Consumptive Use (Part I)

<b>System Name:</b>	<u>SOUTH YELLOWHEAD WATER CORP. WATERWORKS (STWS-E-SWC)</u>	Remote Inspection ID:	1192204
<b>Approval No:</b>	<u>00054716-04-00</u>		
<b>Population:</b>	<u>130</u>	<b>Announced:</b>	<u>Yes</u>
<b>Date:</b>	<u>28-FEB-2023 09:00</u>	<b>Person Interviewed:</b>	<u>HEUCHERT, RANDY</u>

## General Section

<b>Water Supplies in Service :</b>	<u>PIPELINE (SURFACE)</u>	<b>System Classification:</b>	<u>NONE</u> WT <u>ONE</u> WD
<b># of Service Connections:</b>	<u>40</u>	<b>System Type:</b>	<u>PIPELINE &gt; 15 CONNECTIONS</u>
<b>Service Connection Metering:</b>	<u>Yes</u>	<b>Source Inspection Completed:</b>	<u>No</u>
<b>Comments:</b> THE WATERWORKS IS SUPPLIED WITH POTABLE WATER, FROM THE CITY OF SASKATOON, BY THE SASKWATER SASKATOON EAST TREATED PIPELINE SYSTEM. THE SYSTEM IS A LOW FLOW/LOW PRESSURE SYSTEM WITH NO RESERVOIR OR PUMPHOUSE. THE SYSTEM DOES HAVE A FLUSHOUT. THE INSPECTION WAS CONDUCTED WITH, AND SIGNED BY, THE OPERATOR WHO IS ALSO THE VICE PRESIDENT OF THE BOARD.			

## Contacts

Name	Position	Phone / Fax	Email
HEUCHERT, RANDY	CERTIFIED OPERATOR	Phone: (306) 931-0017 Cell: (306) 241-7088 Fax: (306) 931-0017	RANDY@SASKTEL.NET
SCHINDEL, PERCY	PRESIDENT	Cell: (306) 203-3625	MERRIKAM@SASKTEL.NET
SASKATOON, SHA	OTHER - HEALTH REGION	Phone: (306) 655-4605	PHIOC@SASKATOONHEALTHREGION.CA
SORENSEN, DON	OTHER - BACKUP CERTIFIED OPERATOR	Phone: (306) 384-6686 Business: (306) 966-2748	DON.SORENSEN@USASK.CA

REINHART, LEE	ENVIRONMENTAL PROJECT OFFICER	Cell: (306) 230-3254 Fax: (306) 933-6820	LEE.REINHART@WSASK.CA
<b>Complaints:</b>			
NONE			

### Operator Certification Section

Operator Name	Certification Levels		Expiry Date	Operator is a Supervisor
	Water Distribution	Water Treatment		
HEUCHERT, RANDY	ONE	NONE	15-APR-2023	No
SORENSEN, DON	ONE	NONE	15-JUN-2024	No

### Test Results

Station #	Sample ID	Location/Comments	Variable	Flag	Measurement	Qualifier
SK05HG0392	2023256550	DOETZEL RESIDENCE - A BACTERIA SAMPLE WAS TAKEN HERE.	CHLORINE (TOTAL)	N/A	1.340 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.110 NTU	N/A
"	2023256551	CARMAN RESIDENCE	CHLORINE (TOTAL)	N/A	1.690 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.320 NTU	N/A
"	2023256552	OFTEBRO RESIDENCE	CHLORINE (TOTAL)	N/A	1.620 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.090 NTU	N/A
"	2023256553	HEUCHERT RESIDENCE - A SPLIT SAMPLE WITH THE OPERATOR. OPERATOR'S TEST RESULT - TOTAL CL2 = 1.44 MG/L.	CHLORINE (TOTAL)	N/A	1.430 mg/l	N/A
"	"	"	TURBIDITY	N/A	0.060 NTU	N/A

### Equipment Validation

#### **Turbidity**

Equipment Type	Equipment Name/Number	STD1(L) (Expected, Test)	STD2 (Expected, Test)	STD3 (Expected, Test)	STD4 (Expected, Test)	Result	Gel Standard
----------------	-----------------------	-----------------------------	--------------------------	--------------------------	--------------------------	--------	--------------

#### **Chlorine**

Equipment Type	Equipment Name/Number	STD1 (Expected, Test)	STD2 (Expected, Test)	STD3 (Expected, Test)	Result
POCKET COLORIMETER(PC)	HACH	(0.21, 0.21)	(0.80, 0.87)	(1.44, 1.49)	GOOD
<b>Comment</b>					

THE TEST EQUIPMENT HAS NOT BEEN PROFESSIONALLY CALIBRATED FOR A LONG TIME BUT IS PERFORMING ACCURATELY.

### **Human Consumptive Regulatory Section**

**C=Compliant NC=Non-Compliant N/A=Not Applicable**

<b>C</b>	<b>NC</b>	<b>NA</b>	<b>General</b>	<b>Comments</b>
X			Valid permit to operate and/or construct EMPA2010 24(1)	THE PERMIT TO OPERATE WAS RENEWED ON ON MAY 15, 2022 AND IS NOW DUE FOR RENEWAL ON MAY 31, 2027.
X			Certified operator WWSW 62	
X			Valid water rights license EMPA2010 29(1)	12572; C020 - EXPIRES MARCH 31, 2029.
X			Copy of permit posted at waterworks EMPA2010 29(1)	THERE IS NO PUMPHOUSE FOR THE WATERWORKS AND SO A COPY OF THE PTO IS KEPT WITH THE BOARD AND THE OPERATOR.
			<b>Distribution System</b>	
X			Disinfection of new and repaired pipelines WWSW 23(4)& 27(4)	
			<b>Water Treatment Plants and Pumphouses</b>	
X			Water meter(s) installed in WTP or pumphouse WWSW 25(d)	THE CONNECTION TO THE SASKWATER PIPELINE, AS WELL AS EACH HOUSEHOLD, HAS A WATER METER.
			<b>Disinfection</b>	
X			Continuous chlorine disinfection (unless otherwise approved per 27(7)) WWSW 27(5)	
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)	
X			Approved alternate disinfection method WWSW 27(7)	
			<b>Standards</b>	
X			Bacteriological WWSW 29	
X			Chemical standards WWSW 26(2)(3) & 31	
X			Waterworks meets the requirements of future chemical health and pesticide related standards	
			<b>Assessment</b>	
X			Proper waterworks assessment WWSW 32	
			<b>Operational Anomalies</b>	
X			Reported upset condition WWSW 34(1)	NO UPSETS SINCE LAST INSPECTION.
X			Reported disinfection system upset WWSW 34(2)(a)(b)	NO DISINFECTION EQUIPMENT AND NO CHLORINE UPSETS SINCE LAST INSPECTION.
X			Reported missing on-site water quality testing records WWSW 34(2)(c)	
			<b>Testing</b>	
X			Bacteriological testing WWSW 37(2)	
X			Bacteriological follow-up WWSW 37(5) & 37(9)	
X			Bacteriological sample after completion, alteration, extension or repair WWSW 38	

X			Chlorine monitoring WWSW 37(2)(4)	
			<b>Other Constituents</b>	
X			Accredited laboratory WWSW 37(2)(b)	
			<b>Operational Records</b>	
	X		Daily water meter reading WWSW 40(1)(a)	THE OPERATOR READS HIS OWN METER DAILY BUT THE ONLY SYSTEM METER IS IN THE SASKWATER MANHOLE, AT THE CONNECTION POINT, WHICH IS LOCKED AND IMPRACTICAL TO READ. MANY RURAL PIPELINE SYSTEMS ARE NON-COMPLIANT WITH THIS REQUIREMENT.
X			Samples - locations, sampler, and results WWSW 40(1)(c)	
X			Abnormal operating procedures WWSW 40(1)(d) & 40(1)(e)	
X			Upset conditions (includes water treatment facility and water distribution system upsets) WWSW 40(1)(f)	NO UPSETS SINCE LAST INSPECTION.
X			Chlorine upsets WWSW 40(1)(g)	NO UPSETS SINCE LAST INSPECTION.
X			Calibration records for test equipment WWSW 40(1)(h)	THE TEST EQUIPMENT HAS NOT BEEN PROFESSIONALLY CALIBRATED FOR QUITE SOME TIME BUT IS PERFORMING ACCURATELY.
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)	
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)	
			<b>QA/QC and Recordkeeping Review</b>	
X			QA/QC and ERP in place WWSW 41(1)	
X			Monthly review of records by permittee WWSW 41(2)	
X			Report abnormal or missing records WWSW 41(3)	
			<b>Annual Notice To Customers</b>	
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)	THE 2022 ANNUAL NOTICE TO CONSUMERS HAS BEEN COMPLETED AND A COPY FORWARDED TO THE EPO.
			<b>General</b>	
X			Split sampling with the operator was completed	
X			Operator's test equipment appears to be performing adequately	
X			Representative of the waterworks signature was obtained	YES
X			Representative of the waterworks agreed with the inspection statements	YES

*Ronald Weichert*

**(Operator/Supervisor Signature)**

*RM*

**Agree with statements**

*Lee Roberts*

**(EPO Signature)**