



Waterworks Compliance Inspection - Human Consumptive Use

System Name: VALLEY RIDGE COMMUNITY CO-OP WATERWORKS Remote Inspection ID: 1155300
Approval No: 00055373-02-00
Population: 60 **Announced:** Yes
Date: 29-JAN-2019 18:00 **Person Interviewed:** HOFFMAN, DONNA

General Section

Water Supplies in Service : PIPELINE (SURFACE) **System Classification:** NONE WT ONE WD
of Service Connections: 26 **System Type:** PIPELINE CONNECTED TO MUNICIPAL SYSTEM
Service Connection Metering: Yes **Source Inspection Completed:** No

Contacts

| Name | Position | Phone / Fax | Email |
|------------------|--------------------|---|-------------------------------|
| SEEFRIED, NICOLE | PRESIDENT | Cell: (306) 513-7287 | NICOLE.SEEFRIED@MOASAICCO.COM |
| HOFFMAN, DONNA | ADMINISTRATOR | Phone: (306) 734-7645 Cell: (306) 533-5006 | DONNA.HOFFMAN@SASKTEL.NET |
| BROWN, STEVEN | CERTIFIED OPERATOR | | N/A |

Operator Certification Section

| Operator Name | Certification Levels | | Expiry Date |
|---------------|----------------------|-----------------|-------------|
| | Water Distribution | Water Treatment | |
| BROWN, STEVEN | ONE | ONE | 15-NOV-2020 |

Test Results

| Station # | Sample ID | Location/Comments | Variable | Measurement |
|------------|------------|---------------------|------------------|-------------|
| SK05JG0197 | 2019066021 | HOFFMAN RES - BACTI | CHLORINE (FREE) | 0.760 mg/l |
| | | | CHLORINE (TOTAL) | 1.290 mg/l |
| | | | TURBIDITY | 0.230 NTU |
| " | N/A | SPLIT | CHLORINE (FREE) | 0.840 mg/l |
| | | | CHLORINE (TOTAL) | 1.260 mg/l |

Equipment Validation

Chlorine

| Equipment Type | Equipment Name/Number | STD1 (Expected, Test) | STD2 (Expected, Test) | STD3 (Expected, Test) | Result |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|--------|
| PC II | N/A | (0.19, 0.21) | (0.95, 0.95) | (1.63, 1.64) | GOOD |

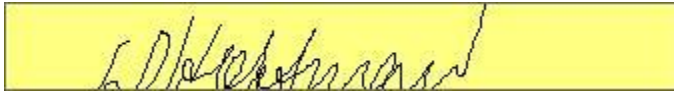
Human Consumptive Regulatory Section

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 | |
| | | | Valid water rights license EMPA2010 29(1) | |
| | | | Distribution System | |
| X | | | Disinfection of new and repaired pipelines WWSW 23(4)& 27(4) | |
| | | | Water Treatment Plants and Pumphouses | |
| X | | | Water quality monitoring and testing equipment is maintained and calibrated as recommended by manufacturer EMPA2010 29(1) | |
| | | | Remote Monitoring/Process Control | |
| | | | Remotely monitored facilities visited on frequency in accordance with permit EMPA2010 29(1) | |
| | | | Remotely monitored facilities conduct weekly communications check EMPA2010 29(1) | |
| | | | Security system in place as required by permit EMPA2010 29(1) | |
| | | | Disinfection | |
| X | | | Continuous chlorine disinfection WWSW 27(5) (unless otherwise approved per 27(7)) | |
| X | | | A free chlorine residual of not less than 0.1 mg/L in water entering the distribution system WWSW 27(6)a | |
| 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 | |
| | | | Standards | |
| X | | | Bacteriological WWSW 29 | |
| X | | | Chemical standards WWSW 26(2,3) & 31 | THE 2018 TRIHALOMETHANE AVERAGE OF THE 4 SEASONAL SAMPLES WAS 73.32 PARTS PER BILLION. |
| 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 WWSW 31 | |
| | | | Operational Anomalies | |
| X | | | Reported upset condition WWSW 34(1) | |
| X | | | Reported disinfection system upset WWSW 34(2)a,b | |
| X | | | Reported missing on-site water quality testing records WWSW 34(2)c | |
| | | | Testing | |
| 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) | SINCE LAST INSPECTION 7 DAYS WERE MISSED. |
| | | | Turbidity monitoring WWSW 37(2)(4) | |
| | | | Other Constituents | |
| X | | | Trihalomethane sampling conducted WWSW 37(2)(6) | |
| | | | Haloacetic acid sampling conducted WWSW 37(2)(6) | |
| X | | | Accredited laboratory WWSW 37(2)b | |
| | | | Water from Treatment Plant Discharged to Environment | |
| | | | Wastewater discharged to environment sampling conducted EMPA2010 29(1) | |
| | | | Water discharged to environment does not exceed limits laid out in permit EMPA2010 29(1) | |
| | | | Operational Records | |
| | X | | Daily water meter reading WWSW 40(1)a | CURRENT REGULATIONS REQUIRE A DAILY WATER METER READING OF THE QUANTITY OF WATER ENTERING THE DISTRIBUTION SYSTEM. THIS IS CURRENTLY NOT PRACTICAL IN THIS CASE AS THE METER IS LOCATED IN A MANHOLE. |
| X | | | Types, dosages and total amounts of chemical WWSW 40(1)b | |
| X | | | Samples - locations, sampler, and results WWSW 40(1)c | |
| X | | | Abnormal operating procedures WWSW 40(1)d & 40(1)e | |
| X | | | Upset conditions WWSW 40(1)f (includes water treatment facility and water distribution system upsets) | |
| X | | | Chlorine upsets WWSW 40(1)g | |
| 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 | |
| | | | 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) | THE CERTIFIED OPERATOR SHOULD VIEW AND SIGN THE DAILY TEST RECORDS. THE OPERATOR WOULD THEN NOTIFY THE WSA OF ANY MISSING TESTS ETC. |
| 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) | |
| | | | Written notification and advisory labels supplied to service connections on raw water supply line EMPA2010 29(1) | |
| | | | General | |
| 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 |



(Operator/Supervisor Signature)



Agree with statements



(EPO Signature)