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RYAN FLYNN
Cabinet Secretary
BUTCH TONGATE
Deputy Secretary

July 5, 2016

Jim Gilroy
San Cristobal MDWCA, NM3574929
PO Box 105
San Cristobal, NM 87564

RE: 2016 Sanitary Survey Report

Dear Jim Gilroy:

Enclosed is the Sanitary Survey Report for the San Cristobal MDWCA water system, conducted on May 10, 2016 by Wayne Jeffs of the New Mexico Environment Department Drinking Water Bureau (DWB).

During the survey no significant deficiencies were identified and one (1) minor deficiency was documented.

If you have any questions or need additional clarification concerning this report please call 505-476-8612 or e-mail Wayne.Jeffs@state.nm.us.

Respectfully,

A handwritten signature in cursive script that reads "Wayne A. Jeffs".

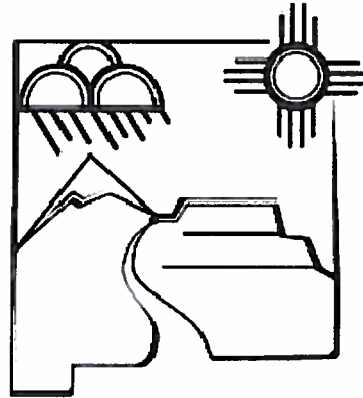
Wayne Jeffs, Compliance Officer
Drinking Water Bureau
Water Protection Division

Enclosures: Sanitary Survey Report

Cc: Region Supervisor (electronic)
San Cristobal MDWCA water system Area Office file
Magneto system file

NMED

New
Mexico
Environment
Department



SANITARY SURVEY REPORT

For

**San Cristobal MDWCA
NM3574929**

*Este informe contiene información importante acerca de su agua potable.
Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.*

Prepared by:

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Santa Fe, NM 87502-5469
505.476.8620

July 5, 2016

**State of New Mexico
Environment Department
Water Protection Division
Drinking Water Bureau**

P.O. Box 5469
Santa Fe, NM 87502



RECORD OF INSPECTION

This Sanitary Survey Report fulfills the requirements of New Mexico Administrative Code 20.7.10.100 incorporating 40 Code of Federal Regulations 141.21(d) (ii) (2) and 142.16(o)(2) for completing a State approved survey. The information and data was prepared by Wayne Jeffs, Compliance Officer.

NMED APPROVING AUTHORITY: Wayne A. Jeffs Date: 7-5-16
Wayne Jeffs, Compliance Officer

Introduction

A sanitary survey enables the NMED Drinking Water Bureau Water (DWB) to provide a comprehensive and accurate review of the components of a water system, to assess the operating condition and adequacy of the water system, and to determine if past recommendations have been implemented effectively. The Sanitary Survey encompasses eight specific elements that are evaluated during the survey. Those eight elements are:

- Source (Protection, Physical Components, and Condition);
- Treatment
- Distribution System
- Finished Water Storage
- Pumps/Pump Facilities and Controls
- Monitoring/Reporting/Data Verification
- Water System Management/Operations
- Operator Compliance with State Requirements

Each element may not be specifically mentioned within this report, however, a significant deficiency or recommendation will be noted if any issues are discovered with any of these eight (8) elements.

As part of a sanitary survey the DWB conducted a site inspection of the San Cristobal Mutual Domestic Water Consumers Association (MDWCA) water system. The site inspection was conducted on May 10, 2016 by Compliance Officer Wayne Jeffs, and accompanied by San Cristobal MDWCA water system certified operator, Jim Gilroy. In addition to the site inspection, DWB reviewed various operational, managerial, and financial documents submitted by the San Cristobal MDWCA water system and conducted a review of DWB compliance files for the water system.

System Description

The San Cristobal MDWCA water system has approximately 80 residents and is classified as a Community water system according to the New Mexico Drinking Water Regulations 20.7.10 NMAC. The water system consists of an infiltration gallery, water treatment (sodium hypochlorite) vault with altitude valve and water meter, 10,000 gallon welded steel storage tank (direct to distribution), 75 mechanical water meters, 5 pressure regulating valves, and approximately 5 miles of 3-inch diameter polyvinyl chloride (PVC) pipe with 2.5 inch service lines from water main saddle connections. The water system records water usage based on mechanical metering from 55 active water customer accounts with 75 meters total. The water system has no booster pumps and is entirely dependent upon gravity with approximately 1,500 feet of hydraulic head available between the infiltration gallery and the furthest downgradient portion of the distribution system. The water system infrastructure was originally constructed in 1973, with additional updates in 1985. The water system average daily demand varies from approximately 3,000 gallons per day in the winter months to approximately 5,000 gallons per day in the summer months. The effective storage capacity varies between 2 to 3 days, depending upon the season.

Survey Findings

Sanitary surveys serve as a proactive public health measure and can provide important information on a water system's design and operations, can identify minor and significant deficiencies for correction before they become major problems, and can improve overall system compliance. The following significant and minor deficiencies were identified during the sanitary survey.

Significant Deficiencies:

A significant deficiency is defined as any deficiency that is causing or has the potential to cause a threat to public health [New Mexico Administrative Code (NMAC) 20.7.10.100 incorporating 40 Code of Federal Regulations (CFR) §141.403(a)(4)]. Water systems must consult with DWB within 30 days and take corrective action for any significant deficiencies found during the sanitary survey no later than 120 days after receiving written notification of such deficiencies, or be in compliance with a DWB-approved schedule and plan for correcting these deficiencies within the same 120 day period [NMAC 20.7.10.100 incorporating 40 CFR §141.403(a)(4) and §141.403(a)(5)(i)-(ii)]. Failure to remedy any significant deficiency will result in a treatment technique violation of NMAC 20.7.10.100 incorporating 40 CFR Part 141 Subpart S.

No significant deficiencies were documented during completion of the May 10, 2016 sanitary survey.

Minor Deficiencies:

The following are minor deficiencies which DWB recommends be corrected before the next sanitary survey to ensure the deficiencies do not become significant.

1. Deficiency: No Inspection of Storage Facility

Recommendation: There are no records of storage tank inspections or rehabilitation. Regular inspection of tanks can alert operator to potential problems and help prevent unforeseen catastrophic failure of the tank. American Water Works Association (AWWA) recommends that a thorough structural and coating inspection be carried out approximately every five years. The inspection should be performed by National Association of Corrosion Engineers (NACE) certified inspectors and according to AWWA D101-53, "AWWA Standard for Inspecting and Repairing Steel Water Tanks, Standpipes, Reservoirs, and Elevated Tanks for Water Storage". Additionally, the NMED-DWB recommends an annual inspection by the operator. Potential water quality problems associated with sediment accumulation include microbial growth and increased turbidity within the water. Corrosion can occur inside storage facilities which can cause the storage facility to fail and cause a water outage.

Conclusion

The sanitary survey for the San Cristobal MDWCA water system was completed on May 10, 2016. Based upon the onsite inspection and review of various operational and managerial documents and of DWB compliance files, no significant deficiencies were identified and one (1) minor deficiency was identified. The San Cristobal MDWCA water system must comply with the following bullets in the correction of these deficiencies.

If you have any questions or need additional clarification concerning this report please call (505)-476-8612 or e-mail wayne.jeffs@state.nm.us.



NMED - Drinking Water Bureau
 System Schematic
 San Cristobal Water System
 NM 3574929

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