

# SANITARY SURVEY

## BACKGROUND INFORMATION

Every three years, a sanitary survey is conducted of our water system by the Colorado Department of Public Health and Environment (CDPHE).

Surveys ensure that the public water system's operational, monitoring, reporting, and recordkeeping practices are in compliance with drinking water regulations. They can also identify any significant deficiencies.

Previous survey results:

November 2013 – 0 Significant Deficiencies

September 2017 – 0 Significant Deficiencies

September 2021 – 0 Significant Deficiencies

Bell Mountain Ranch March 2024 – 0 Significant Deficiencies

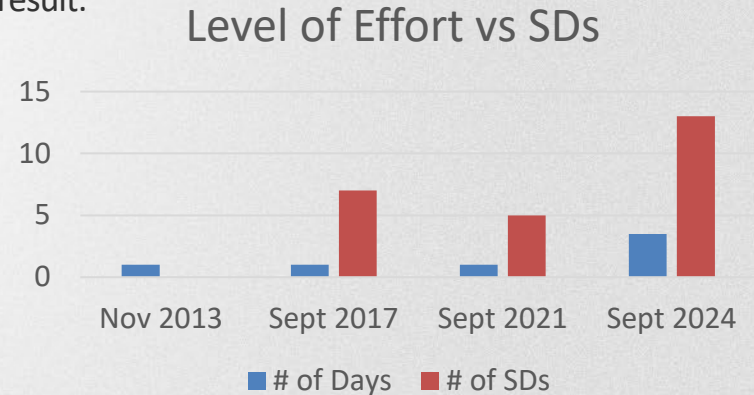
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On October 1, 2021, CDPHE discontinued the historic practice of downgrading significant deficiencies to observations if they were resolved prior to the letter issuance. This decision was a result of EPA Region 8's review of CDPHE's drinking water program.

Previous survey results under this change as compared to current result:

- November 2013 – 0 Significant Deficiencies
- September 2017 – 7 Significant Deficiencies
- September 2021 – 5 Significant Deficiencies
- September 2024 – 13 Significant Deficiencies



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## FINDINGS

13 significant deficiencies were identified during the survey:

- Ammonia gas line left the chemical room at Meadows WTP
- Gap between the flap valve attached to the overflow pipe at Tank 9
- Gap between the flap valve attached to the overflow pipe at Tank 16
- No screen on the clear well overflow pipe at Meadows WTP
- Flap valve hinge broken on the overflow pipe at Tank 12B
- Four wells with gaps in the electrical conduit
- One well with an animal burrow next to the well pad
- Three wells with missing bolts

*“SIGNIFICANT DEFICIENCY” means any situation, practice, or condition in a public water system with respect to design, operation, maintenance, or administration, that the state determines may result in or have the potential to result in production of finished drinking water that poses an unacceptable risk to health and welfare of the public served by the water system. Significant deficiencies include, but are not limited to, defects in design, operation, or maintenance, or a failure or malfunction of the sources, treatment, storage, or distribution system that the Department determines to be causing, or have potential for causing, the introduction of contamination into the water delivered to consumers.*



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## FINDINGS



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## OUTCOMES

Extensive one-on-one training using a newly created well inspection checklist.

Monthly well inspections for six months using new well inspection checklist with inspection frequency re-evaluated at end of six months.

Will conduct a minimum of one internal sanitary survey annually.

**Castle Rock Water  
Well Inspection Checklist**

Note: All maintenance activities resulting from this checklist will be documented in Cartegraph with a High Importance repair task submitted to Plant Maintenance. All well inspection driven repair tasks will have 2 business days to be completed. Any repairs that will require longer than 2 business days to complete will need to be discussed with the Treatment ORC and a determination will be made if temporary measures can be put in place or if the well will need to be taken out of service until permanent repairs can be completed.

Well # \_\_\_\_\_ Inspector Name \_\_\_\_\_ Date \_\_\_\_\_ Repair Task # (if applicable) \_\_\_\_\_

Well Head	Yes	No	Required Maintenance Or Updates Needed	Entered into Cartegraph
Well has identification tag				
Vent is free of debris / insects				
No loose or missing bolts				
Well cap is secured and locked				
Grading sloped away from the well casing / well pad				
Dry around well casing (i.e., no standing water)				
Well casing is in good condition (e.g., no cracks)				
Controlled vegetation (e.g., no uncut grass, brush, weeds, or trees)				
No gaps or openings around the electrical conduit entering the well				
Exterior electrical conduit is secured and intact				
Well pad is intact with no cracks or animal burrows				
Well cap is free of bird droppings				
Other:				
Other:				

Site Security	Yes	No	Required Maintenance Or Updates Needed	Entered into Cartegraph
Entry gate locked (if applicable)				
Security fencing or cage around wells intact (if applicable)				
No security concerns (e.g., vandalism, unauthorized access)				
Other:				
Other:				



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## TRAINING OPPORTUNITIES

EPA Headquarters and Region 8 Offices requested CRW's participation to create national training videos for new Federal and State drinking water inspectors.

EPA was onsite the week of November 11<sup>th</sup> and filmed mock inspections of the Ray Waterman and Plum Creek Water Purification Facility. They also visited wells and storage tanks.

