



State of Utah

SPENCER J. COX
Governor

DEIDRE HENDERSON
Lieutenant Governor

Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF DRINKING WATER
Tim Davis
Director

November 9, 2022

Cody Valdez
East Carbon City
PO Box 70
East Carbon, UT 84520

Subject: REISSUED ON DIVISION OF DRINKING WATER LETTERHEAD - **East Carbon UTAH#04012 Return to Compliance**

Dear Cody Valdez,

The substance of this letter was previously sent by email from the Division of Drinking Water (the Division) to East Carbon City on October 26, 2022. This letter is being reissued on letterhead on November 9, 2022, per a request to the Division. Anyone with questions may contact the Division at (801) 536-4200.

Following colored water complaints, East Carbon City collected samples to be tested for manganese, iron, lead and copper on September 7, 2022. On September 22, the results demonstrated that only manganese was found in elevated concentrations, with the highest level being 0.612 mg/L, exceeding the EPA Health Advisory level of 0.3 mg/L. The East Carbon team met with the Division on September 23, to discuss treatment options and the required public notice for the exceedance of the manganese Health Advisory Level.

East Carbon distributed the initial public notice to water users and began to implement treatment measures based on the recommendation of the division. These actions included flushing of water mains, adding pre-chlorination to the treatment processes, and continued sampling of manganese throughout the treatment process and distribution system.

Return to compliance samples were taken on October 19, 2022, with results demonstrating that the manganese levels in the East Carbon City water system had returned to levels under the Health Advisory Level. **The Health Advisory can be lifted as of October 26, 2022.**

The next steps in this process include first, distributing a **Return to Compliance Public Notice** (see Public Notice attachment) letting your water users know the health advisory has been lifted. Please contact Jennifer Yee at 385 515-1501 (jyee@utah.gov) with any questions.

Second, the Division has devised an updated **monitoring and compliance plan** following the addition of pre-chlorination to your treatment process (see Monitoring and Compliance attachment). Please

Cody Valdez

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contact Sarah Page at (385) 272-5778 (sepage@utah.gov) with any questions.

Thank you for working closely with us on this issue and aiding in the protection of public health. Please don't hesitate to reach out with any questions.

Sincerely,



Sarah E Page, PhD

Water Treatment Specialist

Enclosures:

Public Notice: Return to Compliance for East Carbon City
Monitoring and Compliance Plan

cc: Cody Valdez, East Carbon City, ECCITYCVALDEZ72@gmail.com
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PUBLIC NOTICE Return to Compliance for East Carbon City

Issued 10/26/2022

Summary

In response to colored water complaints, East Carbon City took water samples on September 7, 2022. When the results came in on September 22, it was discovered that elevated levels of manganese were present in the East Carbon City drinking water system. Because the measured concentration of manganese was above the EPA's Health Advisory Level for manganese (0.3 mg/L), we notified customers of these results. We then addressed the manganese issue, and test results from October 19 show manganese levels below the Health Advisory Level.

Please read this entire notice and share it with anyone that drinks the water in your home. For more information and updates visit the East Carbon City www.eastcarboncity.org

What was done?

East Carbon City took action to reduce manganese levels below the EPA Health Advisory levels. These actions included:

- Flushing of water mains in order to reduce the manganese concentrations
- Altering the water treatment process by adding prechlorination to remove manganese
- Ongoing sampling throughout the treatment process and distribution system

Summary of Sample Results

Samples were collected on September 7, and they were tested for several contaminants, including manganese, iron, lead, and copper. Only manganese was found in elevated concentrations. No elevated levels of iron, lead, or copper have been found. Return to compliance samples were taken on October 19, 2022, demonstrating that the actions taken have been successful in reducing manganese levels in the treatment process.

	<u>Limit/Level</u>	<u>Number of Samples Above Limit/Level</u>	<u>Highest Level from Samples from September, 2022</u>	<u>Highest Level from Samples from October, 2022</u>	<u>Number of Samples Above Limit/Level</u>
Manganese	0.3 mg/L [^]	3 out of 3	0.612 mg/L	Not detected	0 of 2

[^] Manganese levels are based upon the EPA's Health Advisory levels.

Continued Monitoring

Ongoing samples of manganese will be taken weekly to monitor compliance moving forward.

For more information, please contact: East Carbon City (435) 888-6613

Monitoring and Compliance Plan

In accordance with Rule 309-215-6. *Monitoring Requirements for Miscellaneous Treatment Plants,*

(2) The Director may require additional monitoring as necessary to evaluate the treatment process and to ensure the quality of water. The specific analytes, frequency of monitoring, the reporting of frequency and the sampling location for which the monitoring may be required shall be determined by the following:

- (a) The containment of concern for which the treatment process has been installed.
- (b) The process of control samples required to operate treatment process being used.
- (c) Alternative surrogate sampling when it is either quicker or less expensive and still provides the necessary information

In accordance with this rule, the Division has devised the following monitoring and compliance plan for East Carbon to follow after the addition of pre-chlorination to remove manganese in the treatment process. The system is required to complete monitoring of manganese, free chlorine and disinfection byproducts as described in the table below in addition to existing monitoring requirements. Results from the manganese and free chlorine analyses shall be sent to the Division on a monthly basis as a separate submittal along with the surface water treatment report, due by the 10th of the following month. Additional laboratory analysis may be required if field test results indicate that manganese concentrations are in excess of 0.3 mg/L.

Analyte Name - Method	Sample Count/Site	Type	Frequency
Manganese - Field analysis	(4) Raw water, Pre-filter, Clearwell, DS1, DS2	Ongoing Monitoring	Raw water, Pre-filter and Clearwell - daily when operating DS1 and DS2 - twice a week
Free Chlorine - Field analysis	(2) Pre-filter, Clearwell	Ongoing Monitoring	Pre-filter and Clearwell - daily when operating
Disinfection Byproduct Stage 2 Monitoring - Laboratory analysis	(1) Clearwell	One Time	3rd Quarter of 2023 (July - September)

Please contact Sarah Page at sepage@utah.gov with any questions.