

WYOMING WATER ASSESSMENT AND PROTECTION PROGRAM (SWAP)



SOURCE WATER ASSESSMENT PROGRAM EXECUTIVE SUMMARY

Source Water Assessment Prepared For:
Granger

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SOURCE WATER ASSESSMENT SUMMARY FOR Granger

PWS Source Water Assessment Summary

The Granger water system is classified as a community surface water supply. The treatment plant is located within the Town of Granger, which is located about 30 miles west of Green River and five miles north off I-80 at the Kemmerer exit. Treated water is provided to a residential population of 166 through 88 service connections year round. Source water for this facility is obtained from the Green River, which is located about 15 miles northeast of the plant. Water taken from the river is transported to the Granger Treatment Plant, using the FMC Company (PWS #5600728) river intake pump station and pipeline.

In general, the Granger water supply received a medium susceptibility rating for land use. The medium rating resulted from the high percentage of forested land within the source water area. The intake generally received low susceptibility ratings with respect to point source and transportation corridor contaminants due to the lack of these within Zones 1 and 2. The following report contains the source water delineation and susceptibility analysis for the Town of Granger, PWS #5600020.

Delineation Methods

Because the Town of Granger obtains water for its community water system from a surface water source, Lidstone completed a surface water delineation of the intake.

Surface Water Sources

Granger obtains all of its municipal water from the Green River intake. Additional information on this source is included on the enclosed Surface Water Information Sheet.

As shown on the enclosed delineation maps, the source water area includes most of the Green River basin. Zone 2 extends 15 river miles upstream from the intake and includes a 1,000 foot buffer on both banks of the Green River. Zone 3 includes the remaining Green River watershed upstream from the diversion structure.

Integrity Summary

The Town of Granger obtains its surface water from the Green River. The intake was constructed before 1983, when less stringent construction standards were required by the State of Wyoming. Available records also indicated that the area around the intake is protected, that the intake is screened to protect against the infiltration of potential contaminants, and that the intake is regularly inspected. As shown on the Integrity Summary Table, Granger's intake received an integrity score of 4. This value reflects the intake's older construction date and the long conveyance length of the pipeline.

Water Source Sensitivity Summary

The Town of Granger maintains one surface water intake on the Green River. As shown on the Source Sensitivity Summary Table, the Town's intake received a sensitivity score of 10.

The intake received the maximum sensitivity score for two reasons. The first reason is because it obtains water from a surface water source. The second reason is that laboratory analysis of water samples from the Town within the last five years detected a few contaminants that are listed on EPA's primary and secondary drinking water standards. These include fluoride and sulfate among others. Despite detection, these contaminants were generally detected at concentrations below the EPA's maximum contaminant levels.

Water System Susceptibility Rating

Susceptibility is defined as the potential for a public water supply to draw water contaminated at concentrations that would pose a threat or concern to human health. In general, Granger received a medium land use susceptibility rating because a portion of the land surrounding the water source is forested. Due to the lack of potential sources in Zones 1 and 2, the intake rated low for susceptibility to point source and transportation corridor contaminants. Susceptibility ratings for each type of potential contaminant source are summarized on the attached susceptibility tables.

A review of your PWS's routine water analysis results revealed that one or more chemicals that are considered contaminants in drinking water were detected at some time within the last five years. Chemical detections have a large impact on your PWS's sensitivity score because it may indicate that there is a pathway for contaminants to reach the water supply. However, it is likely that these chemicals are present only in small amounts and are not a danger to your health. Some of these chemicals may also occur naturally in water.

For more information about which chemicals were detected, please contact the PWS for a copy of the most recent Consumer Confidence Report or water analysis results. Chemical detections at levels that are a concern to human health are reported on the EPA's website: http://www.epa.gov/enviro/html/sdwis/sdwis_query.html. To see if your PWS has exceeded the federal primary or secondary drinking water standards, just click on the State of Wyoming and then type in the name of your PWS. Consumer Confidence Reports are prepared by the PWS on a yearly basis. The reports should include information about any chemicals found in the water, even those found at very low levels. Please contact Kim Parker at DEQ, 307-777-7781, or WARWS for assistance. You may also contact EPA to find out what contaminants were

detected. You may have to fill out a Freedom of Information Act request to obtain the water test results for your PWS. Please call EPA's Safe Drinking Water Hotline at 1-800-426-4791.

**POINT SUSCEPTIBILITY SUMMARY TABLE
FOR Granger
Point Source Susceptibility Summary**

It may appear from the results of this point source susceptibility summary table that your system has too many PSOCs influencing the final ratings. In some cases, a specific PSOC falls within a specific contaminant inventory zone shared by multiple wells or intakes. When this is the case, that PSOC will be scored for each intake. For example, an underground storage tank may appear within a contaminant inventory zone shared by four different wells. This would cause that single storage tank to be entered into the table four times, or once for each well or intake.

Point Source Type	Low	Medium	High
None Identified	N/A	N/A	N/A

- * Illustrates the number of PSOCs in a particular rating class for all water sources
- * N/A - Not Applicable