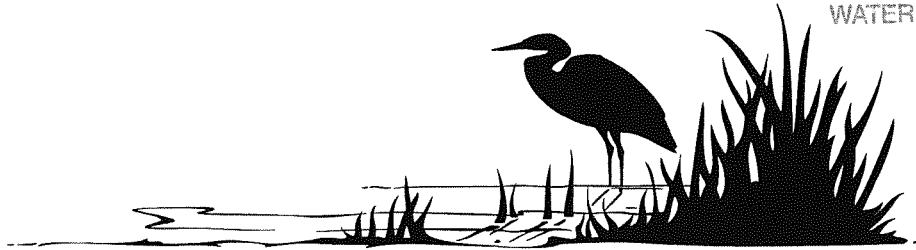


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DEC 30 2011

DEPARTMENT OF
WATER RESOURCES



CITY OF CAREY, IDAHO

Public Works Department

20482 Main Street, PO Box 9, Carey, Idaho 83320

(w) 208-823-4045 (f) 208-823-4171

careywater@frontier.com

22 December 2011

Idaho Department of Water Resources
PO Box 83720
Boise ID 83720-0098

Re Wr 37-22661 items on completion form

Item 7 conditions of permit

City of Carey is an active member of the Carey Valley Ground Water District and is paying into the mitigation plan of the district.

This water right combined with the other water rights of the city brings the total flow to approximately 2100 GPM which should meet the flow required by the water master plan completed in 2008 by Pharmer Engineering. The Carey Rural Fire District requires 1000 GPM for residential and 2000 GPM for commercial/light industrial areas. The well flows in addition to 150,000 gallon storage should meet this requirement.

Attached is a copy of the Executive Summary of the Pharmer report.

If you have any questions or require additional information, please contact me at (208) 309-0319.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert Simpson". The signature is stylized and cursive.

Robert Simpson
Public Works Director

Executive Summary

Future Demand

Improvements presented in this Water Facility Plan were developed to meet the City of Carey's (City) growing water demand through 2028, while meeting applicable Idaho Department of Environmental Quality regulations for water quality, fire flow, and mechanical redundancy. The City's 2007 end-of-year population was estimated at 697 people, and population in 2028 is projected to be 2,442, which is equivalent to a 5.97% annual growth. Based on projected future growth, design water demands were developed and are summarized in Table E-1.

Table E-1. Demand Projections Summary (gallons per minute per million gallons per day)

Year	Connections	Population	Average Day Demand	Maximum Day Demand	Peak-Hour Demand
2008	219	740	79 / 0.11	283/0.41	391
2013	329	997	106 / 0.15	358/0.51	504
2018	475	1,344	143 / 0.20	460/0.66	656
2023	669	1,812	192 / 0.28	596/0.86	862
2028	928	2,442	259 / 0.37	781/1.12	1,138

Fire Flow

While meeting user demand, the water system must also meet fire flow requirements, which are determined by the Carey Rural Fire Department. The recently adopted (March 2008) fire flow ordinances require a fire flow of 1,000 gallons per minute for residential areas and 2,000 gallons per minute in commercial/light industrial areas. Both are based on a one-hour duration.

The existing distribution system has enough storage capacity to supply the residential fire flow to future developments; however, not enough storage exists to supply the commercial/light industrial fire flow. In addition, the majority of the piping within the distribution system is undersized and cannot deliver the required fire flows, with the exception of the north end of the City.

Wells

The existing water system has enough capacity to meet Idaho Administrative Procedures Act (IDAPA) 58.01.08.552.07 requirements whereby the system must be capable of providing a minimum 800 gallons per day per residence, plus irrigation demands. This requirement can be met until approximately 2018.