

Carnhope Irrigation District #7

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Contingency Plan for Carnhope Irrigation District #7

Carnhope Irrigation District has one wellfield consisting of two wells. There are limited alternatives to meet the impacts of loss of this wellfield. Contamination of the well field would have severe impacts on the district. The following is a summary of system characteristics relevant to understanding operational contingencies:

1. The district consist of 448 services, 26 of which are small commercial businesses.
2. Carnhope has an intertie with Spokane Water District #3 located 1/2 block East of Mckinnon Street on Fourth Avenue in the Spokane Valley.
3. Carnhope has no storage capacity, but has a generator capable of running the pumps. Water is pumped directly into the system from the wellfield.
4. System demands range from .32 MGD during winter months, to .85 MGD during peak summer months.
5. Well No. 2, (SO3 on the WFI) has a depth of 130 feet and a static water level of 56 feet. It is 50 feet deeper than Well No. 1 which also has a static water level of 56 feet.

Short Term Action

Carnhope's intertie is pressure activated and automatically allows water into the system if the pressure drops below 30 psi. As pressure rises the valve closes. In the event of contamination the valve could be fixed in the open position to allow water to travel unimpeded into the system.

A boil order may be appropriate depending on the nature of the contaminant.

Long Term Action Plan

Carnhope will consider the following options to meet their long term needs:

1. Purchasing water from Spokane Water District #3 through the existing intertie.
2. Construct an additional intertie to aid in fire flow demands.

3. If necessary, deepen existing wells in an effort to draw water from below the contaminated area.

4. Conservation and Rationing- All district patrons would be required to curtail unnecessary water use, (i. e. Lawn watering and irrigation). This would reduce the quantity of water needed and make better use of water available.

Other Alternatives

1. Purchase water from purveyors other than Water District #3.

2. Treatment.

3. Purchase suitable property for new well site.

Summary

All options should be explored to find the most logical and cost effective course of action.