

Entry Point and Common Aquifer Grouping Policy

Entry Point Grouping:

All water systems will sample for Phase II/V contaminants at the source. In cases where sources mix before entering the distribution system and before any service connections the Phase II/V samples can be taken at the entry point to the distribution system. In these instances the sources will be combined as an entry point on the SDWIS database and the monitoring schedule applied to the entry point.

Water systems will only sample at the entry points when all the sources combined at that point are in use. In order to ensure that this is taking place the water system must submit to DDW a sampling plan that shows the sources in the group source sampling station, their operational periods, and planned dates of sampling. If a source for a particular entry point goes inactive for more than one year the system will notify DDW. Systems must also submit copies of Phase II/V contaminant and contaminant group results for each source in the entry point grouping. This data must include the new source inorganics and metals, volatile organics, pesticides, radionuclides and nitrate taken directly at each source in the potential grouping.

The Rules section will review the entry point submittal and decide if the system qualifies for entry point sampling.

Common Aquifer Grouping:

Water systems that have sources in a common aquifer must apply for those sources to be grouped into a sampling station. This application must include the eight items below.

A registered professional geologist or professional engineer must prepare for the system:

1. Detailed well logs, which include the screened intervals and descriptions of the geologic materials.
2. A cross section prepared from the well logs which clearly indicates that the wells draw water from the same aquifer.
3. A review of the chemical data that demonstrates that the waters from the wells are from the same aquifer.
4. A statement, signed by the professional geologist or engineer preparing the submittal, that it is his/her professional opinion that all the wells to be considered for common aquifer grouping draw their water from the same aquifer.
5. The professional geologist or engineer shall stamp and sign the report.

The water system manager must submit:

6. A signed and dated statement from the water system's designated person that composite sampling will not threaten public health.
7. A sampling plan for the sources to be grouped that shows the Phase II/V samples will be rotated through each active source in the grouping.
8. Copies of data or lab numbers of background Phase II/V samples for each individual source in the grouping. This data must include the new source inorganics and metals, volatile organics, pesticides, radionuclides and nitrate taken directly at each source in the potential grouping.

The Administrative Services section will review the common aquifer submittal and decide if the sources qualify for common aquifer status.

Implementation:

All public water systems that currently have grouped source sampling stations will receive notice of this new policy by July 1, 2010. Systems will be required to submit to DDW the background data, sampling plans, common aquifer items if applicable, and whether their sources are common entry point or common aquifer status by the following deadlines:

System population	Deadline for source grouping application
10,000 and above	December 31, 2011
3,300 and above	December 31, 2012
500 and above	December 31, 2013
less than 500	December 31, 2014

If a water system has not submitted their source grouping application to DDW by the above deadlines then the current source grouping will be removed.

Waivers:

In order to accommodate sampling waivers the water system will use the most stringent sampling frequency. For example if a system has two sources that combine at the entry point and one is required to sample quarterly for pesticides and the other is required to sample once every three years, the water system will have to sample quarterly at that grouped source sampling station.

New Sources:

New sources are not allowed to be included with common aquifer or entry point sampling until after their new source chemical data is completed and approved. After the initial chemical samples are taken and the results are satisfactory then the source can be reviewed for entry point sampling by DDW. The professional geologist or engineer report must be updated to include the new source, and approved by DDW staff before a new source can be included in common aquifer sampling.

Detected Contaminants:

If at any time there is a detection of a volatile organic or pesticide contaminant then those contaminant groups will be taken out of the grouped sampling and applied to the source. If at any time there is a detection of radionuclides over 15pCi/, Nitrate above 5.0mg/L and inorganics and metals above their respective MCLs then those contaminant groups will be taken out of the grouped sampling and applied to the source