

Mason County Fire District 5 Proposed Agreed Order for Well Monitoring and Analysis at Station 5



Please Provide Comments

The Washington Department of Ecology (Ecology) is requesting your comments on an agreed order between Ecology and Mason County Fire District 5. The agreed order requires Mason County Fire District 5 to install two groundwater monitoring wells at Station 5 and monitor levels of petroleum hydrocarbons until contamination levels are below state standards outlined in the Model Toxics Control Act (MTCA, RCW 70.105D).

Please see the right hand column for information on where to access documents and send your comments.

Site History

The site is located at East 6011 Agate Road, Shelton. On November 21, 1994, a 550-gallon gasoline underground storage tank was removed from the site. AGRA Earth & Environmental Consultants sampled the tank area for contamination when the tank was removed. Petroleum hydrocarbon contamination of the tank area soil was confirmed on December 5, 1994.

Four groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4) were installed at the site in February 1995. Samples indicated the groundwater was contaminated with petroleum hydrocarbons above MTCA cleanup levels, requiring clean up of the site.

The contamination was reported to Ecology on March 1, 1995.

In July 1995, approximately 1,000 cubic yards of petroleum contaminated soil was excavated and stockpiled on site for treatment by bioremediation methods. Results of samples taken from the stockpiled and treated soil in April 1997 were below MTCA cleanup levels, indicating the risk to human health and the environment were at acceptable limits. The treated soil remains at the site.

Two additional groundwater monitoring wells (MW-5, MW-6) were installed in March 1997, for a total of six monitoring wells. During sampling in July 1997, liquid phase petroleum hydrocarbons were found in monitoring well MW-2. In September 1997, petroleum contaminated soil was dug up in the vicinity of well MW-2 and stockpiled on site for bioremediation. The well was removed during the excavation.

Excavation activities in September 1999 (southwest of the initial excavation) removed approximately 800 cubic yards of petroleum contaminated soil in the area of wells MW-3 and MW-5, and stockpiled this soil on site. Similar to MW-2, wells MW-3 and MW-5 were removed during the excavation.

The excavation extended approximately 22 feet deep. An oxygen releasing compound was placed in the excavation before backfilling with clean soil to expedite cleanup of the groundwater.

March 2005 Fact Sheet

Public comments will be accepted:

**March 8 through
April 6, 2005**

Please direct questions and written comments to:

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Documents are available for your review at:

William G. Reed Library

710 W Alder Street
Shelton, WA
(360) 426-1362

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Web sites

www.ecy.wa.gov/programs/tcp/sites/MasonCountyFD5/mcfd5_hp.html

www.ecy.wa.gov, then click on
"Public Events Calendar"

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In May 2000, sampling of the three remaining monitoring wells was attempted. MW-1 could not be located and MW-4 was found to be inadequate for sampling. MW-6, the monitoring well located up-gradient from the former tank location, was the only well suitable for sampling. Samples collected from MW-6 and analyzed in May 2001 indicated no petroleum hydrocarbons, benzene, toluene, ethyl benzene, or xylene contamination above MTCA cleanup levels.

In April 2003, MW-6 could not be located and two new groundwater monitoring wells were installed. The two new wells were sampled in May 2003. MW-1A was found to contain petroleum hydrocarbons and benzene above MTCA cleanup levels. Total petroleum hydrocarbons, benzene, toluene, ethyl benzene, and xylenes were not detected in samples from MW-4A.

The extent and magnitude of groundwater contamination down-gradient from the former tank location is still unknown at this time.

Next Steps

Exhibit B of the agreed order is a draft work plan. The draft work plan outlines the next steps to be taken by Mason County Fire District 5. Key steps are:

- Review and analyze well records of wells within one-half mile of the fire station to determine potential contaminant migration.
- Install one or two groundwater monitoring wells down gradient from the former tank location.
- Sample soil for chemical analysis during well installation.
- Sample four or five groundwater monitoring wells (three existing and one or two new) until such time as four consecutive quarters

of results below MTCA cleanup levels are obtained.

- Place an oxygen releasing compound in monitoring wells if needed.
- Prepare reports for each activity performed at the site.

Ecology Wants Your Comments

You are invited to submit comments on the draft agreed order March 8 through April 6, 2005. Please see the front of this fact sheet for details on where you can access documents and where to submit your comments.

Location Map

