

Cadet and Fruit Valley Neighborhood Indoor Air and Groundwater Cleanup Status Update No. 1 June 16, 2003



This is the first of a continuing series of updates documenting indoor air and groundwater cleanup activity at Cadet Manufacturing (Cadet) and in the Fruit Valley Neighborhood (FVN). This information is a follow up to information presented at the May 14, 2003, meeting with the Fruit Valley Neighborhood where the departments of Ecology and Health (DOH) and Cadet Manufacturing provided the results of the May 2003 Health Consultation report prepared by the DOH. Information presented at the May 14 meeting is discussed in the **Focus on Indoor Air** document included with this update. Updates will be provided as needed to document completed and upcoming tasks.

Source Control:

On May 6, 2003, drilling began on the Cadet property for installation of the air sparging and soil vapor extraction system to remove solvent contamination from groundwater beneath the Cadet building and surrounding property. This is a groundwater source contaminant removal and containment action. The goal is to prevent groundwater that is moving into and past the Cadet source area from becoming contaminated. This action would decrease the solvent concentration level in groundwater beneath the Cadet facility. This action would also decrease the solvent concentration level in groundwater moving to and beneath the Fruit Valley Neighborhood (FVN). This means the potential for solvent vapor generation into indoor air would decrease as would the vapor concentration level.

This present system design includes 73 air sparging points and 41 soil vapor extraction wells. The air sparging points would inject air into the groundwater where bubbling action removes solvent contamination from the groundwater as a vapor phase. This vapor would be actively recovered by the vacuum from the soil vapor extraction wells and then discharged through canisters containing activated charcoal used to absorb the solvent from the vapor. The canisters may not be required if solvent vapor concentrations are below ambient air standards. Ecology has been informed by Cadet's consultant, AMEC Earth & Environmental, Inc. (AMEC) that the system should be operational in August 2003.

Indoor Air Cleanup:

On June 10, 2003, AMEC began contacting the FVN residents where indoor air solvent concentrations have been detected at elevated concentrations attributed to the groundwater contamination beneath their homes. AMEC is coordinating visits to homes to take measurements and evaluate building configurations that are important in the custom design and installation of home soil vapor vacuum systems.

Presently, AMEC and Cadet are drafting a Work Plan for Ecology's review for the installation and operation of home soil vapor vacuum systems and preparing a bid document with system specifications which will be used for selecting a qualified contractor to install and maintain the systems. One of our primary goals is to work with each home owner to create the least amount of disturbance to your home life and space and to install and operate an effective and virtually sound-free system.

Fruit Valley Neighborhood Groundwater Cleanup:

The home soil vapor vacuum systems are a temporary measure to be used in conjunction with the groundwater cleanup activity to be initiated in the FVN. AMEC and Cadet are drafting a Work Plan for Ecology's review for testing a groundwater recirculation well system that would be used for removing solvent contamination from groundwater. Pilot testing would determine if this technology would be appropriate and if these wells could be installed in the FVN.

The attached Cadet and Fruit Valley Neighborhood Indoor Air and Groundwater Cleanup Schedule chart provides information on projected task startup and duration.