

## Serry's Dry Cleaning Corvallis, Oregon

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### Project Summary

The Oregon Department of Environmental Quality (DEQ) is managing site investigation and cleanup activities under the Dry Cleaner Program at the former Serry's Dry Cleaning in Corvallis, Oregon. DEQ is conducting groundwater monitoring to study the effectiveness of a remediation pilot study using Adventus Americas' EHC in the summer of 2006. The initial results show that EHC injections have been extremely effective in meeting the pilot study objectives.

### Site Background

The site is located at 1075 NW Van Buren Avenue in Corvallis, Oregon, and was operated as a dry cleaners from about 1965 to 1983. PCE was used at the facility during its operation as Serry's Dry Cleaners.

The former cleaners building is now occupied by a specialty Asian grocery store called Rice 'N' Spice. The owners of the former Serry's Dry Cleaners submitted a Dry Cleaner Environmental Response Application in July 2001, after they became aware of soil and groundwater contamination while performing an investigation for property transaction.

Contamination, consisting of the dry cleaning solvent tetrochloroethylene (PCE) and its breakdown products have contaminated the soil and groundwater beneath the site. Solvent vapors have threatened nearby residential properties.

### Cleanup Objectives

DEQ wanted to significantly reduce the levels of solvent contamination in the shallow groundwater to reduce the threat of vapor intrusion into nearby residences, especially east of the former cleaners building.

### Cleanup Activities

In December 2005 DEQ conducted a preliminary pilot test using several remediation products, including Newman Zone© emulsified oil and two zero valent iron products (EHC and EHC-A) by Adventus Americas (Adventus). The initial pilot test determined that all three materials could be injected at the site with the correct injection equipment. Based on these results, Adventus agreed to provide services and products to DEQ for a full scale pilot, using their EHC product.

A full scale remedial pilot study was implemented in August 2006 by injecting 10,250 lbs of EHC into an area of 800 ft<sup>2</sup> in 32 direct injection locations. EHC was injected in a grid pattern east of the Rice 'N' Spice building. The pilot study was funded by an EPA Pilot Study grant.

### Pilot Study Effective in Reducing Contamination

Four well clusters were sampled over time after the injections and showed very high removal efficiencies. Concentrations of PCE as high as 22,000 µg/L, were reduced by 99.9% within 12 months of the injections. Over the short-term, some TCE, cis-DCE and VC were formed, followed by near complete removal between 8 and 12 months. After 2 years, the concentrations have remained at or near non-detect and monitoring is continuing.

### For More Information

Contact the DEQ Project Manager, Don Hanson, at (541) 687-7349 or visit the DEQ Environmental Contamination Site Investigation (ECSI) web site for Serry's Cleaners at [Serry's Dry Cleaning](#)



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