

# Redfield Site

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## Off-Site Groundwater Characterization Report Summary

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April 2002

In the first quarter of 2002, EnviroGroup Limited., the environmental contractor for Brown Group Retail, Inc., performed an off-site groundwater investigation in neighborhoods north and northwest of the former Redfield site, including portions of Glendale. The purpose of the investigation was to evaluate concentrations of solvents in the groundwater, assess certain risks due to releases, and to confirm the geographic extent of the affected groundwater flowing from the vicinity of the former Redfield site.

Water samples from new and existing groundwater monitoring wells were tested and analyzed by an independent laboratory. The detailed findings of the analysis are available in the technical report, *Off-Site Groundwater Characterization Report*, submitted to the Colorado Department of Public Health and Environment (CDPHE) on March 29, 2002. The following summarizes the findings from the report and provides an overview of how the data were collected.

### Results

The results confirmed that the boundaries of the groundwater plume are no larger than previously determined. None of the compounds were detected in Cherry Creek water.

Within the plume boundaries, concentrations of compounds are variable from point to point. Concentrations of the compounds west of Holly Street are similar to levels found by Colorado Department of Transportation (CDOT) during previous investigations, indicating no significant change in conditions over the past few years. Because groundwater concentrations have not changed, this would indicate that indoor air concentrations for the compounds also would be consistent with previous testing conducted by CDOT. Data also indicated that the CDOT Materials Testing Laboratory plume contributes to the compounds found in the groundwater west of Holly.

The results of the investigation show that sand-filled channels or grooves cut naturally into underground bedrock control the direction of groundwater flow in the Cherry Creek valley vicinity. The compounds of concern generally are confined to shallow groundwater flowing in the bedrock channels. No compounds were found in deeper bedrock aquifers, or north of Cherry Creek.

### How the Data Were Collected

Between 1998 and 2000, EnviroGroup installed 50 groundwater monitoring wells in the neighborhoods located north and northwest of the Redfield site. The results of groundwater investigations conducted by CDPHE in 2001, as well as CDOT in 1998 and 1999, also were considered during this study.

## **For More Information:**

A copy of the *Off-Site Groundwater Characterization Report* is available at:  
Virginia Village Library, 1500 S. Dahlia St., 303-757-6662  
Glendale Public Library, 999 S. Clermont St., 303-691-0331

### **Community Relations**

#### **Representatives**

**Lisa Sigler**, Brown Group/Redfield  
Community Relations  
Representative  
(303) 778-8355 phone  
(303) 778-8359 fax  
lisa@siglerinc.com

**Marion Galant**, Colorado  
Department of Public Health and  
Environment Community Relations  
Representative  
(303) 692-3304 phone  
(303) 759-5355 fax  
marion.galant@state.co.us

#### **Redfield Information Line:**

(303) 637-2503

#### **Redfield Web site:**

<http://www.redfieldsite.org>

To supplement the information collected from these wells, EnviroGroup installed 23 new monitoring wells (including 6 wells north of Cherry Creek). Additionally, 13 wells previously drilled by CDOT that were located west of S. Holly St. were resampled, and water level measurements were taken in 36 additional CDOT wells. Surface water in Cherry Creek and storm sewer outfalls also were measured, as were vapors from soil located near buried utility lines.

The characterization provides information necessary for developing an effective corrective action plan.