



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 • (312) 814-6026

PAT QUINN, GOVERNOR

DOUGLAS P. SCOTT, DIRECTOR

217/558-8280

November 23, 2009

Dr. Damon T. Arnold
Director
Illinois Department of Public Health
535 West Jefferson Street
Springfield, Illinois 62761

RECEIVED
NOV 30 2009
MCHENRY COUNTY
DEPT. OF HEALTH

RE: Contaminated Groundwater near Union (IL1110900) located in McHenry County

Dear Dr. Arnold:

This notice is provided as agreed under Illinois' Groundwater Contamination Response Strategy, developed by the Interagency Coordinating Committee on Groundwater (ICCG). Thus, due to the threat of contaminating off-site private wells, the Illinois Environmental Protection Agency (EPA) recommends that notification, pursuant to 415 ILCS 55/9.1, be provided to private water system wells in the area. As agreed to in the ICCG response strategy, the Illinois EPA requests that, when possible, private well sampling results be forwarded to the Illinois EPA.

The Illinois EPA further recommends that any press release, or other public notice, be based on this document, and such release or notice should include a local health department contact name.

Groundwater contamination was previously detected in one of Union's emergency back up community water supply (CWS) wells. The volatile organic compounds (VOCs) detected in the raw water may be affecting private drinking water system wells near Union. In this instance, the concentration of 1,2-Dichloroethane in the raw water from Well #3 (WL20174) was 4 micrograms per liter (ug/l) in 1987, 2.99 ug/l in 2005, and 4.3 ug/l in 2008. Based on Illinois EPA records, the Village placed this well on emergency status in 1982. However, due to the large volume of water pumped by a CWS well, the concentration of contaminants in water pumped may be less than the actual concentration found in the aquifer, hence causing a masking effect. The maximum contaminant level (MCL), and groundwater standard, for 1,2-Dichloroethane is 5 ug/l. The MCL standard is determined by U.S. EPA under the authority of the federal Safe Drinking Water Act (SDWA). Violation of the standard is measured by either a running annual quarterly average exceeding the numeric standard or a one-time concentration exceeding more than four times the standard.

Rockford • 4302 N. Main St., Rockford, IL 61103 • (815) 987-7760

Elgin • 595 S. State, Elgin, IL 60123 • (847) 608-3131

Bureau of Land – Peoria • 7620 N. University St., Peoria, IL 61614 • (309) 693-5462

Collinsville • 2009 Mall Street, Collinsville, IL 62234 • (618) 346-5120

Des Plaines • 9511 W. Harrison St., Des Plaines, IL 60016 • (847) 294-4000

Peoria • 5415 N. University St., Peoria, IL 61614 • (309) 693-5463

Champaign • 2125 S. First St., Champaign, IL 61820 • (217) 278-5800

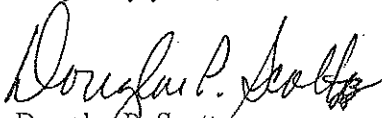
Marion • 2309 W. Main St., Suite 116, Marion, IL 62959 • (618) 993-7200

No violations of drinking water standards or MCLs have occurred in Union. The MCL is the enforceable standard that is not to be exceeded for contaminants in public drinking water supplies. Moreover, Union has provided annual Consumer Confidence Reports to their residents about the quality of their drinking water since this requirement began in 1999.

Attachment I provides a map that shows the location of Union's CWS wells and illustrates potential private drinking water system wells (i.e., wells serving owner-occupied single-family dwellings) in the area. The Illinois EPA will initiate a process to evaluate the potential sources of contamination in the area.

Should you have any further questions or concerns, please contact Dean Studer at 217-558-8280 or via email at dean.studer@illinois.gov

Very truly yours,

















A handwritten signature in cursive script, appearing to read "Douglas P. Scott".

Douglas P. Scott
Director

Public Notice Area for Union (Facility #1110900)



Legend

- | | | | |
|---|---|---|----------------------|
|  | Community Water Supply Wells |  | 5-Year Recharge Area |
|  | Affected CWS Well |  | Railroads |
|  | Non-Community Water Supply Wells |  | Interstates |
|  | ISGS Database Wells |  | US Highways |
|  | Notice Area Boundary |  | State Highways |
|  | Estimated Groundwater Flow Direction |  | Local Roads |
|  | McHenry County Aquifer 5 Potentiometric Surface |  | Water |
| | |  | Municipal Boundaries |
| | |  | County Boundaries |

0 0.25 0.5 1 Miles



Illinois EPA
Groundwater Section

Source Information:
Aerial Photography from NAAP 2005.
CWS Wells and Recharge Areas from Illinois EPA, 2009.
Transportation from Navteq, 2008. Hydrology from NHD, 2009.
NonCWS Wells from IDPH, 2008. Geology and ISGS Database Wells from ISGS, 2009.