

East Troy Contaminated Aquifer Superfund Site

Meeting with City of Troy
September 21, 2009



Overview

- ◆ Site Location/Background
- ◆ Past U.S. EPA Response Actions
- ◆ Next Steps

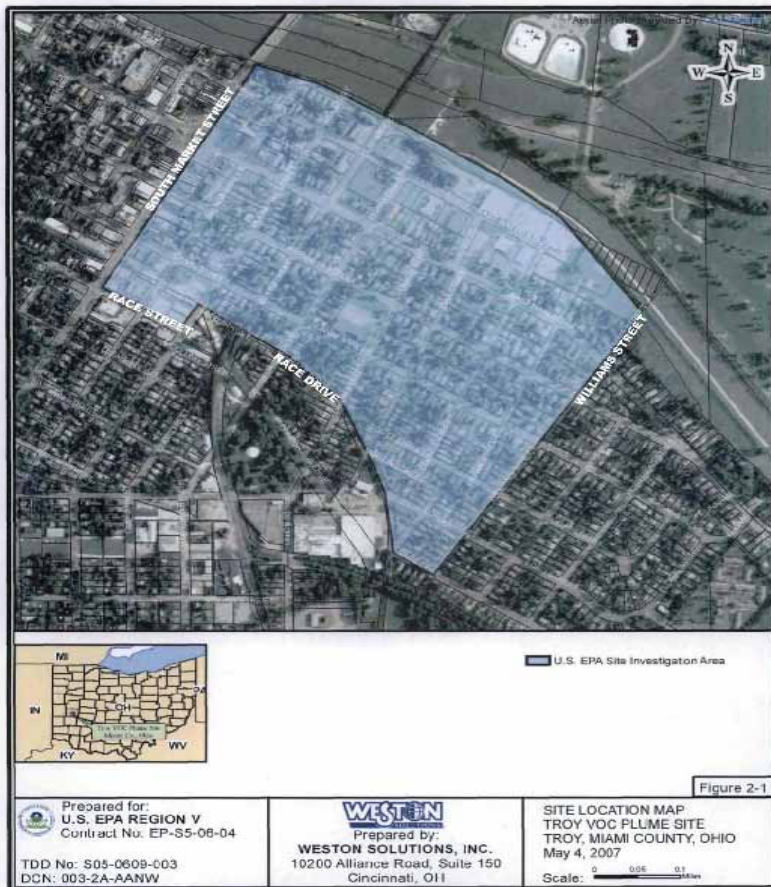
East Troy Contaminated Aquifer Site Location

East Troy Contaminated Aquifer Site Background



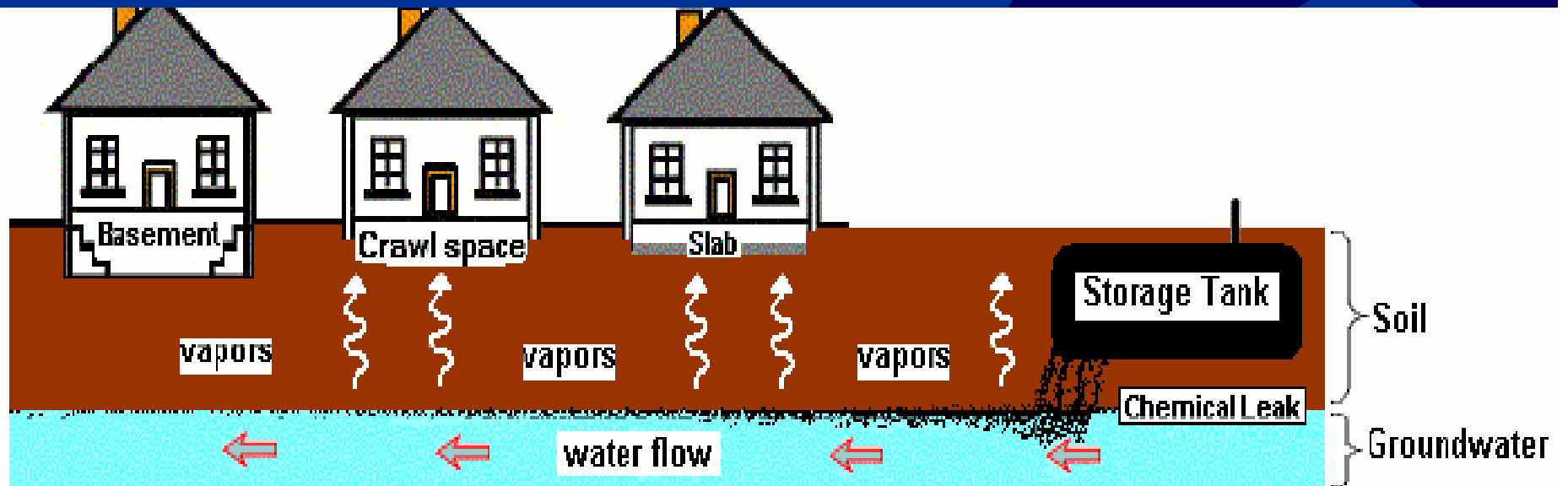
- Site includes a 12-square blocks where volatile organic compounds (VOCs) are present in groundwater, soils, and indoor air space of residential, public, and commercial properties
- Site boundaries and sources of contamination to groundwater will be delineated as part of the U.S. EPA remedial investigation

East Troy Contaminated Aquifer Site Background



- Primary groundwater contaminants are PCE & TCE (common solvents used to degrease metal parts and in dry cleaning industry)
- In June 2006, Ohio EPA requested U.S. EPA involvement – potential for vapor intrusion
- Site proposed for listing on NPL (09/2007) due to potential threat of contaminated groundwater migrating into city of Troy's drinking water supply wells

Vapor Intrusion

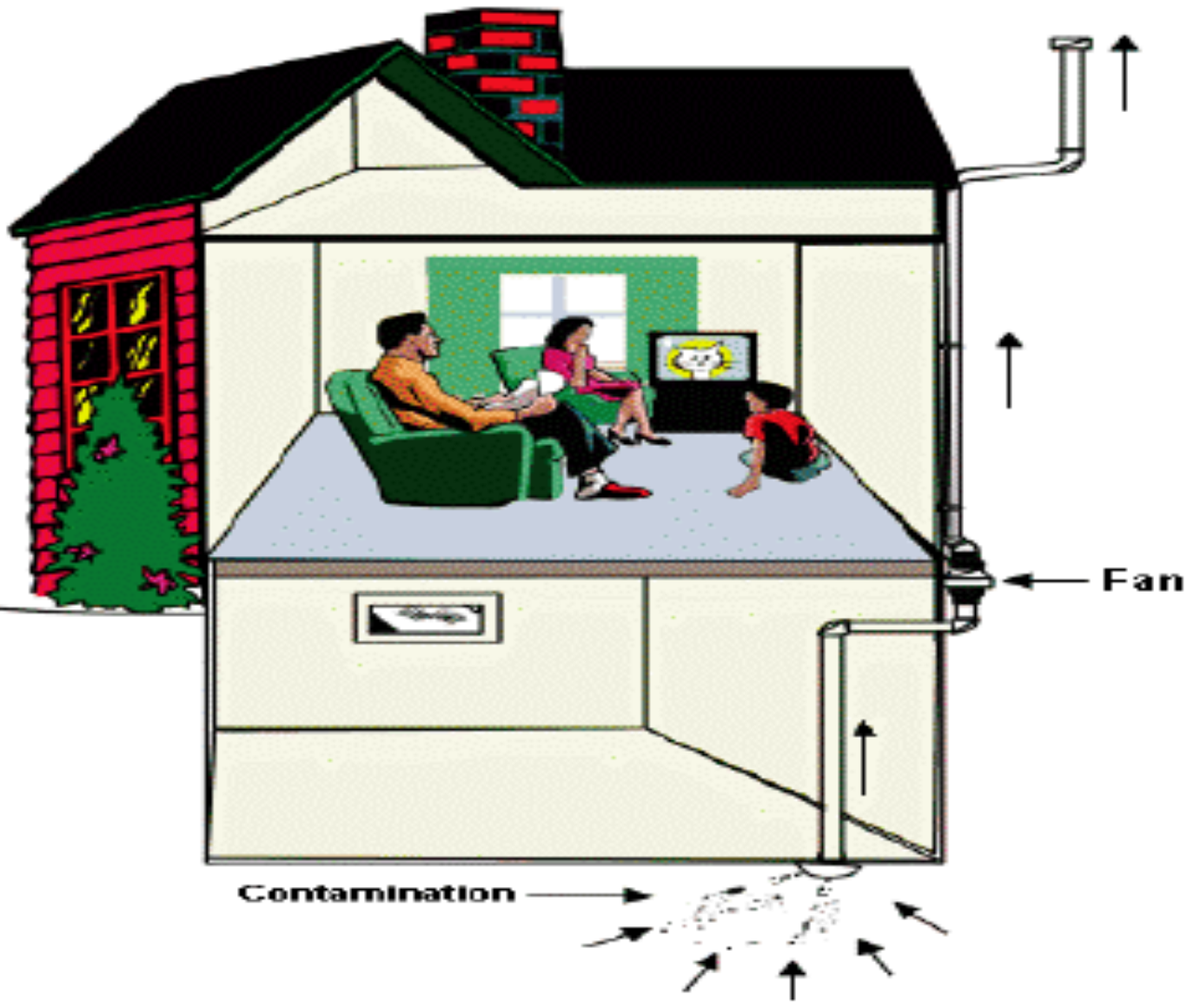


U.S. EPA Removal Action July 2006 – April 2008

- ❑ U.S. EPA sampled 85 homes, schools, and businesses for VOCs (July 2006 to April 2007)
- ❑ Sampling confirmed VOCs above health standards in indoor air at residential & commercial properties due to vapor intrusion
- ❑ Vapor abatement systems installed at 16 homes and one school (June 2007 – April 2008)



Radon Mitigation System



August 2008 – February 2009

- ❑ U.S. EPA negotiated with Potentially Responsible Parties to conduct and pay for investigation of the extent of contamination (remedial investigation / feasibility study (RI/FS); negotiations unsuccessful
- ❑ U.S. EPA – Lead Agency; federally funded RI/FS
- ❑ Ohio EPA – Support Agency

Remedial Investigation - Next Steps

Phase 1 Sampling (Fall 2009)

- U.S. EPA Phase 1 Sampling
 - groundwater
 - soil
 - surface water
 - river sediment
 - residential sub slab gas / indoor air)

Remedial Investigation Phase 2 Sampling (Spring 2010)

- ◆ Evaluate Fall 2009 data
- ◆ Identify data gaps
- ◆ Collect additional samples if necessary
- ◆ If houses are found to have vapors at levels causing health risks, mitigation systems will be installed

Coordination with City and Public

- ◆ Public meeting / fact sheets
- ◆ Access agreements from residents for sampling and installation of systems
- ◆ Access agreements from city for work in public right of way (roads, city property, etc.)

U.S. EPA Web Site

<http://www.epa.gov/region5/superfund/npl/ohio/OHSFN0507962.htm>

Superfund Information Systems Home | US EPA - Windows Internet Explorer provided by EPA

US EPA <http://www.epa.gov/superfund/sites/siteinfo.htm>

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Superfund Site Information

[Superfund Site Information](#) contains general information on sites across the nation and U.S. territories including location, contaminants and cleanup actions taken. Use this tool to find information on sites being assessed under the Superfund program, hazardous waste sites and potential hazardous waste sites

National Priorities List (NPL) sites (i.e., sites proposed to the NPL, currently on the final NPL or deleted from the final NPL) are displayed in a standardized site progress profile format. Each profile includes information such as the current status of cleanup efforts, what cleanup milestones have been reached and how much liquid and solid-based media have been treated. Additionally, the profiles include links to information found on EPA Regional Web sites. All information is presented in easy to understand, non-technical language.

A search of sites that have been archived from the inventory of active sites can also be performed. At the top of the Search page, select the "Archived Sites" radio button.

Site Documents

A variety of documents are written during the cleanup and assessment of sites addressed under the Superfund program. The online collection of [Site Documents](#) ranges from preliminary assessments, written during the early stages of reviewing a site for contamination, to Five-Year Reviews, written after the remedial action (treatment) is implemented. Many of the documents can be searched on keyword (such as a contaminant or remediation type), or other criteria.

Data Element Dictionary

If you are unfamiliar with a term found within the Superfund Information System area of EPA's Web site then visit the [Data Element Dictionary \(DED\)](#). In the DED you can search and view definitions and descriptions of the elements, tables and codes found in CERCLIS.

Related Topics

- For additional information on Superfund sites, please visit the [Superfund Sites Home](#) page.
- For information on the evaluation of potential hazardous sites, visit the [Site Assessment](#) page.
- Find out About Superfund - its current role and its history.
- Find NPL Sites on the U.S. map.
- Search TOXMAP: Environmental Health Maps to visually explore data from the U.S. Environmental Protection Agency (EPA)'s Toxics Release Inventory (TRI) and Superfund program. [EXIT EPA](#)

Superfund Site Information
Site Documents
Data Element Dictionary (DED)
Order Superfund Products

Superfund Information Systems: Site Progress Profile - Windows Internet Explorer provided by EPA

US EPA <http://cfpub.epa.gov/superfund/sites/siteinfo.cfm?id=0507962>

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Superfund Site Progress Profile

EAST TROY CONTAMINATED AQUIFER




EPA ID: OHSFN0507962

This profile provides you with information on EPA's cleanup progress at this Superfund site. This information includes: [Site Location](#), [Cleanup Progress Summary](#), [Cleanup Impact Summary](#), [Contamination](#), and [Cleanup Progress](#). Please use the links and the "More Details..." box to find more details on this site.

The data and content on this page were last updated on Wednesday, September 16, 2009.

More Details...

[More In-Depth Site Details](#) (EPA Regional Content)
[Site Contacts](#) (EPA Cleanup Managers, etc.)
[Other Names for this Site](#) (Aliases)
[View GPRA Measures at this Site](#) (see glossary)

Site Location	Cleanup Progress Summary	Cleanup Impact Summary
<p>Get an interactive map</p> <p>EPA Region 5 Serving Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin and 35 tribes</p> <p>Site: EAST TROY ALONG WEST BANK OF MIAMI RIVER Address: TROY, Ohio 45373</p> <p>County: MIAMI</p> <p>U.S. Congressional District: 08</p> <p>Population within one mile: 0-100</p>	<p> Early Action Initiated/Completed</p> <p> Study Underway</p> <p>Physical cleanup activities have started.</p> <p>view detailed list of cleanup activities at this site >></p> <p>The National Priorities List (NPL) is the list of the most hazardous sites across the U.S. and its territories.</p> <p>This site is on the NPL and is known as a Final NPL site (see glossary).</p>	<p>At each site, EPA assesses the risk to humans and the environment and determines the best approach to address the risk. During initial site studies and cleanup, EPA determines if current human exposures to contaminants are under control and takes actions to control any possible human exposures until cleanup has been completed. Once complete, cleanup provides long-term human health and environmental protection at the site.</p> <p> EPA is working to determine whether there are human exposures to contaminants</p> <p>see glossary definition for "Human Exposure Environmental Indicator Measure" >></p> <p>At each site with known ground water contamination, EPA documents whether ground water contamination is below protective risk-</p>

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