

Advocates for VHA Groundwater Plume Resolution

700 South 1600 East PCE Plume – CERCLA NPL Site Salt Lake City, Utah

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700 South 1600 East PCE Plume Site History

- VHA operated a dry cleaning facility on-site in late 70s
- Tetrachloroethylene (PCE), sometimes called Perc, is used as a dry cleaning agent or metal degreaser
- PCE was first detected at Mount Olivet irrigation well in the 90s
- SLC municipal drinking well was temporarily taken off line as a precaution after low levels of PCE were found

700 South 1600 East PCE Plume Site History

- PCE detected in East Side Springs area in 2010
- Site added to the National Priorities List in 2013
- VHA listed as potentially responsible party (PRP)
- VHA currently in the process of two remedial investigations
- ESS field work conducted from 2015 2017
 - 54 structures surveyed for vapor intrusion
 - Groundwater sampled at 42 locations
 - Surface water sampled at 50 locations

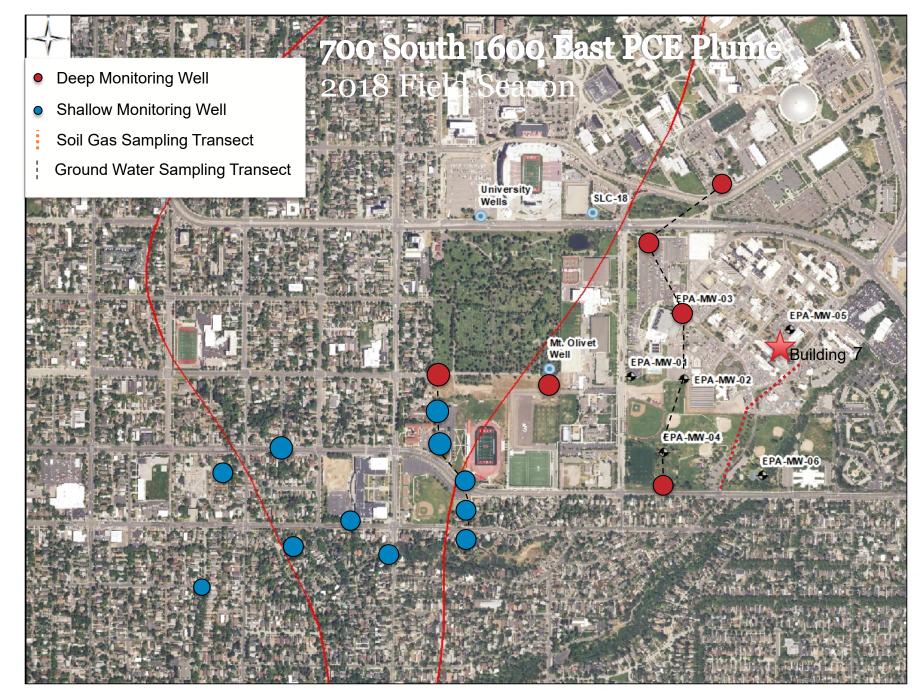
700 South 1600 East PCE Plume What's Happening in 2018?

What is happening in 2018?

- Accelerated Operable Unit-1 (AOU-1) Indoor Air Investigation
 - Draft Remedial Investigation Report and Draft Focused
 Feasibility Study due to be submitted in June 2018
 - Reports will focus on the potential for vapor intrusion from groundwater contamination

700 South 1600 East PCE Plume What's Happening in 2018?

- Operable Unit 2 (OU-2) Groundwater Investigation
 - EPA approved Remedial Investigation Work Plan
 - VHA to install shallow and deep monitoring wells, along with groundwater sampling, soil-gas analysis and surface water sampling
 - VHA will define dimensions and extent of plume, trace PCE plume to source and use research to help develop remedial methods



700 South 1600 East PCE Plume Direct-push rig



700 South 1600 East PCE Plume "Mini" drill rig installing shallow well on city street



700 South 1600 East PCE Plume Drilling rig for deep wells



700 South 1600 East PCE Plume Monitoring well completion



700 South 1600 East PCE Plume Drilling FAQs

Drilling FAQs

- How long does it take to drill a well?
- How loud will the drilling be and what time of day will you be drilling?
- Will there be vibration from drilling that could disturb my home?
- Will the drill rig emissions smell or affect air quality?
- Will local traffic be affected by drill rigs?

700 South 1600 East PCE Plume

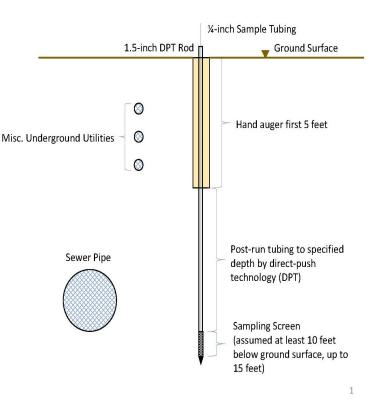
Questions?

VETERANS HEALTH ADMINISTRATION

700 South 1600 East PCE Plume Soil Gas Sampling along sewer line

Installation:

- Will perform Blue Stakes, as well as private utility locate of probe installation locations, prior to work
- Install temporary soil gas probes with direct-push technology (DPT) rig
 - In park, mats can be laid down to protect grass
 - Hand auger to 5 feet
 - 1.5-inch outer-diameter hollow DPT rod pushed to specified depth
 - Install ¼-inch tubing within DPT rod and sample soil gas
 - Remove tubing and rod
 - Backfill boring from bottom to top with bentonite (clay) and auger cuttings. In grass areas, replace top foot of boring with top soil. In asphalt areas, use cold patch to repair the boring through the asphalt.

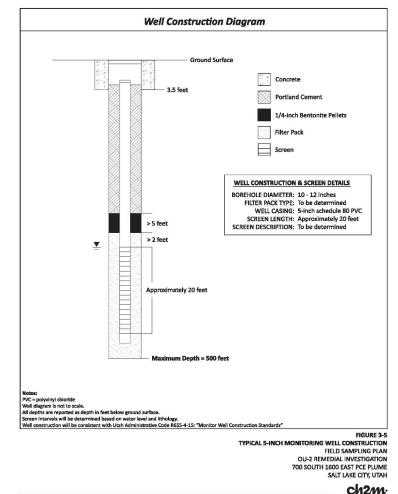


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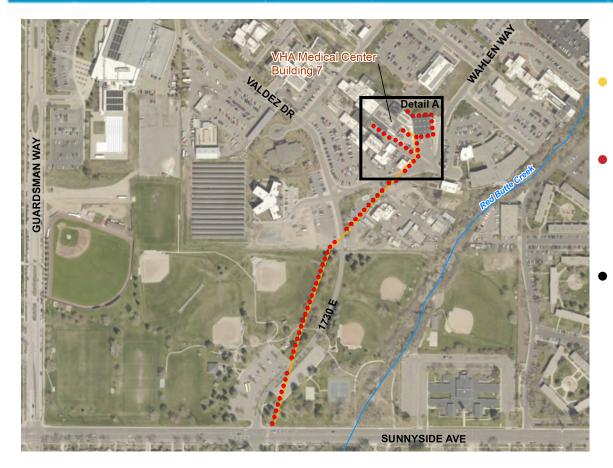
700 South 1600 East PCE Plume Groundwater investigation

Installation:

- Will perform Blue Stakes, as well as private utility locate for monitoring well installation locations, prior to work
- · Install monitoring well with rotary sonic drill rig
 - In grassy areas, mats can be laid down to protect grass
 - Hand auger to 5 feet
 - Either a mini-sonic or full size sonic drill rig will be used depending on depth needed for monitoring well
 - Install either a 2- or 5-inch inside diameter well
 - Flush-mount monitoring well completion
 - Backfill boring from bottom to top with bentonite (clay) and auger cuttings. In grass areas, replace top foot of boring with top soil. In asphalt areas, use cold patch to repair the boring through the asphalt
 - Develop the monitoring well within 48-hours



700 South 1600 East PCE Plume Soil Gas Sampling



Yellow line:

Sanitary sewer line **Red dots:**

Planned sampling locations

Additional locations in this area are expected to be sampled