



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 Update 2018

What currently happening

- Accelerated Operable Unit-1 (AOU-1) Indoor Air Investigation
 - Draft Remedial Investigation Report and was submitted in July 2018 and is in the review process
 - Report focused on the potential for vapor intrusion from groundwater contamination

700 South 1600 East PCE Plume

What's Happening Currently

- Operable Unit 2 (OU-2) Groundwater Investigation
 - EPA and UDEQ approved Remedial Investigation Work Plan
 - VHA working on contracts for deep monitoring wells
 - Shallow wells are wrapping up

700 South 1600 East PCE Plume Update 2018 – Shallow Well Drilling



700 South 1600 East PCE Plume Health Considerations

**Discuss questions, concerns and
health-related topic to forward to
David Dorian, Agency for Toxic Substances
and Disease Registry**

700 South 1600 East PCE Plume

Questions?

700 South 1600 East PCE Plume Drilling FAQs

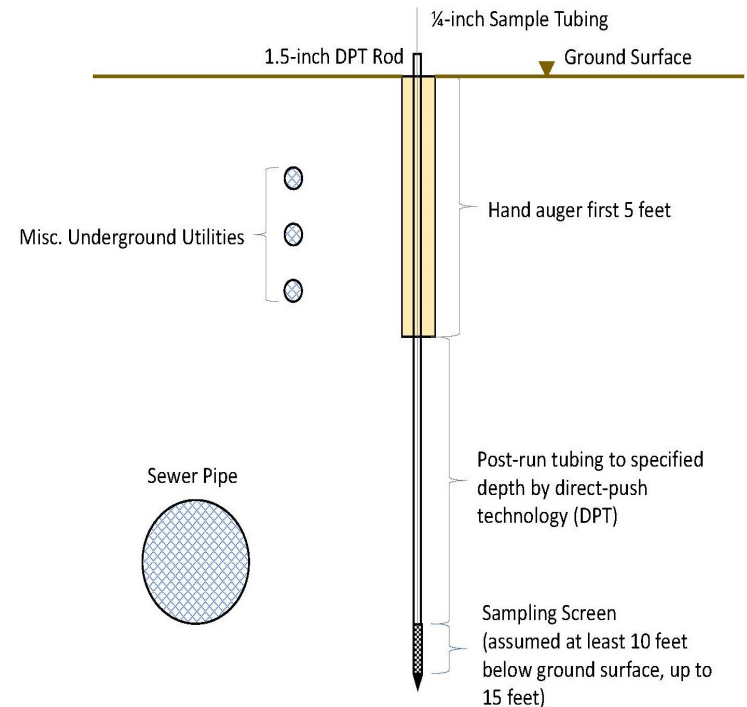
Drilling FAQs

- 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 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.



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

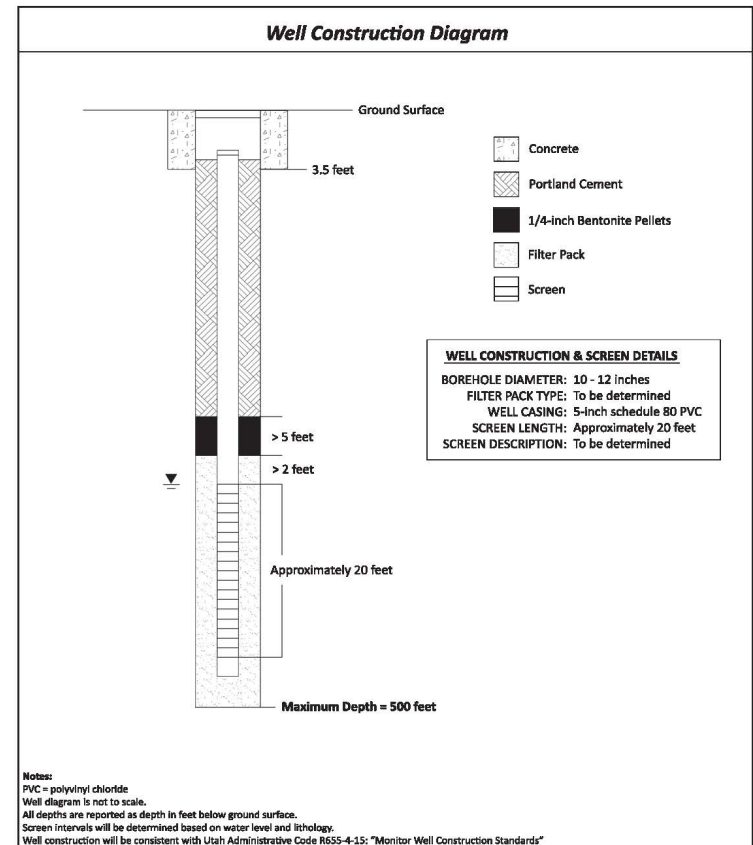
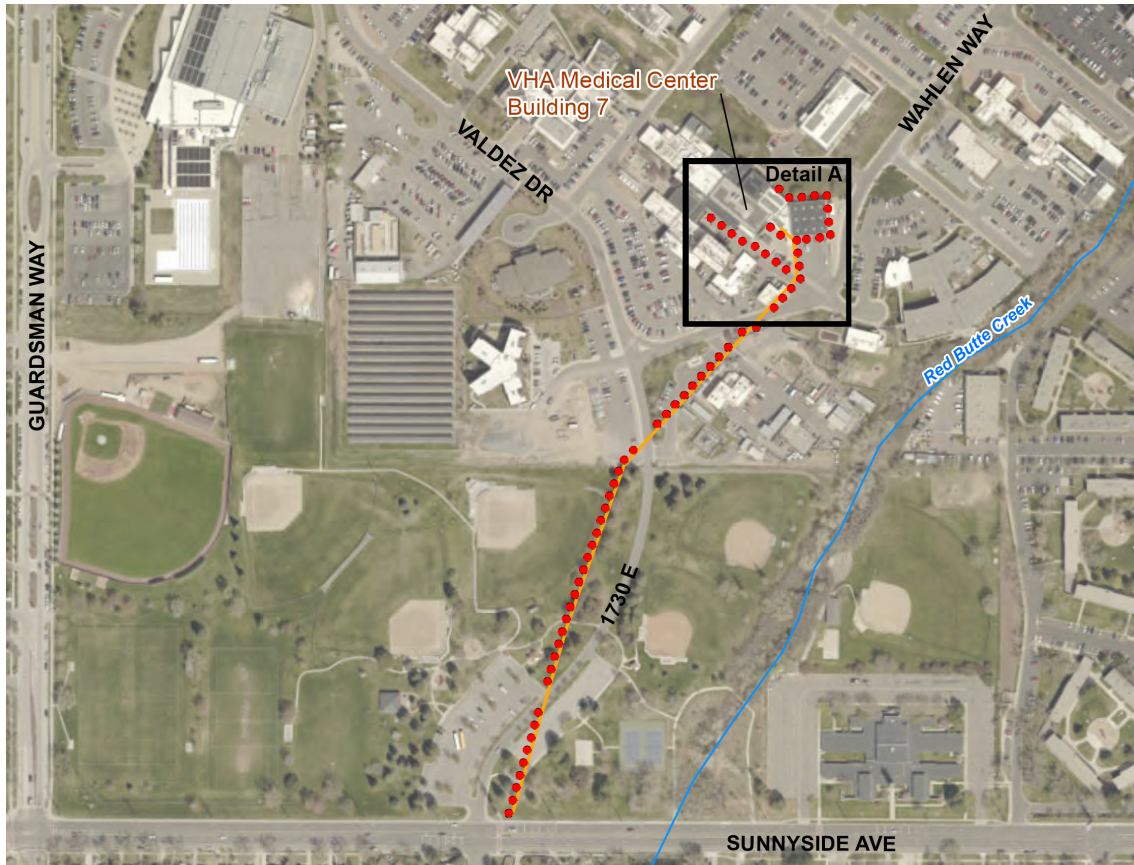


FIGURE 3-5
TYPICAL 5-INCH MONITORING WELL CONSTRUCTION
FIELD SAMPLING PLAN
OU-2 REMEDIAL INVESTIGATION
700 SOUTH 1600 EAST PCE PLUME
SALT LAKE CITY, UTAH

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