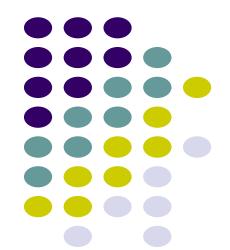
Community Advisory Group Update

10 June 2021





Shannon Smith – CERCLA Program Manager
Susanne Fairclough – CERCLA Contracts Manager
Wynn John – CERCLA Technical Manager
VETERANS HEALTH ADMINISTRATION – SLC VAMC



700s 1600e PCE Plume Site Overview

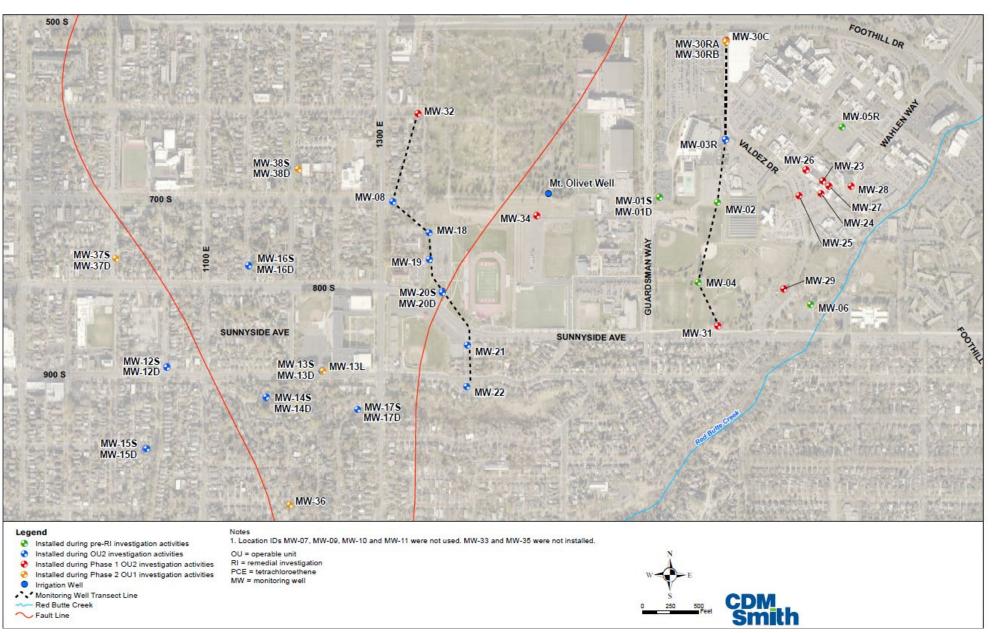




Define the problem... then evaluate solutions

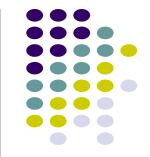
- Installed monitoring wells to determine the groundwater plume boundaries (length, width, & depth)
- Collected data to determine groundwater plume conditions (such as possible migration and changes in concentration trends)
- Collected groundwater, surface water, soil gas, and indoor air samples to evaluate potential exposures and risk

GROUNDWATER MONITORING WELL NETWORK



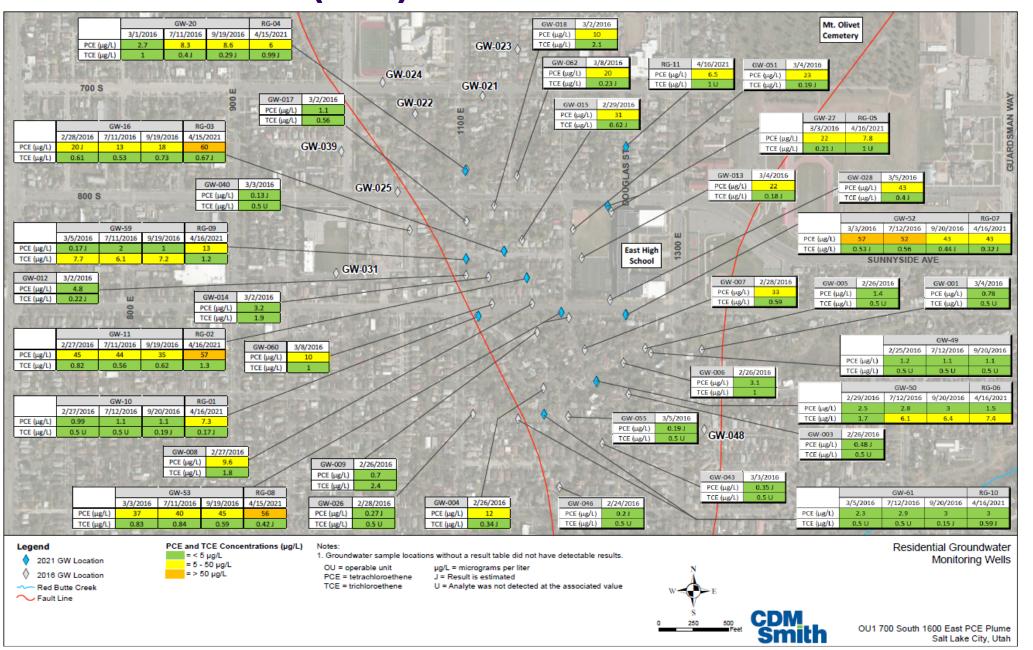


FIELDWORK ACTIVITIES COMPLETED (DEC 2020-MAY 2021)



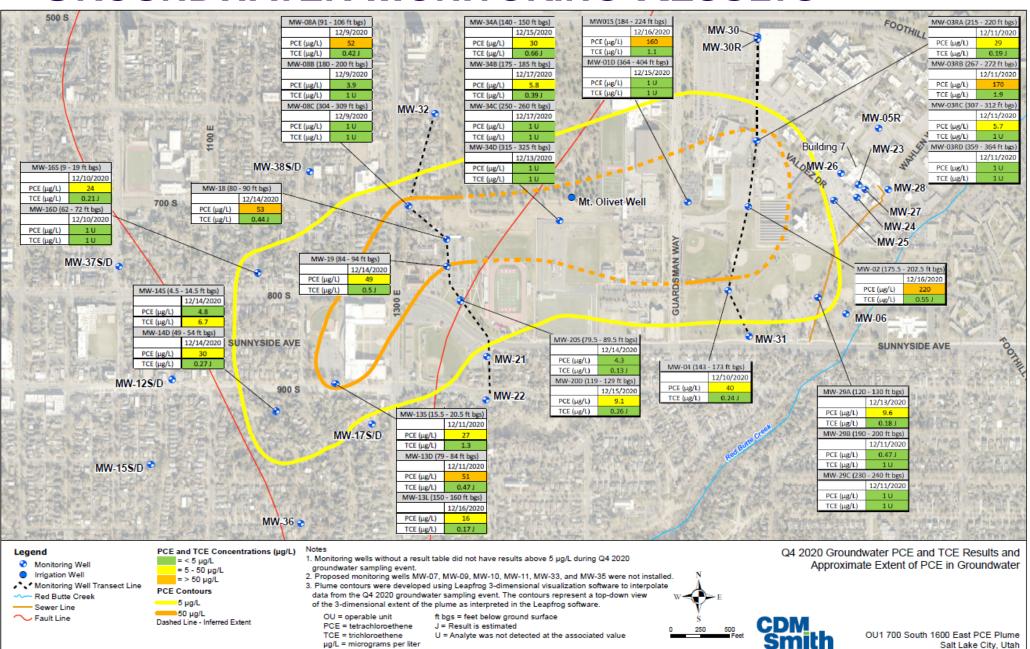
- Installed 11 permanent shallow monitoring wells (RG-1 through RG-11) north, south & west of East High School
 - Most wells were previous temporary well locations (less than 30 feet deep)
 - Permanent replacement wells were installed to evaluate vapor intrusion potential
- Groundwater sampling completed at all new wells in December 2020 and March 2021
 - Collected data to determine plume conditions (such as migration and changes in concentration trends)

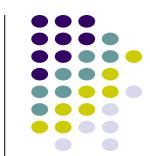
RESIDENTIAL (RG) MONITORING WELLS





GROUNDWATER MONITORING RESULTS

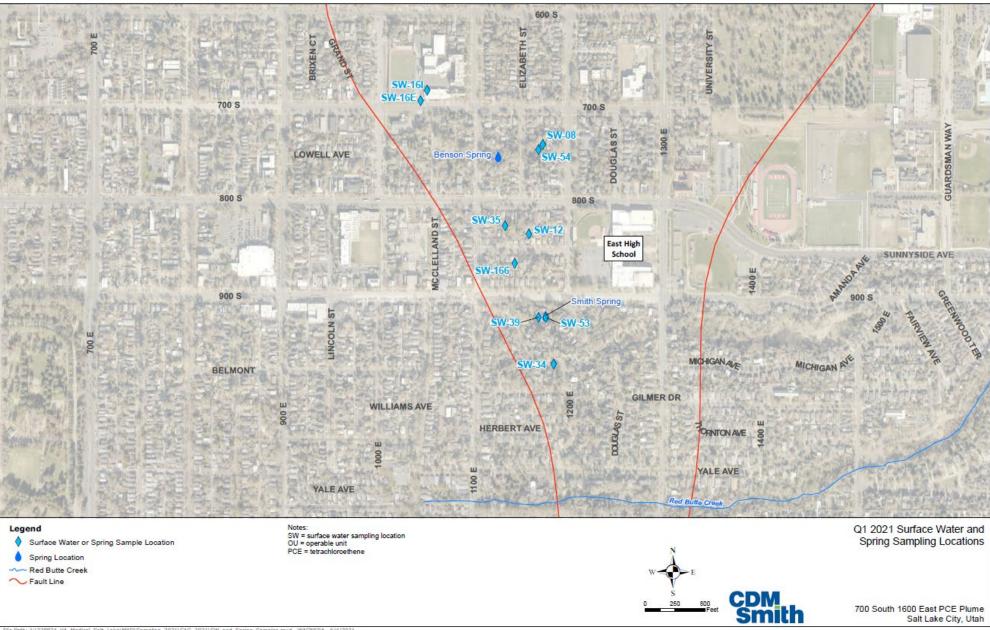




FIELDWORK ACTIVITIES COMPLETED (DEC 2020-MAY 2021)

- Soil Vapor sampling completed in March 2021 at new RG well locations
 - Five of the new shallow wells included permanent soil vapor sampling points
 - Soil gas measurements collected to determine potential for vapor intrusion
 - Groundwater also collected from new RG wells to assess VI potential
- Seep and Springs sampling completed in April 2021
 - Measured flow rates of springs for use in groundwater model
 - Laboratory samples were collected to evaluate current conditions

SURFACE WATER SAMPLING LOCATIONS

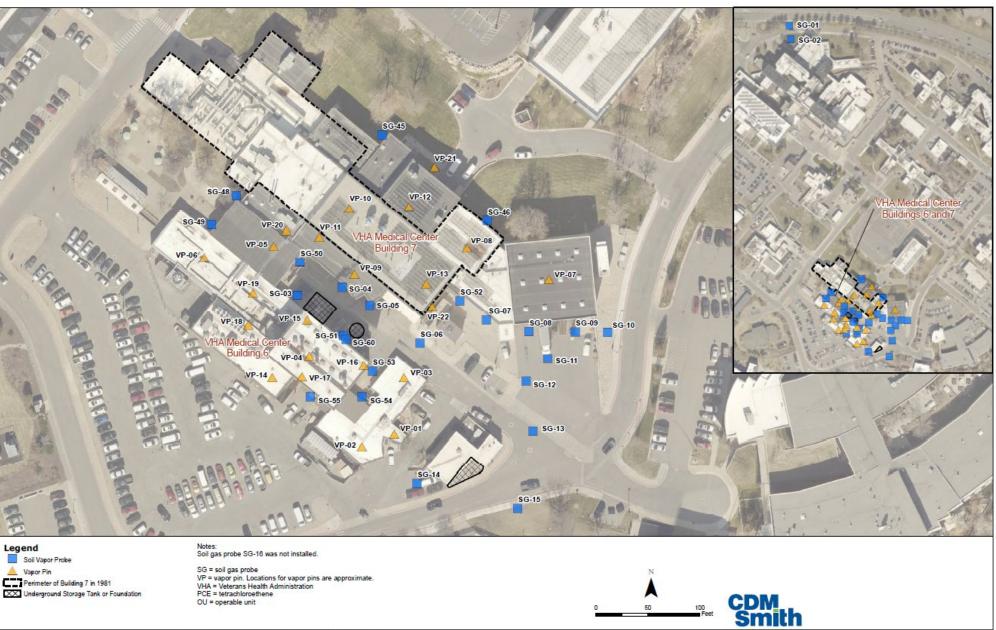




FIELDWORK ACTIVITIES COMPLETED (DEC 2020-MAY 2021)

- VA campus soil gas sampling completed in March 2021
 - Soil vapor points were previously installed near suspected source areas
- Indoor air sampling conducted at Bldgs 6 & 7 on VA campus
 - Confirmation sampling showed very low levels of PCE and TCE
 - Concentrations were well below the risk-based screening level

VA CAMPUS SOIL GAS SAMPLE LOCATIONS





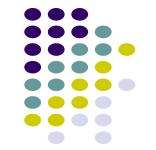
UPCOMING FIELDWORK (JUN-DEC 2021)

- Groundwater sampling planned for June, Sep, and Dec 2021
- Vapor Intrusion sampling planned for winter (Nov-Mar) 2021/22



Q. Should future vapor intrusion sampling continue to include PCE, TCE <u>and</u> DCE, vinyl chloride and 1,4-dioxane?

A. A human health and ecological risk assessment is currently being completed as a part of the Remedial Investigation. "Contaminants of concern" (COCs) for the site will be formally identified in the risk assessment. Determination of COCs is based on toxicity of the contaminant and the concentrations and frequency of detections, as well as the potential risk to human health and the environment.



Q. Should future sampling continue to use Summa canisters (vs. passive samplers) so that all the site-related chemicals that contribute to risk can be measured?

A. Both Summa canisters and passive samples can provide high quality data, and there are "pros and cons" for both methods. The best sampling approach will be largely determined by the COCs determined in the risk assessment, and the most effective and efficient methods to meet future data quality objectives.



Q. Is any more investigation planned to determine whether there may be vapor intrusion risk at the eight prioritized homes not sampled in 2019-2020?

A. Indoor air sampling is planned for winter (Nov-Mar) 2021/22. The sampling is open to anyone living in the PCE impacted area. Door hangers, flyers, community notices, and social media posts will be used to get the word out about indoor air sampling to try and increase the number of homes in the sampling program.



Q. Why was only one home sampled for vapor intrusion in the area of highest PCE concentrations?

A. The higher concentration areas of this PCE plume coincide with the deeper groundwater depths. Vapor intrusion is most likely to occur in structures where the underlying contaminated groundwater is shallow (<30ft). The focus of more recent indoor air sampling has been structures where groundwater is very shallow or surfaces (near seeps and springs) where VI potential increases.



Q. Would it be more appropriate to calculate risks using both detected levels and detection limits?

A. The screening-level risk estimates presented in this technical memo are only preliminary and intended to convey initial information on potential exposures from indoor air, which is why focus is on detected concentrations only. The human health risk assessment will include risk calculations that incorporate information based on both detects and non-detects and will evaluate the adequacy of the laboratory reporting and detection limits.

AVAILABLE DOCUMENTS TO REVIEW

- Final Remedial Investigation Workplan Phase 2
- Final Quality Assurance Project Plan
- Final 2021 Q2 Groundwater Data Summary Report
- Final Community Involvement Plan

 Draft Remedial Investigation Report (available late Aug 2021)

Final Documents available at <u>pceplume.org/administrative-record</u>
Draft Documents available by request: VHASLCSuperfund@va.gov

PCE PLUME WEBSITE: PCEPLUME.ORG



- Website contents include
 - Site History How did we become a Superfund site?
 - Site Progress What's been accomplished and what's next?
 - Community Involvement Community Advisory Group info
 - Upcoming Events Info for meetings and sampling events
 - Contact Form Send us your questions or request sampling
 - Photos of fieldwork, FAQs, and more...

PCE PLUME WEBSITE: PCEPLUME.ORG



Administrative Record

 Contains documents regarding the environmental testing and sampling conducted at the site. The documents form the basis for environmental response actions and provide the public an opportunity to participate and comment on the response action selection process.

NEXT MEETING AND QUESTIONS

Next Meeting: 9 Dec 2021



Agenda items for next meeting?

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