

COMMUNITY ADVISORY GROUP UPDATE SINCE LAST MEETING:

Groundwater Quality at East Side Springs Area

- *Three years since wells installed & previous sampling***
- *August samples collected at eight temporary wells***
- *Very similar concentrations over time; max. PCE = 60 µg/L***
- *PCE mass centered around 1200 E 900 S***
- *Assess re-drilling as permanent wells***

UPDATE SINCE LAST MEETING:

VA PCE Source Vapor Intrusion Investigation

- ***Former dry-cleaning shop (Building 7)***
- ***Heating plant (Building 6)***
- ***Focus on worker safety – No elevated indoor air risk***

UPDATE SINCE LAST MEETING:

New Environmental Contractor

- ***CDM Smith awarded contract by VA's execution agent, U.S. Army Corps of Engineers***
- ***Transitioning into next phases of work: Source area, VI & GW investigations***
- ***Walking site, preparing plans and supporting documents required for Superfund work***

AOU-1 Accomplishments

Why an Accelerated Operable Unit?

Most direct way to respond to a potential human health concern when a “contaminated site” becomes a “Superfund Site.”

Focus of AOU-1: Define and characterize nature and extent of contaminants in surface water and shallow groundwater that could result in vapor intrusion.

Data Collection Efforts

Near Foundation, Soil Gas Samples

72 Soil Gas samples were collected between 2015-2017

Detections ranged from $1.4 \mu\text{g}/\text{m}^3$ to $2000 \mu\text{g}/\text{m}^3$.

Max concentrations located near high concentrations of PCE in groundwater

Indoor Air Samples

38 structures sampled between 2015-2017

- Depressurization of homes
- HAPSITE
- TO-15 (SUMMA Canisters)

Only one home
had levels above
the Action Level

Data Collection Efforts

Surface Water Sampling

50 samples collected; over multiple sample rounds

PCE concentrations ranged from non-detect to 82 $\mu\text{g}/\text{L}$

Sampling efforts to continue

Shallow Groundwater Sampling (<30 ft)

Installed 10 shallow groundwater wells; collected multiple sample rounds

PCE concentrations ranged from 2.1 $\mu\text{g}/\text{L}$ to 60 $\mu\text{g}/\text{L}$

Max concentrations of PCE in shallow groundwater localized in East Side Springs (ESS) Area

Accomplishments

Determined there's a low potential for VI

Determined that PCE is localized in the surface water and groundwater in East Side Springs Area

Why we're combining OUs

- OU 2 encompasses the East Side Springs area (AOU-1)
- AOU-1 and OU 2 have overlapping objectives
 - Define nature and extent of groundwater plume
 - Continue to evaluate VI

Final remedy for vapor intrusion and remedies for surface water and groundwater contamination are best addressed comprehensively under one operable unit.

Advocates for VHA Groundwater Plume Resolution Community Advisory Group Meeting

13 Nov 2019

Shannon Smith, PE
VHA CERCLA Program Manager
801-528-1565 x 2021

Marc Yalom, PG, CH x 6603
VHA CERCLA Technical Manager

Brooke Alpenglow x 2110
Community Support Contractor

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VA



U.S. Department
of Veterans Affairs

2019/2020 Indoor Air Sampling

- ❑ **16-20 Dec 2019:** Re-sample homes with detections above screening levels
 - Screening Levels – established to determine if additional data collection is required at a home

- ❑ **Sampling 13 Structures**
 - Collect 24-HR SUMMA samples
 - Collect long-term passive samples (~3 weeks)
 - Will require 3 visits to home
 - Turn off portable air purifier 48 hrs prior to sampling

Objective: Confirm indoor air concentrations are below Action Levels

2019/2020 Indoor Air Sampling

□ Jan 2020 – Major effort to increase participation in the Indoor Air sampling program

- Mail sample request letters to 240 homes
- Knock on doors to sign up residents
- Public Meeting – Jan 22nd
 - McGillis School Library
 - 6:30-8:00 pm



SUMMA Cannister – 24 hr sampler



Passive Samplers – 3 week sampler



Groundwater and Surface Water Monitoring Results



MW-03R	
Mar-19	µg/L
215-220 ft bgs	
PCE	30
TCE	ND
267-272 ft bgs	
PCE	230
TCE	< MCL
307-312 ft bgs	
PCE	6.3
TCE	ND
359-364 ft bgs	
PCE	ND
TCE	ND

MW-01	
Mar-19	µg/L
184-224 ft bgs	
PCE	200
TCE	< MCL
364-404 ft bgs	
PCE	ND
TCE	ND

MW-02	
Dec-18	µg/L
175-202 ft bgs	
PCE	160
TCE	ND

MW-04	
Dec-18	µg/L
143-173 ft bgs	
PCE	67
TCE	ND

MW-06	
Dec-18	µg/L
100-130 ft bgs	
PCE	ND
TCE	ND

New Well

Foothill Dr.

VA

Sunnyside Ave.

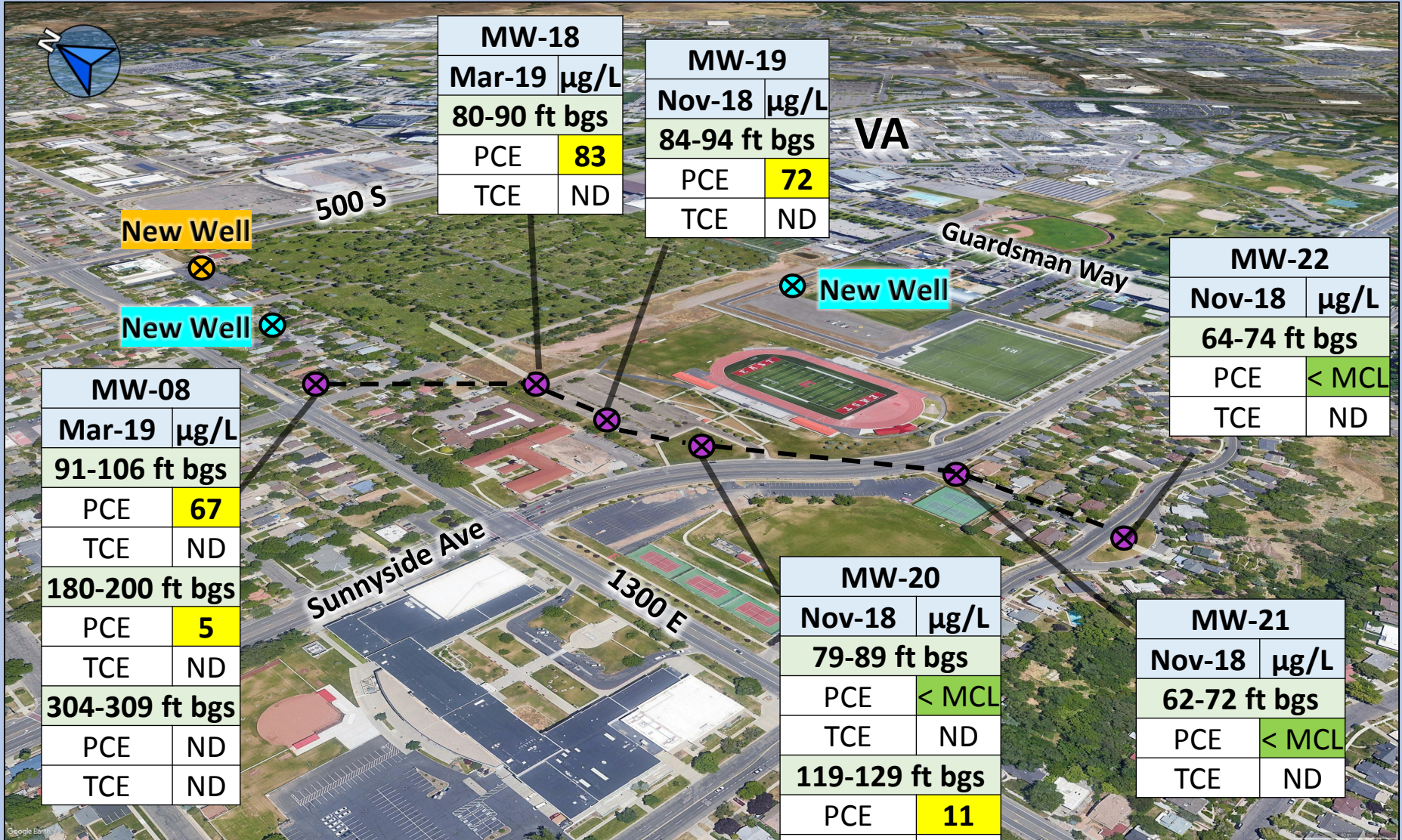
Guardsman Way

New Well

Monitoring Well

Notes:

MCL = Maximum Contaminant Level bgs = below ground surface
MCL PCE = 5 µg/L MCL TCE = 5 µg/L ND = Not Detected



MW-18	
Mar-19	µg/L
80-90 ft bgs	
PCE	83
TCE	ND

MW-19	
Nov-18	µg/L
84-94 ft bgs	
PCE	72
TCE	ND

MW-22	
Nov-18	µg/L
64-74 ft bgs	
PCE	< MCL
TCE	ND

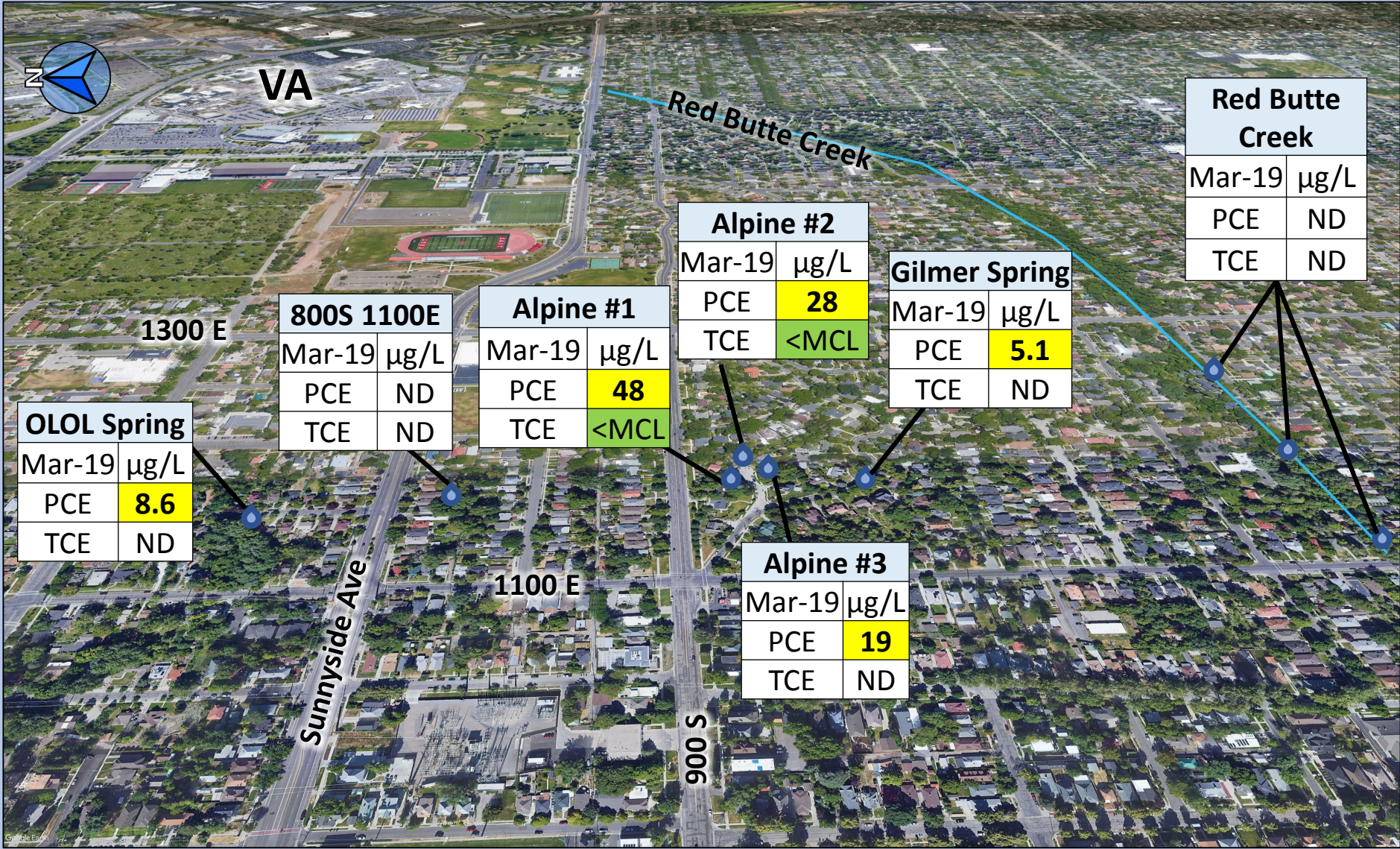
MW-08	
Mar-19	µg/L
91-106 ft bgs	
PCE	67
TCE	ND
180-200 ft bgs	
PCE	5
TCE	ND
304-309 ft bgs	
PCE	ND
TCE	ND

MW-20	
Nov-18	µg/L
79-89 ft bgs	
PCE	< MCL
TCE	ND
119-129 ft bgs	
PCE	11
TCE	ND

MW-21	
Nov-18	µg/L
62-72 ft bgs	
PCE	< MCL
TCE	ND

Notes:		
MCL = Maximum Contaminant Level	bgs = below ground surface	
MCL PCE = 5 µg/L	MCL TCE = 5 µg/L	ND = Not Detected

 **Monitoring Well**



OLOL Spring	
Mar-19	µg/L
PCE	8.6
TCE	ND

800S 1100E	
Mar-19	µg/L
PCE	ND
TCE	ND

Alpine #1	
Mar-19	µg/L
PCE	48
TCE	<MCL

Alpine #2	
Mar-19	µg/L
PCE	28
TCE	<MCL

Alpine #3	
Mar-19	µg/L
PCE	19
TCE	ND

Gilmer Spring	
Mar-19	µg/L
PCE	5.1
TCE	ND

Red Butte Creek	
Mar-19	µg/L
PCE	ND
TCE	ND



Notes:
 MCL = Maximum Contaminant Level OLOL = Our Lady of Lourdes
 MCL PCE = 5 µg/L MCL TCE = 5 µg/L ND = Not Detected

2019/2020 Fieldwork Schedule

- ❑ **Nov 2019 – Groundwater Monitoring**
 - Collect samples from all wells
- ❑ **Jan 2020 – Drilling new wells on VA Campus**
 - 7 wells
- ❑ **Feb 2020 – Drilling new wells off VA Campus**
 - 2 wells
- ❑ **Summer 2020 – Additional wells off VA Campus**
 - Near Rowland Hall
 - North of Mt. Olivet Cemetery