

# Stone Avenue and Grant Road Water Quality Assurance Revolving Fund Site

## Operations, Maintenance, and Monitoring (OMM) Activities and Updates

March 26, 2024

Community Advisory Board (CAB) Meeting

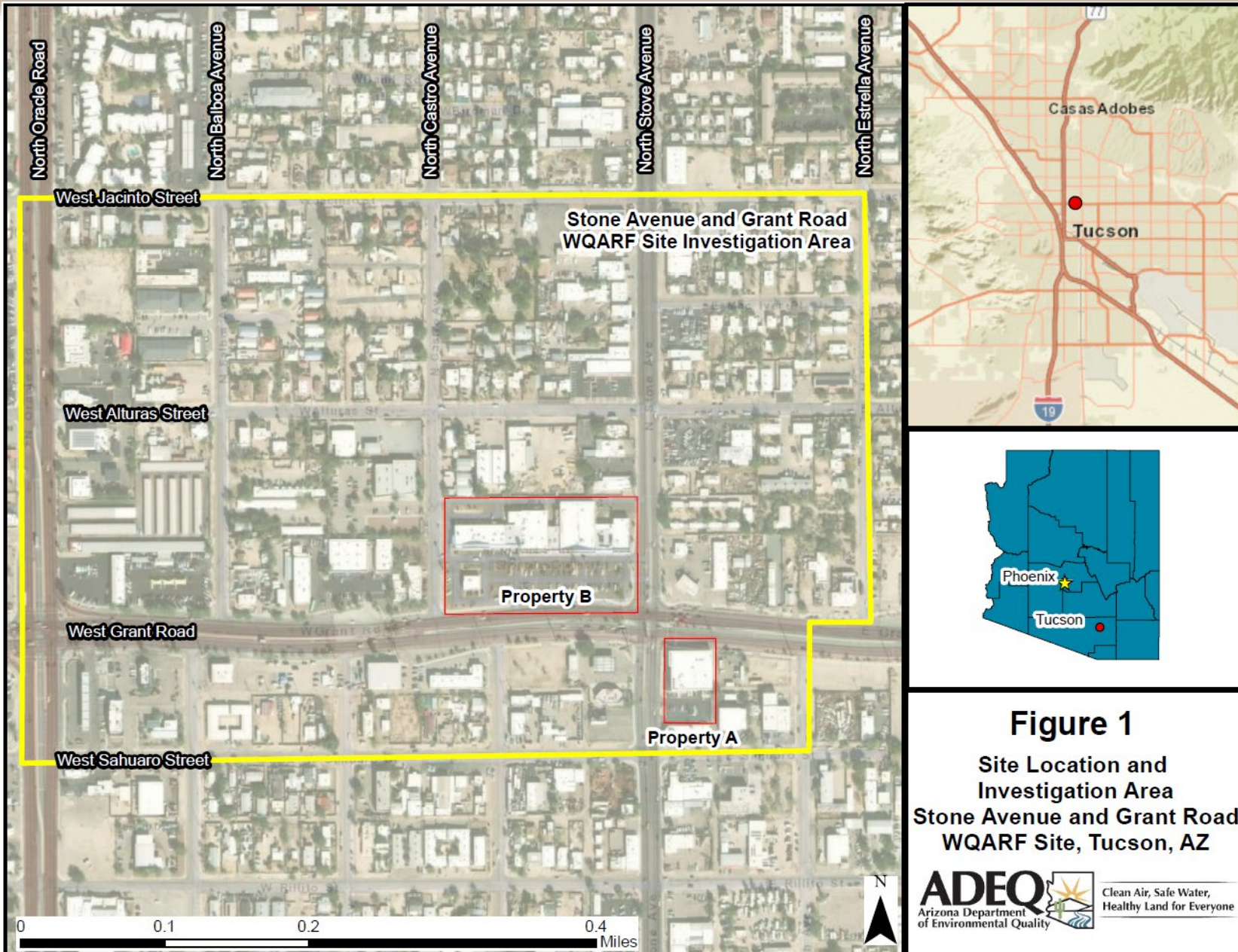
Gianna Trujillo, Project Manager



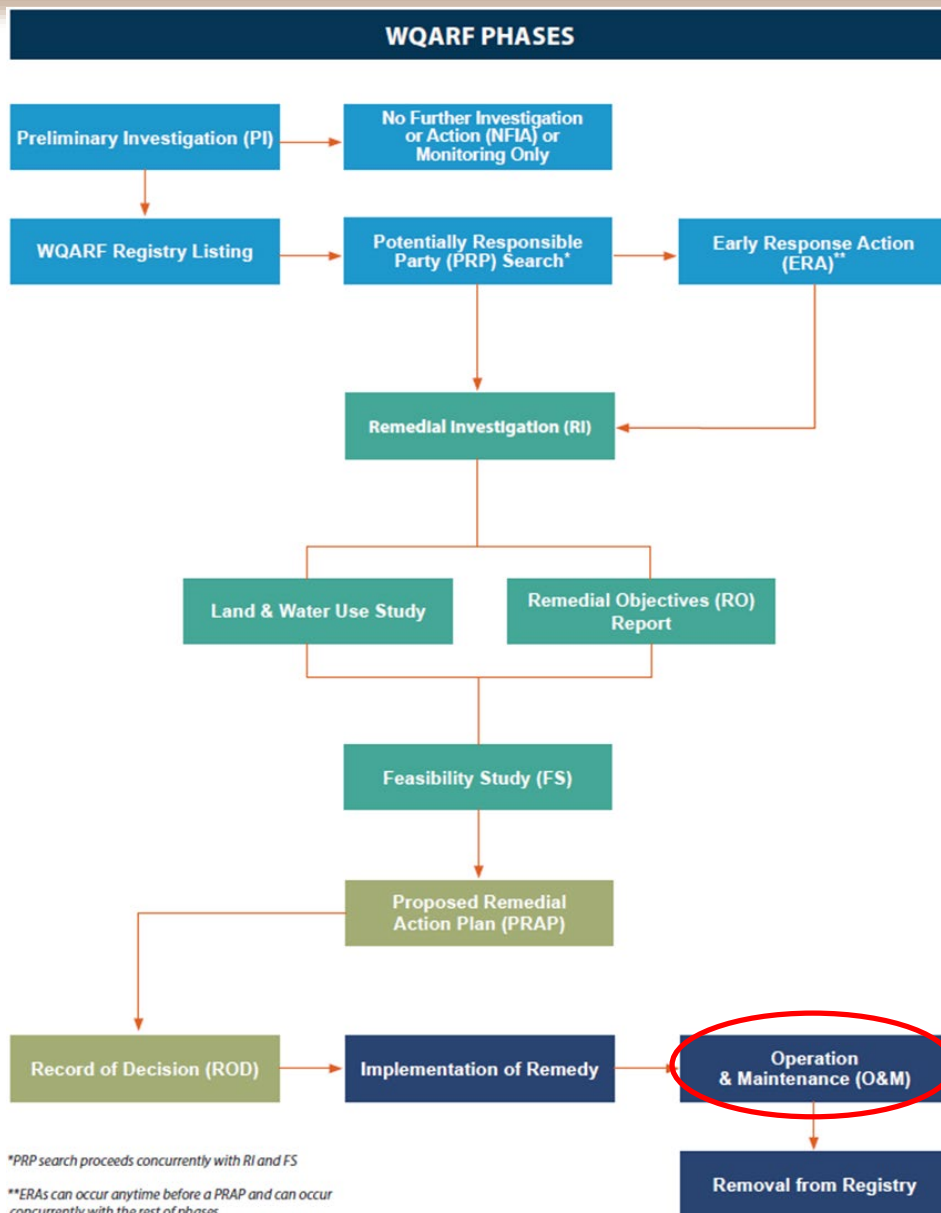
Clean Air, Safe Water,  
Healthy Land for Everyone



# Site Location



# WQARF Phase



\*PRP search proceeds concurrently with RI and FS

\*\*ERAs can occur anytime before a PRAP and can occur concurrently with the rest of phases



- Contaminant of Concern (COC):
  - Tetrachloroethene (PCE)
- Impacted Media:
  - Soil up to 10 feet below ground surface (ft bgs)
  - Soil Vapor up to 100 ft bgs
  - Groundwater is not impacted by Site COC
- Exposure Pathway:
  - Vapor intrusion to indoor air is the primary concern for exposure to PCE vapors via inhalation from source areas
- Source:
  - Former dry cleaner operations at Property A and Property B
- Remedial Actions as Specified in Record of Decision:
  - Soil Vapor Extraction (SVE) at Property A and Property B
  - Annual Soil Vapor and Groundwater Monitoring



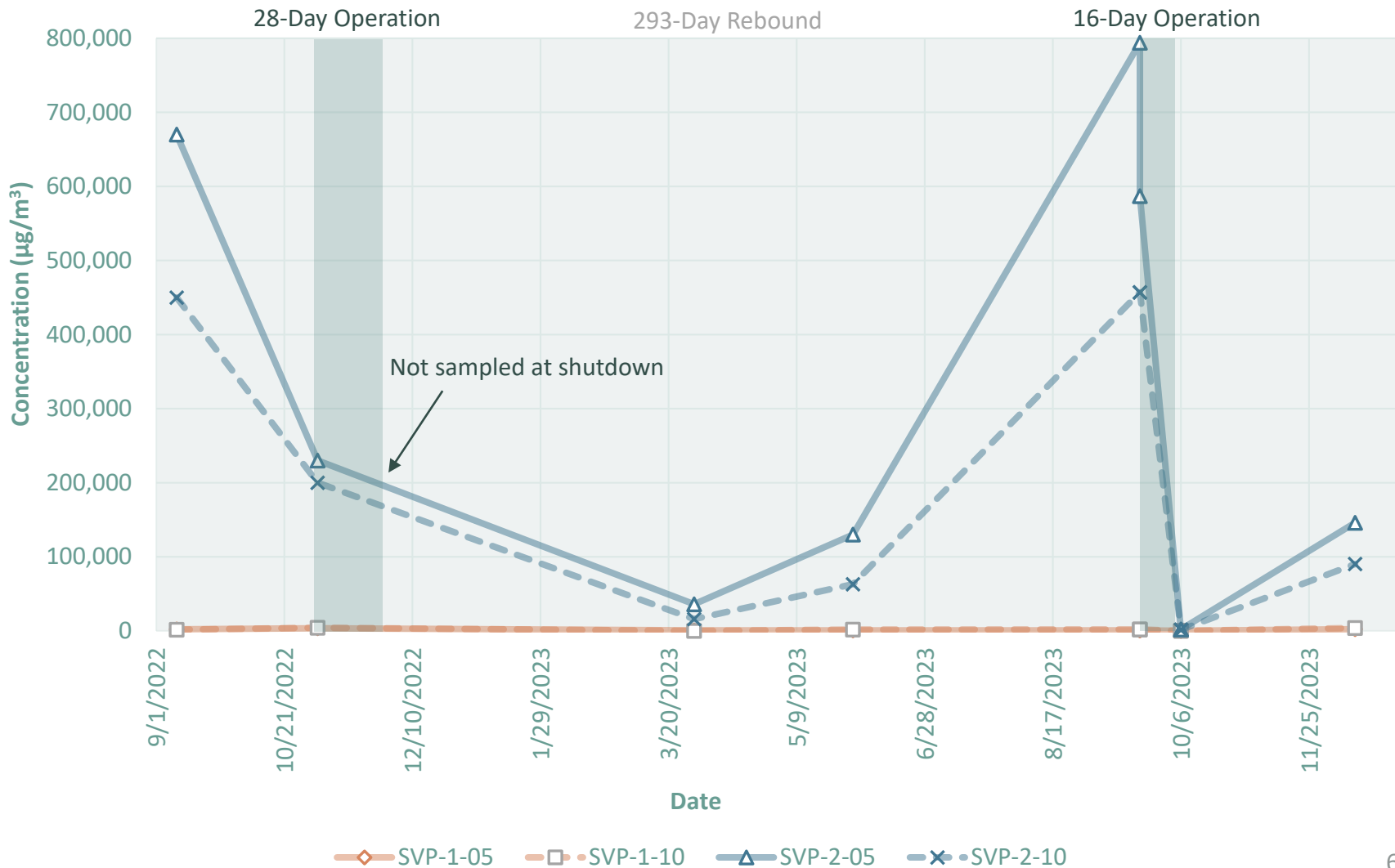
# Property A – Overview



- SVE System startup in 2017
- Soil Vapor Monitoring:
  - Sept 2022 to Dec 2023
- Pulsed Operations:
  - 11/3/2022 to 12/1/2022
  - 9/20/2023 to 10/06/2023
- Rebound Evaluation:
  - Quarterly Data collected from SVP-1 and SVP-2
  - System Shutdown  $\geq$  200 Days
  - System Operation between 15 and 30 Days

# Property A – Rebound and Pulse Operation

## SVP PCE Data September 2022 – December 2023



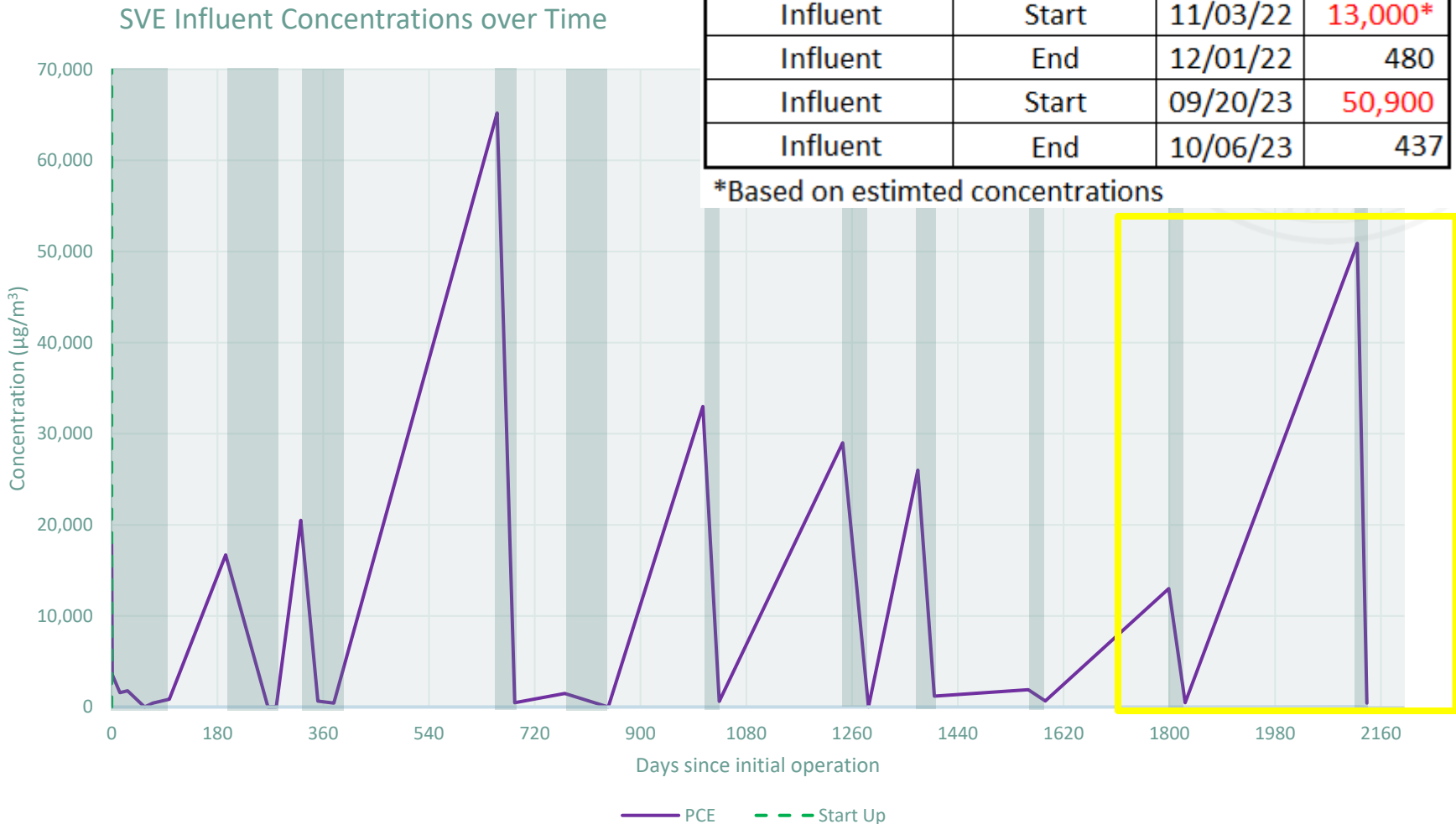
Vapor data is reported in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

# Property A – SVE System (Pulsed)

- Total Estimated Mass removed is 55.7 pounds of PCE as of October 2023.

SVE System	Run	Date	PCE
Influent	Start	11/03/22	13,000*
Influent	End	12/01/22	480
Influent	Start	09/20/23	50,900
Influent	End	10/06/23	437

\*Based on estimated concentrations



# Property B – Overview

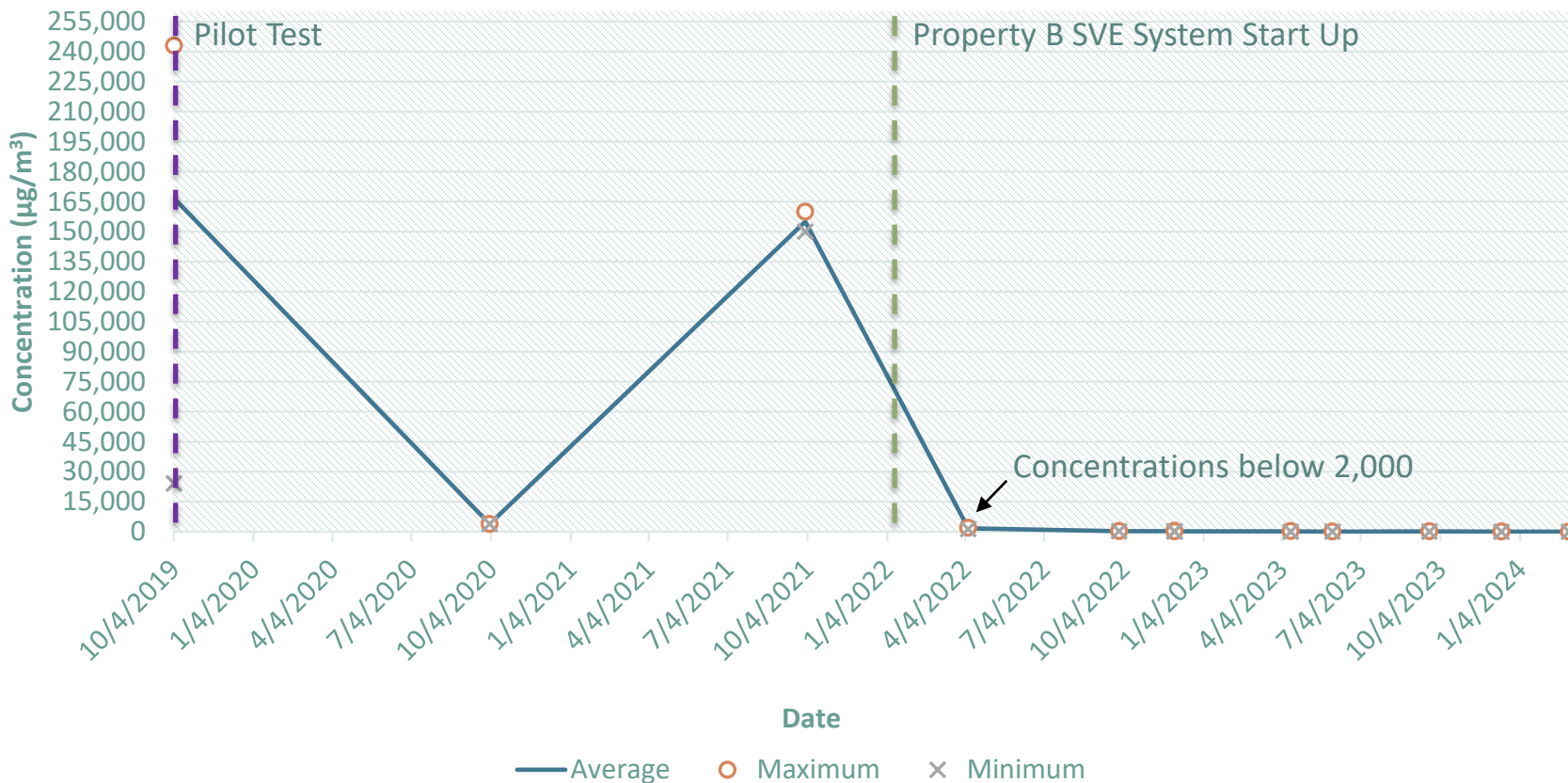


- SVE System startup in 2022
- Soil Vapor Monitoring:
  - Sept 2022 to Dec 2023
- Continuous Operations
- Access to adjacent parcel granted
- Installed SVE-4/SVP-4, SVP-6, and SVE-7/SVP-7



# Property B – Shallow Soil Vapor Concentrations

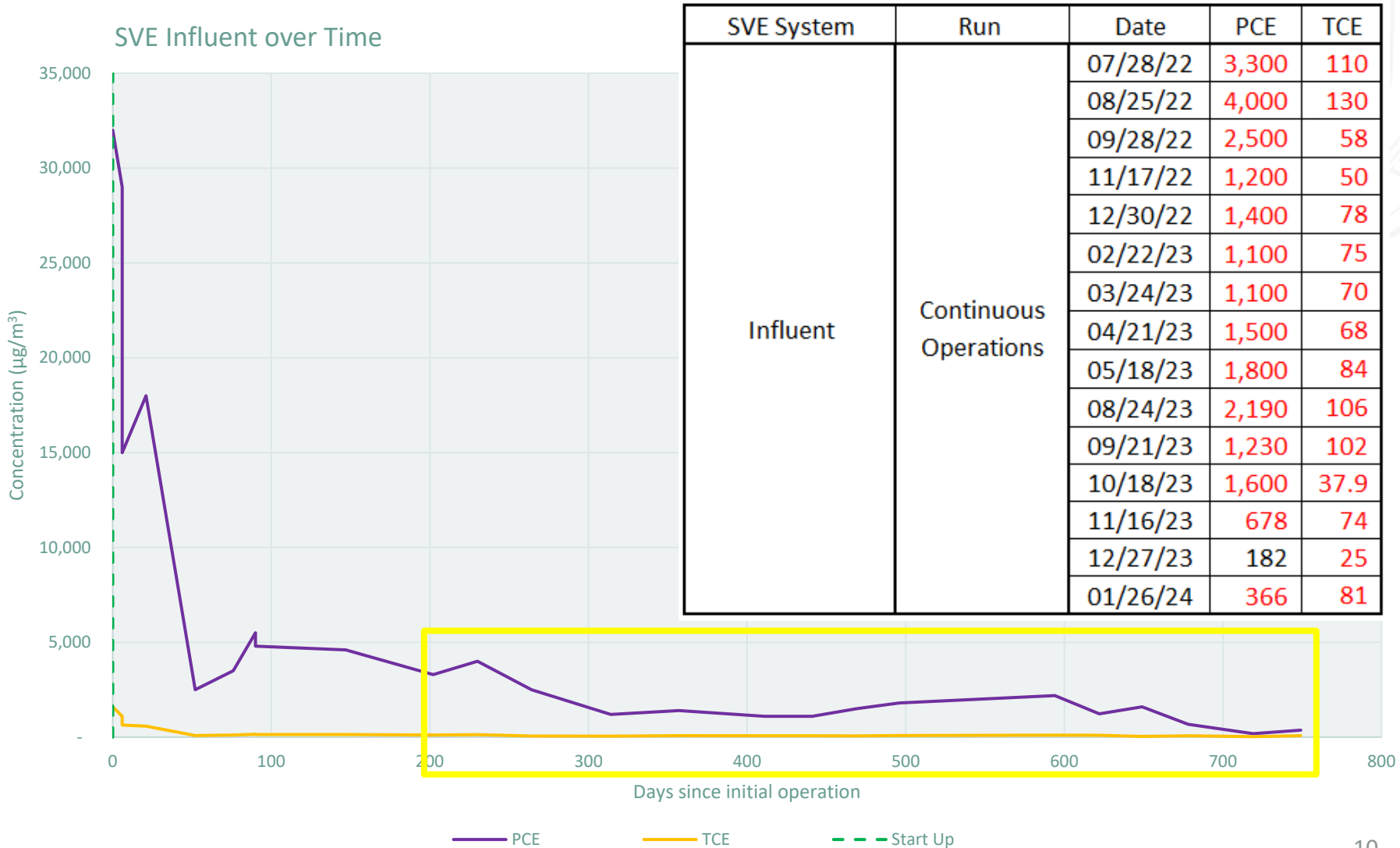
## PCE Soil Vapor Concentrations in Shallow Vapor Wells over Time



Vapor data is reported in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).  
Data set includes the following wells: OP-1, OP-2, MW-9, SVP-4, and SVP-7

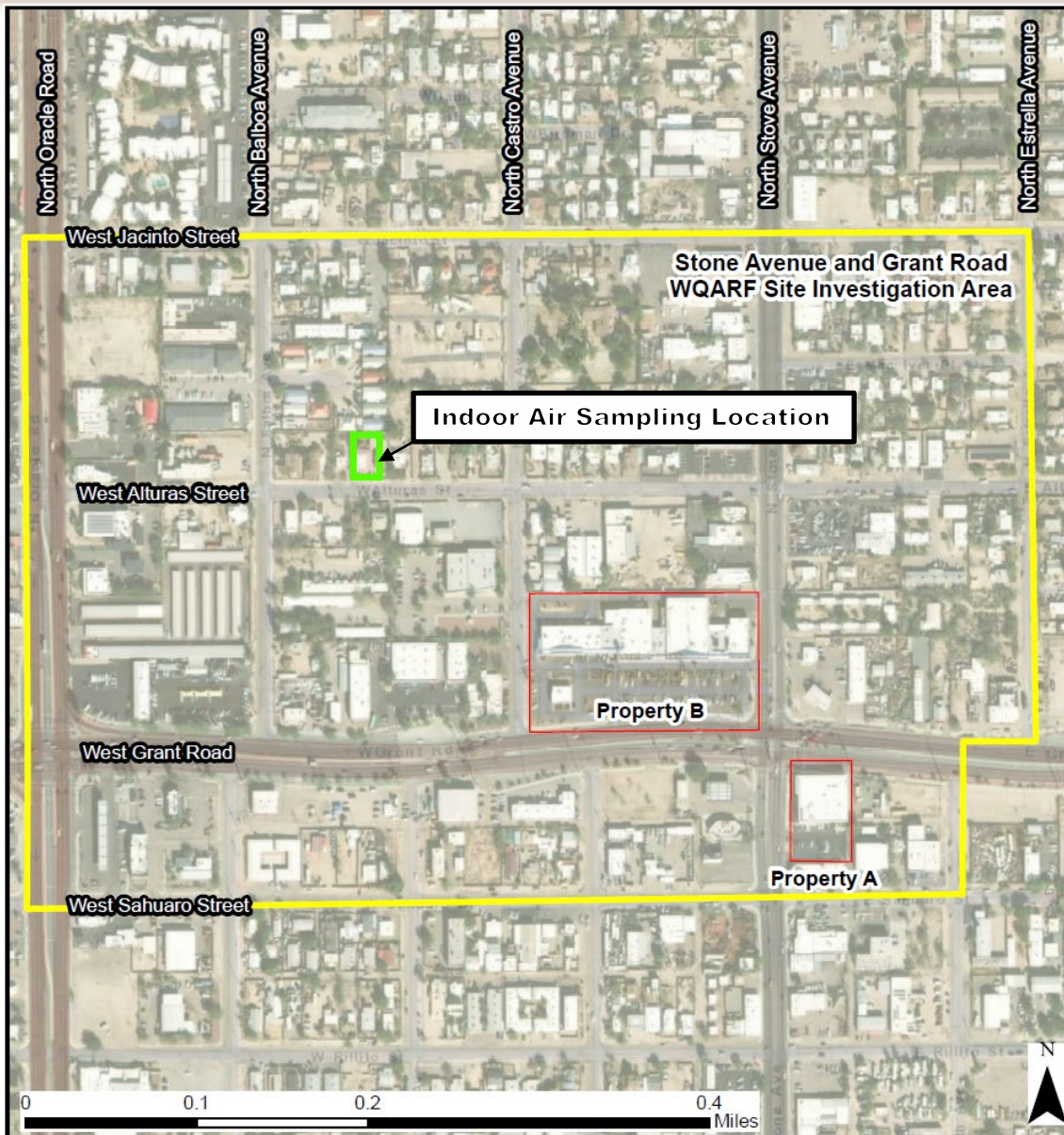
# Property B – SVE System (Continuous)

- Total Estimated Mass removed is 49.7 pounds of PCE and TCE as of December 2023.



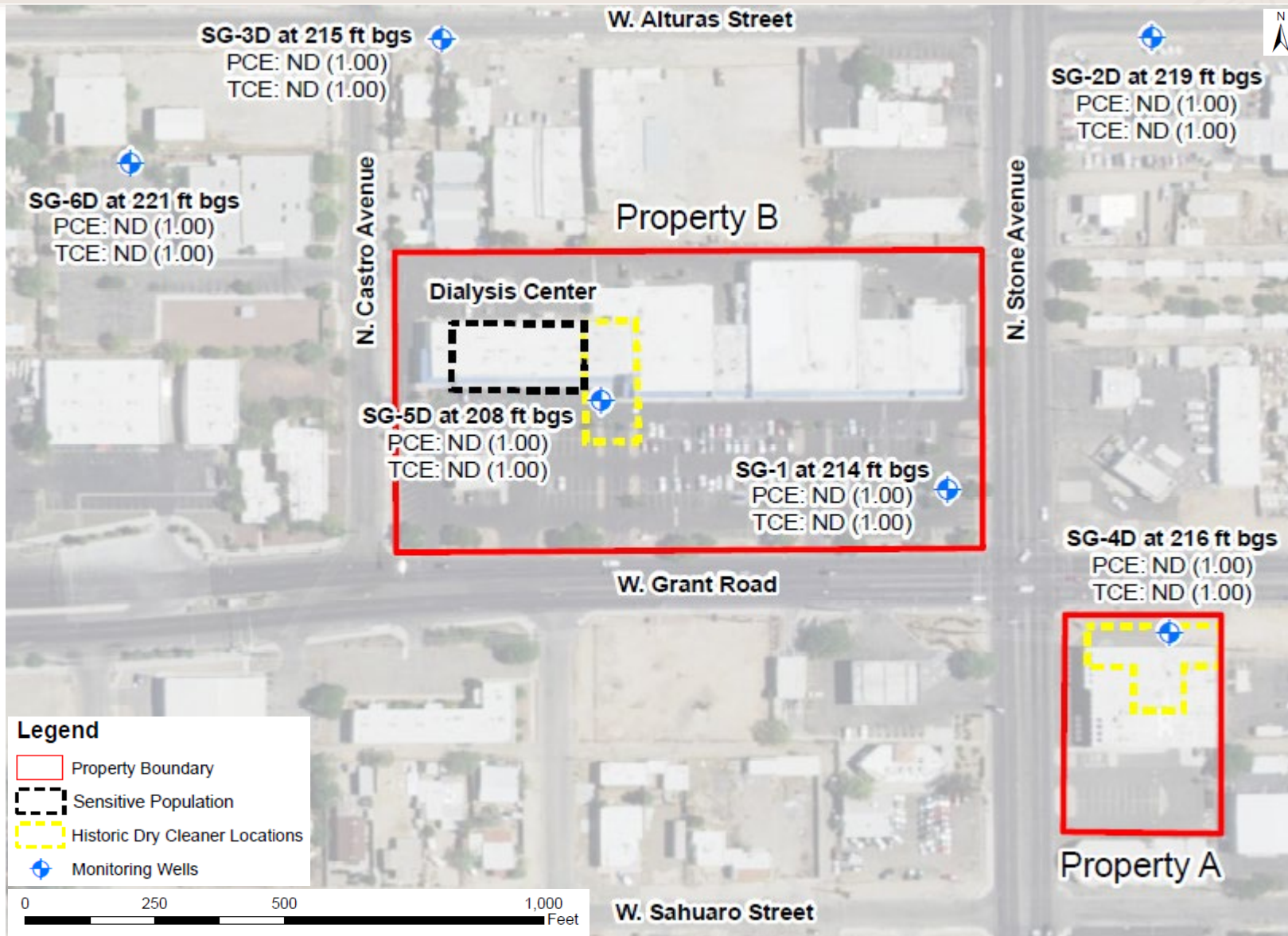
Red Text indicates an exceedance of the applicable residential VISL; all data is in µg/m<sup>3</sup>.

# Indoor Air Sampling – Jan 2023

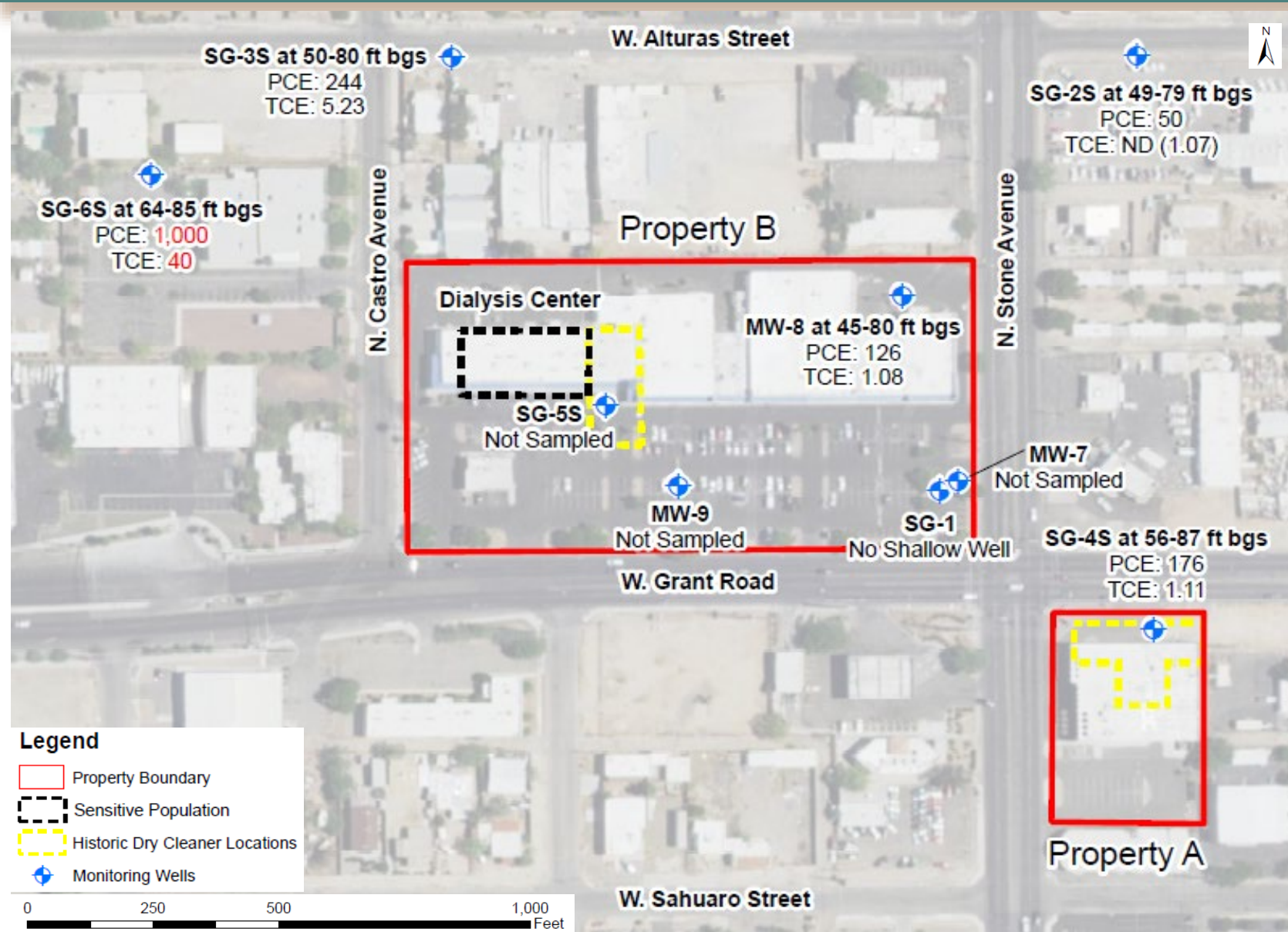


- Four Indoor Air Samples were collected.
  - Avg. Conc. of  $30.75 \mu\text{g}/\text{m}^3$
  - Resample scheduled for Summer 2024 (depending on indoor activities)
- Concentrations observed were biased due to indoor activities 6 – 12 months prior to sampling.

# Annual Groundwater Sampling – November 2023



# Annual Soil Vapor Sampling – November 2023



Red Text indicates an exceedance of the applicable residential VISL; all data is in µg/m<sup>3</sup>. ND = Not Detected (Method Detection Limit)

# Sitewide Monitoring 2023 Data Summary

Well Name / Sample Name	Date	Vapor		Groundwater		Notes
		PCE	TCE	PCE	TCE	
SG-1	11/30/2023	-	-	ND	ND	
SG-2	11/30/2023	50	ND	ND	ND	No City of Tucson Right of Way Access in 2022
SG-3	11/30/2023	244	5.23	ND	ND	No City of Tucson Right of Way Access in 2022
SG-4	11/30/2023	176	1.11	ND	ND	No City of Tucson Right of Way Access in 2022
SG-5	11/30/2023	*	*	ND	ND	
SG-6	11/30/2023	1,000	40.0	ND	ND	
MW-8	11/29/2023	126	1.08	-	-	
Indoor Air Sample Name	Date	Vapor		-		Notes
SG-IA-01-20230124	1/24/2023	21	ND	-	-	Front room in house was painted 6-12 months prior.
SG-IA-02-20230124	1/24/2023	47	ND	-	-	
SG-IA-03-20230124	1/24/2023	27	ND	-	-	
SG-IA-03-20230124-DUP	1/24/2023	28	ND	-	-	

\*Shallow SG-5 well was converted to SVE “SVE-5S” and concentrations are included with Property B SVE Well Data.

ND – Not Detected above respective reporting detection limit

NS – Not Sampled

- Null Data

Vapor data is reported in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

Groundwater data is reported in micrograms per liter ( $\mu\text{g}/\text{L}$ ).

- Continued SVE System Operations & Maintenance
- Rebound / Optimization Evaluations
- Monitoring
- Annual Report (June 2024)



# Thank You! Questions?

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Healthy Land for Everyone**

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