



SITE CLEANUP SUBACCOUNT PROGRAM Craig J. Sanchez, MS, PE State Water Resources Control Board



Site Cleanup Subaccount Program

Purpose:

- Section <u>25299.50.6</u> of the Health & Safety Code
- Continuous application process no application deadlines

Eligible projects include:

- Investigations of the source of surface or groundwater contamination
- Remediating the harm or threat of harm to human health, safety, and the environment caused by existing or threatened surface or

groundwater contamination



Site Cleanup Subaccount Program

Grant Requirements:

- Site must be subject to regulatory directive or order
- Responsible party lacks sufficient financial resources



Funding Factors:

- Whether location is in small or financially disadvantaged community (DAC)
- Degree to which human health and environment are threatened by contamination
- Cost and potential environmental benefit of cleanup
- Whether there are other potential sources of funding
- Any other information the Board identifies as necessary for consideration including environmental justice (EJ) community status



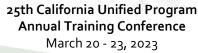
Funding Summary and Projections

Funding Summary and Projections:

\$34M each year in funding

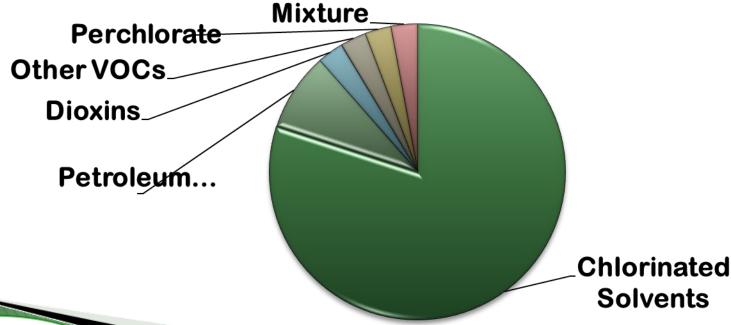
- ~\$100M funded to date (fiscal year (FY) 15/16) to include:
 - 76 grant-funded sites
 - 14 contract-funded sites
- ~\$160M in spending authority through FY 23/24





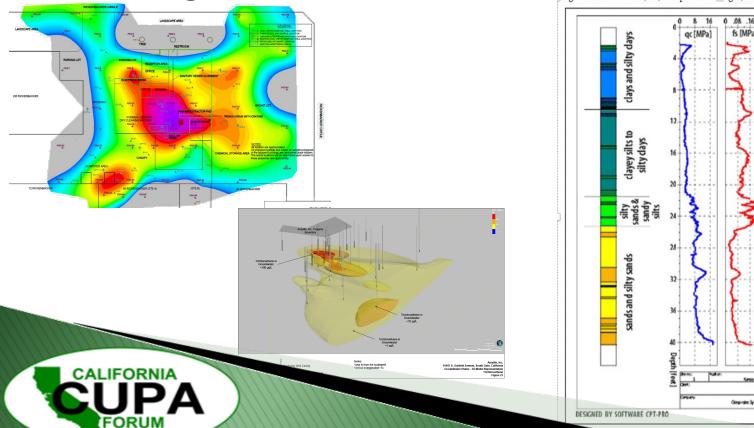


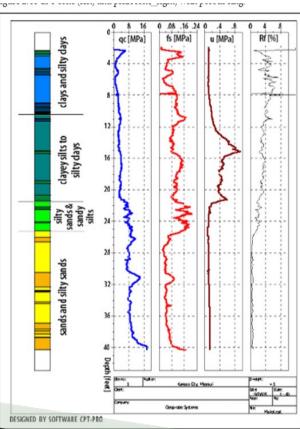
Projects by Contaminant Class





High Resolution Site Characterization





Site Cleanup Subaccount Program An Evolving Program

Board Policies:

- SCAP Resolution needs updating reflect current practices/Board priorities: Resolution 2016-0032
- Racial Equity Resolution race no longer predicts the access to or quality of water resources a person receives; we consistently apply a racial equity lens to our decision-making processes
- <u>Racial Equity Action Plan</u> assess race/ethnicity; demographic data of communities benefiting from funding administered by DFA
- <u>2023 Strategic Work Plan</u> Action 1.3.1 Prioritize Funding of SCAP projects in disadvantaged communities/environmental justice communities

Statutory Requirement:

"At least annually, the board shall review grant applications and adopt a list of applicants to be awarded grants..."



What's New for SCAP?

Annual Board adoption of:

- Comprehensive and fundable grant and contract lists
- New ranking methodology to increase weight of DACs and EJ sites
- Delegation of fundable list revisions to deputy director or designee

Proposed Resolution adoption of:

- DAC/EJ 50% weight in new ranking
- Human health and environment 50% weight in new ranking
- Updated funding considerations



25th California Unified Program Annual Training Conference March 20 - 23, 2023



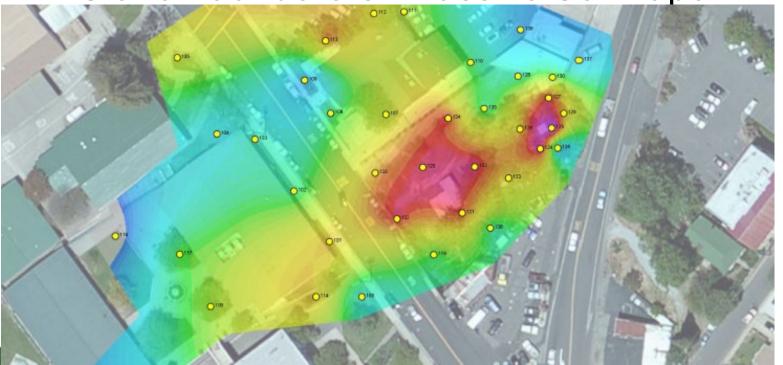
Sierra Launderers & Cleaners, Sonora, CA



- Chlorinated solvents in fractured bedrock with dense non-aqueous phase liquid
- Passive soil vapor survey to identify source areas
- High density soil sampling to delineated source area vertically
- High resolution geophysics and confirmation sampling
- Short-term vapor mitigation measures
- Thermal remedy design in progress

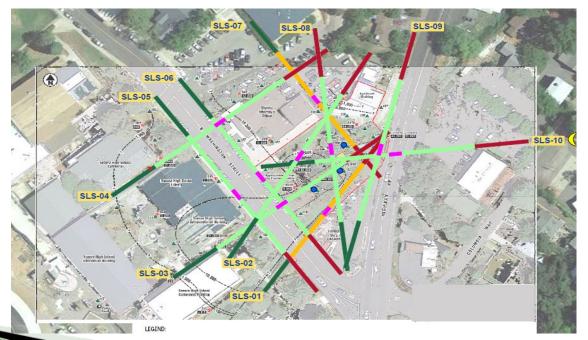


Sierra Launderers - Passive Soil Vapor



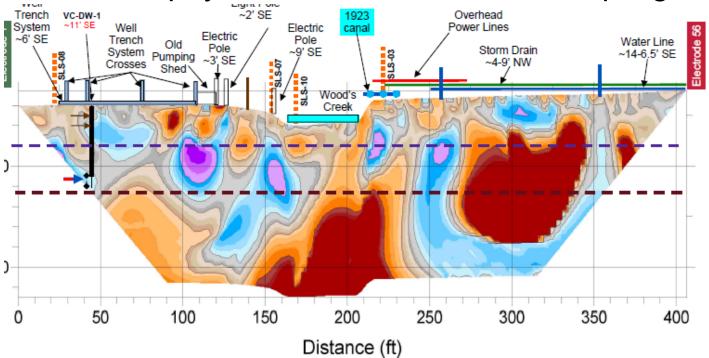


High Resolution Geophysics and Confirmation Sampling





High Resolution Geophysics and Confirmation Sampling





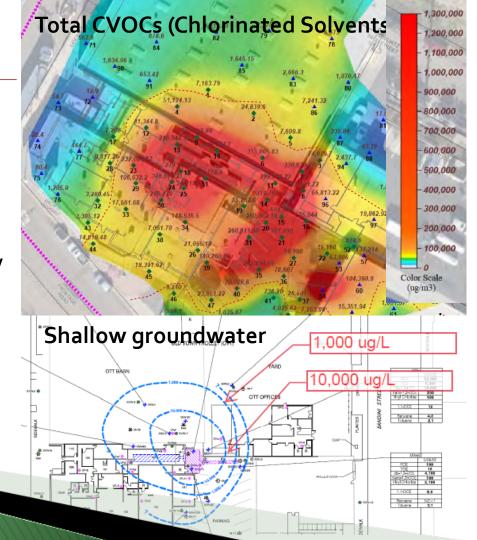


Backstory – Before the Site Cleanup Subaccount Program work

- Site was dry cleaner from 1950s to ~2002
- 100-gallon above ground storage tank contained tetrachloroethene (PCE)
- Investigation work began in the early 1990s with Pacific Services and Old Town Trolley (OTT) site
- Current grantee purchased site in 2012 and began doing investigation and indoor air mitigation work
- Work became too expensive to continue
- Qualified for SCAP funding, grant executed in 2020

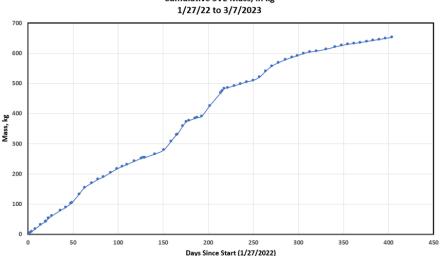
Site Investigation Work

- Performed passive soil gas survey
- Soil and groundwater investigation in source area to determine depth of contamination
- Groundwater concentrations currently up to 52,000 μg/L of PCE in MW-1
- Evaluated indoor air 370 µg/m³ PCE





EXCAVATION WW.5 WW.5 WW.5 WW.5 WW.5 WW.5 WW.5 WW.5 WW.68 WW.68



Remediation/Mitigation Activities

- Conducted over-excavation during installation of soil vapor extraction (SVE) system
- Performed "quick fixes" including installing vent and exhaust fan on roof of building, adjusting makeup air units
- Reduced concentrations in indoor air from 370 μg/m³ of PCE to 8.5 μg/m³ of PCE in March 2022 (below Non-Cancer Hazard)
- SVE system has removed about 50 gallons







Future work

- Additional site investigation
- Continue SVE in source area
- Additional excavation in source area
- Interim groundwater treatment to include fracturing with zero valent iron, colloidal carbon, and enhanced biological amendments





Moving Forward - More Work To Do!

- Ongoing collaboration with Regional Boards and Local Agencies
- Continue focus on high-resolution site characterization
- ~5,400 existing sites contaminated by other types of hazardous pollutants (solvents, pesticides, and heavy metals)
- Additional 17,000 contaminated sites suspected
- About half of contaminated sites within disadvantaged communities
- ~\$75B to \$100B to cleanup all hazardous substance contaminated sites



SCAP Information

Visit our website:

http://www.waterboards.ca.gov/ water_issues/programs/grants_loans/scap

Sign up for email alerts for Groundwater Quality Funding Assistance:

http://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml

Encourage responsible parties to apply, using the Financial Assistance Application Submittal Tool (FAAST) -

https://faast.waterboards.ca.gov

Contact Craig Sanchez at craig.sanchez@waterboards.ca.gov





Any Questions?

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