

AEROJET SUPERFUND SITE

Boundary Operable Unit Proposed Plan May 15, 2013

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Presentation Outline

- The Aerojet Superfund Site
- Cleanup Approach & Progress
- The Problem and Objectives
- Cleanup Alternatives
- Proposed Cleanup



Aerojet General Superfund Site

U.S. Environmental Protection Agency • Region 9 • Los Angeles, CA • May 2013

Proposed Plan for Boundary Operable Unit Cleanup
EPA Requests Public Comment on the Proposed Plan for the Boundary Operable Unit of the Aerojet Superfund Site

The United States Environmental Protection Agency (EPA) is proposing a plan for the cleanup of the Boundary Operable Unit (OU) of the Aerojet Superfund Site. The proposed plan includes the following:

- Construction of a new boundary wall around the site.
- Installation of a groundwater monitoring system.
- Installation of a groundwater treatment system.
- Installation of a surface water treatment system.
- Installation of a sedimentation basin.
- Installation of a dewatering system.
- Installation of a sludge handling system.
- Installation of a leachate collection system.
- Installation of a leachate treatment system.
- Installation of a leachate discharge system.
- Installation of a leachate monitoring system.
- Installation of a leachate reporting system.
- Installation of a leachate record keeping system.
- Installation of a leachate data management system.
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- Installation of a leachate data record keeping system.

Public Meeting
7 p.m. - 9 p.m.
Wednesday, May 15, 2013
Rialto Center, Cor 902
2001 Princeton Blvd
Rialto, CA 92403

Comment Period
May 1, 2013 -
June 1, 2013



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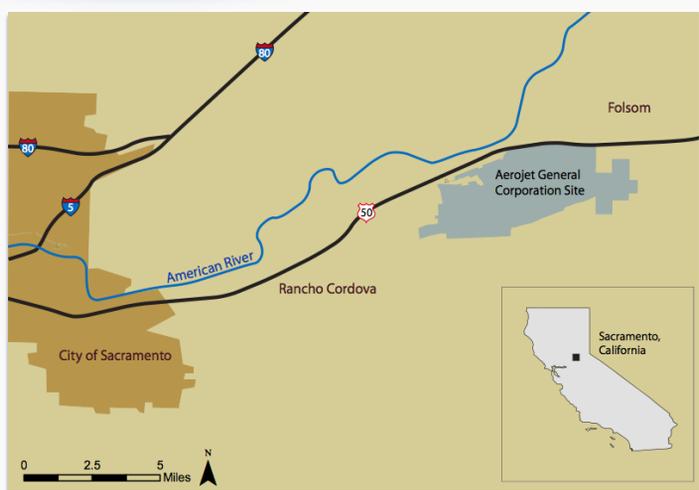


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Aerojet Site Location



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Aerojet Site Cleanup Progress

- Added to EPA Superfund Priority List in 1982
- Groundwater cleanup since mid-1980s
- Divided into Operable Units in 2001
- Records of Decision
 - Western Groundwater 2001
 - Perimeter Groundwater and Soil 2010

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Operable Units at Aerojet



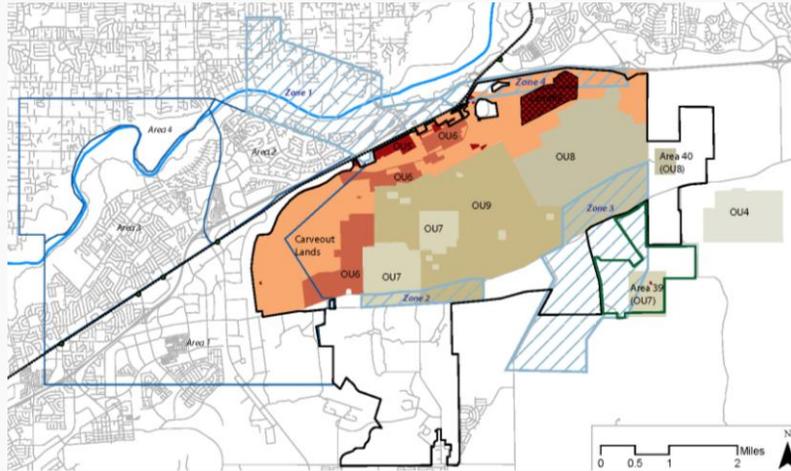
Operable Unit No.	Operable Unit Name	Current Status
1	Overall Site	Reserved for site-wide final remedy
2	American River GET	Addressed under Perimeter Groundwater Operable Unit (OU 5)
3	Western Groundwater	Remedy selected in 2001.
4	Area 41 Soil & Groundwater	Study and remedy selection underway.
5	Perimeter Groundwater	Remedy selected in January 2011.
6	Boundary	Remedy selection underway. Proposed plan May 2013
7	Islands	Study and remedy selection underway.
8	Eastern	Study and remedy selection underway.
9	Central	Study underway.

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Operable Units

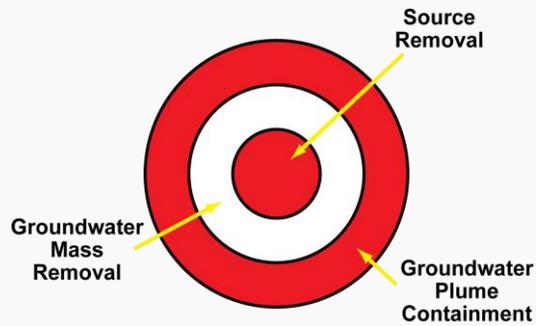


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Site-wide Cleanup Approach



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Boundary Operable Unit



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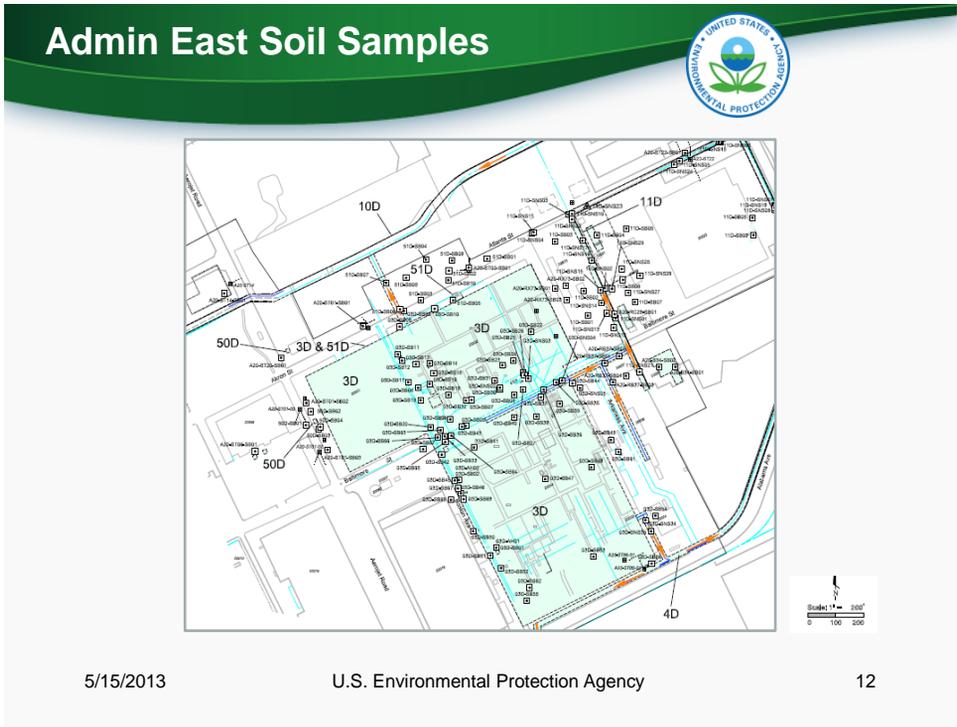
Boundary OU Sampling Program

- Soil
- Soil Vapor
- Surface water
- Sediment
- Ground water

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Risk Assessment

- Site data from soil, soil vapor, and water
- Compared to health standards
- Conservative and protective

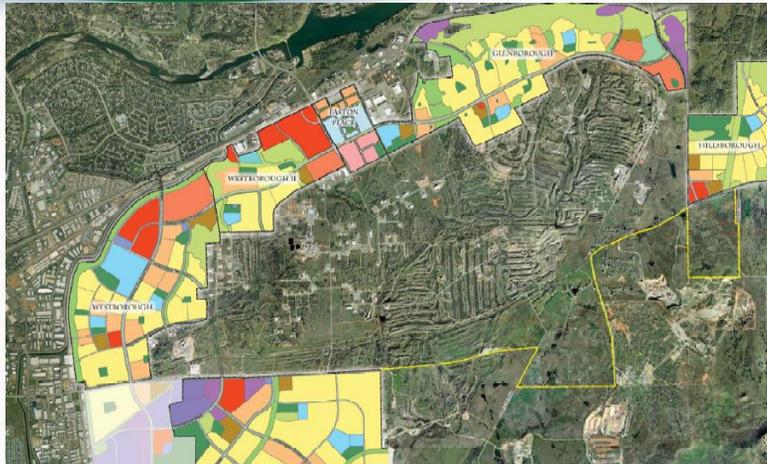
Considers both human health and ecological receptors

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Projected Future Use



Easton Place: Sacramento County [Planning Department](#)

Westborough: City of Rancho Cordova [Planning Department](#)

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Primary Contaminants of Concern

- Solvents
- Polychlorinated Biphenyls
- Metals
- Perchlorate
- Pesticides

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Cleanup Objectives

- Prevent exposure to contamination in soil that poses an unacceptable risk for present and future users
- Prevent migration of contamination to groundwater that could impair beneficial uses
- Prevent exposure to volatile organic compounds (VOCs) in ambient air at levels exceeding health-based screening levels for the current and planned future land use

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Setting Cleanup Goals

- Cleanup levels that protect human health and ecological receptors
- Prevent further contamination to groundwater that would impair beneficial use

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Taking Action: Cleanup Options

- Alternative 1: No Action
- Alternative 2: Institutional Controls
- Alternative 3: Capping
- Alternative 4: Removal
 - Excavation & Off-Site Disposal
 - Soil Vapor Extraction

Details in Proposed Plan

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Comparison of Alternatives

Proposed Plan Table 3

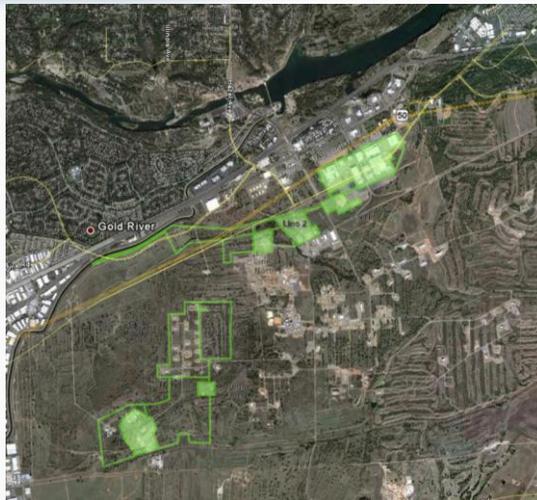
Criteria	Alternative 1 No Action	Alternative 2 Institutional Controls	Alternative 3 Containment/ Operational Controls	Alternative 4 Source Removal/ Reduction
Overall Protection of Human Health and the Environment	○ May be protective for areas with low risk.	● Not protective of groundwater for retained areas with identified risk to groundwater.	● Risk of exposure would be reduced or eliminated.	● Risk would be reduced. Is the most protective.
Compliance with ARARs	○ May comply for areas with limited contamination.	● May not comply for retained areas with identified risk to groundwater or with PCB contamination.	● May not comply for retained areas with identified risk to groundwater or with PCB contamination.	● Would comply.
Long-Term Effectiveness and Permanence	○ None	● Relies on institutional controls alone to prevent exposure.	● Engineered barriers and institutional controls would prevent exposure.	● Risk would permanently be reduced through removal.
Reduction of Toxicity, Mobility, or Volume through Treatment	○ Would not satisfy the preference for treatment.	○ Would not satisfy the preference for treatment.	○ Would not satisfy the preference for treatment.	● SVE would satisfy the preference for treatment.
Short-Term Effectiveness	NA	● No short-term risks to workers or the community.	● Short-term risks to workers and/or the community could be managed.	● Short-term risks to workers and/or the community could be managed.
Implementability	NA	●	●	●
Cost (Present Worth 30 Years)	50	\$100,000 for Boundary OU	Admin Area = 55.16M WLLD = 50.12M Magazine Area = NA Chemical Plant 2 = 50.15M	Admin Area = 54.50M WLLD = 54.78M Magazine Area = NA Chemical Plant 2 = 50.97M
State Acceptance	CA Department of Toxic Substance Control & CA Central Valley Regional Water Quality Control Board concurred with EPA's preferred alternatives.			
Community Acceptance	Community acceptance of the preferred alternatives will be evaluated after the public comment period.			
	● = Meets Criterion ● = Partially meets criterion ○ = Does not meet criterion			
	WLLD = Consists of the Westlakes, Line 2 Region, Line 5 North, and Open Space Areas 5, 6, and 7			

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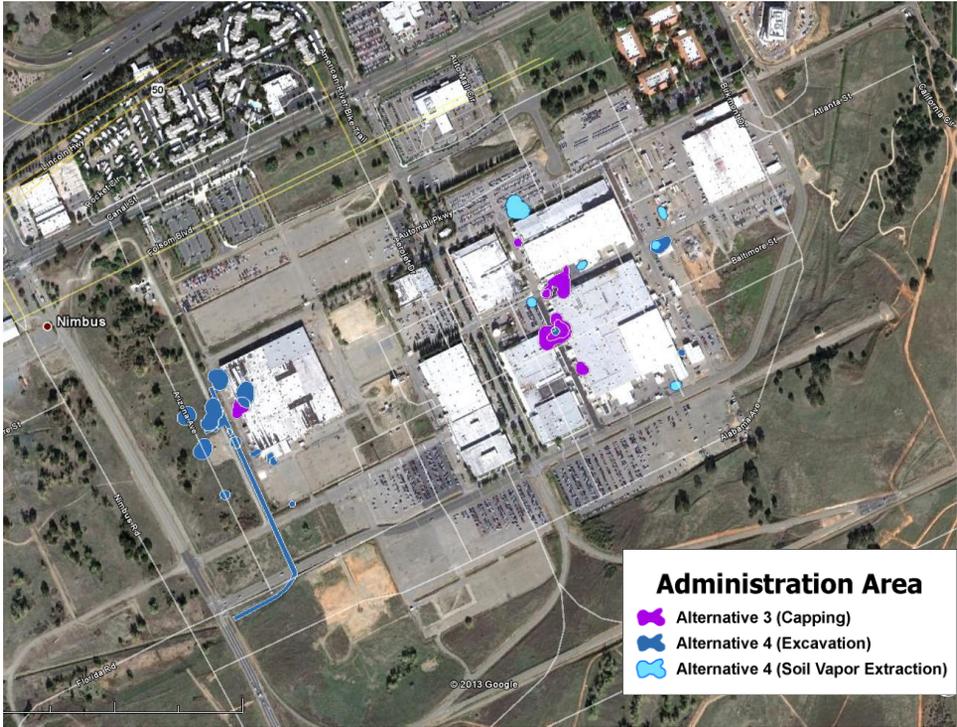
Boundary Operable Unit

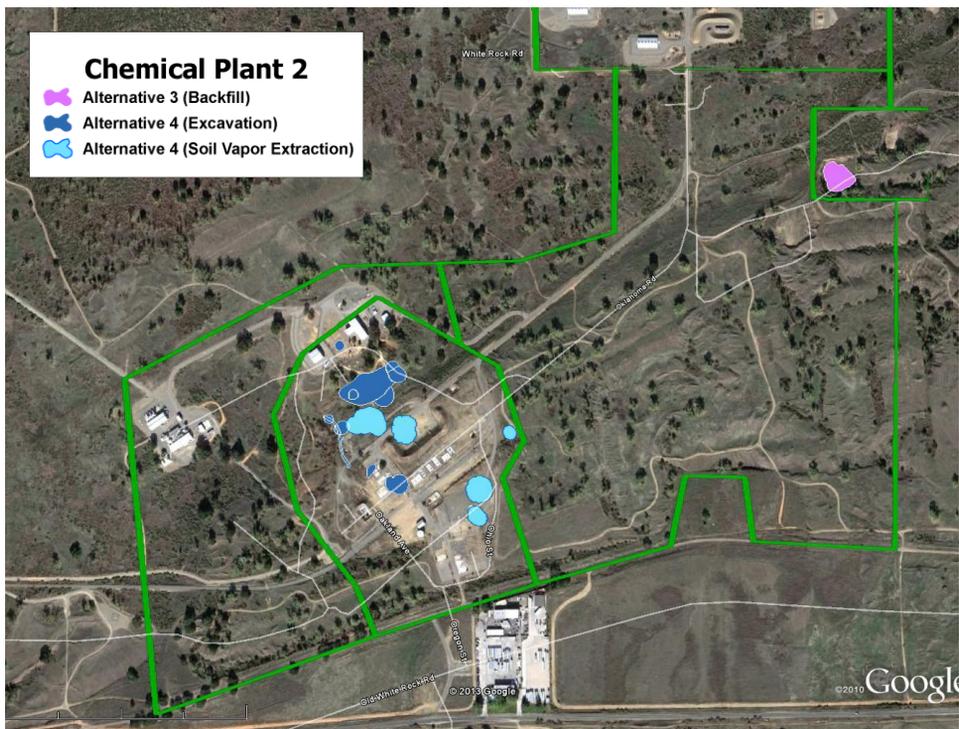


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EPA Accepting Comments Through June 7

Submit comments tonight, or to:

Gary Riley

Riley.Gary@epa.gov

75 Hawthorne St (SFD-7-2)

San Francisco, CA 94105

Fax: (415) 947-3528