

Public Draft Removal Action Workplan

Proposed Richmond Bay
Campus Site
RES Area and
Groundwater

Public Meeting
December 5, 2013



Agenda

- Regulatory Process
- Site History
- Proposed Campus Land Uses
- RAW Overview
- Proposed Cleanup
- Soil Management Plan Overview
- Public Comments

Site Investigation and Cleanup Process

Water Board Investigation and Cleanup Activities



Oversight transferred to DTSC



Current Conditions Report and Public Participation Plan



Site Characterization Report and Risk Assessment



Phase I, II and III Investigations



Draft Removal Action Workplan (RAW)
Fact Sheet & Public Meeting
Responsible Agency for CEQA



Final RAW
Final CEQA Document



Deed Restrictions





Implementation of the RAW







California Environmental Quality Act

- Under CEQA a project is evaluated to determine if it will cause significant negative environmental impacts
- UC is the Lead Agency and DTSC is a Responsible Agency
- DTSC will use UC's Environmental Impact Report (EIR) as the basis to assess impacts associated with the RAW
- UC will certify their EIR and DTSC will determine if the EIR sufficiently evaluates DTSC's project







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Implementation of the RAW









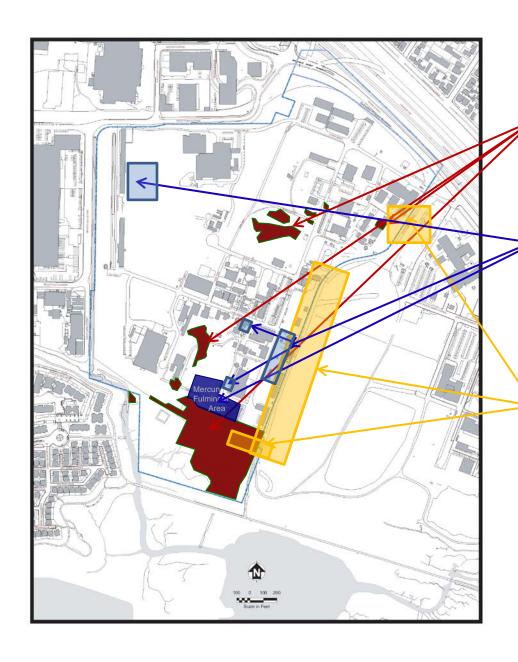






Contaminated Western Stege Marsh prior to clean up





RFS Remediation Summary Current Status

Most principal sources removed

Site Characterization Results Phase I, II, III

Soil: Mercury fulminate area

Soil: Corporation Yard and PCBs

GW: Carbon tetrachloride

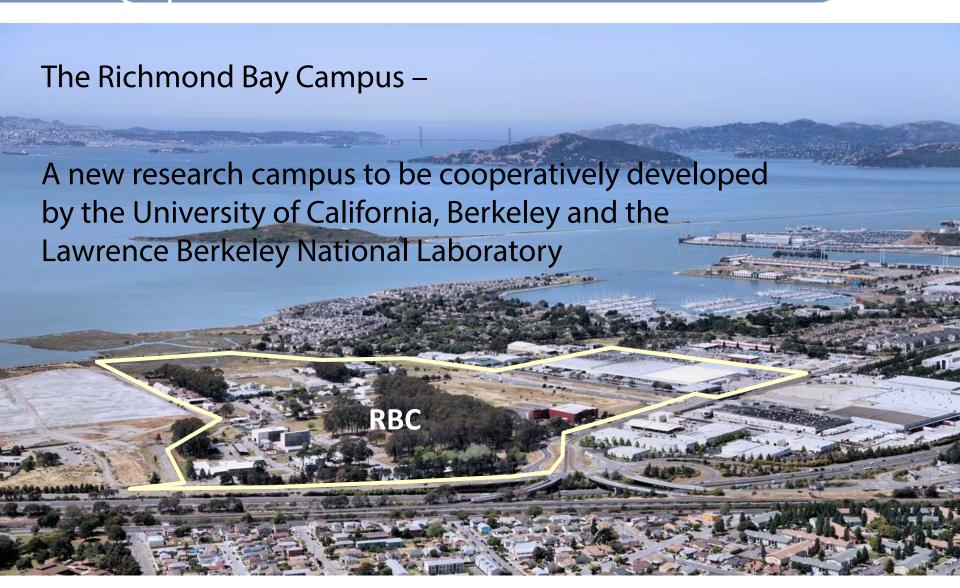
Contaminants From Former Zeneca Site

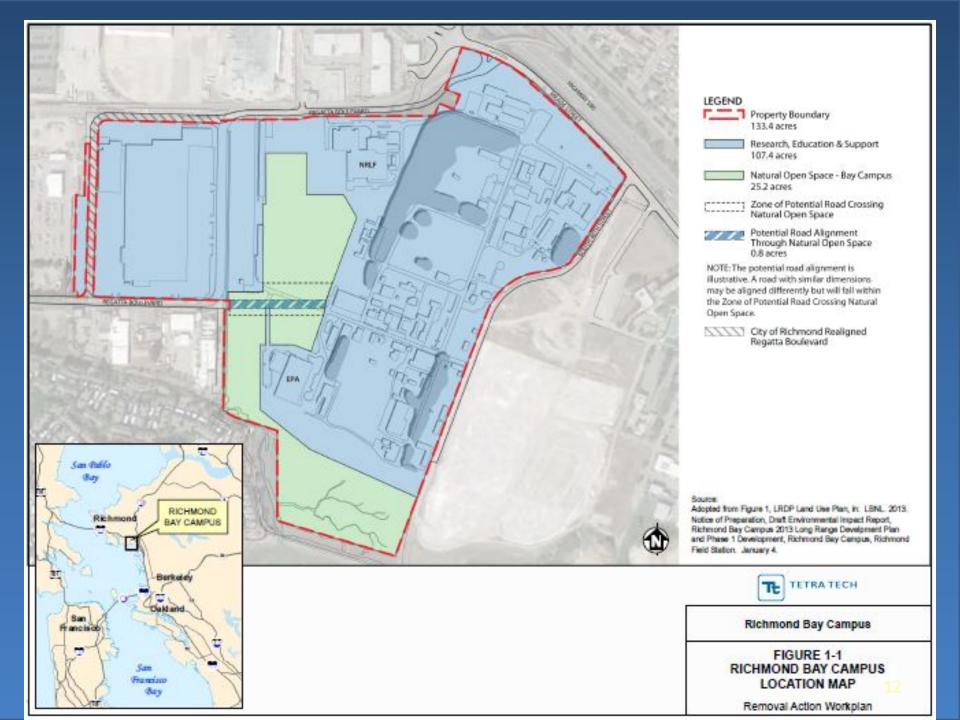
- Property Boundary

- Biological Active Permeable Barrier

Addressed by Upcoming FS/RAP

1 INTRODUCTION





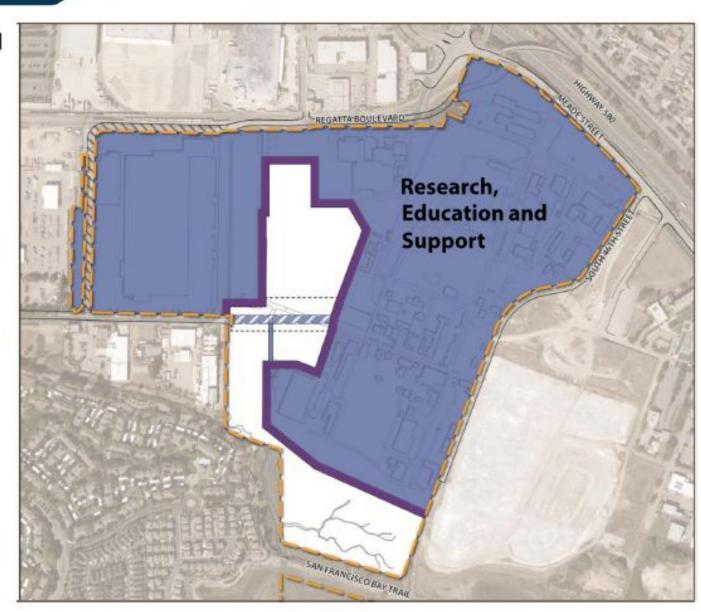
LAND USE PLAN

Research, Education and Support

108 acres

Facilities and Activities:

- Lab, classroom, office, admin. buildings
- Support infrastructure
- Community space
- Dining, visitor accommodation, retail
- Recreation
- Transportation infrastructure
- Open space (plazas, courtyards)
- Buffers for natural open space areas



LAND USE PLAN

Natural Open Space

25 acres

- Western Stege Marsh and coastal grasslands to be protected
- Minimum 12 acres of natural preserve for coastal terrace prairie
- Connected
- Limited human intrusion





RAW Scope

- RES Area Soils within RFS
- Groundwater within RFS
- NOS Area addressed separately
- Regatta Property not included

Key RAW Milestones

Site Characterization Report

Final May 2013

Removal Action Workplan

Public Draft November 2013

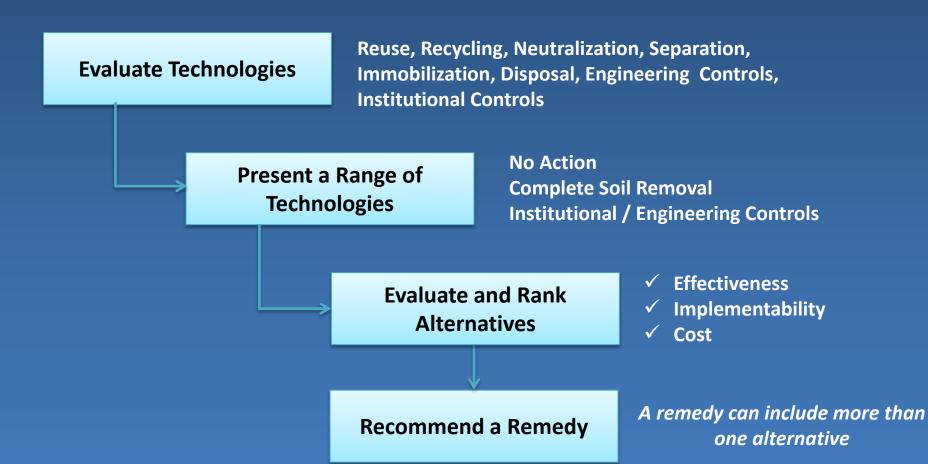
Public Review Period

November 26, 2013 – January 10, 2014 6,000 mailers, emails, newspaper announcement, Dec 5 meeting

Final Removal Action Workplan

Following UC Regent Approval of Proposed Richmond Bay Campus EIR, proposed May 2014

RAW Roadmap



Soil Alternatives

ALTERNATIVE	DESCRIPTION
Soil 1	No Action: Not Proposed
Soil 2	Excavation to Unrestricted Use and Off-Site Disposal : Not Proposed
Soil 3	Excavation to Commercial Use, Off-Site Disposal, SMP, and Land Use Controls: Proposed
Soil 4	Land Use Controls: Not Proposed
Soil 5	Asphalt Cap, SMP, and Land Use Controls: Not Proposed

Groundwater Alternatives Carbon Tetrachloride Area

ALTERNATIVE	DESCRIPTION
Groundwater 1	No Action:
	Not Proposed
Groundwater 2	Permeable Reactive Barrier, Land Use Controls,
	Monitoring:
	Not Proposed
Groundwater 3	Bioremediation, Land Use Controls, Monitoring:
	Not Proposed
Groundwater 4	Monitored Natural Attenuation, Land Use Controls,
	Monitoring:
	Proposed

- TCE addressed within upcoming Campus Bay remedy
- All groundwater subject to ongoing monitoring program

Cleanup Areas

<u>Soil</u>

Mercury Fulminate Area
Corporation Yard
PCB Areas
Deed Restrictions
Soil Management Plan

Groundwater
Carbon Tetrachloride Area
TCE Areas
Deed Restrictions
Annual Monitoring



Soil Management Plan

Public Draft

SOIL MANAGEMENT PLAN

Removal Action Workplan, Attachment C

Richmond Bay Campus, Richmond, California

Research, Education, and Support Area within the Former Richmond Field Station

Prepared for:

University of California, Berkeley

November 25, 2013

Prepared by



TETRA TECH, INC.

1999 Harrison Street, Suite 500 Oakland, California 94612



- Guidance for soil investigation prior to future construction or subsurface activities
- Ensures no unsafe conditions are present for construction workers, onsite tenants, or off-site communities
- Ensures no exposure to unsafe soil or groundwater contaminants for future tenants and workers
- Provides rigorous documentation, UC EH&S oversight, and DTSC approval throughout process
- Constantly monitored and updated

SMP Roadmap

Identify Excavation Activity

Minor utility work, landscaping, repairs Major Redevelopment, Grading, Building Document Approval Process

Review Historical Information and Project Design

SMP prescribes sampling requirements, including COC, depths, frequency, and de minimus exclusions

Conduct Sampling

Select Soil Management

Implement Soil Management

Follow FSAP addendum for protocols

- 1. No Action Necessary
- 2. Off-Site Disposal
- 3. On-Site Management
- 4. Case-by-Case

Follow BMPs

Documentation





Resources

Home

Contacts

Remediation Project

Regulatory Agencies

for the UC Richmond community (UC staff, faculty and students. non-UC tenants, and visitors). This website allows for

convenient access to

If you have

questions.

Welcome

Flock of seventy American coots (Fulica americana) Richmond Fleid Station Meeker Slough February 17, 2010

suggestions related to the environmental remediation project, we're here

The RFS Environmental Website serves as a principal and current

source for environmental news, monitoring data and resources

If you have any questions - from human resources issues to environmental health inquiries - please contact us. A list of names, phone numbers and other resources are available for you

News

Current News

UPCOMING PUBLIC MEETINGS

December 5, 2013 6:30- 8:30 PM RAW Public Meeting B445 RFS See DTSC Public Notice

December 11, 2013 7- 9 PM Draft RBC LRDP EIR Public Hearing City of Richmond Council Chambers

November 26, 2013 Removal Action Norkplan Public Draft Published-Public Review Period Starts Today

November 15, 2013 Draft EIR for Proposed Richmond Bay Campus

October 31, 2013 Latest RFS Groundwater Sampling Results

More information

RFS Environmental Website http://rfs-env.berkeley.edu

DTSC Envirostor http://www.envirostor.dtsc.ca. gov/public/profile

Department of Toxic Substances Control 700 Heinz Avenue, Berkeley, CA 94710 Call for appointment (510) 540-3800

Richmond Public Library 325 Civic Center Plaza, Richmond (510) 620-6554

Richmond Field Station Building 478, (510) 665-3401

Public Draft RAW Comments by January 10, 2014

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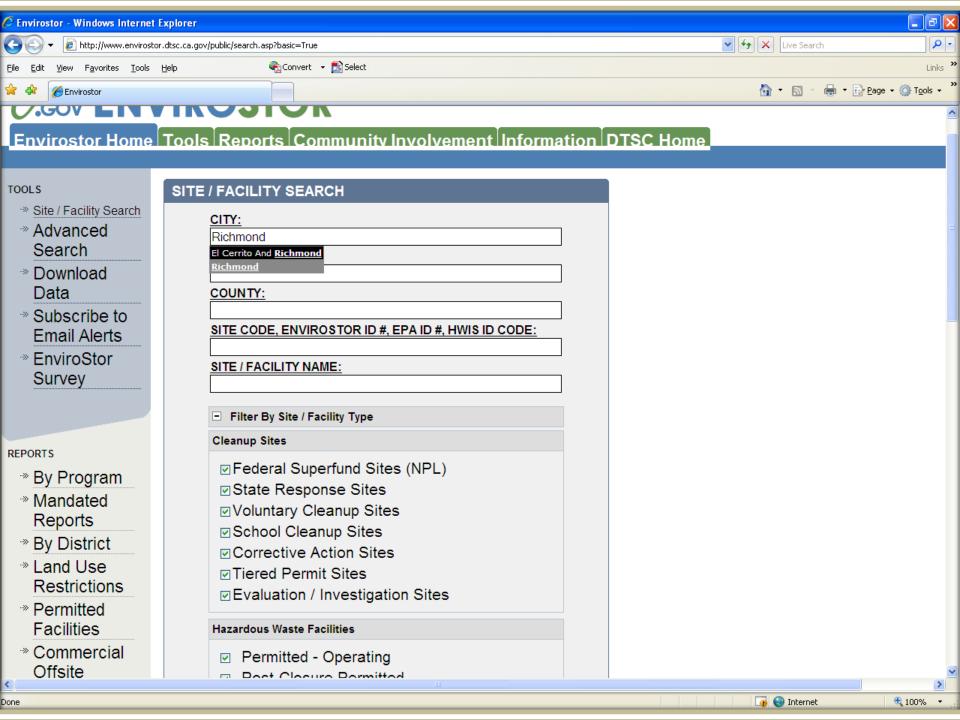
Information Online

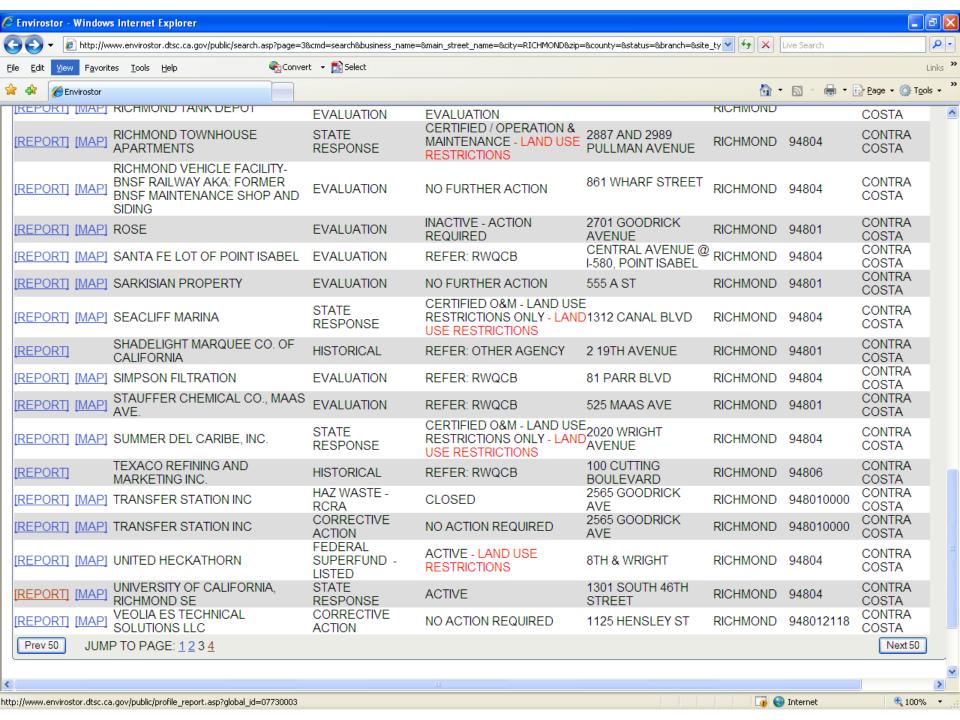
Department of Toxic Substances Control
Website

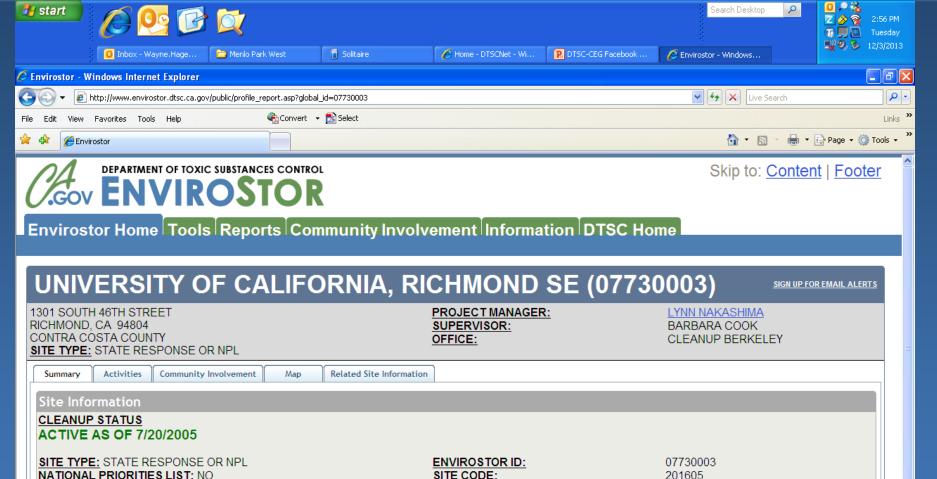
www.dtsc.ca.gov

EnviroStor
Site Information Database









NATIONAL PRIORITIES LIST: NO

ACRES: 162 ACRES

APN: 560060007, 560060008, 560270030 CLEANUP OVERSIGHT AGENCIES:

DTSC - SITE CLEANUP PROGRAM - LEAD

SITE CODE:

SPECIAL PROGRAM:

FUNDING:

ASSEMBLY DISTRICT:

SEDIMENTS, SOIL

RESPONSIBLE PARTY 15

SENATE DISTRICT: 09

POTENTIAL MEDIA AFFECTED

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION

ILLEGAL DUMPING, LABORATORIES- UNSPECIFIED, MANUFACTURING - OTHER, RESEARCH - OTHER, SCHOOL - COLLEGE

POTENTIAL CONTAMINANTS OF CONCERN

CONTAMINATED SOIL

METALS

ORGANOCHLORINE PESTICIDES (8081 OCPS)

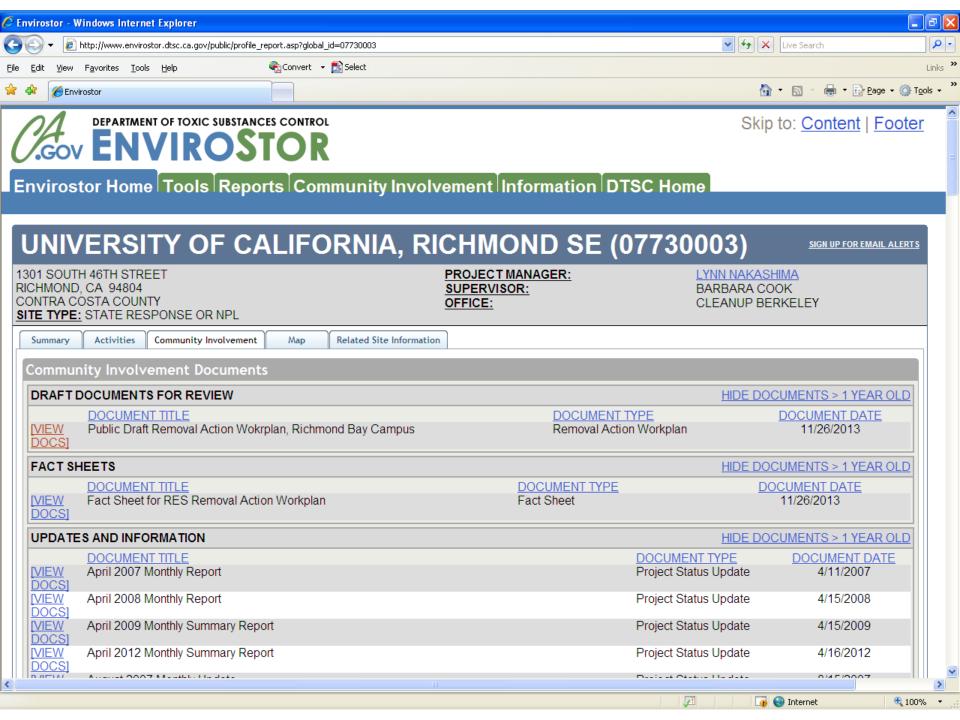
POLYCHLORINATED BIPHENYLS (PCBS)

Site History



100%





Open Discussion Questions Comments

