

# COMMUNITY Notice

The mission of DTSC is to protect California's people and environment from harmful effects of toxic substances through the restoration of contaminated resources, enforcement, regulation and pollution prevention.

## You may comment on the Proposed Remedy for groundwater at DuPont Oakley Site

The Department of Toxic Substances Control (DTSC) invites you to review and comment on a proposed cleanup for the E. I. du Pont de Nemours and Company (DuPont) former facility located at 6000 Bridgehead Road, Oakley, California, 94561. The cleanup proposes to improve groundwater quality in the Plume 3 area. Please see the map of this location on page two. Contaminated soil in this area is being removed as part of another project.

DuPont and DTSC have an agreement to clean up the DuPont Oakley site. For this project, DTSC proposes to approve a Negative Declaration under the California Environmental Quality Act (CEQA).

### SITE HISTORY AND OPERATION

The 378-acre DuPont Oakley Site is a former chemical manufacturing facility that produced chlorofluorocarbons (CFCs), fuel-additive anti-knock compounds (AKCs), and white pigments (TiO<sub>2</sub>). Production of CFCs began in 1956. AKC production was added in 1957 followed by production of TiO<sub>2</sub> in 1963. All three product lines were discontinued beginning with AKC manufacturing in 1981 followed by CFC manufacturing in 1995, and TiO<sub>2</sub> manufacturing in 1997. The TiO<sub>2</sub> and CFC blending operations were shut down in November 1998. DuPont has since demolished the manufacturing facilities at the site. The DuPont Oakley Site is currently zoned for heavy industrial use.

Likely future use could include a mix of industrial, commercial, and retail uses with much of the land close to the San Joaquin River remaining as undeveloped open space or wildlife habitat. Surrounding land uses include marinas, a highway, electrical substations, a metal scrap yard, and vineyards. Site access is restricted by a perimeter fence and a guarded entrance.



**October 26, 2012 - December 10, 2012**

DTSC invites you to review and submit comments on the proposed remedy. The public comment period will begin October 26, 2012 and runs through December 10, 2012. All comments must be received by December 10, 2012. Please send to:

Peter Ruttan, P.G.,  
Project Manager

DTSC-Sacramento Office

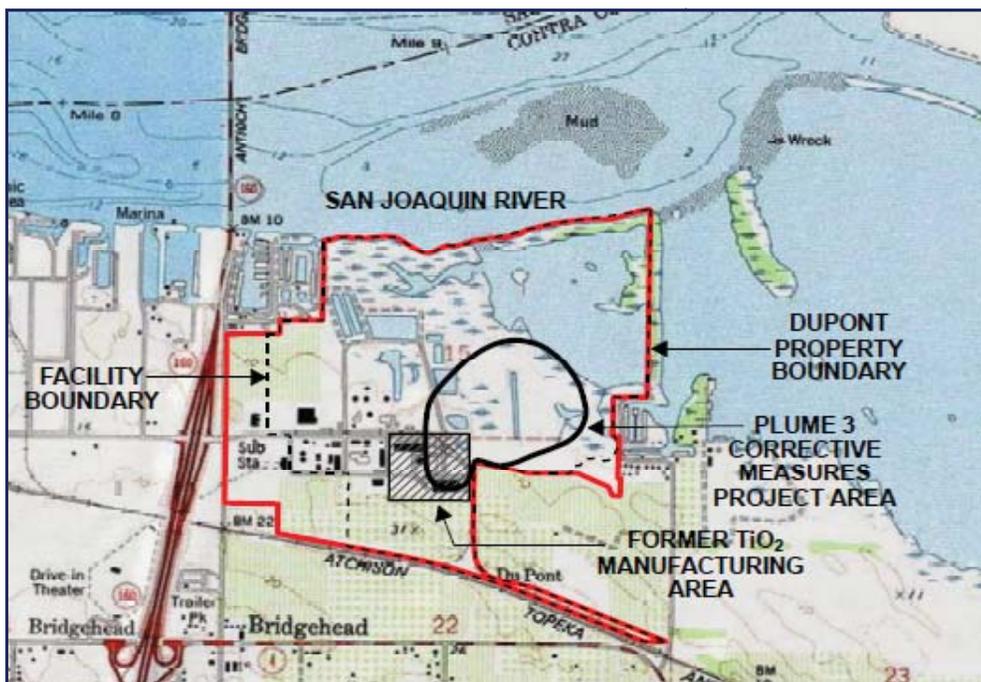
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*Plume 3 area shown in the center of the site*

## PLUME 3 AREA

The former TiO<sub>2</sub> manufacturing area appears to be the source for the solvent known as perchloroethylene (PCE) and identified in the Plume 3 area groundwater above state cleanup levels. The PCE is greatest in the first 50 feet below the ground surface. The Plume 3 Area begins in the southwest corner of the former TiO<sub>2</sub> manufacturing area and continues northeast toward Little Break. The westernmost portion of the Plume 3 Area was used for manufacturing and processing, while the central and eastern portions remains as undeveloped wetlands.

DuPont has done groundwater investigations and routine quarterly groundwater monitoring over the past decade. A Corrective Measures Study or cleanup report (Plume 3 CMS Report) provides the specific groundwater cleanup standards and objectives for Plume 3 and evaluates the potential human and ecological exposures and health risks associated with PCE in groundwater.

In this Report, DTSC recommends specific measures to clean up groundwater.

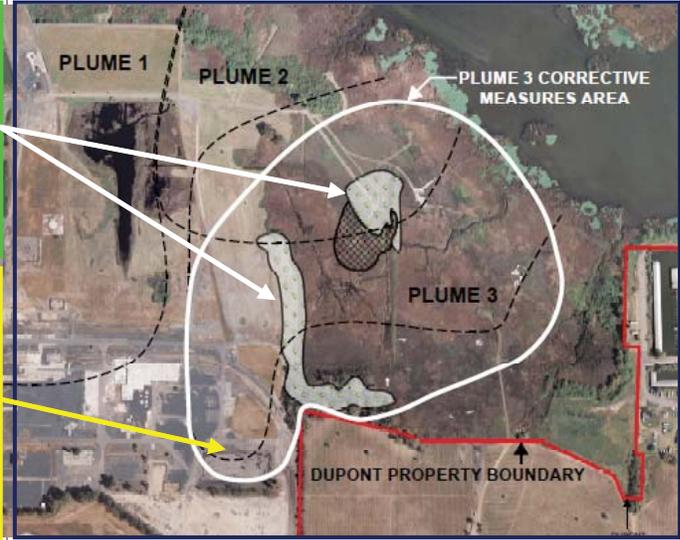
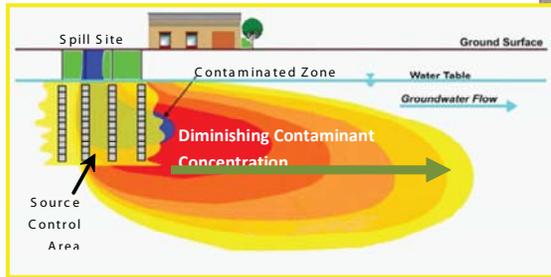
DTSC and DuPont evaluated a number of approaches that have been used to clean up solvents in similar situations. DTSC recommends a combination of four tools: source area control, phytoremediation, monitored natural attenuation, and institutional controls.

In addition to the soil removal action being conducted under a separate project, the largest concentrations of PCE in groundwater will be treated through the addition of materials that will either enhance the natural biodegradation processes already at work or chemically destroy the contamination. None of these materials proposed for this corrective measure will further degrade the environment.

Phytoremediation is using plants to clean up groundwater by utilizing the PCE as food. Eucalyptus and willows to withdraw water containing PCE through their roots.



Phytoremediation will use willow and eucalyptus trees (like the existing stand pictured to the right) in the areas depicted in the site map (see arrows far right). Source control measures (depicted below) like enhanced bioremediation will be used in the source area.



*Clean up will combine trees, source control and land use control*

Trees will be planted and maintained in the area to which contaminated groundwater is moving. Routine collection and analysis of groundwater upgradient and downgradient of the tree stands will demonstrate the effectiveness of this tool.

Natural processes are also effective at breaking down contaminants in subsurface soils into “daughter” products that are less, and sometimes not at all harmful to human health and the environment. This process is called natural attenuation. Data collected during routine groundwater monitoring at the Oakley site indicate that this process is at work. Routine groundwater monitoring will continue at the site for the long term, and data will be carefully evaluated to monitor the effectiveness of natural attenuation.

Recommended institutional controls include a land use covenant for the entire site to prevent the extraction and use of groundwater other than for monitoring purposes. The covenant will require future buildings to be constructed in such a way to protect public health.

## CALIFORNIA ENVIRONMENTAL QUALITY ACT

Under the California Environmental Quality Act or CEQA, DTSC prepared an Initial Study to evaluate the environmental impacts of the proposed corrective measures. Based on the Initial Study, DTSC finds that the project would not have significant adverse impacts on public health and the environment and therefore proposes to adopt a Negative Declaration for the proposed project. Comments on both the Plume 3 CMS Report and the proposed Negative Declaration will be accepted during the public comment period.

## YOU CAN PARTICIPATE IN OUR DECISIONS

Before making a final decision on this action, DTSC will review and respond in writing to all public comments. A Response to Comments document will be sent to all those who submit public comments and to those who request a copy. A copy of the Response to Comments will also be placed in the information repositories.



## FOR MORE INFORMATION

If you have questions, please contact:

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## INFORMATION REPOSITORIES

The Plume 3 CMS Report and the draft CEQA Negative Declaration are available for review at:  
The Oakley Public Library, 1050 Neroly Road, Oakley California 94561  
(925) 625-2400

DTSC File Room, 8800 Cal Center Drive, Sacramento CA 95826, (916) 255-3758

For more information about DTSC, please visit our web site at: [www.dtsc.ca.gov](http://www.dtsc.ca.gov)

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