



Department of  
Toxic Substances  
Control

*Preventing  
environmental  
damage from  
hazardous waste,  
and restoring  
contaminated  
sites for all  
Californians.*



State of California



California  
Environmental  
Protection Agency

Fact Sheet October, 2007

## Draft Removal Action Workplan for Orland Dry Cleaners Available for Public Review

The Department of Toxic Substances Control (DTSC) invites public review and comments on the draft Removal Action Workplan (RAW) for the Orland Dry Cleaners Site. The draft RAW provides details about site investigations and proposes the method by which groundwater contamination will be cleaned up at the site. The public is encouraged to review and comment on the draft RAW.

### THIS FACT SHEET WILL INFORM YOU ABOUT:

- Site History and Location
- Investigation Findings
- Summary of the Draft RAW
- California Environmental Quality Act
- Next Steps

### SITE HISTORY AND LOCATION

The Orland Dry Cleaners Site is located at 726 5th street in Orland, California. The site consists of a single building that is approximately 2,000 square feet and has been operating as a dry cleaning business since the 1940s.

Between 1988 through 1992 the dry cleaning operations were contracted off-site. However, in May of 1992 dry cleaning operations resumed at the site with a fully self-contained dry cleaning machine. Historically, tetrachloroethene (PCE), a cleaning solvent used in the dry cleaning industry, was discharged into a drain located inside the building.

### PUBLIC COMMENT PERIOD

DTSC invites the public to review and comment on the draft RAW for the Orland Dry Cleaners site. The 30-day public comment period begins on October 12, and ends on November 13, 2007. Written comments must be postmarked or emailed no later than the last day of the comment period. Please send your comments to:

Relly Briones  
DTSC Project Manager  
8800 Cal Center Drive  
Sacramento, California 95826  
E mail [RBriones@dtsc.ca.gov](mailto:RBriones@dtsc.ca.gov)



## INVESTIGATION FINDINGS

The Orland Dry Cleaners site has been identified as the source of contamination to a groundwater plume. The primary contaminant of concern in the groundwater is PCE. Between 2003 and 2006, several investigations were conducted to further evaluate the extent of contamination in both soil and groundwater.

The results of these investigations indicate that the PCE-contaminated groundwater plume extends approximately 2.5 miles from the site in a southeast direction. The plume width is approximately 600 feet to 1,800 feet and is about 127 feet below the surface. To date, PCE has not been detected in any of the city water supply wells.

Soil gas sampling detected PCE and trichloroethene (TCE), but the human health risk assessment done for soil vapors concluded risk is within acceptable range.

### WHAT IS A DRAFT RAW ?

The draft RAW evaluates cleanup alternatives which prevent or reduce potential risks to public health and the environment. A draft RAW summarizes previous investigations and identifies the possible cleanup alternatives. Cleanup alternatives are screened and evaluated on the basis of their effectiveness, ability to be implemented and cost.

The draft RAW then identifies the alternative DTSC recommends and believes is the most appropriate for the site cleanup.

DTSC will review and consider all comments received during the 30-day public comment period before making a final decision to approve, modify or deny a draft RAW.

The removal action objective for the Orland Dry Cleaners site is to reduce the PCE contamination in the groundwater plume and to prevent human contact with the contaminated water.

### WHAT IS PCE?

- A colorless, nonflammable liquid.
- Widely used for dry cleaning and as a metal degreaser. Also used in some consumer products such as glues and polishes.
- Recognized as a possible human carcinogen.
- Also known as Perchloroethylene, PERC, or tetrachloroethylene.

## SUMMARY OF THE DRAFT RAW

The draft RAW for the site proposes that contaminated groundwater be cleaned up through a process called In-Situ Reductive Dechlorination. This process involves:

- Injecting emulsified soybean oil into areas of the contaminated groundwater plume. The soybean oil will help in accelerating the natural process of biodegradation “destroying” or “breaking down” the contaminants. Through this process PCE will break down into relatively benign compounds.
- Approximately 60 injection holes and six monitoring wells will be installed in residential areas along the plume from the site to the Mill Street Grammar School. Groundwater will be treated with the soybean oil as it flows through each injection hole.
- Work at the Site will be performed during regular work hours.
- There will be no aboveground installations or maintenance systems.
- There will be minimal disturbances to the residents, since injection holes and monitoring wells will be installed in the streets.

## NEXT STEPS

During the 30-day public comment period, the public has an opportunity to review and comment on the draft RAW. The 30-day public comment period begins on October 12, 2007 and ends on November 13, 2007. Mailed comments must be postmarked no later than November 13, 2007 and e mailed comments must be received by 5:00 p.m. on that same date to:

Relly Briones  
DTSC Project Manager  
8800 Cal Center Drive  
Sacramento, California 95826  
[RBriones@dtsc.ca.gov](mailto:RBriones@dtsc.ca.gov)

DTSC will consider all comments received during the comment period before making a final decision on approving, amending, or denying the draft RAW. Once a decision has been made, DTSC will send a "Response to Comments" document to those who submitted comments or questions. A copy of the "Response to Comments" document will be placed at the information repositories listed below.

## INFORMATION REPOSITORIES

The draft RAW is available for review at:  
Orland City Hall  
815 4th Street  
Orland, California 95963  
(530) 865-1600

The full Administrative Record is located at:  
DTSC File Room  
8800 Cal Center Drive  
Sacramento, California 95826  
(916) 255-3758  
(Please call for an appointment.)

## FOR MORE INFORMATION

Questions regarding the draft RAW:  
Relly Briones  
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Questions regarding public participation:  
Jesus Cruz  
DTSC Public Participation Specialist  
8800 Cal Center Drive  
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## WEB SITE INFORMATION

The draft RAW is available online at [www.envirostor.dtsc.ca.gov/public/](http://www.envirostor.dtsc.ca.gov/public/) under the project name Orland Cleaners. If you would like to learn more about the Department of Toxic Substances Control, you can visit us online at [www.dtsc.ca.gov](http://www.dtsc.ca.gov).

Para preguntas en Espanol tocante este proyecto, llame a Jesus Cruz al (916) 255-3315