



Department of
Toxic Substances
Control

*The Mission of
the Department of
Toxic Substances
Control is to
provide the highest
level of safety, and
to protect public
health and the
environment from
toxic harm*



State of California



California
Environmental
Protection Agency

Fact Sheet, May 2011

Stringfellow Superfund Site Project Update

(para informacion en Espanol, llame a Jesus Cruz, al 1(866) 495-5651)

The Department of Toxic Substances Control (DTSC) is sending this fact sheet to update you on the cleanup of the Stringfellow Superfund Site in Glen Avon. DTSC is the lead state agency conducting environmental actions to clean up the site.

In this fact sheet you will find information on:

- 2010 clean-up work highlights ([pages 2, 3, 4](#))
- Planned Activities for 2011 ([Page 4](#)).

How Does this Affect Me?

- The soil and groundwater contamination at the site is being cleaned up to better protect the environment and the health of the community.
- All water consumed by people near the site originates from municipal water sources, so it is safe to drink because the water does not originate from groundwater below the site.
- The ground water at or near the site is safe for plants, trees and livestock.

Stringfellow Site Background

The Stringfellow Superfund Site (site) was used to dispose of liquid hazardous waste. It operated from 1956 to 1972 and received about 35 million gallons of hazardous waste. The site is located in Pyrite Canyon, north of Highway 60 in Glen Avon.

In the early 1980's, the Santa Ana Regional Water Quality Control Board removed the liquid hazardous waste from the ponds and covered the site with soil. Since 1986, the United States Environmental Protection Agency (U.S. EPA) and DTSC have installed hundreds of groundwater monitoring wells, extraction wells, and several treatment plants to contain and remediate contaminated groundwater migrating from the site.

GET INVOLVED

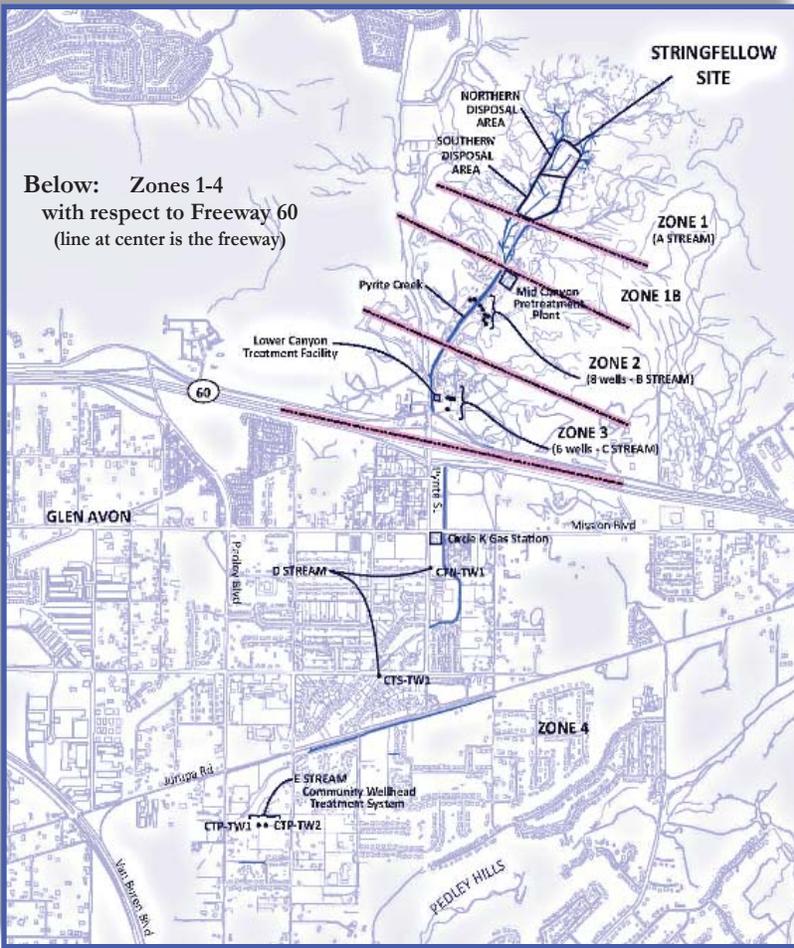
The Stringfellow Advisory Committee (SAC) invites you to our meetings. The meetings are held once every two months, usually on the third Wednesday of the month at 10:00 a.m. at:

Stringfellow Information Center
9415 Mission Boulevard, Suite D
Glen Avon, California 92509

For more information contact Jesus Cruz, DTSC, Public Participation Specialist
at (866) 495-5651 or e mail JCruz@dtsc.ca.gov

For a colored copy of this fact sheet, please go to the DTSC Envirostor website:
http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=33490001





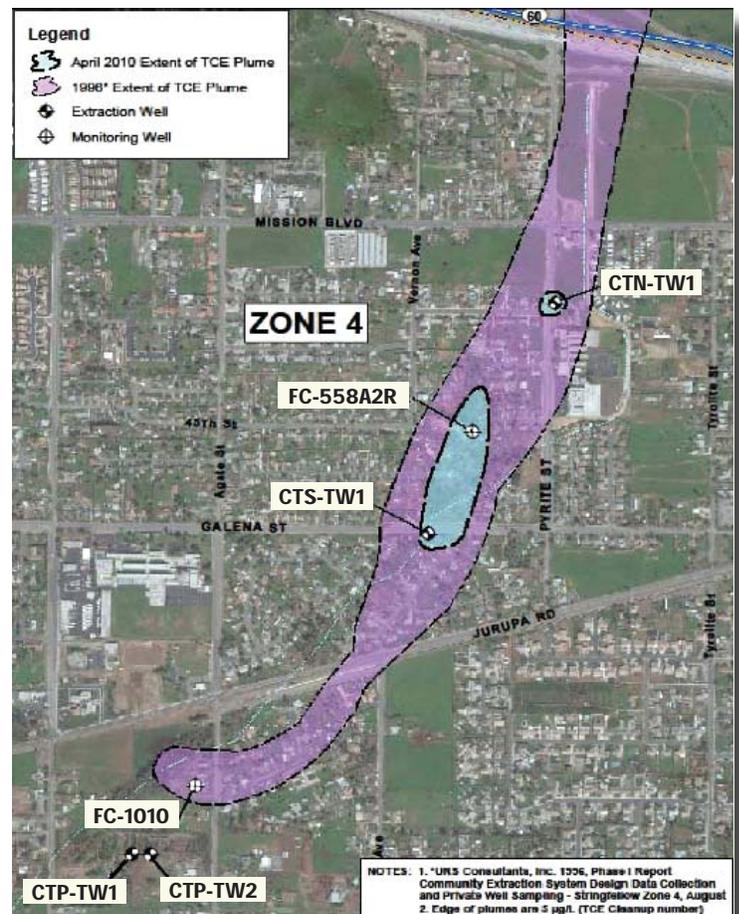
In 2010, Several Projects Were Completed to Improve Site Cleanup Efforts and to Protect the Community

- The Draft 2006-2007 Biennial Groundwater Remedy Effectiveness Evaluation Report was submitted to US EPA. The report looked at capture zones of pumping wells and the monitoring program. The pumping system is functionally effective in removing contaminants, but some improvements and pump lowering was recommended. Well FC-558A2 was replaced on Lone Tree Blvd, Well FC-1010 A/B will be replaced in Zone 4 near Pyrite Street and Mission, and more nested monitoring wells are needed near pumping wells.
- Soil samples were collected to evaluate potential harm to animals in the Zone 1 area of Pyrite Canyon, in the area where the old hazardous waste site was located (Note: this area is controlled for human access).

DTSC has been very successful in cleaning up the TCE Groundwater Plume

- Trichloroethylene, also known as (TCE), can cause headaches and dizziness in humans, and can generally affect the central nervous system and organs in the human body over the long term.
- In the early 1990s, DTSC installed a series of groundwater extraction wells in the TCE plume south of Highway 60. As a result of these wells, the area of TCE contaminated groundwater south of the highway has been significantly reduced with only a few isolated areas that exceed 5 parts per billion (ppb), the maximum contaminant level allowed in drinking water.

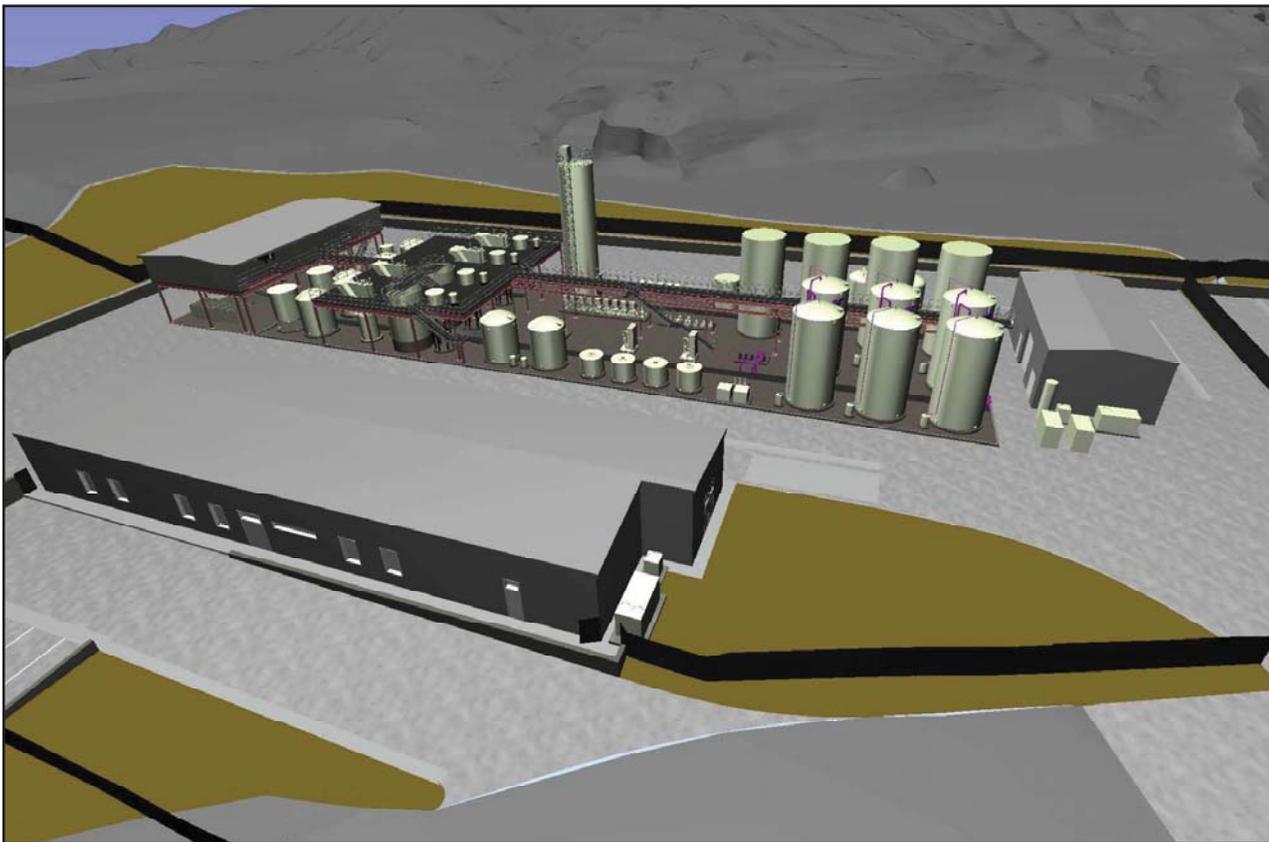
To the Right: The former 1996 TCE plume (in purple) has been reduced to a smaller 2010 plume, (in blue) at the center of the picture



DTSC to Build the New Pyrite Canyon Treatment Facility

- In 1985, U.S. EPA (Environmental Protection Agency) built the original Stringfellow Pre-Treatment Plant (PTP).
- The PTP was built to take the contaminants out of the groundwater that is extracted from dozens of wells located at the Stringfellow site.
- The new Pyrite Canyon Treatment Facility (PCTF) will replace the original PTP. The new treatment equipment will be more efficient, modern, reliable, and safer to operate. The design of the PCTF is about halfway complete.
- DTSC will begin construction of the PCTF in the fall of 2012 and will take about 1 1/2 years to complete.

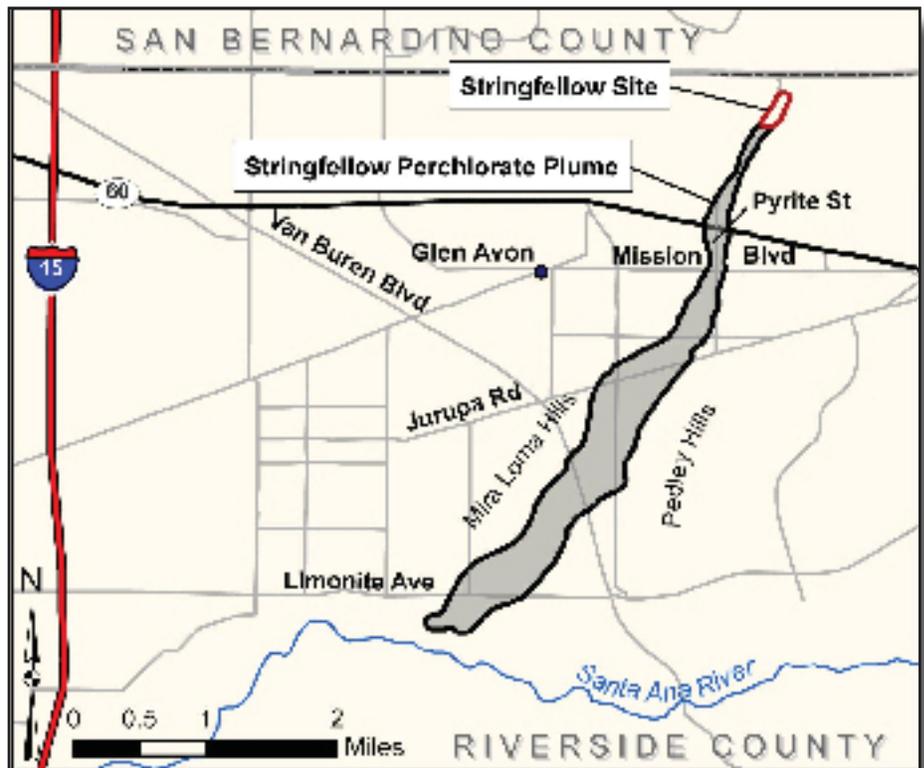
(below)
The Future Pyrite Canyon Treatment Facility



DTSC has completed the Zone 4 Remedial Investigation for Groundwater

- In 2001, DTSC found perchlorate in the groundwater between Highway 60 and the Santa Ana River.
- The Zone 4 Remedial Investigation is completed and the Perchlorate Plume has been defined as shown on the figure on Page 4.
- Perchlorate is a salt, and in synthetic form is present most commonly as ammonium perchlorate, which is used in applications like solid fuel rockets and matches. It can affect human health by interfering with iodide uptake into the thyroid gland. In adults, the thyroid gland helps regulate the metabolism by releasing hormones, while in children, the thyroid gland helps in proper development.

- As the next step, the Feasibility Study (FS) will consider a range of viable alternatives to clean up perchlorate in Zone 4, balancing such factors as effectiveness, ability to implement, cost, and water conservation.
- The process to select an alternative will take into account results of the Final Remedial Investigation, Health Risk Assessment, and Groundwater Modeling.
- A computer-generated model is being developed as a tool in the FS to predict how many pumping wells to use, how long the perchlorate cleanup time will be, and to simulate the effectiveness of Cleanup Alternatives in the FS.



Above: The Perchlorate Plume In The Center

Planned Activities for 2011

- Summer 2011, move DTSC Stringfellow Field Office to a facility, located at 10247 Bellegrave Ave, Suite 131, Riverside, near the corner of Bellgrave and Van Buren Boulevard, in Mira Loma.
- Add more pumping wells to Zone 3 (just north of 60 Freeway and Granite Hill Road) and in Pyrite Canyon (Zone 1) near a clay barrier to improve capture of contaminated groundwater.
- Replace groundwater monitoring well (FC-1010) near Jurupa Road and Agate Street.
- Install computer monitoring and data collection system on pumping wells in the Zone 2 and 3.
- Update the computer-generated groundwater model to predict how many pumping wells are needed and estimate completion times for the cleanup solutions.
- Prepare Zone 4 Feasibility Study to compare cleanup alternatives for perchlorate in the community area.

Contact Information

Listed below is DTSC staff contact information:

<u>Technical Issues</u>		<u>Public Participation</u>	<u>Media Questions</u>
Project Managers		Public Participation Specialist	Public Information Officer
Joan Weber	or Susan Fears	Jesus Cruz	Sandra Friedman
(916) 255-6518	(916) 255-6552	(866) 495-5651 or (916) 255-3315	(714) 484-5383
JWeber@dtsc.ca.gov	SFears@dtsc.ca.gov	JCruz@dtsc.ca.gov	SFriedma@dtsc.ca.gov

Electronic versions of Site documents: http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=33490001

Hard copies at: Glen Avon Public Library, 4810 Pedley Road Riverside, California 92509 (951) 685-8121.