

**STATE WATER RESOURCES CONTROL BOARD  
RESOLUTION NO. 2013-0011**

ALLOCATE \$252,070 FROM THE CLEANUP AND ABATEMENT ACCOUNT (CAA) TO  
THE CITY OF TURLOCK (CITY) FOR IMPROVING REMEDIATION OF  
PERCHLOROETHYLENE (PCE) IN TURLOCK GROUNDWATER (PROJECT)

WHEREAS:

1. The City is requesting a total amount of \$252,070 from the CAA to continue groundwater remediation of PCE within the City;
2. This funding request would be used to expand the treatment system and continue the operation and maintenance for an additional three years;
3. The Regional Water Board has committed to review and approve all Project work prior to implementation, review monitoring and remediation progress reports, conduct inspections, and participate in phone calls and meetings over an estimated three-year time period;
4. Several dry cleaning facilities were formerly located near the downtown area of the City which is located in Stanislaus County. The historic dry cleaning operations at those facilities resulted in the release of PCE into soil and groundwater. The PCE pollution has impacted the groundwater and has adversely affected the beneficial use of the groundwater as a municipal water supply. Financially viable dry cleaners responsible parties were not identified during enforcement efforts undertaken in the early 1990s, so the City applied for monetary assistance from the State Water Resources Control Board's Clean Up and Abatement Account. The City relies upon the groundwater for its municipal water supply;
5. In 1994, the City, the California Department of Toxic Substances Control, and the Central Valley Water Board entered into an "Agreement for PCE Investigation and Removal in Turlock", wherein the City agreed to investigate and remediate the PCE pollution and the parties agreed to work cooperatively to obtain funding for these activities;
6. The City has contributed approximately \$1.4 million thus far with previous PCE investigation and remediation efforts in partnership with the Regional Water Board. The City will also contribute an additional \$91,296 in City staff labor over the course of this three year project;
7. In June 2002, the City received \$136,000 from CAA ([Resolution No. 2002-0124](#)) to implement a pilot study to remediate groundwater contamination from PCE and Trichloroethylene (TCE);

8. In January 2009, the City received an additional \$650,000 from CAA ([Resolution No. 2009-0003](#)) for the continued investigation and remediation of PCE plumes in downtown Turlock;
9. In 2011, the City started an extraction and treatment system to capture, contain, and remove the PCE from the groundwater plume;
10. Since startup of the system, PCE concentrations in the extracted groundwater have consistently exceeded 1,000 micrograms per liter (µg/L), and the City has removed over 100 pounds of PCE from the groundwater;
11. The funds now requested from the CAA would be used to: 1) expand the groundwater remediation system to increase the PCE removal rate; 2) provide for the continued operation and maintenance of the groundwater extraction and treatment system for an additional three years; and 3) abandon monitoring wells that are no longer necessary. Specific improvements to the remediation system will include the addition of vapor phase carbon treatment to the air stripper exhaust to allow for greater PCE mass removal without exceeding air emission permit limits. Part of the additional funding would also be used to conduct confirmation sampling to determine the extraction system's effect on the PCE groundwater plume and determine the remaining duration of the cleanup efforts;
12. Continued operation of the system is expected to remove the bulk of the PCE mass, stabilize the remaining plume, and prevent it from posing a continued threat to the City's municipal water supply; and
13. The requested allocation is consistent with the purposes of Water Code section 13442. Water Code section 13442 provides that the State Water Board may order monies to be paid from the CAA to a public agency and certain not-for-profit organizations and tribal governments that serve disadvantaged communities, and have the authority to cleanup or abate the effects of a waste in order "to assist it in cleaning up the waste or abating its effects on the waters of the state."

THEREFORE BE IT RESOLVED THAT:

The State Water Board:

1. Approves \$252,070 from the CAA to fund the Project.
2. Approves the funding with the expectation that if the agreement has not been executed by November 30, 2013, the Executive Director will bring this item back to the State Water Board in January 2014 for possible rescission of funding.

3. Shall make the funds available until January 30, 2017, and shall revert any unexpended funds to the CAA as of March 30, 2017, unless the Deputy Director or Assistant Deputy Director of the Division of Financial Assistance authorizes an extension.

### CERTIFICATION

The undersigned, Clerk to the Board, does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the State Water Board held on May 7, 2013.

AYE: Chair Felicia Marcus  
Vice Chair Frances Spivy-Weber  
Board Member Tam M. Doduc  
Board Member Steven Moore  
Board Member Dorene D'Adamo

NAY: None

ABSENT: None

ABSTAIN: None



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Jeanine Townsend  
Clerk to the Board