



Department of Toxic Substances Control

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Edmund G. Brown Jr.
Governor

March 2, 2016

Mr. Larry Agran
Irvine, California 92612

Dear Mr. Agran:

I write this letter on behalf of Secretary Rodriguez, who asked me to respond to your inquiry concerning the adequacy of clean up activities at the Portola High School in Irvine, California. I would like to inform you that the Department of Toxic Substances Control (DTSC) has conducted a review of site documents and has determined that further subsurface sampling should be conducted at the site.

The basis for this review is predicated on three factors: the prior use of this site by the military; the occurrence of contamination at a storm drain located at the northern corner of the property; and past sampling that found low levels of volatile organic compounds in certain areas of the property.

Past investigations indicate that the property was undeveloped prior to school construction and that the site was historically leased by the military to farmers. The subsurface investigation was conducted with this conceptual understanding of the site in mind.

Contamination was encountered during the installation of a storm drain at the northern corner of the school property that was not anticipated based on the conceptual understanding of the site. The origin of this contamination is unknown and cannot be attributable to known past operations at the property.

Soil gas sampling during the Supplemental Site Investigation found low levels of volatile organic compounds, specifically tetrachloroethene (PCE), trichloroethene (TCE), benzene, toluene, ethylbenzene, and xylenes (BTEX). The origin of the PCE and TCE is unknown and cannot be attributable to known past operations at the property.

I am directing the Irvine School District to submit a work plan for additional subsurface sampling. The proposed sampling activities should be discussed with DTSC, the public and other interested stakeholders, prior to the formal submittal of the work plan to the Department.

At a minimum, the work plan, and subsequent final report, will include the following elements:

- 1. Sampling Depths. Contamination at the storm drain was encountered at 16 to 20 feet at depth. Soil and soil gas sampling of the school property should be focused at this depth.
2. Soil Gas Sampling. All soil gas samples should be collected pursuant to DTSC's 2015 Active Soil Gas Investigations Advisory.
3. Soil Sampling. All soil samples for VOC analysis should be collected using USEPA Method 5035 pursuant to DTSC's 2004 Method 5035 Guidance Document.
4. Final Characterization Report. The final report should provide a comprehensive summary of all subsurface data collected at Portola High School.

Best regards,

[Handwritten signature of Barbara A. Lee]

Barbara A. Lee
Director

DRAMATIC BREAKTHROUGH FOR PORTOLA H. S. SITE

This letter from the DTSC to Larry Agran with orders to the IUSD to perform further testing for contaminants at the Portola High School site is a definitive response to his August 31, 2015 letter to Governor Brown, though a lot has happened in between! [See the chronology on page 3.]

Below is some background and the implications of the directives in that letter.

Harvey H. Liss, P.E., Ph.D.

This is finally the recognition from the State agency (DTSC) that the mounting evidence of contamination on the school site since its initial approval in 2014 warrants new testing, and that the contaminants could pose a health threat to the school's occupants.

When the project was submitted to the DTSC for their approval by the IUSD's environmental consultant, the historical use of the site was characterized as only a farm—the so-called "conceptual understanding." Hence, it only had to be tested for agricultural chemicals. The discovery of naphthalene and other Volatile Organic Compounds (VOCs) in a storm-drain excavation along Irvine Blvd., as well as soil-gas sampling around the southern perimeter of the school site that had to be performed on a narrow strip of land later acquired to match a new road alignment turned up a plethora of VOCs, all unexpected to be found on a farm.

When contaminants are found on the perimeter of a site, it makes sense to expect that those same contaminants would be found in the interior of the site.

There were a pair of fuel pipelines that ran across the site, serving the airbase when it was in operation. The fuel lines were pressure-tested before they were removed to determine if they leaked, and they did pass that test. However, since they could have had a leak repaired, the soil underneath the pipelines had to be tested at depth for VOCs. They were, and no contaminants were found. However, this does not prove that the surrounding area was not contaminated since no one would have dumped toxic waste over the fuel lines that surely had signage.

The intent here is clear that the work plan for further testing of the interior of the school site to be developed by the IUSD is that "the public and other interested stakeholders" be involved in its preparation.

It is important to note that the DTSC is requiring a risk analysis to determine the risk of exposure from contaminants based on the work plan and the laboratory results of the soil-gas testing.

IN CONCLUSION

These orders to the IUSD to perform further testing are a major victory. However, ensuring that the IUSD fulfills its responsibility for the safety of the students, faculty and staff who will be occupying the school for many years to come, will require the continued active involvement of Irvine residents.

In a late March 28th email received from Annie Brown, IUSD's Public Information Officer, she wrote: "The draft workplan is being updated to reflect additional locations and tests beyond the 10 originally submitted."