

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
ANGELES REGION

100 CENTRE PLAZA DRIVE
MONTEREY PARK, CALIFORNIA 91754-2156
(213) 266-7500



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UTILITY FACTORY

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November 21, 1990

Mr. Gary Little
UTILITY TRAILER MANUFACTURING COMPANY
17300 East Chestnut Street
City of Industry, CA 91749

DIRECTIVE FOR SOIL GAS SURVEY (FILE NO. AB105.296)

Board staff is in receipt of the Utility Trailer August-September groundwater monitoring report and annual summary. Review of groundwater analyses data provided during the past year, combined with additional groundwater data from adjacent sites indicate possible contaminant sources exist along the eastern site boundary. Your facility's maintenance shed, paint area, and current and historic chemical/waste storage areas are located along this boundary. Board staff findings are as follows:

- 1) Comparison of up-gradient and down-gradient groundwater data obtained in February 1990 shows an increase in contaminant levels across the Utility Trailer (UT) site (concentrations in $\mu\text{g}/\ell$):

VOC	(up-gradient)	UT	(down-gradient)
	Somitex E-2	MW-6	UT MW-2
PCE	26	72	820
1,1-DCE	ND < 2.8	39	97
1,1,1-TCA	ND < 3.8	49	52

Additional VOCs detected in UT groundwater monitoring wells not found in Somitex groundwater analyses are TCE, DCA, t-1,2-DCE, vinyl chloride, chloroform, acetone, carbon disulfide, toluene, and Freon 11.

- 2) During a February 1988 inspection of L*A Water Treatment, located immediately east of UT, discharge was observed flowing from the UT maintenance shed onto L*A property. During construction of a groundwater monitoring well, located in this general area, water was apparently encountered in the gravel sub-base of the L*A driveway.

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Previous soil investigations at UT have focused only in the open soil area impacted by discharges from the facility drainage conduit servicing both UT and Somitex (December 1987 initial soil assessment). At this time, you are directed to prepare a work plan to assess the extent, if any, soils have been impacted by discharges to ground in a) the facility maintenance shed, b) paint shed, c) chemical storage and use areas, current and historic, d) chemical waste storage areas, current and historic, and e) along all drainage conduits which are accessible to waste flow and runoff.

To better facilitate determination of vertical and lateral extent of soil contamination and adequately locate soil borings for quantitative analyses, Board staff recommends that UT perform an active soil gas survey of the facility. Minimum requirements are as follows:

- 1) Locate sample nodes using a coarse 20-50 foot sampling grid. Provide a map of initial sample node locations. Sample nodes should not be limited to on-site locations or outside of the facility buildings.

- 2) Iterate to a finer multi-level sampling grid in above mentioned areas a), b), c), d), e) and any other areas where significant soil gas levels are encountered.

- 3) Discuss soil gas sample collection procedures and equipment. This includes such items as sampling equipment, sample containers, flowmeters, sample transfer equipment, and so on. Define limitations of equipment. Describe QA/QC and decontamination measures to be implemented.

- 4) Perform "real time" identification and quantification of individual organic compounds by an on-site field laboratory using gas chromatograph equipped with photo-ionization (PID) and Hall conductivity detectors. Same day turn-around for analysis of samples is required.

- 5) Meet detection limits of 0.01 ppm for soil gas analyses.

- 6) The soil gas survey assessment report must also include a work plan for additional soil analyses and/or ground water monitoring, identifying location and depths for obtaining discrete soil samples for laboratory analyses.

- 7) Address specific QA/QC measure for laboratory analyses. This includes sample blanks (initial and periodic), spike samples, duplicates, control points, records and chain-of-custody. Equipment must be calibrated daily.

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Four copies of the work plan for conducting the soil gas survey are due to Board staff by January 4, 1991. Please remember that any investigative work should not be implemented until the work plan has been reviewed and approved by Board staff.

If you have any further questions, please contact Dainis Kleinbergs at (213)266-7530, and address all correspondence to his attention.



ROY R. SAKAIDA
Senior Water Resource
Control Engineer

RRS:dk

cc: Joe Viray, U.S. Environmental Protection Agency, Region IX